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"PARCEL CORPS PROMISES TO BE THAT FRESH GAMING EXPERIENCE"



I don't know about you, but the rather unique action-racing genre of videogames has always been close to my heart. I like the vibrancy of this genre's worlds, the counter-culture vibes that are often on display and, most of all, the varied gameplay on offer. But, as of late, fresh new games in this sector have been few and far between.

Parcel Corps promises to be the fresh gaming experience this genre has been waiting for.

It's *Crazy Taxi* meets *Jet Set Radio*, and I for one can't wait to slip into my Lycra shorts, jump on my bike, and get delivering.

M. Jones

ROBERT JONES
PRINT EDITOR

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ROBERT JONES Twitter

@rnicholasj

This month

Personally delivered every single issue of PC Gamer magazine to subscribers on a bicycle while listening to the Tall Paul remix of Camisra's Let Me Show You.

The PC Gamer team



Twitter
@ievenden

This month

Went on a globetrotting adventure to punch Nazis in the face. The Wilhelm scream was heard often.



WES FENLON Twitter @wesleyfenlon

This was will

This month
Turned up the settings
on his life to maximum.
A low-bitrate voice then
loudly boomed 'Holy Shit!'



JODY MACGREGOR Twitter @jodymacgregor

This are a sale

This month
Went into overwatch
mode to bag the last PC
Gamer in the bodega.
Take THAT crying child!



TED LITCHFIELD

Twitter @DORFpatrol

71.1. ... paul

This month

Fully embraced save-scumming to eat a hotdog without getting sauce on his pants.

PC Gamer (ISSN 1470169) is published 13 times a year, monthly plus a Holiday issue following the December issue, by Future US LLC, Entire 7th Floor, 130 West 42nd Street, New York, NY 10036 USA. Website: www.futureus.com. Periodicals postage paid in New York, NY and at additional malling offices. Newsstand distribution is handled by Curtis Circulation Company. Basic subscription rates one year (13 sissues) US \$2C canada US\$45 Foreign US\$47 Canada mand foreign orders must be prepaid Canadadanyier includes postage and GST (GST #R128220688), PMA #40612608. Subscriptions do not include newsstand specials. POSTMASTER: Send changes of address to PC Gamer, PO Box 2024, Langhorne, PA 19047, USA.

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PRODUCED IN THE UNITED STATES OF AMERICA.



#382 MAY 2024

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ISSN 1470169

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The University of Utah's Division of Games offers both a Bachelor's and a Master's degree in Video Game Development, in addition to a partnership with the U's School of Computing to offer a Games Emphasis in their Computer Science Bachelor's degree. These degrees allow students to choose a distinct area of focus as they navigate the program: from Engineering, Art, Production, Design, and Technical Art. That focus provides them with an improved skill set as they enter the game industry.

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lan Evenden whip-cracks his way through a first-look preview of *Indiana Jones and The Great Circle*, the new adventure game incoming from MachineGames.

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PCGAMER MONITOR NEWS | OPINION | DEVELOPMENT



YELLOW RAT'S REVENGE

How a DMCA'd PALWORLD modder got back at Nintendo

intendo is a legendarily litigious company—with mods and emulation often falling under the gaze of its burning, all-seeing eye. Nexus Mods, the world's biggest mod hosting site, has even enacted a ban on *Pokémon* conversion mods for *Palworld*, citing Nintendo's record of "submitting legal challenges".

No one knows that record better than YouTuber Toasted Shoes, who received a DMCA notice after posting a teaser trailer for his *Palworld* to *Pokémon* mod that he was going to release for free to the community. But Nintendo got there first. Before the video could accumulate even 100,000 views, the corporation swept in to take it down. But Toasted Shoes wasn't one to be stopped, and quickly assembled a team of modders to devise an infernal concoction of bootleg *Pokémon*, from Hades.

THIS IS SOMEHOW
MORE FLAGRANT
THAN PIKACHU
CARRYING A PICKAX

TOO LEGIT TO QUIT

In a new video, Shoes has been playing *Palworld* using a mod that is "not a reference to anything, I promise". In it, the YouTuber plays through the adventures of "teenage boy in cap" as he roams far and wide and catches "legally distinct" creatures. This 'lovable' cast of characters includes Yellow Rat, Braided Sheep, Fire Fox and everybody's favorite: Fat Cock.

Although these little pocket-sized creatures might ring a bell or two, Toasted Shoes is emphatic: *The Legally-Distinct Pocket Creatures Mod Pack* is a "Totally Legal" mod pack that doesn't infringe on anyone's

NEWS | OPINION | DEVELOPMENT

CHILL WINDS

THE AX FALLS



The ink had barely dried on its Activision-Blizzard acquisition before Microsoft Gaming CEO Phil Spencer announced 1,900 layoffs. The

cancellation of Blizzard's survival game Odyssey, alongside the departure of CEO Mike Ybarra and co-founder Allen Adham, feels ominous. RS

ONE BAD DAY

AFTER THE DAY BEFORE



The Day Before was even worse than you thought. A new documentary collected dev stories of tyrannical bosses, shifting targets, endless

crunch, and most bizarre of all: staff being forced to pay fines to the company if they turned in unsatisfactory work. Jw

DOWNSIZING

100MB WINDOWS



A standard Windows 11 install today can gobble more storage than the Xbox 360 launched with, but the devs behind Tiny11 have

shrunk it down to a fraction of its original size. You only need to kill off the GUI. Do you need a GUI, you ask? Uh... don't worry about it. ■ JR







TOP: Who you gonna call? Saul!

ABOVE: Keep still, Nintendo's lawyers' vision is based on movement.

copyright at all. I'm no lawyer, but I'm pretty sure all the most kosher, legit models put 'totally legal' in all caps on their descriptions. That's how you can tell them apart.

Jokes aside, this is somehow more flagrant than Pikachu carrying a pickax. Much more flagrant. Palworld has come under fire for its derivative Pal designs, which are sometimes too close for comfort—but they're at least nice to look at. They were designed by somebody, rather than strapped together with royalty-free models and set loose upon an unsuspecting public.

Teenage boy in cap's ordeals culminate in a climactic battle with Saul Goodman (ves. that Saul Goodman), who conjures a giant cease and desist letter out of a small mason jar. It's a reskin of the game's Syndicate Tower battle with Rayne, who rides an enormous Grizzbolt. That's Grizzbolt, mind you, not Electabuzz, Remember that if Nintendo's lawyers come asking questions.

There's something about seeing Saul's little head poking over the top of a menacing legal document-and by 'something', I mean it's my new sleep paralysis demon for the foreseeable future. Nintendo's copyright may be 'protected', but a terror has been unleashed into the world instead. One that's wildly, horribly aware that you have rights. The constitution says you do.

Harvey Randall

Highs & Lows



HIGHS

A gutful of Doom

MIT researchers have got Doom running on, wait for it, gut bacteria.

Survive and thrive

Enshrouded grabbed more than a million players in three days, making January a blockbuster month for survival games.

StarCraft remade

Modders have spent a decade remaking StarCraft in the second game's engine.

Apology squadSuicide Squad devs had to apologize after its early launch ran into bugs.

Plaver known

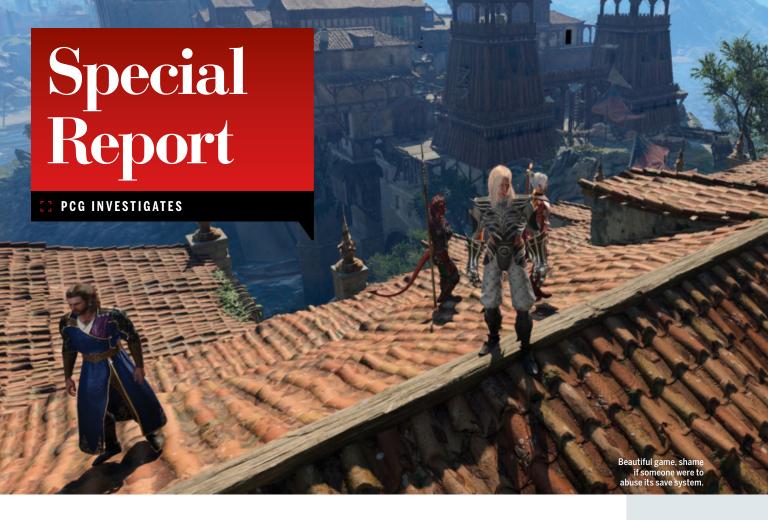
A Korean man who avoided national service was jailed partly because his PUBG career cast doubt on his 'conscientious objector' status.

What are the odds?

Palworld had an issue with items that increase your chances of catching pals: they seemed to be decreasing them instead.

LOWS





ASCUM SUPREME

Developers weigh-in on save scumming

e all save scummed in Baldur's Gate III, right? A bad roll, fight's not going well, time to mash quick load, baby. In stealth games this behavior may manifest as a compulsion to pull the ripcord every time you get spotted, while 4Xs see us setting up a temporal base camp right before declaring a risky war. But what if living with the consequences of your actions could be fun? Usually I'd say I do enough of that in real life, but a recent dalliance with Baldur's Gate III's permadeath Honor mode gave me pause.

With save scumming at the top of our minds, it was time to get to the bottom of things by asking a professional for their take. Five professionals, in fact: two RPG developers, and three who work on immersive sims, aka 'the thinking man's FPS', aka those games where you crouch walk everywhere and knock guys unconscious.

First up is Nick Pechenin, lead systems designer on none other than *Baldur's Gate III* itself. From the start, Pechenin bristles a little at the value judgment inherent in the term "save scumming," arguing that it's "making a sin out of routine player behavior".

Pechenin further elaborates on a player-first philosophy towards the practice: it's your money and free

time, so you decide how you approach the game. While Pechenin acknowledges there's always a risk of save scumming getting out of hand, he thinks it's up to a game's developers to head it off, "The designer's job is to avoid creating a situation where a susceptible player can fall into this trap." Pechenin pointed to interesting failure states that you wouldn't necessarily want to erase as a way to keep players from getting their scum on, recalling a dynasty-ending *Crusader Kings III* succession crisis that was "so perfectly authentic [he] could not bring himself to reload and 'fix' it".

Coming from the opposite direction, Pechenin praised 'quick rewind' functions in racing games, which turn that trial-and-error of a quick load into part of the game itself instead of something abstracted through menus. That segues right into our second developer, or rather, developers: Team Fortune, the two-person team behind the Early Access FPS-immersive sim *Fortune's Run*.

It's a fast-paced game with very few autosaves, instead leaving it to the player to decide where their checkpoints should be via quicksaves. On top of that, Team Fortune implemented a rewind animation on loading a save similar to what Pechenin describes. "We really just wanted to have some kind of cinematic or narrative framing for the transition," a Team Fortune member explains, wanting to minimize the feeling of it being "a technical feature".



First Principles

When does it become 'save scumming' and not just saving and loading your game? Broadly, it's when you reload a save to undo a mistake that wouldn't necessarily have resulted in a game over. Our interviewees uniformly didn't find the behavior objectionable —Team Fortune for example, merely see it as another variable to account for like player skill or genre familiarity.

__[MONITOR]





FAR LEFT: Hope you saved before trying that, kitty.

LEFT: Wish I saved before looking directly into this light.

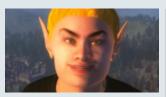
SCUMMER'S MOTIVATION? Common instigators of well-scummed saves



RANDOM NUMBER GENERATION Found in Baldur's Gate III and Disco Elysium: just keep saving and loading until the dice go your way.



SNEAKIN' International super-spy cop guys like the Denton bros of *Deus Ex* fame don't get spotted—they smash F9 to load a save.



NPC DEATH
A hazard of pacifist runs or when an NPC
dying doesn't mean game over. Just this
once, everybody lives.



GRAND STRATEGY
Do I really want to put my civilization at risk by going to war with the Greeks? I'll quicksave, just in case.

The pair believes players should do as they please with save games, arguing that "the idea of save scumming is based on the concept that there is a 'proper' way to experience a game," with restrictions and rules only being truly necessary in a competitive context. Team Fortune further insist on "respecting a player's time," trusting them to find their fun, and giving them the tools to avoid frustrating hangups.

MAYBE SOME SHAME

OK, not 'shame', but a different approach to handling save games. Dillon Rogers is currently working on *Gloomwood*, an indie immersive sim like *Fortune's Run*, but one that relies on strict checkpointing rather than infinite freedom to save. "These systems aren't about punishment," Rogers stresses, instead hoping to "encourage players to free themselves

from needing to play perfectly, and enjoy the thrill of making—and recovering from—mistakes".

Rogers' initial experience with the *Thief* games seems to have been a big inspiration here. By using saving and loading to string together 'perfect' heists, the designer found he was getting in the way of his own fun. "One day I was like, 'I am spending more time reloading the game instead of enjoying it,' and just let myself make mistakes."

With *Gloomwood*'s checkpoints, as well as some monstrous enemy designs that help break the genre's historical pressure to maintain perfect nonlethal stealth, the game encourages players to improvise and adapt when things go wrong, instead of loading a save. Rogers

hopes this adds to the game's stakes, "To feel the high of victory, the challenge of getting there has to feel emotionally worth investing in."

Obsidian studio design director Josh Sawyer, meanwhile, sees it as a design failure when he's pushed to the point of having to scum. "People have seen me do it on-stream with *Disco Elysium*," Sawyer recalls. "I was trying to do the Conceptualization check with the mural. I had a super high investment in [the skill] and kept blowing it. I'm like, 'Fuck this, man. I'm just gonna reload

it until I get it, sorry'."

When working on a game, Sawyer prioritizes avoiding 'standalone checks' like this, instances of frustrating design or random number generation that encourage reloading a save until you achieve a desired result. In his own projects, Sawyer prefers static skill gates where you need, for example, 50 points in persuasion to

get past a guard, with no dice involved. If you're short, too bad, but if your character is built that way, they can't be punished with a bad roll.

That brings me full circle back to *BG III* developer Larian: the studio's prior *Original Sin* games relied on such static gates, and their conversations couldn't be brute- forced like *BG III's*. Other priorities can supersede scum-proof design though: you can't rightly make a D&D RPG without dice rolls. Other devs will find ways to wean off scummers, but that approach won't fit every game, and if a new all-timer like *BG III* has design elements that incentivize me to scum, then scum I shall be. ■

"ENCOURAGE PLAYERS TO FREE THEMSELVES FROM NEEDING TO PLAY PERFECTLY"

Secret Level

THE UNSUNG HEROES OF DEVELOPMENT

MOTIONAL EXPERIENCE

PHIL STILGOE and JOE ELLS of Centroid UK on the art of motion capture

entroid is a giant of the motion capture world, having worked on multiple blockbuster movies, streaming shows and globally successful games. Despite being CEO, Phil Stilgoe's route into that world wasn't quite what you might expect; once upon a time, he was working as a chef on cruise liners.

"I was interested in photography," explains Stilgoe, "so I understood cameras. We started as a family business many years ago, and it was just a bit of a passion project to begin with. And we went from strength to strength". Joe Ells meanwhile, the company's post production manager, started in the game industry, working on Guitar Hero—which was making use of Centroid's services at the time.

When it comes to games, the fundamental requirements for a motion capture job can vary from project to project. "Some games will require full performance capture," says Stilgoe, "and we're recording the audio, the body movements, everything. Then some games we'll have the audio tracks pre-recorded, and the actors perform to them."

As budgets and development times have increased for games over the years, so has the willingness to embrace motion capture, and to ensure that properly skilled people are involved. "They're not afraid to bring in those highly skilled people from different walks of life to fill in the gaps that used to exist," says Ells. "Now everyone's been brought up to the same level." Sometimes, experienced people from the movie industry will even be brought in to help. Movie

actors are more likely to be willing to engage in mocap than in previous vears. Stilgoe credits Andy Serkis with validating this work as an option.

PERFORMANCE REVIEW

The mocap industry itself, and the methods and equipment used, have also evolved over the years. The professional bodysuits simply didn't exist in the early days; performers would have markers attached to the body with spirit gum. They experimented with tape and elastic bands; at one point, Stilgoe's gran helped by stitching Velcro onto catsuits. Eventually, however, 3x3 Designs started to provide Velcro bodysuits that could have markers

quickly and easily applied. "It was like a renaissance in front of the camera for us," says Stilgoe.

Performance capture isn't just body movement-sometimes it involves detailed facial movement capture, too. This involves the actor having to perform with a boom directly in front of them, and a camera with a light; in addition to a battery pack strapped to their body. "Most actors take to that after a while," says Stilgoe, "it just might be a little bit more restrictive than they're used to. From our side, the camera needs to be aligned correctly to the face."

The complexities of capturing the movements of real people aren't always immediately apparent to a new client. "Sometimes it's their first stab at it," says Ells, "and we're happy to guide them. Ultimately, the client needs to make the final decisions, it's their property and materials. But the difference between a rig with 12 joints, [which] can't do a lot, and something with 500, potentially...!"

Sometimes, mocap is required for actions that aren't safe or practical to capture directly. Stilgoe gives the example of a character wading through mud. "It has to be believable. So we'll attach sandbags sometimes to the heels, or use jogging weights."

Ells is keen to emphasize that there's a wide variety of jobs to look into for anybody interested in the mocap industry. "There are so many people on the production side, there are probably 50-plus roles that people could go into, particularly on the film side of things." Stilgoe adds that they've worked with universities in order to help people be aware of these roles in the game industry.

Luke Kemp

MOVE IT ALONG

Other ways to skin a moving cat



The fluid movement wowed people on release in 1992 thanks to its use of rotoscoping.



CUPHEAD Painstakingly hand animated to mimic the style of classic 1930s cartoons.

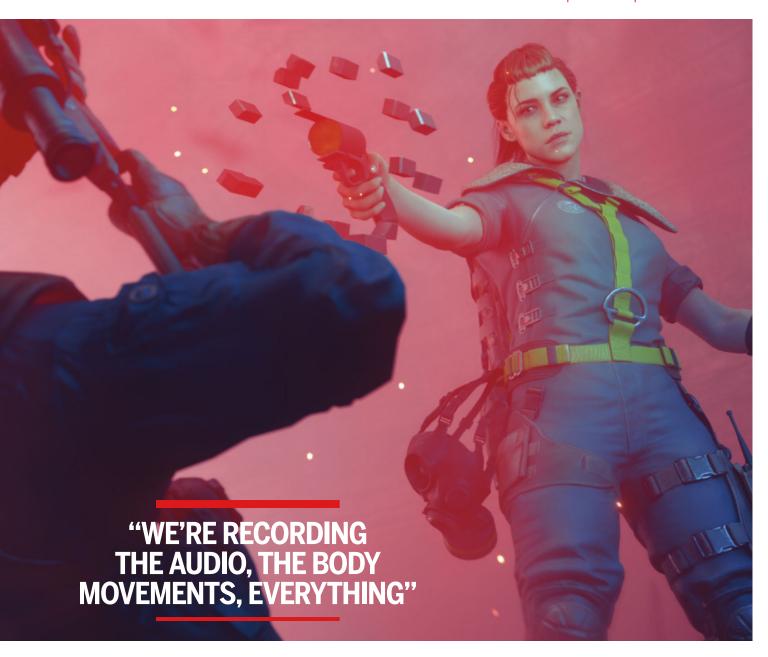


RAIN WORLD One use of AI we can all agree isn't icky is procedural animation, as used in this indie hit.



HAROLD HALIBUT The game isn't stop-motion animated, but looks it thanks to the use of hand-sculpted models.

NEWS | OPINION | DEVELOPMENT









FAR LEFT: You can wreak havoc with the right amount of realism thanks to Saints Row's mocap.

LEFT: Assassin's Creed Syndicate used mocap, but probably didn't involve real assassinations.



NEXT GENERATION OF GAME DEVELOPERS

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At the University of Central Florida's Downtown Campus, FIEA is immersed in Creative Village Orlando, situated across the green from Electronic Arts' 1,000-person studio, and just blocks away from Microsoft Games Studio and Iron Galaxy Studios. Creative Village now has more than 2,000 professional and student game developers within its vicinity.

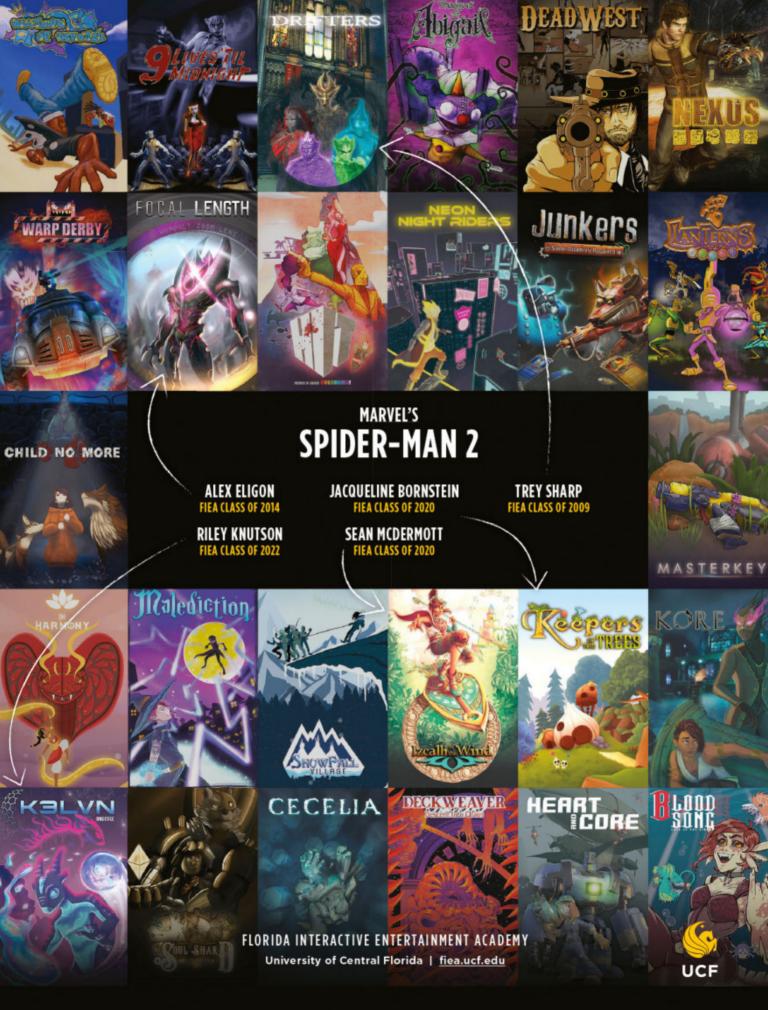


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Indiana Jones and the Great Circle

NEED TO KNOW

RELEASE 2024 DEVELOPER MachineGames PUBLISHER Bethesda

LINK indianajones.bethesda.net

INDIANA JONES AND THE GREAT CIRCLE

A whip-cracking look at the newly revealed first-person adventure

ial of Destiny might have proved that the cinematic franchise is as dead as Archimedes, but videogames could be the new natural home of Indiana Jones. With no need for CGI de-aging or time travel, *Great Circle* can concentrate on what makes the series great: punching Nazis.

There's likely to be plenty of that, as the game is set in 1943, between the events of Raiders of the Lost Ark, a film in which Nazis were punched, and Last Crusade, a movie that also contained its fair share of fist/nose moments. That FIRST sort of thing has to be filed under LOOK 'likely' for now as we know relatively little about the game beyond the events of the single trailer available and the sparse information released by publisher Bethesda. Hot off the release of Starfield, Bethesda may not be everyone's favorite software house right now, but the big news is the name of the developer.

It's MachineGames, Zenimax stablemate of Bethesda and the maker of Wolfenstein: The New Order and its associated sequels. The studio is known for its ability to build games that are grounded in their setting and come with a feeling of weight and power—just what you want if you're cracking a whip, snatching a hat from under a descending stone door, or rearranging the squashy bits of a Wehrmacht soldier's face.

MACHINEGAMES IS KNOWN FOR GAMES THAT ARE GROUNDED IN THEIR SETTING

ROUND AND ROUND

And then there's the title. If you've ever flown from Chile to Mongolia, you'll know that the fastest way to get there, due to the way geometry works on a sphere, is to zoom up to the Arctic, make a sharp turn, and go back down again. This feels a bit counterintuitive, as surely you could just fly there directly over the Atlantic and Africa, but greater minds than those who write game previews have decreed that this is the way to do it, and that it's called a great circle. For the mathematicians out there, a great circle is the circular intersection of a sphere and a plane passing through the sphere's center point: any arc of a great circle is a geodesic of the sphere, so great circles in spherical geometry are natural analogues of straight lines in Euclidean space. Indiana Jones movies make much of following lines on maps, so could the new game include some form of air traffic control?

Unlikely. However, there's another great circle, and it's a bit more in keeping with the Indy mythos, which seems capable of sucking in every facet of legend from Christianity to Kali, exploring various

interpretations of the word 'accuracy' along the way. If you visit the corners of the internet that feature crystals and smell of yoga, you'll find that there's a theory about ancient sites in the world lining up in a circle. A great one.

The general idea is that some sort of mysterious power caused ancient civilizations to build their temples and assorted other sacred sites in such a way that they lined up. This caused more of the mysterious power to happen, and is very much the sort of thing the Nazis should probably not get their hands on.

CONNECT THE DOTS

The mystery was opened up by the game's director, Jerk Gustafsson, in an interview with lucasfilm.com. "It turns out there is a very real and mysterious great circle that is not the equator, but one that connects many of history's greatest historical sites such as Giza, Easter Island, Sukhothai, Nazca and many more," he explained. "Their connection has remained a mystery, and this provides the perfect adventure for our game."

Well, yes. If there's one thing that Indy movies and games have always been

Indiana Jones and the Great Circle

great at, it's globe-trotting adventures that would make Lara Croft and Nathan Drake look wistfully at their frequent-flyer points. Gustafsson's list takes in Egypt, the south Pacific, Thailand and Peru.

The problem is that games already have treasure hunters and raiders of tombs. Does Indy have enough—beyond the brand recognition a series of (mostly) successful movies brings—to make gamers care about his adventures?

INSIDE INDY

Gustafsson's interview also touched on the most interesting part of the Great Circle reveal—it's a first-person game. "First-person gameplay is part of MachineGames' DNA, and we wanted to see how we could use this to create a really immersive experience around stepping into the shoes of the world's most famous archaeologist," he said. "It also separates our game from many other action-adventure titles, making it a unique experience that you cannot find anywhere else. However, we still want to show Indy as much as possible, so we have a seamless flow between first-person gameplay and third-person actions, events and cinematics."

This is important, because it creates a break between Great Circle and the somewhat mixed bag of Indy games that have come before. Apart from his adventures with Lego and Fortnite, the ones that stick in the memory are the LucasArts point-and-click games from the '90s, but there were action-adventure games too, such as Indiana Jones and the Infernal Machine from 1999 and 2009's Indiana Jones and the Staff of Kings. The latter game missed the PC, but these indifferently received titles brought Indy into 3D and contained a certain amount of whipping and Nazi punching. They were third-person, however, so MachineGames' effort will need to provide sufficient identification with a character you can't actually see most of the time.

Embodying such a strong character makes for a slightly different kind of role-playing than you usually find in Bethesda games. Indy isn't afraid of sneaking or talking his way out of a sticky situation, but it usually ends in some sort

INDY ISN'T AFRAID OF **SNEAKING OR TALKING HIS** WAY OUT OF A SITUATION

of cartoon violence and a fist encountering a face. Becoming Jones will need to be prioritized over the kind of customization options we might expect.

MR PUNCH

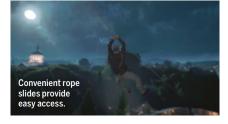
The trailer shows that keeping in character will be no problem for this iteration of Jones. According to Entertainment Weekly, Troy Baker will be providing the voice for an Indy who looks almost but not perfectly like a young Harrison Ford. The game is running on the id Tech engine, probably version 7, the power behind Doom Eternal, which means Vulkan-only rendering on PC. From what's been shown it certainly looks the part, with the trailer's opening in a sandy desert switching to lush rainforest, a tussle with a Japanese fighter plane, treks through snowy mountain passes and a whip-assisted ascent to a Zeppelin moored over the domes of a European city.

There's also the requisite amount of punching. In fact the trailer seems to glory in it, surely meaning first-person violence will be a major part of the game alongside using the whip to cross gaps and fitting the wooden gears of an ancient machine back together. As is traditional, Nazis are the main targets, with one scene reminiscent of the propeller-assisted punch-out from Raiders of the Lost Ark.

Given the state of Jones' romantic life at the end of Raiders, an appearance from Marion Jones might be too much to expect, but some secondary characters do appear in the trailer. One is Denholm Elliott's Marcus Brody, the bumbling academic who once got lost in his own museum, while the other is less clear. An investigative reporter named Gina makes a key appearance, likely to be an ally who hopefully won't go the same way as Helena Shaw from Dial of Destiny. There's also the villain, Emmerich Voss—a Nazi, naturally, and one who appears to come with a pre-broken nose—and a character referred to as a 'giant' with the face of Tony Todd who's in the habit of breaking into museums and stealing things.

With this mix of old and new, and with MachineGames and Bethesda behind it, Great Circle is shaping up to be an interesting new take on an old legend. There's enough talent here to make something really spectacular with the license, a clone of Tomb Raider or Uncharted just won't do, so a close eye should be kept on the game's progress. Ian Evenden











ABOVE: Can't wait to punch that face.

LEFT: There it is! The great circle!

Avowed

NEED TO KNOW

RELEASE Autumn 2024 **DEVELOPER Obsidian**

PUBLISHER Microsoft

avowed.obsidian.net

AVOWED

Obsidian's next RPG goes all in on first-person action

vowed has been at the top of my own, personal most wanted list since that first pre-rendered trailer back in 2020. A first-person, more immersive take on the world of Eora I've loved so much since first playing Pillars of Eternity always sounded like just the thing for me.

> While we still have plenty of gaps in our knowledge of this RPG, even as its planned release this fall draws near, a recent developer showcase and conversation with Avowed director Carrie Patel and gameplay director Gabe Paramo have given us a clearer picture than ever before of this RPG.

Avowed takes place in Eora's NEW INFO Living Lands, a northern frontier previously only represented by lore tidbits and potential character backgrounds in the Pillars of Eternity games. You're cast as an emissary of the Aedyr Empire, sent to investigate some kind of metaphysical sickness that, going off the trailers and Avowed's cover art, manifests as some kind of glowy fungus.

I asked if this was a prequel or sequel to the Pillars of Eternity games, but that seems to be a revelation Obsidian's saving for later. Patel explained that Avowed will "have some recognizable touch points and a few recognizable characters for returning fans, but you don't have to have any familiarity or experience with Pillars 1 or Deadfire to enjoy Avowed".

You'll be creating your own character, but rather than Pillars' spread of six races,

HAS ME HOPEFUL THAT IT'LL **AVOID A GREAT PITFALL OF** SIMILAR FIRST-PERSON RPGS you're limited to humans or elves. The lore explanation is that Aedyr was formed of an alliance between these two most vanilla of fantasy species, but in another recent interview with IGN, Patel explained that short kings in particular just wouldn't play nice with Avowed's new perspective.

SWORD AND BOARD

There's still plenty of character customization though: Avowed will have a classless system with particular flexibility when it comes to mixing and matching different combat styles. While I'll miss the specific class fantasy of *Pillars* standbys like Ciphers or Chanters. I did spot what looked like a dialog option in the developer direct trailer, and Patel confirmed that there would be background options at character creation.

As for the first-person combat, that seems to be a huge focus on Obsidian's part going into Avowed, and to such a degree that while there will be dialoguecentric solutions to certain quests and some light stealth, Patel and Paramo revealed that this isn't a game in which you could pull a pacifist run.

For Avowed's first-person swording, Obsidian's looking to the best in the game for a lead. Paramo cited Fatshark's beloved co-op Warhammer first-person slugfest, Vermintide, a game that's made many a true believer out of former first-person melee combat skeptics like myself. "We're trying to get our inspiration from there, just that masterclass in having a sense of hitting and impact."

"I'm definitely really proud of what the gameplay team has done," Patel added. "I really do feel like it's going to stand head and shoulders above when it comes to fantasy first-person action RPG melee combat." That confidence, and the kinetic action shown off in Avowed's trailers, has me hopeful that it'll avoid a great pitfall of similar first-person RPGs: dull combat.

DOING IT RIGHT

When I think of what I love in, say, The Elder Scrolls IV: Skyrim, it's not the listless fencing with rude orcs out in the wilderness. Hell, combat in many first-person RPGs is so bad I often feel like sneaking around and avoiding it entirely is the most fun way to play—that's not going





Avowed



RIGHT: Loving the whole "otherworldly beauty" thing going on here.

BELOW: The lizard became my friend and walked away from this unscathed.



Avowed







to be an option for Avowed, but with the team dead set on making this the best first-person combat system it can, maybe I won't miss my accustomed playstyle.

On a similar note, There are so many games where magic is just lame. *Skyrim*'s summoning spells and behavior-altering illusions are sick, but otherwise the magic's all in convenient missile form. *Dragon Age* also disappointed me with its spells, which always felt so weak compared to the reality-warping power its mages are supposed to have.

Avowed looks extremely promising on this front, with its most recent trailer demonstrating freezing and shattering enemies, Force-pulling them with telekinesis, and breaking them up with the sort of mass crowd control you don't usually see in a first-person RPG. There's even a gnarly-looking antigravity vortex spell in the first trailer that looks like the bigger brother to the Mass Effect series' Singularity ability. In our conversation, Paramo revealed that this is actually a new interpretation of Pull of Eora, a fourth-level Wizard spell featured in Pillars of Eternity.

SIMPLY MAGICAL

That connection has me hopeful that we'll see even more of *Pillars*' wild spells make it into *Avowed*. On the arcane side, I'd love to see battlefield-altering stuff like Wall of Force, or the mass-petrification spell Gaze of the Adragon. One of *Pillars*' signature spell-types is abilities like Ray of Fire, which creates a beam between yourself and an anchor point, damaging any enemies in the way.

That's what the wizard fantasy is all about to me, and more low-fi, old-school RPGs always seemed better able to tap into it—they relied on your imagination to fill the gaps of less photorealistic graphics, or were able to more cheaply introduce awe-inspiring visual effects. When you're trying to do the same thing in a modern game, good RPG magic needs this commitment to cool systemic interactions and even letting you break the game.

One perfect example of that is Arkane Studios' second release, *Dark Messiah of Might and Magic*. That game let you go nuts: creating ice surfaces on the floor for enemies to slip on, flinging orcs across the

THE SORT OF MASS CROWD CONTROL YOU DON'T USUALLY SEE IN A FIRST-PERSON RPG

map with an overpowered, gravity gun-style telekinesis move, and ragdolling nearly every foe with two kicks of your mighty boot. It was almost more of a physics sandbox than an RPG, but a little bit of that spirit could be just the thing to launch *Avowed* into the stratosphere.

FRIEND ZONE

And we won't be alone when we dive back into Eora: so far, Obsidian's shown off two companions of an unknown total coming to Avowed. One of them, Kai, is a member of the big and tall, vaguely aquatic Aumaua race, and seems to be fulfilling the role of your snide but loyal sword and shield warrior. I'm less clear on the mechanical niche of the second revealed companion, Giatta, but she seems to hail from Eora's Vailian Republics, the home of Pillars' paladin companion, Pallegina.

Patel and Paramo confirmed that there will be more companions in the final game, but didn't reveal how many. When they're not in your active crew, your benchwarmers will hang back at a home base—Patel specifically used the phrase "party camp", calling to mind *Dragon Age: Origins* or *Baldur's Gate III's* wilderness hideaways rather than the concerted projects of *Pillars'* keep and tall ships.

They seem chatty and eager to comment on the goings-on of your quests, but won't have influence or approval meters to stay on top of. Paramo and Patel explained that they'll have important roles in the main quest, join up with you by set points in the game, and clearly telegraph when a mission ties into their personal arc or requires their expertise. The RPG die-hard in me distrusted such simplification, but then I remembered keeping 11 wiki pages open to track New Vegas companions' influence triggers, and realized it might not be such a bad thing.

One thing that this gang does have in common with *New Vegas* though? No romance sidequests. Patel and Paramo confirmed as such when talking to Eurogamer. This may not preclude a four-episode arc to wingman for one of them like in *The Outer Worlds* though.

We're starting to get a real picture of Avowed now after years of waiting, and I'm excited to sink my teeth into this thing. It's looking like a more actionoriented, user-friendly RPG, but its beautiful, vibrant environments already have me sold on the Living Lands, and I'm eager to see the next iteration of Obsidian's moody, offbeat storytelling. Ted Litchfield

Divine Frequency

 NEED TO KNOW

 RELEASE
 DEVELOPER Good Karma
 PUBLISHER Hellforge Studios
 LINK shorturl.at/fmLOZ

DIVINE FREQUENCY

This horror-RPG-FPS built in the Doom engine is terrifying

knew I was in for a stomach-churning time with *Divine Frequency*'s demo after I finally acquired my first weapon. I came up to a hallway in the game's vast industrial underbelly and spied an ominous figure looming way down the hall. The light above it cut out, I turned around, and there it was: a horrible faceless mannequin an eyelash's length away.

I panicked, started blasting, and swore so loud my girlfriend heard from down the hall. The mannequin is actually completely harmless, and I just wasted precious ammo and weapon durability on a prank. *Divine Frequency* punked me.

This horror-FPS-RPG launched its first Steam demo during 2023's Realms Deep event, a former mod project now getting reworked into a full game. It's built on GZDoom, the ubiquitous source port of id Software's classic, and it's one of those *Doom*-based games that makes you say, "Wait, you can do this in the *Doom* engine?"

It's looking like a game with some capital-L Lore, casting you as some kind of agent plumbing the depths of a vast and terrible nightmare realm. There were peeks at some distinctly SCP-flavored background text here, giving that delicious contrast of banal agency-speak trying to wrangle the unknowable horrors around you. It never felt like I was getting beaten over the head with all that Lore, but instead it gave me the great feeling of witnessing the tip of a storytelling iceberg.

IT NEVER FELT LIKE I WAS GETTING BEAT OVER THE HEAD WITH ALL THAT LORE The shooting and exploration reminds me most of *System Shock 2*, of all things. You creep along these utterly vile, rusted underhalls ready for freakish creatures to jump out at you from any corner—these things always seem to be positioned right in your blind spot on entering a room. They go down with just one or two hits from the satisfyingly beefy basic pistol, but you're also pretty fragile and these things move fast. I particularly hated (read: loved) one enemy type that both looks and moves like a house centipede—awful guys rushing around faster than it feels like anything should.

IMMERSIVE SCARES

Ammo is scarce, and *Divine Frequency* also cribs *System Shock 2*'s weapon degradation system, one of only a few durability mechanics I've ever enjoyed in a game. An exceedingly rare repair consumable always feels like a godsend whenever you find one, and while I always felt the pressure of my resource constraints, I was never on the verge of the demo being unfinishable.

dreamlike labyrinth where areas transform behind you or even in front of your very eyes, a surreal tech trick I absolutely loved in last year's Alan Wake 2 and fellow Doom project Myhouse.wad. In our era of unprecedented graphical and computing power, I would like to see more impossible mindscapes in my videogames.

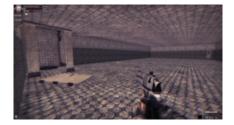
The demo level takes you through this

The demo also features two excellent boss fights, distinct from both each other and the rest of the gameplay loop. One is a puzzle fight, while the other is a straight-up duel focused on timed dodges and a counter mechanic that was instantly intuitive and fun to learn. The potential for a full game that's so generous with its different gameplay styles, always surprising me with unique vistas, puzzles and encounters, has me extremely excited for the complete package.

Divine Frequency whips, and there's very little else like it, somehow managing to combine a helpless, overpowering sort of horror with excellent shooting. Divine Frequency captures a similar sense of being made less than human in the belly of some great and terrible machine.

Ted Litchfield











ABOVE: Buddy, just letting you know, but you've got a bag on your head.

LEFT: A dark and disturbing dreamlike labyrinth awaits.

Palworld

NEED TO KNOW

RELEASE
Out now (Early Access)

DEVELOPER Pocketpair PUBLISHER Pocketpair

pocketpair.jp/palworld

PALWORLD

Shockingly, animal cruelty doesn't make for a fulfilling experience

was morally obligated to keep an eye on *Palworld*. I've been playing *Pokémon* on and off for four fifths of my time on this Earth. I'm a card-carrying *Dwarf*Fortress weirdo, which *Palworld*'s lead developer has cited as his favorite game. Ignoring *Palworld* would've been a dereliction of professional duty. Now that I've spent a dozen hours with it following the game's emergence into Early Access, I can comfortably say that duty might have been fine to leave derelict.

Palworld is lucky to be arriving in a world where the Switch's proper *Pokémon* games are as rough as they've ever been, with the open world of Scarlet and Violet visibly tearing itself apart at PLAYED the seams. Palworld might have me soaring over a generic Unreal 5 landscape on the back of a knockoff Charizard, but for a brief moment, it's a glimpse at what an open-world Pokémon could be: one that isn't flickering in and out of existence whenever you're arrogant enough to move. I'm a creatures guy! If a game's letting me loose to collect little freaks. I'm content. But once I've landed to add one of Palworld's creatures to my base-building roster. I'll remember which game I'm actually playing, because it'll toot out a little triumphant jingle as it informs me that my new friend has the Work Slave passive skill.

Let me put it this way. Watching that first *Palworld* trailer from 2021 was like seeing a picture of Bugs Bunny smoking weed and half-ironically thinking it's sick.

I START OFF PUNCHING TREES AND PICKING UP ROCKS WHICH BECOME RUDIMENTARY TOOLS

Actually playing *Palworld* is like having to hang out for hours with somebody who's made Bugs Bunny smoking weed their whole deal. It's over-committing to the bit, except the bit in this case is, well, abusive labor conditions and animal cruelty. And not only is the bit bad—it's actively making the rest of the game worse.

POKÉMON WITH GUNS?

First: the big question. Is *Palworld* just *Pokémon* with guns? It's certainly doing its best to look the part. If I open up my Poké... Paldeck and scroll through the Pals I've captured in Pal Spheres, I'm mostly left impressed by the hubris of *Palworld*'s Japanese developer imitating the *Pokémon* style so closely when it's in the center of Nintendo's lawsuit kill radius.

In a lot of cases, *Palworld* isn't mimicking *Pokémon*'s creature design aesthetic as much as it is building from the reassembled pieces of existing *Pokémon*, adding a color swap and a couple of tweaked details to hide the Frankenstein stitching. It's a surreal gallery of familiar eyes, limbs, and silhouettes. Vixy is an Eevee with someone else's head.

Mammorest is a mossy Donphan.
Jolthog? Shaymin, but electric.
Anubis? Lucario, but Egyptian.
Robinquill is Decidueye minus owl,
Nitewing is Staraptor plus Mega
Pidgeot, and Shadowbeak is... let's say
Corviknight x Silvally x Zekrom. With an
Arceus belt. I could go on. That said, there
are some charming original designs: the
profoundly dopey Relaxaurus is a joy to
watch waddle around my farm and I've got
a couple of fiery goats on pancake-grilling
duty. They've got a good vibe.

Gameplay-wise, though, *Pokémon*. *Gun Version* doesn't actually have that many Pokémon with guns. My first few hours in *Palworld* told me that it's fine. It's functional. It runs OK, barring some occasional chugging during area transitions. I start off punching trees and picking up rocks, which become rudimentary tools, which help me gather a scattering of other resources, which let me inch through incremental technology and material upgrades.

So ore becomes ingots, campfires become cookpots become kitchens, workbenches become... better workbenches. It's a pretty linear







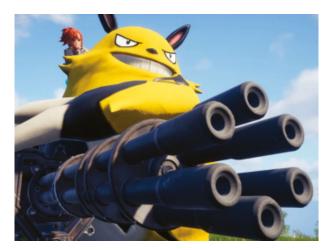




ABOVE: Nintendo's lawyers flying in to serve papers.

LEFT: Whatever you do don't mention Poké...

Palworld



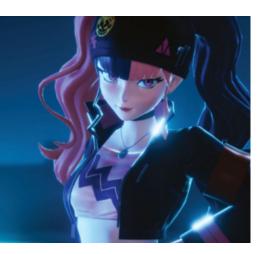


RIGHT: Yeah, I'll use that Pal, the one with the gigantic chaingun.

BELOW: Gotta shoot 'em all!



Palworld





progression, without any individual upgrades that feel particularly exciting (excluding my first gun). For the most part, it's a pretty standard base-building survival game, except of course that I've got a team of Pals to assist me.

Palworld plays best back at base, where mapping my Pals' types and abilities to production tasks adds an interesting dimension to the otherwise rote advancement through material and tech tiers. Out in the wild, Pals join in combat against wildlife and hostile poachers. Generally I can have one Pal deployed to fight alongside me at once, attacking with their equipped abilities. The combat is serviceable, but made a little clumsy by Pals getting tripped up on geometry and bullet-sponge damage scaling on what you're attacking.

GOTTA CRUSH 'EM ALL

And it turns out I'm typically the only one handling the gunfighting. Each Pal species has an active ability I can tell them to use, some of which can only be accessed after I've researched and built an upgrade at my base. Surprisingly, there's not a high representation of gun nuts in the wildlife of the Palpagos islands. That AK-wielding pseudo-Grookey you might have seen isn't constantly bearing arms; it's using an ability on cooldown. From what I've seen, the selection of Pals with gun abilities is smaller than I expected, and of the ones that are present, a few are locked behind higher-end technology tiers.

I can't say I'm particularly disappointed by the lack of more gun-toting Pals, but Palworld seems self-conscious about it. In my dozen hours with Palworld, it felt like it was struggling to fulfill a shock humor quota that its marketing set, and ended up weighing down the pieces that could otherwise be built into a better game.

Advancing my base requires the supernatural talents of my Pals, and finding new types of Pals in the wilderness to match base-building niches is a mental puzzle I enjoyed. If I want to grow crops while I'm out gathering ore, I'll need a grass-type Pal to plant seeds. I could use my big green dinosaur with the best planting skill, but it eats up a lot of food and can't join in on any other tasks. Or I

THE SELECTION OF PALS WITH GUN ABILITIES IS SMALLER THAN I EXPECTED could tap in my friendly grass squirrel who plants a little slower, but can assist with logging and transporting goods.

It's a fun set of factors to juggle. Problem is, that juggling act turns into a slog just so the game can deliver a bad punchline. Palworld isn't really asking, "What if Pokémon had guns?" Palworld is asking, "What if you could mangle the Pokémon beneath the crushing weight of industry?" It's not tongue-in-cheek. It's mid-2000s Newgrounds edgelord.

ABUSIVE BEHAVIOR

Across the board. Palworld is slanted towards getting me to abuse my Pals. All my production tasks back at base take a while, whether I and my Pals are making arrows, smelting ore, or turning my wheat and milk into pancakes—a single one of which takes almost as long as cooking a pancake in real life. As Pals work, their Sanity decreases (already a bad sign). Keeping them fed and happy when they're working is a delicate balance of lengthy production times. And because I can only have so many Pals working at once, the pace of progression is pretty glacial.

Enter the Monitoring Stand: a building where I can increase my Pals' work rate from normal to cruel, or even brutal. Forcing them to work faster increases their sanity depletion until it's untenable, increasing their chance of injuries. They'll get depressed. They'll get ulcers. They'll get fractures. I could heal those injuries with medicine, but that would require me to divert Pal slots to medicine production—adding another pressure to work the remaining Pals harder. The crafting and survival in Palworld is only interesting when it's driving me to make decisions on how I deploy my Pals, but instead of doubling down on what sets it apart, Palworld draws out its progression so I can terrorize my Pals for a shortcut.

Maybe that's funny for somebody? I don't know, I aged out of shock humor a decade or two ago, and I'm not convinced it's enough to sustain a game once the attention shifts elsewhere. Even if I can change the world settings to multiply resource and production rates. *Palworld* would be better off spending more effort on finding interesting ways to deploy its Pals. When the game's trickle of resource rates means the fastest way for me to get my next upgrade is to capture Pals just to harvest them with a censored butchering animation, it only makes me wish it wasn't wasting my time in the first place.

Lincoln Carpenter

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Parcel Corps



as it a dream? No, it was Parcel Corps!" These were the words uttered by Billy Goat **Entertainment studio director Will** Barr upon showing me the launch trailer for the indie developer's new bicycle adventure game. It was here that I had the pleasure of meeting the team and going hands-on with world-exclusive gameplay for its upcoming release.

It's a mild, gray February morning in Belfast, Northern Ireland. The streets are relatively quiet. Appropriately, a transport strike had been in full effect the previous day meaning no buses or trains were operating. As a result, an influx of cyclists are now on the road.

About ten minutes from the city center, nestled between a realtor and a deli, Billy Goat Entertainment's headquarters can be found. If you didn't know it was there, you wouldn't figure it out from the exterior, as there's no signage or other indication of a games studio hard at work on its next project.

This is all a far cry from the bustling vibrant sunny avenues of New Island where the world of Parcel *Corps* is found.

Taking inspiration from Jet Set Radio, Sunset Overdrive and Tony Hawk's Pro Skater, players are put in control of one of three bicycle courier corporations competing to become the most profitable business in the

satirical commentary and an addictive gameplay loop that is easy to lose hours in. This primarily stems from the open-world-like levels (of which there are eight) that offer great nostalgia if you're familiar with Sunset City and Tokyo-to in terms of layout. You'll want to explore every corner, and are rewarded with the most interesting routes found in the upper reaches, rather than on the ground.

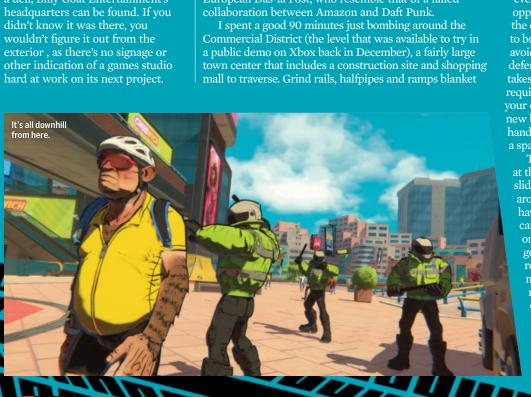
After completing a short tutorial to get to grips with the controls, players are set free to explore and deliver packages to continue the main storyline. "It's a jovial romp through this colorful, sun-kissed city," says Barr, who cycled a lot during his teenage years. "You're a bicycle courier riding along walls, grinding along rails, doing all of your normal bicycle courier kind of things. It's very arcadey. It's a pleasant experience." He jokes about taking up a job at Doordash or Grubhub if game development doesn't work out. Ironically, this is where the idea for Parcel Corps first originated.

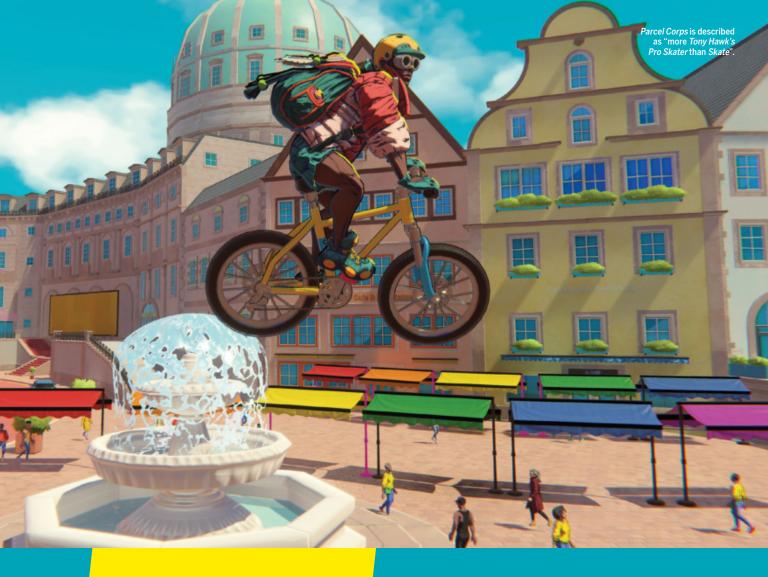
It's easy to spot those design influences in the nine playable characters, which are split between the three separate companies: Brooklyn's East Coast Couriers, the Wallaby Wheelers from down under, and the pan-European Das-la Post, who resemble that of a failed

PLAYERS ARE PUT IN CONTROL OF THREE BICYCLE COURIER CORPORATIONS land. It's bursting with personality,

> every street, providing ample opportunities to get some air. Even the cars can be used as trampolines to bounce back into the action and avoid the oncoming traffic that defeats all momentum. Being hit takes the wind out of your wheels, requiring a good few seconds for your courier to either whistle for a new bike to be thrown into his hands from offscreen, or to grab a spare out of his backpack.

The controls can be a bit fiddly at the start, as you learn to skid. slide, grind, bunny hop and boost around the island. Characters have a mobile device that they can pull out whenever stationed or riding the bike, which does a good job of replicating the real-life awkwardness of managing a phone on the move (not that we should be encouraging that sort of behavior). The cellphone displays your map, lists all tasks and has a camera that is used to scan QR codes to initiate missions.





COURIER FAVOUR

Meet the three rival courier corporations all vying for your employment



DAS-LA POST GREGORIE

Gregorie, Veloz and Anneke make up the ultra-professional, pan-European, Das-la Poste.



WALLABY WHEELERS

Jess, Ross and Zain are the Anglo-Australian start-up known as the Wallaby Wheelers.



EAST COAST COURIERS

Text: Romero, Sakura and Darryl headline Brooklyn's own East Coast Couriers. On top of this, a small chat screen similar to that of Twitch is found in the top right-hand corner where fans can rate your performance. If you execute some radical tricks they will send messages of encouragement, whereas if you fall they won't be so kind (in comparison to the real web they're Mother Teresa). Over time you will earn more followers, though I'm told it won't affect your final score. It's more for display than anything.

What I found clever was assigning the front and back brakes to the controller triggers, again bringing that sense of realism but also replicating the feeling of downhill mountain biking. It's hugely satisfying, and equally useful when performing a 180-degree turn. It's a set of controls that will be fun to master the more you play. I'm already imagining the possibilities of just what the speedrunning community could do.

The mission structure is simple,

essentially making deliveries from A to B with different rules in place along the way, such as not crashing at any point. Additionally, a Delivery Rush mode is unlocked early on in which you race between businesses to pick up and deliver parcels that then add time bonuses every time a drop-off is made, increasing the money you walk away with. Think the gameplay of *Crazy Taxi*.

I'm informed that general missions will evolve as the game goes on with the "bonkers" narrative being kept under wraps for the time being. "You're just trying to survive the gig economy and make an honest dime," Barr explains. "We have a maniacal villain—known as Rich Villainé who wants to melt the polar caps, naturally—who steps in, starts causing hassle, and is going to affect your bottom line. So you need to deal with him... and save the world!" Just a normal day as a cycle courier, then.

SATIRICAL STYLE

Made up of around 18 employees, Billy Goat Entertainment was



established in 2010 before releasing Her Majesty's Spiffing in 2016 and Supermarket Shriek in 2019—both utilize the same exaggerated satirical humor that looks to be unleashed to its full potential in Parcel Corps. It's this satirical style that decorates every hallway of the Northern Irish studio; deprecating jokes about failing into bankruptcy if the project fails or jibes between colleagues that they'll be out of a job by the end of the month were a dime a dozen during my visit.

Over 10,000 videogame workers lost their jobs in 2023 and another 6,000-plus have met the same fate in 2024 already. That uncertainty, and "all eggs in one basket" predicament, as one staff member tells me. is a very real and very scary factor. As social media continues to be ablaze with layoffs on a near-daily basis, I found it uplifting in these dark times that the team addressed the realities of modern game development with a smile and the same humor that has helped their games find an audience.

For instance, the *Parcel Corps*

description offers up the chance to "escape the mundanity of daily life and slip into Spandex" as a bicycle messenger before going on to say how you can "forget the security, stable salary and basic workplace rights less cool jobs offer". This then carries over into the game with numerous unjust deductions—tax, admin, marketing, etc-taken off your final salary leaving a pittance.

If you then head to the developer's website, it reads "Purveyors of moderately amusing video games," a statement that again plays on its funny side. "We don't want to get ahead of ourselves," Barr says, addressing the tagline. "We started off doing commercial animation work and then moved into work-for-hire game development... There came a point in the company's history when we thought statistically we were more likely to fail, and go to the wall, or go bankrupt, or whatever. So we may as well just try to make something that we thought was fun and enjoyable.

HAPPY OUT

Billy Goat Entertainment on the Northern Irish games industry



MICHAEL MCDONALD VIRONMENT

"I'm really enjoying reaching out to my friend network, and trying to convince them that this is a really cool place to work, and Belfast is a really nice city. There's a lot of indie game development over here.



RACHEL GANDEY JOHNSON DESIGNER

"There's been some really good initiatives that have come about in recent years, from not just graduates but people that are just looking to take their first steps in games... it's definitely on the up.'



WILL BARR DIRECTOR

"We have The Pixel Mill. It's an incubator that is funded predominantly by an organization called Northern Ireland Screen, which is similar to Screen England, There's a lot of start-ups coming out of there, with some pretty cool ideas'

Parcel Corps

"THAT DECISION CAME ABOUT BECAUSE I'M ACTUALLY AN INCREDIBLE INCREDIBLE NARCISSIST"

That was kind of the root of it all.

"So we made what we thought was a moderately amusing pointand-click adventure game, purely because life is so miserable otherwise. We don't want to contribute to misery."

Most notably, Barr features in *Parcel Corps* as a heightened version of himself. "That decision came about because I'm actually an incredible narcissist, and whenever I'm not in here working on this game, I'm standing at home looking in the mirror," he

laughs. Dressed in Lycra from head to toe and stretching awkwardly between lines of dialogue, his overly enthusiastic bicycle messenger is one of the first NPCs you encounter in the demo. It's also a role he is reprising from the promotional trailers that comically see the man coercing strangers into signing up to the career, exploiting his staff and shaving his legs in the bathroom.

"We do break the fourth wall a little bit. We thought it would be funny if it was the developers were telling you how to play the game. It also means that we can shoehorn a joke in later... whenever you return to that part of the world, Billy Goat Entertainment has mysteriously disappeared. It's just gone out of business, which is something that we're obviously just sitting here expecting to happen at some point. It's a way of mentally preparing us for that inevitability."

While Barr isn't sure whether his in-game alter ego will make the final cut (I really hope it does) a whole host of zany characters are set to appear—28 in fact, all with voice acting. One of the most memorable is the Wine King, a vendor with a bottle of Merlot on his head who speaks like Charles Dance after one too many glasses. "Bully for you," he scoffs after his delivery is successfully made without damaging the fragile package.

Another bizarre character is Ehrmon Trout of Ehrmon Trout Fish 'n' Chips, a half-man, half-trout working out of a camper van that clearly riffs Mike Ehrmantraut of Breaking Bad fame. I came across further nods to Squid Game, The Texas Chainsaw Massacre, Arnold Schwarzenegger, Steve Irwin, Angela Lansbury and a mashup of Samus Aran and Darth Vader, so the pop culture references are in abundance.

In many ways, *Parcel Corps* is the serene meets the strange, with a layer of political criticism on everything from capitalism to pollution to social media. "It's meant to be a little bit satirical and it touches on many subjects like green energy, social media and more. There are massive multinational corporations that have an immense amount of influence on governments," says Barr.

"We're trying very hard to be funny. It's meant to be a bit of a send-up of the gig economy. At the end of the day, I'd like to think of game developers as essentially being struggling artists, and surviving from one gig to the next. So I kind of feel that we empathize with the plight of those in these service industries."

He adds: "All we can do is draw people's attention to it and try to laugh at it, because we're completely pants at doing anything else."

2016 PROTOTYPE

Parcel Corps is being built for PC, PlayStation 5 and Xbox Series X/S as a current-gen only release. This was decided upon due to the increased time that it takes to develop a game to today's standards. That said, the idea has been gestating since 2016. At one point a last-gen prototype was put together as well.

"We've had this in the back of our minds since then," Barr recollects. "And fortunately, the previous game [Supermarket



COVER FEATURE

Parcel Corps

Shriek] financially did OK, and then we were able to shovel all of that cash into developing a prototype for this one. Ultimately, we were able to hoodwink various parties [Secret Mode is handling the publishing] down the line into parting with a modest amount of cash of their own. And that set us on our way.'

It's a big step up in terms of scale, tripling the length of its previous release, Her Majesty's Spiffing, to a 12-hour or so campaign for Parcel Corps and further incentives that can push the duration past the 20-hour mark. It's also seen the team having to cut back on the open world being fully interconnected alongside a nighttime mode being scrapped. This has proved to be one of the biggest hurdles for the studio, according to lead environment artist Michael McDonald who joined the project in May 2023. "There's just so much to get through which is equally exciting and scary because there's just so much to deliver," he says.

Parcel Corps utilizes a bright and poppy cel-shaded art style that you'd be forgiven for thinking was the studio's first choice considering how gorgeous it looks. "A large part of the reason for going down that particular art direction is that photoreal stuff is very expensive and very timeconsuming," McDonald explains. "Whereas something more stylized —you can just get away with so much stuff. If that lip-sync doesn't quite match up, it doesn't matter because it's a cartoon. That's why we do it."

"I started on this project coming

Gandey-Johnson, who acts as the lead level designer, adds. "I think the initial ambition that we had for the game was much larger. We had some great ideas to have basically a seamless sort of world, and then realizing very quickly just how much work that would be, trying to piece everything together.

"From a design point of view, we try and make as much of the gameplay space as traversable as possible, and are trying to account for every single line that a player might make; every single wall ride; every jump that they might take, and places that they can just get into out-of-bounds territories, up on rooftops, and things like that."

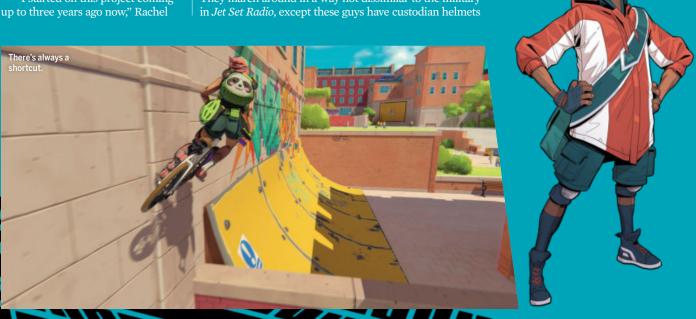
Another challenge is recruitment, having needed to build the workforce up to a point where it can handle a project of this scope. "It is hard to find a good staff," Barr admits. "And whenever we come across one, we do like to hold onto them, and basically rinse the talent out of them—just until they're bone dry, and nothing more than lifeless husks of what they were before...'

EXCLUSIVE HANDS-ON

All of these efforts have been put into the Old Town in recent days, the second level in *Parcel Corps* that was exclusively premiered to PC Gamer. While not quite fully complete, the Edinburgh-inspired zone is distinctively different from the Commercial District. With fewer vehicles, more pedestrians, a seafront and a cathedral to play around in, it's a much calmer setting.

That is until I burst through one of the cathedral's windows en route to smash a time trial set by a middleaged man in Lycra, affectionately named MAMIL. It's also here that I first encounter the overly British police, who are determined to chuck me in the back of a van and spit me out in a different part of the level whenever captured. They march around in a way not dissimilar to the military







WELCOME TO NEW ISLAND

A vibrant metropolis to explore



HIGH ROAD The optimum routes around New Island are found up above, with purposefully positioned scaffolding, ramps and rails, as opposed to jostling with the traffic found on the roads.

BUSINESS BOOMING

Ten businesses will appear across all eight levels that will span a campaign that will take approximately 12 hours, with 100% completion expected to stretch to around 20 hours.

ON AIR A live-action broadcast will bookend every level, with a newscaster explaining the state of play and the shady ongoings of Rich Villainé, similar to that of the news sequences in 1987's RoboCop.

and hi-vis jackets. You'd think that would make them easier to spot, but not quite.

A cause of this might be the camera. Playing this particular section on a Steam Deck at 30fps (the PC and console versions will run at 60fps), I found the sluggishness of the camera more noticeable. I felt it needed to be sharper and grant more freedom when looking ahead or at what's above, suffering from a limited range of movement. It wouldn't be until the last second that I'd spot an oncoming car charging around the bend, or a policeman in pursuit.

This didn't prevent my time spent in this ruby-painted town from being a treat, seeing the framework ahead of the finished product. For now, Parcel Corps has a wonderful sense of fun fused into its controls, level design and movement that remind me of early noughties gaming in the best possible way.

Set to launch sometime in 2024, in some ways I can see Parcel Corps being a perfect summer release. On the other hand, I'd be willing to wait until 2025 so that it gets the necessary polish to create a better experience and set itself up for the best chance of success. So what about the people at Billy Goat Entertainment? What would success look like for them 12 months down the line?

"I think ideally we'd get a couple of DLC levels out there," Gandey-Johnson answers, before suggesting, "Maybe we'll do a sequel, or some completely new game".

McDonald agrees, "I'd be really excited if we got a great reception and we are given the chance to make some DLC because I feel that we've put together this great team and I kind of want to keep going."

For Barr, the end goal is as simple as keeping the lights on, "Look, at the end of the day, this is essentially a hobby that some of us have managed to string out into a somewhat viable career path, and the dream is just to keep that going and keeping the wheels turning. That would be a success."



PC GAMER

THE BEST NON-TRADITIONAL WAR GAMES

Is it possible for wargamers to give peace a chance?

By Matt Killeen



Hit = 1. Miss = 0.
The language
of videogame
technology lends
itself to conflict.
It's been part of

hoot = 1. Wait = 0.

its DNA since Spacewar! took MIT

by storm in 1962, and we've been playing war on the tabletop, from Chess to Risk, for thousands of years. But...

War is a preoccupation of mine. As a writer of historical fiction, I'm immersed in battle. It's a dark fascination, especially for a pacifist of sorts, but wars show humanity at its very best and its very, very worst. They are the turning points of history itself. We are defined by them.

I'm also a gamer, and love sneaking and sniping, dropping bombs and torpedoing ships. However, that can often provoke moral questions that I struggle to answer. Besides, we're in a period of

high-profile conflict, again, and it's on our screens, 24/7. We may crave escapism at times like these, but should we make fictional war when there are so many for whom it's a daily reality?

So, I set out to find war games playable today on PC that don't ask you to do that, at all. This was not an easy ride by any means, and I found varying degrees of success for sure.

THE RULES

- 1. Not just pacifist runs, but games that are built around their nonviolence.
- 2. Healer characters in squad shooters don't count.
- 3. No anti-war videogames, like Spec-Ops: The Line, or The Great War: Western Front.

The Best Non-Traditional War Games

RELEASED Jan 2024 DEVELOPER Brave Lamb Studio SA

War Hospital

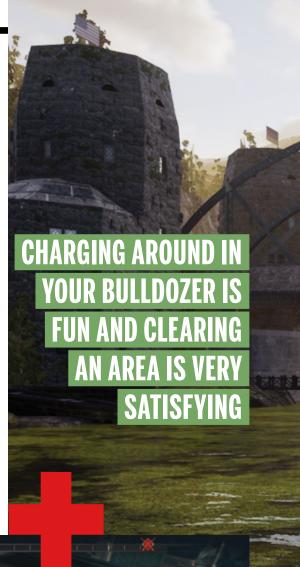
Playing medical administrator on the Western Front

he First World War is solid ground for a pacifist narrative. Never has the futility of the whole mess been writ as large as on the Western Front. War Hospital puts you in charge of a failing field hospital on the very edge of the trenches in 1918, balancing morale, resources and staffing to save as many lives as possible.

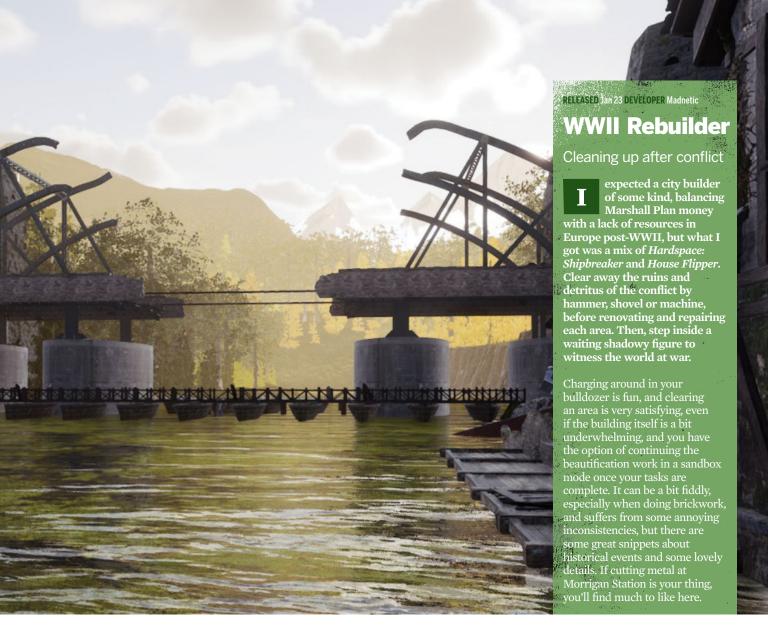
'It's called triage' is a stock trope for murderous villains in many media, but this simulation comes down to the infamous trolley problem. Do you kill one person if it means saving more? Here, the yawning horror of shuffling the critical cases into the "Denied" file and consigning them to death so that your tired surgeons can save others, is occasionally

punctuated with their curses and invective. It's especially hard watching them deteriorate, waiting for a surgery slot that just isn't coming. There's a narrative, but you soon find yourself opting out of the humanity of it all. You start out reading everyone's file, prioritizing family men or the particularly interesting cases, but in short order you're just looking at their wounds and making a cold calculation. You stop noticing the absence of regret in the aftermath. Your cold ruthlessness is an asset, and the next wave of injured is just around the corner. It's deeply chilling.

Then, as patients recover, you end up sending them back to the trenches a few miles away, otherwise you'll be overrun. It's another case of triage that feels like a betrayal.







RELEASED Nov 2020 DEVELOPER Gard

Field Hospital: Dr Taylor's Story

Alt-history WWII triage

reading some of the same ground, this game concentrates on the triage aspect of your alt-history WWII field hospital, while investigating... something. It's not immediately clear why you're looking back at Dr Taylor's past from the present day, but you flash back to his wartime exploits and you've a job to do. The severity of your patients' injuries isn't the clearest, and I think you're supposed to be making judgments based on their bio. As a fictional war, your decisions lack punch, and it suffers from tonal issues.





RELEASED Nov 2014 DEVELOPER 11 bit studios

This War of Mine—Final Cut

Dealing with the terror of war from a civilian point of view

his is the poster-child for this kind of game, a creation of such reputation that although I own copies on three different formats, I've never played it before. I've never felt up to it.

In a besieged city in a civil war, the population hides out from the snipers in the daylight hours. Come the night, they venture out for supplies or stay home on guard against raiders. It makes you question your ethics and your values. It makes you question everything. Having children in your care is excruciating. The hard choices you usually make in a household of adults multiply. You've been up all night. You have to upgrade your crafting table, eat and then sleep in the few hours allowed to you. There's no food, so you need to go out again tonight. But your daughter wants to talk. She needs to talk. She's lonely and sad and will only get more so. unless you play with her. Depressed children don't want to play, they only grow worse. So, vou don't sleep.

I go to an abandoned property to scavenge only to find it occupied by an old couple. This is their house. These are their things. They are too weak to stop me, but the game is clear-this would be theft. I can't

do it. I'm not willing to trade my humanity for resources. Then, I return home to find raiders have attacked my home, stolen my food and medical supplies, before wounding my daughter. I feel ashamed. I feel conned. Angry.

I want to stop playing this game constantly. If I carry on, my child will be killed by raiders, or get sick and I won't have medicine, or I'll be wounded and leave her all alone. The tension gives me a stomach-ache. Waiting 32 days for the end of a story just makes me think of the siege of Sarajevo, which lasted 1,425 days.

The fact that there are people who have gone through this and are going through this, for real, right now, is even more painful. Approved by the charity War Child, This War of Mine is a brilliant game, perfectly crafted. You don't rail at the mechanics, but at the evil that men do. It is an empathy machine, an almost perfect work of art. And if it upsets you... good. That's how things are.

The Best Non-Traditional War Games



RELEASED Sept 2021 DEVELOPER DON'T NOD

Gerda: A Flame in Winter

Walking a tightrope in Nazi Germany

arrative RPGs heavy in dialog choices can live or die by the authenticity and significance of the resulting consequences, but here the most routine decision will come back to bite vou. You play as Gerda, a German-Danish nurse in a small, German-occupied Danish town in the dying days of the war. You've a Nazi father and a husband neckdeep in the resistance and you're about to have quite the week.

You're no warrior. Like much of the population, you've just kept your head down, but as the war comes to an end, that isn't an option any more. Every decision you make, from the mundane to the pivotal, affects how others see you, and that can be a dangerous thing, surrounded by those either complicit in the occupation or emboldened by the decline of the Third Reich. It's highly instructive in just how difficult it must have been to tread the line between staying out of trouble and becoming a collaborator, or doing the right thing and getting vourself killed.

Even before my husband is arrested by the Gestapo, I treated a Nazi for burns and now my boss thinks I'm on their side. In doing so I enabled an unpredictable German officer to steal painkillers that we're bound to need down the line. And how far will I go to get Anders released? You can save, but you can't go back without restarting. You have to live with the choices, and enemies, vou've made. When you're done, you get to play the DLC as Liva, the Resistance leader, and presumably shoot whoever you want, but I'm assuming that too has a cost.



RELEASED Jan 2019 DEVELOPER PID Games

Bury Me, My Love

Escaping war-torn Syria

ar drives a great many people over borders to seek shelter, so it would be remiss not to include at least one refugee tale here. Less a game than a visual novel, Bury Me, My love is a series of text conversations between Nour and her partner Majd, as she undertakes the long journey from war-torn Syria to safety.

The dialog options have been accused of being too mundane, but the sheer ordinariness of the interaction as life and death choices are made is subtly powerful. Even then, I found that subsequent playthroughs making different choices gave me a much more intense experience, so your mileage may vary.

The PC version is less resonant than when played on mobile, whose real-time mode can leave you waiting tense hours for. news that Nour is still alive, but these are minor issues in a valuable and emotional piece of work.





RELEASED Jan 2020 DEVELOPER Paintbucket

Through The Darkest of Times

Running the Resistance

'm cheating slightly including this, as it begins in 1933 as Hitler takes power in Germany, but defying tyranny is a wargame staple. Here you play as a Berlin resident trying to run a Resistance cell as the Nazis tighten their grip and grow ever more vicious and terrifying. I muddled through, much as an amateur anarchist might, and you don't have much effect at first. It is insanely difficult to raise funds or support without drawing attention to yourself, and you end up spending all your time and resources busting your team out of jail.

The Best Non-Traditional War Games

irector Yoan Fanise made two games bookending the centenary of World War I. The first was Valiant Hearts for Ubisoft Montpellier in 2014. Reminiscent of a LucasArts point-and-click, the game is rendered in a cartoon style used by the satirical illustrations of the day, and this level of comic absurdity totally works

with the material.

A family is separated and find themselves on opposite sides of the Great War as they suffer its horrors-the trenches, imprisonment, suffering and loss. You do fight, which should exclude this game, but it mostly consists of trying not to die, avoiding shells and gunfire, or clearing obstructions. Its commitment to not killing the enemy just about absolves it. It's a playable history, with a wealth of extra material to look through, provided by the documentary Apocalypse World War I.



RELEASED Nov 2018 DEVELOPER DigixArt

11-11 Memories Retold

War in a dual narrative

anise then founded DigixArt and, in a collaboration with Aardman Animations. released 11-11 Memories Retold in 2018. A game with a dual narrative, it tells the stories of a Canadian war photographer and a grieving German father whose search for his son turns into a quest for revenge.

It's altogether less effective than Valiant Hearts, managing to feel worthy to the detriment of the narrative. Furthermore, for all the wonders that Aardman Animations has managed in the past, the art style here is a serious distraction. It's supposed to ape the impressionists but it detracts from both the story and the sense of wonder and dismay that we're supposed to be feeling.

Meanwhile, there's a lot of awkward walking about, basic puzzling and collecting that doesn't need to be there. Finally, the endings feel unfair and contradictory, but maybe that's the point. This is the story of a world gone mad.



RELEASED Sept 2017 DEVELOPER Bohemia

ARMA 3: **Laws of War**

Removing mines as an NGO

here are few games that fetishise warfare like ARMA, so it was somewhat of a surprise when the Laws of War DLC landed in 2017. A laudable effort to touch upon the conflict on the landscape and population, it features an NGO tasked with removing mines and unexploded ordnance after the wars on Altis, with a minicampaign, educational materials and simulations to play through in VR, plus a donation to the real International Committee of the Red mine clearance does lack a certain spark, and the campaign keeps flashing you back into combat roles, several of which demand you commit war crimes. While the writing is decent, the commentary on warfare is mudded by the fictional nature of the war's history. as is adding cluster munitions to the main game. If you don't play regularly, you'll need to weather the lengthy tutorial scenarios, and you'll have to kill a lot of people to get to the humanitarian bits.

The Best Non-Traditional War Games



RELEASED TBA 2024 DEVELOPER Hypnotic Ants

Medic: Pacific War

Step into the shoes of a medic on the front line

game with a launch date and boasting developers with credits on The Witcher 3 and Dying Light, Medic:

Pacific War is exactly what I was looking for-a full-on, third-person-

not-shooter that marries stealth, action and an active battlefield in a unique challenge. Hypnotic Ants Studio has run a modestly successful Kickstarter campaign, given us a trailer brimming with potential and even a closed playtest.

A THIRD-PERSON-NOT **SHOOTER THAT** MARRIES STEALTH, CTIVE BATTLEFIELD



RELEASED May 2018 DEVELOPER Stas Shostak

Save One More

Help wounded soldiers

ombat medics were often conscientious objectors who went into battle unarmed and in the most perilous circumstances, wherever the fighting was fiercest. Supposedly protected by the Geneva convention, they were frequently fired upon and always at risk. Save One More seeks to replicate this with a twitchy and highly stylized arcade game, where you join your squad through battle, zapping them back to life when they're hurt. You're invariably forced to lead the men, which defeats the point a little, and then within two minutes, you see a surrendering enemy shot by a firing squad, who call him a coward.





RELEASED TBA DEVELOPER Gav + Josh

Combat Medic

Save lives in isometric 2D

n the realm of vaporware, *Combat Medic* is a game that purports to do much the same as *Save One More*, in a retro style, but with a greater complexity of treatment options. It's the work of duo Gavin Halliday and Joshua Fall. There's no release date but we'll keep our fingers crossed.

CEASEFIRE AND AFTER-ACTION REPORT



I spent most of the time working on this piece concealing the many and various horrors from my

curious eight-year-old. Non-violent does not mean nice, at all.

In fact, it usually means considering war as it really is—"humanity hanging from a cross of iron". I told him that *This War of Mine* had made me sad, and he told me I should stop and play *Wobbledogs* instead. Yet, the sense of reward that comes with some of these games eclipses many high-octane shooters. Finding a can of food AND painkillers AND getting home in one piece has found a place among my favorite videogame

moments. The power of something that feels so consequential cannot be underestimated.

Can you make war that feels that purposeful? We do like creating enemies that you can gun down without troubling your conscience, as in *Wolfenstein*, but that comes with its own issues. Dehumanization is at the heart of most real war and atrocity. Many Holocaust scholars deplore the disconnection between the cartoon-like Nazis you shoot, and their real crimes.

This is a balance that videogames struggle with, but how do you even begin to make that game? Maybe I'm a dreamer. But I'm not the only one.





THE BEST GAME **DESIGN PROGRAMS**

RANKED BY THE PRINCETON REVIEW 2024

From top-notch teachers and distinguished alumni to stateof-the-art facilities, The Princeton Review is dedicated to matching you with the ideal school.

looking for a career change. Here you'll find a

employment rates and salaries, plus details

on notable graduates We also take a look at

some of the problems, dilemmas and issues

facing modern game designers, and how some of the biggest and most successful

rundown of graduate and postgraduate

programs, with information on staff and

facilities, as well as key statistics on

titles out there have tackled them.

Games Designer. Unquestionably a dream job. You get to flex your creative muscles, work at the cutting edge of technology and craft the kind of compelling experiences that thrill players on a daily basis. But it's also an incredibly broad field, taking in everything from coding to storytelling, systems design to audience management, and a huge number of other specialities. As an aspiring game designer you'll have an array of disciplines to choose from and master, as you begin your journey toward that first shipped title.

We don't have all the answers (that's what the colleges are for), but our goal is to help you make a successful first choice as you embark on your game design journey.

The Princeton Review is your guide to the huge range of game design courses on offer throughout North America and Europe's finest further education institutions, whether you're a recent high school graduate or

For more information on game design programs visit www.princetonreview. com/game-design.

THE TOP 50 GAME DESIGN UNDERGRADUATE PROGRAMS



Whether you're taking your first steps or refining your skills, there's a game design program for anyone. Check out the 50 best undergraduate and 25 best graduate programs out there.



2023 Grads Hired: 20 2023 Grads Mean Salary: \$76,400 Faculty: Eric Zimmerman (founder. GameLab), Dr. Clara Fernandez-Vara (Fiction Control, author of Game

Graduates: Carol Mertz (PixelPop Festival, Insatiable Cycle), Robert Meyer (God of War: Ragnarok) https://gamecenter.nvu.edu/

Analysis)



2023 Grads Hired: 85 2023 Grads Mean Salary: \$75,000 Faculty: TreaAndrea Russworm

(Author of Gaming Representation: Race, Gender, and Sexuality in Video Games), Marianne Krawcyzk (Writer, God of War I, II & III)

Graduates: Laird Malamed (COO of Oculus VR), Jenova Chen (Creator of

https://games.usc.edu/facilities



2023 Grads Hirect 65 2023 Grads Mean Salary: \$65,600 Faculty: Ezra Cove (3D art for Lord of the Rings Online), Terrasa Ulm (VR/ AR/XR, interactive fine art, virtual avatars, interactive theater) Graduates: Stanley Pierre-Louis (CEO/

President of the Entertainment Software Association), Gary Goldberg (President/ Founder FableVision Studios) https://www.clarku.edu/schools/beckerschool-of-design-and-technology/



UTAH (#2 WEST)

2023 Grads Hired: 62 2023 Grads Mean Salary: \$82,305 Faculty: Michael Young (PhD, Division of Games Chairman), Joe Barnes (Sr. Technical Director Disney and Epic Games)

Graduates: Doug Bowser (COO of Nintendo of America), Nolan Bushnell (Founder of Atari) https://games.utah.edu/

5. UNIVERSITY OF CENTRAL FLORIDA (#1 SOUTH)

2023 Grads Hirect 52 2023 Grads Mean Salary: \$57409

Faculty: Dr. Maria Harrington (Associate Professor, Aesthetic Computing)

Graduates: Richard Ugarte (Senior Producer, Epic Games), Ana Beltran (Disney Live Entertainment) https://communication.ucf.edu/ games-and-interactive-media/

6. ROCHESTER INSTITUTE OF TECHNOLOGY (#3 NORTHEAST)

2023 Grads Hirect 86 2023 Grads Mean Salary: \$73,500

Faculty: David I. Schwartz (Director and Lecturer, Game Design and Development)

Graduates: Elan Lee (Founder and creator of Exploding Kittens), Misko Hevery (Google) https://www.rit.edu/computing/

school-interactive-games-and-media

7. DIGIPEN INSTITUTE OF TECHNOLOGY (#3 WEST)

2023 Grads Hirect 54 2023 Grads Mean Salary: \$81.337

Faculty: Claude Comain (co-founded Nintendo Software Technology, 19 US patents in game

Graduates: Kim Swift (Xbox Game Studios), Matt Rosen (Audio Programmer, Baldur's Gate 3) https://www.digipen.edu/ academics/game-design-anddevelopment-degrees

8. DREXEL UNIVERSITY (#1 MID-ATLANTIC)

2023 Grads Hirect 67 2023 Grads Mean Salary: \$63,000

Faculty: Tony Rowe (Senior Game Designer, Indiana Jones, Star Wars, The Force Unleashed), Dan Rose (Shadow of the Colossus, Lord of the Rings Online), Dr. Youngmoo

Kim (PhD from MIT, Founder of Drexel's ExCITe Center) Graduates: Girish Balakrishnan (Director, Virtual Production at Netflix), Glen Winters (Rockstar Games, Red Dead Redemption 2) https://drexel.edu/westphal/ academics/undergraduate/GDAP/

9. MICHIGAN STATE UNIVERSITY (#1 MIDWEST)

2023 Grads Hired: 80 2023 Grads Mean Salary: \$58,000

Faculty: Ricardo Guimaraes (Blizzard Entertainment, Ubisof, Eidos, Critical Studios, Wizards of the Coast), Corv Heald (Underbite Games, Disney, Zynga)

Graduates: Scott Brodie (Heart Shaped Games, Microsoft Game Studios), Geoff Johns (Mad Ghost Productions, DC Entertainment) https://gamedev.msu.edu/

10. NORTHEASTERN UNIVERSITY (#4 NORTHEAST)

2023 Grads Hired: 84 2023 Grads Mean Salary: \$80,000

Faculty: Celia Pearce (IndieCade), Casper Harteveld (Serious games, StudyCrafter, DARPA Award Winner)

Graduates: Zhuo Chen (Ubisoft, AMD), Rachel Ellis (Blizzard Entertainment) https://games.northeastern.edu/

11. ABERTAY UNIVERSITY (#1 INTERNATIONAL)

2023 Grads Hired: 75 2023 Grads Mean Salary: \$45,000

Faculty: Professor Ruth Falconer (Professor of Complex Systems and Mathematics), Andrew MacDonald LEGO, King, Mindshapes)

Graduates: David Jones (DMA Design, Creator of Grand Theft Auto and Lemmings), David Hynd (Rockstar Games) https://www.abertay.ac.uk/ course-search/undergraduate/ game-design-and-production/

TOP 50 GAME DESIGN UNDERGRADUATE PROGRAMS (CONT)

12. CHAMPLAIN COLLEGE (#5 NORTHEAST)

2023 Grads Hired: 48
2023 Grads Mean Salary: \$64,114
Faculty: Edmar Mendizabal
(NVIDIA, Ubisoft Company), Nathan
Walpole (Halo 2, Halo 3, Halo 4,
Elder Scrolls)

Graduates: John Nagle (JPMorgan Chase & Co), Brenton Woodrow (Bungie)

https://gamestudio.champlain.edu/

13. VANCOUVER FILM SCHOOL (#2 INTERNATIONAL)

2023 Grads Hired: 15

2023 Grads Mean Salary: \$65,000 Faculty: Rasmus Dahl Tindborg (Klei Entertainment), Derek Tam (Microsoft and Electronic Arts)

Graduates: Armando Troisi (MY. GAMES, Ubisoft), Elliot Hudson (Game Director, Blackbird Interactive) https://vfs.edu/programs/ game-design

14. WORCESTER POLYTECHNIC INSTITUTE (#6 NORTHEAST)

2023 Grads Hired: 65

2023 Grads Mean Salary: \$82,000 Faculty: Ed Gutierrez (Disney/Pixar),

Gillian Smith (Indiecade award-winner, HEVGA fellow)

Graduates: Michael Gesner (Riot Games), Beth Beinke (Respawn Entertainment, Zynga) https://www.wpi.edu/academics/ departments/interactive-mediagame-development/prospective-

15. SAVANNAH COLLEGE OF ART AND DESIGN (#2 SOUTH)

2023 Grads Hired: 44

students

2023 Grads Mean Salary: \$62,500 Faculty: Cyril Guichard (Electrotank, Meta Quest Game Shock Troops), Aram Cookson (Epic Games)

Graduates: Harrison Pink (Diablo IV, Blizzard Entertainment), Zach Parrish (Netflix, Academy Award Winning, Walt Disney)

https://www.scad.edu/academics/ programs/interactive-design-andgame-development

16. LAGUNA COLLEGE OF ART AND DESIGN (#4 WEST)

2023 Grads Hired: 70 2023 Grads Mean Salary: \$66,000 Faculty: Javier Perez (Sony PlayStation), Donald Ott (Amazon Games, 3dmotive Founder)

Graduates: Gabriel Gonzalez
(Blizzard Entertainment), Alexander
Gonzalez (Ubisoft)
https://www.lcad.edu/courses/
game-art-program/

17. FALMOUTH UNIVERSITY (#3 INTERNATIONAL)

2023 Grads Hired: 57 **2023** Grads Mean Salary: \$42,627

Faculty: Professor Tanya Krzywinska (Game studies, digital economy), Terry Greer (Microprose, Blitz Games)

Graduates: Rex Crowie (Media Molecule, Foam Sword, Return to Monkey Island), Andrei Pantilie (Ubisoft) https://www.falmouth.ac.uk/

18. BRADLEY UNIVERSITY

(#2 MIDWEST)

games-academy

2023 Grads Hired: 54 **2023 Grads Mean Salary:** \$46,000

Faculty: Lynette Fernandes (DoubleDown Interactive), David Abzug (Deep Silver/Volition)

Graduates: Austin Holt (Amazon Games), Emily Berger (Blizzard Entertainment)

www.bradley.edu/im

19. THE UNIVERSITY OF TEXAS AT DALLAS (#1 SOUTHWEST)

2023 Grads Hired: 20

2023 Grads Mean Salary: \$98,950

Faculty: Bryon Caldwell
(Transformers: Rise of the Beasts,
Star Wars: Visions, Rocket League,
League of Legends), Nelson Lim
(Fortnite, Warcraft Pacific Rim,
Transformers: Age of Extinction)
Graduates: Veena Sommareddy
(Neuro Rehab VR), Steven Billingslea
(900lbs of Creative)
https://www.atec-animgames.com/

20. FULL SAIL UNIVERSITY (#3 SOLITH)

2023 Grads Hired: 25

2023 Grads Mean Salary: \$60,476

Faculty: Jason Hinders (Gorilla Systems Corporation), Rodney Moye (Activision)

Graduates: Alejandro Garcia-Tunon (Ghostpunch Games), Kerry Allen (id Software)

https://www.fullsail.edu/degrees/ game-development-bachelor

21. QUINNIPIAC UNIVERSITY (#7 NORTHEAST)

2023 Grads Hired: 18

2023 Grads Mean Salary: \$65,000 Faculty: Elena Bertozzi (Ardea Arts), Peter Zoppi (Treyarch, AAA game development)

Graduates: Zaria Brogdon (Rockstar Games), Diego Holguin (MIT Lincoln Laboratory)

https://games.qu.edu/student-work.asp

22. SHAWNEE STATE UNIVERSITY (#3 MIDWEST)

2023 Grads Hired: 6

2023 Grads Mean Salary: \$70,000

Faculty: Greg Lyons (3D Art, Technical Art, Motion Capture), Dr. James Hudson (Computer Graphics, Software Engineering)

Graduates: Dan Clark (Epic Garnes), Sam Bushman (Wizards of the Coast) https://www.shawnee.edu/ game-design-programs

23. LASALLE COLLEGE VANCOUVER (#4 INTERNATIONAL)

(#4INTERNATIONAL) 2023 Grads Hired: 41

2023 Grads Mean Salary: \$52,000

Faculty: Ivaldo de Sosa (Doctor of Philosophy – PhD Mathematics, Certificate in Machine Learning and Neural Networks), John Appleby (Master's in Game Design)

Graduates: Greg Findlay (Eidos-Montreal: Rise of the Tomb Raider, Thief), Dustin Stevenson (FIFA, LBC Studios)

https://www.lasallecollegevancouver. com/game-design

24. RENSSELAER POLYTECHNIC INSTITUTE (#8 NORTHEAST)

2023 Grads Hired: 37

2023 Grads Mean Salary: \$80,539

Faculty: Maurice Suckling (BAFTA-award winner), Victoria Ransom (Wildfire Interactive, Google) Graduates: Karthik Bala (Activision,

Velan Studios), Ben Esposito (Donut County, Glitch City) https://hass.rpi.edu/gsas/games-and-

https://hass.rpi.edu/gsas/games-andsimulation-arts-and-sciences

25. NEW ENGLAND INSTITUTE OF TECHNOLOGY (#9 NORTHEAST)

2023 Grads Hired: 64

2023 Grads Mean Salary: \$50,000

Faculty: Jim McClure (38 Studios, Idol Minds, Sony Online Games), Prof. Scott Lambert (Seeds for Change) Graduates: Daniel Laba (Diablo 2 Resurrected, Vicarious Visions), Morganne Crosby (AppNeta, FireForge, WB Turbine) https://www.neit.edu/academics/ video-game-development-design

26. UNIVERSITY OF SILICON VALLEY

2023 Grads Hired: 20

2023 Grads Mean Salary: Notreported Faculty: Evan Skolnick (Game Writer), Jason Loia (COO/Game Designer) Graduates: Raymond Crook (Double Fine Games) Poste Wrede

Fine Games), Rosie Wrede (Sledgehammer, Twin Sun Games) https://usv.edu/programs/ game-design-development/

27. HOWESTUNIVERSITY OF APPLIED SCIENCES

(#5 INTERNATIONAL)

2023 Grads Hired: 80 2023 Grads Mean Salary: Not reported

Faculty: Alexander Delagrange (Airbornstudio, Guerrilla Games), Tristan Clarysse (Larian Studios, Bioware, Argonaut)

Graduates: Alena Dubrovina (Larian Studios), Leslie Van den Broeck (Gravity Well) https://www.

digitalartsandentertainment.be/

28. MIAMI UNIVERSITY (#4 MIDWEST)

2023 Grads Hirect 27

2023 Grads Mean Salary: \$48,500 Faculty: Geoffrey Long, PhD (MIT, USC, Microsoft, Disney, Amazon, HBO), Ben Nicholson (Taylor Swift, Katy Perry, Adidas, League of Legends)

Graduates: Sue Hoang (GIANTY), Michael Frazzini (Amazon Games) https://www.miamioh.edu/cca/ academics/departments/etbd/index. html

29. UNIVERSITY OF WISCONSIN-STOUT (#5 MIDWEST)

2023 Grads Hirect 20

2023 Grads Mean Salary: \$46,000

Faculty: Dave Beck, MFA (Paverson Games), Dr. Seth Berrier (computer graphics, photogrammetry, web interfaces)

Graduates: Margaret Rigotti (Dreamworks Animation), Jose Estrada (Riot Games) https://www.uwstout.edu/ animation-and-game-designdevelopment-studio-lab

30. PURDUE UNIVERSITY (#6 MIDWEST)

2023 Grads Hired: 76 **2023** Grads Mean Salary: \$63,979

Faculty: Robert Howard (Game Design), Tim McGraw (Game Programming)

Graduates: Dioselin Gonzalez (VR/ AR/Metaverse, Microsoft), Tyler Kupferer (Disney) https://polytechnic.purdue.edu/ degrees/game-development-anddesign

31. ABILENE CHRISTIAN UNIVERSITY (#2 SOUTHWEST)

2023 Grads Hirect 5

2023 Grads Mean Salary: \$68,000 Faculty: Karen St. John, PhD (game engine scripting, 2D Game Dev), Arisoa Randrianasolo (Computer Science, Al, Game Programming) Graduates: Camila Rodrigues-Valesquez (Raven Software), Michelle Brothers (Sony Bend) https://acu.edu/academics/undergraduate/bachelor-of-science-in-digital-entertainment-technology/

32. MARIST COLLEGE (#10 NORTHEAST)

(#IUNUKTHEAST)

2023 Grads Hired: 60 2023 Grads Mean Salary: Not reported

Faculty: Dr. Karen Schrier (WHO, Nickelodeon), Dr. Ron Coleman (IBM)

Graduates: Darren Sugg (Fortnite), Grace Sin (Nickelodeon) https://www.marist.edu/ games-emerging-media

33. ACADEMY OF ART UNIVERSITY

2023 Grads Hired: Not reported 2023 Grads Mean Salary: Not reported

Faculty: Patrick Kenney (3D Modeling), David Goodwine (Producer)

Graduates: Audrey White (Game Taco), Tala Furniss (Playtika) https://www.academyart.edu/ art-degree/game-development/

34. DEPAUL UNIVERSITY (#7 MIDWEST)

2023 Grads Hired: Not reported 2023 Grads Mean Salary: Not

reported

Faculty: Allen Turner (Disney Interactive Studios/Wideload Games, Council of Fools), Anna Anthropy (Dys4ia, Queers in Love at the End..., author of Rise of the Videogame Zinesters)

Graduates: Monica Fan (Pipeworks Studios), Mark Nauta (Firaxis Games) https://www.cdm.depaul.edu/ landing/gaming/index.html

35. UNIVERSITY OF FLORIDA (#4 SOUTH)

2023 Grads Hired: 33
2023 Grads Mean Salary: \$65,000
Faculty: Dr. Amelia Winger-Bearskin
(Al and the Arts), Dr. Hyo Jeong Kang
(Digital Arts & Sciences, UI/UX)

Graduates: Riley Knutson (Insomniac Games), Kendall Robertson (Microsoft) https://digital-worlds-institute.itch.

36. DAKOTA STATE UNIVERSITY (#8 MIDWEST)

2023 Grads Hired: 36
2023 Grads Mean Salary: \$42,480
Faculty: Konrad Lightner (3D Art and Design), Erik Pederson (Business Development, Game Design, Product Management)

Graduates: Matt Engesser (Rockstar), Jimmy Chattin (Aristocrat Games)

https://dsu.edu/programs/ computer-game-design-bs.html

37. ARTCENTER COLLEGE OF DESIGN (#7 WEST)

2023 Grads Hired: 100 2023 Grads Mean Salary: Not reported

Faculty: Ross Berger (Writing), Tim FitzRandolph (Game Design)

Graduates: Zack Snyder (Blockbuster Filmmaker), Michael Bay (Blockbuster Movie Director and Producer)

http://www.artcenter.edu/ admissions/beyond-game-design. html

38. UNIVERSITY OF MICHIGAN-DEARBORN (#9 MIDWEST)

2023 Grads Hired: 30 2023 Grads Mean Salary: \$80,000 Faculty: Prof. Bruce Maxim (Sweetspot Games), Prof. Jennifer Proctor (Film Studies)

Graduates: Camile Lagman (Unity), Shane Costello (Counterplay Games) http://gamelab.cis.umd.umich.edu/

39. NEW YORK FILM ACADEMY (#R WEST)

2023 Grads Hired: 50 2023 Grads Mean Salary: Not reported

Faculty: Andrew Allen (Showrunner, AAA Game Writer, Feature Film Writer), John Zuur Platten (AAA game designer/writer, TV showrunner, screenwriter)

Graduates: Guillermo Quesada (Amazon Studios), Obinna Eze Ajoku (Microsoft)

https://www.nyfa.edu/game-designschool

40. RINGLING COLLEGE OF ART AND DESIGN (#5 SOUTH)

2023 Grads Hired: 57 2023 Grads Mean Salary: \$79,000 Faculty: Morgan Woolverton (Game Development), Cesar Rodriguez (Game Development)

Graduates: Bret Iwan (Lead Voice-Mickey Mouse), Jeff Fowler (Film Director, Film and Visual Effects) https://www.ringling.edu/game-art/

41. CLEVELAND INSTITUTE OF ART (#10 MIDWEST)

42. FERRIS STATE UNIVERSITY (#11 MIDWEST)

43. STETSON UNIVERSITY (#6 SOUTH)

44. KENT STATE UNIVERSITY (#12 MIDWEST)

45. CORNELL UNIVERSITY (#11NORTHEAST)

46. INDIANA UNIVERSITY BLOOMINGTON (#13 MIDWEST)

47. UNIVERSITY OF MIAMI (#7 SOUTH)

48. HIGH POINT UNIVERSITY (#8 SOUTH)

49. UNIVERSITY OF THE INCARNATE WORD (#3 SOUTHWEST)

50. ARIZONA STATE UNIVERSITY (#4 SOUTHWEST)



HOMEWORK: Theorycrafting & player choice

It's a well-known axiom among game designers that, given the opportunity, players will remove all the fun from your game.

That might sound counterintuitive, but the goal of every game is to successfully inspire desire, to create something the player wants, and then put obstacles in their path as they try to achieve it.

The problem is that people will, by nature, pick the most efficient method to reach their goals. In doing so, they may well end up ignoring all the fun you've so carefully crafted for them.

Take a recent patch in the world's biggest MMORPG, World of Warcraft.

Among the many systems for player progression was the process of gaining renown with a group called the Dream Wardens, earning a powerful magic item.

The intention was for players to reach level 20 by doing enjoyable quests over several weeks, but it was possible to reach the goal in just days by constantly grinding out repetitive tasks. Many players did exactly that.

When offered a choice between fun and efficiency, many players will often sacrifice the former for the latter. In fact, it's something every player does to some degree or another.

Think about how you can design your in-game systems to offer meaningful progression choices without forcing the most determined of players onto a hamster wheel.

THE TOP 25 BEST GAME DESIGN GRADUATE PROGRAMS





2023 Grads Hired: 85 2023 Grads Mean Salary: \$80,539 Faculty: Nick Zuccarello (Sony).

Graduates: Carlos Barbosa (WB Games), Brian DeSanti (Blizzard) https://fiea.ucf.edu/industry/ alumni-games/

Jonathan Annand (Disney)



2023 Grads Hirect 90
2023 Grads Mean Salary: \$85,000
Faculty: Mark Bolas (Fakespace Labs, Microsoft), Danny Bilson (The Rocketeer, The Flash, Da 5 Bloods, The Sims, Homefront)

Graduates: Laird Malamed (Oculus VR), Brandon Beck (Riot Games) https://catalogue.usc.edu/content.php



2 NEW YORK UNIVERSITY

2023 Grads Hired: 51 2023 Grads Mean Salary: \$73,003 Faculty: Dr. Mitu Khandaker (Glow Up Games), Shawn Pierre (Philly Game Mechanics, Independent Games Festival)

Graduates: Atlas Chen (thatgamecompany, Echostone), Noelle Mazurek (Diablo IV) https://gamecenter.nyu.edu/



4 UNIVERSITY OF UTAH (#2 WEST)

2023 Grads Hired: 88
2023 Grads Mean Salary: \$96,785
Faculty: Joe Barnes (Disney, Epic Garnes),
Michael Young, PhD (Alfor Garnes)
Graduates: Doug Bowser (Nintendo
America), Nolan Bushnell (Founder of
Atari)
https://games.utah.edu/current-

students/meae/

5. SOUTHERN METHODIST UNIVERSITY (#1 SOUTHWEST)

2023 Grads Hired: 68
2023 Grads Mean Salary: \$76,500
Faculty: Elizabeth Stringer, PhD
(Atari, Activision, Xatrix), Myque
Ouellette, MSCS (Origin Systems,
Retro Studios, Atari)
Graduates: Chris Schmidt (Infinity
Ward), Grace Liu (Netflix Games)
https://www.smu.edu/Guildhall/

6. ABERTAY UNIVERSITY (#1 INTERNATIONAL)

About

2023 Grads Hired: 75
2023 Grads Mean Salary: \$59,000
Faculty: Dr. Kenneth Fee (DMA
Design), Martyn Lynagh (Media
Molecule, Axis Animation, I-Play)
Graduates: Richard Jolly (Splash
Damage), David Hynd (Rockstar Games)
https://www.abertay.ac.uk/
news/2023/network-of-movie-magic-labs-to-keep-uk-on-cutting-edge-offuture-visual-effects-technologies/

7. CLARK UNIVERSITY (#2 NORTHEAST)

2023 Grads Hired: 72
2023 Grads Mean Salary: \$70,000
Faculty: Ezra Cove (Lord of the Rings), Amanda Theinert (Digital art, Design, Game Psychology)
Graduates: Gary Goldberg
(Fablevision), Matthew Sylvia
(Microsoft)
https://www.clarku.edu/academics/graduate/programs/masters/master-of-fine-arts-in-interactive-media/

8. ROCHESTER INSTITUTE OF TECHNOLOGY (#3 NORTHEAST)

2023 Grads Hired: 83
2023 Grads Mean Salary: \$103,300
Faculty: Shaun Foster (4D
Productions), Flip Philips (Professor of
Psychology, Skidmore College)
Graduates: Steven Van Slyke
(Co-inventor of the OLED), Anna
Sweet (Bad Robot Games)
https://www.rit.edu/computing/
school-interactive-games-and-media

9. NORTHEASTERN UNIVERSITY (#4 NORTHEAST)

2023 Grads Hired: 84
2023 Grads Mean Salary: \$80,000
Faculty: Celia Pearce (IndieCade),
Christopher Barney (GDC speaker,
Poptropica)

Graduates: Kyros Jalife (Warner Bros), Wendi Zhang (Activision Blizzard) https://camd.northeastern.edu/ program/game-science-and-design-ms/

10. DREXEL UNIVERSITY (#1MD-ATLANTIC)

2023 Grads Hired: 90
2023 Grads Mean Salary: \$74,000
Faculty: Dr. Paul Diefenbach (Founder of OpenWorlds Inc.), Dr. Youngmoo Kim (PhD from MIT, Drexel's ExclTe Center)
Graduates: Anna Nguyen (Schell Games, Injustice 2), Glen Winters (Rockstar Games)
http://drexel.edu/westphal/graduate/DIGM/

11. MICHIGAN STATEUNIVERSITY (#1MDWEST)

2023 Grads Hired: 63
2023 Grads Mean Salary: \$60,000
Faculty: Ryan Thompson (intersections between gameplay and audio), Wei
Peng (games, design, UX design, usability, and health applications)
Graduates: Brian Murray (Electronic Arts), Geoff Johns (Mad Ghost Productions, DC Entertainment)
https://gamedev.msu.edu/
graduate-serious-games-certificate/

12. DIGIPEN INSTITUTEOF TECHNOLOGY (#3 WEST) 2023 Grads Hirect 56

2023 Grads Mean Salary: \$105,000 Faculty: Mark Henne (Pixar, worked on 6 Academy Award-winning films), Brian Schmidt (Founding member GameSoundCon & Game Audio Network Guild) Graduates: Luis Villegas (Bungle,

Destiny), Taralyn von der Linden (Trixter, Walt Disney) https://www.digipen.edu/ academics/digital-art-and-animationdegrees/mfa-in-digital-arts

13. THE UNIVERSITY OF TEXAS AT DALLAS (#2 SOUTHWEST)

2023 Grads Hired: 20
2023 Grads Mean Salary: \$98,950
Faculty: Bryon Caldwell (Brazen, Riot
Games, Industrial Light Magic, Agora
Studio, Cloud 10 Studios), Troy Griffin (Walt
Disney Studios, Reel FX, Encanto, Raya &
Last Dragon, Frozen II, Moana, Frozen)
Graduates: Dr. David Hanson
(Hanson Robotics), Steven Billingslea
(900lbs of Creative)
https://bass.utdallas.edu/degrees/
graduate-degrees/gamedevelopment-graduate-programs/

14. FALMOUTH UNIVERSITY (#2 INTERNATIONAL)

2023 Grads Hired: 80
2023 Grads Mean Salary: \$47,204
Faculty: Professor Tanya Krzywinska
(Game studies, digital economy),
Terry Greer (Microprose, Blitz Games)
Graduates: Rebecca Haigh
(Playground Games), Sophie
Shepherd (Respawn Entertainment)
https://www.falmouth.ac.uk/study/
postgraduate/games-and-computingmasters-degrees

15. SAVANNAH COLLEGE OF ART AND DESIGN (#2 SOUTH)

2023 Grads Hired: 77
2023 Grads Mean Salary: \$61,333
Faculty: Nye Warburton (Al in games, Generative Media, Character Systems), Cyril Guichard (game design, gamification, VR game development)
Graduates: Lucas Slominski
(Zenimax), Whitney Taylor (YouTube)
https://www.scad.edu/academics/
programs/interactive-design-and-game-development/degrees/ma

16. WORCESTER POLYTECHNIC

INSTITUTE (#5 NORTHEAST)

2023 Grads Hired: 77
2023 Grads Mean Salary: \$82,000
Faculty: Ben Schneider (Narrative design), Ed Gutierrez (Disney/Pixar)
Graduates: Michael Gesner (Riot Games), Jon Radoff (Beamable, gamerDNA)
https://www.wpi.edu/academics/departments/interactive-mediagame-development/graduate

17. FULL SAIL UNIVERSITY (#3 SOUTH)

2023 Grads Hired: 29 **2023** Grads Mean Salary: \$60,475 Faculty: Dr. Shawn Stafford (Wargaming, UX Science), Dr. Robert Kennedy (Organizational Psychologist & Ergonomics Consultant) Graduates: Narie Kay (Zynga), Erin

Eberhart (Dreamhaven) https://www.fullsail.edu/degrees/ game-design-master

18. LAGUNA COLLEGE OF ART AND DESIGN (#4 WEST)

2023 Grads Hired: 100 2023 Grads Mean Salary: \$82,000 Faculty: Stefano Gualeni PhD (Game Design Philosophy), Chris Ulm (Velan Studios)

Graduates: Ben Thompson (Moonshot Games), Nicole Tan (Blizzard Entertainment, Crystal Dynamics) https://www.lcad.edu/courses/ game-design-mfa/

19. UNIVERSITY OF WISCONSIN-STOUT (#2 MIDWEST)

2023 Grads Hired: 20
2023 Grads Mean Salary: \$42,100
Faculty: Karl Koehle (Forensic &
Litigation Animator), Dave Beck
(Sculpture, Digital Arts & Sciences)
Graduates: Hue Vang (Dreamworks
Animation), Andrew Murphy (Apple)
https://www.uwstout.edu/programs/
mfa-design

20. RENSSELAER POLYTECHNIC INSTITUTE (#6 NORTHEAST)

2023 Grads Hired: 50
2023 Grads Mean Salary: \$80,539
Faculty: Maurice Suckling (BAFTA award-winning game writer), Rob Hamilton (Musical game innovator)
Graduates: Zach Barth (Opus Magnum, Eliza), Curtis R. Priem (Co-Founder, NVIDIA)
https://hass.rpi.edu/gsas/critical-game-design-co-terminal-program-0

21. BRADLEY UNIVERSITY (#3 MIDWEST)

22. AMERICAN UNIVERSITY (#2 MID-ATLANTIC)

23. DEPAULUNIVERSITY (#4 MDWEST)

24. UNIVERSITY OF FLORIDA (#4 SOUTH)

25. UNIVERSITY OF MIAMI (#5 SOUTH)



HOMEWORK:

Live service gaming & the infinite narrative

With more and more games adopting the risky but potentially lucrative live service model, modern titles require an almost endless flow of content – new opponents, new zones to explore and new powers to acquire.

This can be challenging from both a systems and storytelling perspective, as designers need to deliver new ways to play, as well as increasingly powerful antagonists for the players to confront.

Let's examine how some of the industry's longestrunning franchises deal with this issue.

The Total War franchise, with its unique mix of turn-based campaign play and RTS battlefield simulations, dates back to the year 2000, with several successful historical titles. In 2016, Creative Assembly acquired the rights to Games Workshop's Warhammer brand.

A superb example of the use of existing IP, the massive success of the game coincided with the growing popularity of live service models. The Total War: Warhammer team delivered a steady stream of DLC packs and sequels, with new units, factions and systems for growing and managing your empire.

Both chart-topping and critically acclaimed, TW:WH is still delivering a constant stream of new experiences for players.

As an MMORPG, World of Warcraft has also evolved various new systems for the acquisition of player power over its 20-year lifespan.

More importantly from an MMO perspective, working with Blizzard's own IP, developers were able to take the storyline in any direction they wished. They chose to constantly raise the narrative stakes.

Player characters that had begun their careers rescuing cats from trees and fighting bandits quickly graduated to battling dragons, then demons, then the demons that oversaw the demons they fought the last time.

WoW players saved the cat, then the village, then the city, then the world, then the galaxy, then the universe and then... what?

The critically and commercially mauled 'Shadowlands' expansion tried to solve this problem by pitting the players against the very concept of death itself, but this wasn't enough to stave off antagonist fatigue and active player numbers dropped substantially.

Whether your choice is more systems, more story, or something else entirely, live service is a challenge for every member of a design team.

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COLLEGE OF CREATIVE ARTS

SHOT DEAD

There are flashes of greatness in **SUICIDE SQUAD: KILL THE JUSTICE LEAGUE**

By Morgan Park

he Justice League was long dead when Rocksteady's quirky looter shooter finally clicked. I was 20 hours in, having just reached max level as Deadshot, discovering that Suicide Squad: Kill the Justice League's endgame hunt for Brainiac is no joke-I was ducking and rolling past walls of lasers and getting the most out of a legendary rifle that penetrates pesky armor. It was a blast because I was finally hitting difficult missions.

It took a long time (far too long) for Suicide Sauad to show its hand, but once it did, I briefly became the Destiny player that I usually can't relate to—eagerly replaying content I've done before, enamored by the possibility of ultra-rare rewards.

The problem is that, at launch, Suicide Squad's endgame is a brief but delicious dessert, and to even get there you have to play a story mode that's not good.

Going into Suicide Sauad as a fan of Rocksteady's Batman

trilogy comes with unavoidable whiplash. You'll recognize the studio's unmatched eye for animation in the expressive movements of Task Force X and the silky transitions in and out of cutscenes, but this is Rocksteady's take on a completely

different genre. The carefully curated utility belt of gadgets, puzzlebox dungeons and claustrophobic arenas of the Arkham era have made way for a wide-open, acrobatic shooter that takes place almost entirely outside and mostly in midair.

All four members of Task Force X have distinct

traversal styles

YOU'LL BELIEVE A **SHARK CAN FLY** Movement is the one

aspect of Suicide Squad that is unreservedly fantastic from minute one. There are no shortage of open-world action games right now,

but few make you feel like an immutable ball of destruction the way this one does. All four members of Task Force X have distinct traversal styles that could satisfy their own games: King Shark is a muscled demigod who can leap entire city

NEED TO KNOW

WHAT IS IT? A looter shooter from the creators of the Batman Arkham trilogy

> **EXPECT TO PAY** \$70

> > DEVELOPER Rocksteady

PUBLISHER Warner Bros Games

REVIEWED ON Intel Core i9-9900KS, 32GB RAM, Nvidia GeForce RTX 2080 Super

> MULTIPLAYER Yes

LINK

suicidesquadgame.com

blocks, Captain Boomerang blinks toward his boomerang and speedruns up buildings, Harley Quinn creates grapple points, and Deadshot can fly anywhere in short bursts.

You can pick any of the four and quickly grasp the basics, but my favourite thing about Suicide Squad's movement is that it's challenging. Getting a feel for every character's traversal tech is step one, and steps two through five are learning how to conserve air dashes, consistently time slides, bounce off walls to reset cooldowns, and employ these techniques in actual fights.

Good movement skills are baked right into the combat loop—a good half of the enemy pool have a layer of armor that can only be broken by melee or grenades, and most alien grunts hunker behind barriers you can't shoot through. Both encouraged me to stop standing on rooftops picking guys off like I'm playing Gears of War and start raining down hell from above.

I respect how Suicide Squad prioritizes good game feel over realism. Every character has a floaty double jump and air dashes that have zero regard for physics, and





ABOVE: It's a shame this Shark skin is overpriced at \$24, because I do want it.







TOP RIGHT: Rocksteady still has a knack for making modest open worlds look huge.

it's great. It's the sort of frictionless, satisfying movement that makes fast travel a non-necessity, and has unfortunately become a rarity in big-budget action games.

OVERLOAD

It's no surprise Rocksteady nailed movement, but I didn't expect to enjoy shooting in Suicide Squad as much as I (eventually) did. There are only five categories of guns (assault rifles, shotguns, SMGs, miniguns, snipers), which is modest for a looter-shooter, but has the benefit of giving each category a distinct role. Miniguns are the best at crowd clearing, for instance, but high recoil and low damage-overdistance make them a terrible matchup against helicopters.

Those roles synergize nicely with the squad, who themselves have specialties that developed as I filled out their skill trees. The majority of the trees are damage buffs and cooldown reductions, but as a nod to the Arkham days, those bonuses are tied to thresholds on a combo counter that resets if you don't stay in the action or get shot too much.

It's a neat idea, but between keeping track of the buffs and how they commingle with my gear, I often had trouble remembering which bonuses kicked in at a 30x combo versus a 50x. Thankfully, it takes a lot of punishment to totally break a combo, and all you really need to





ROLE CALL

Where did this Suicide Squad come from?



DEADSHOT Real name: Floyd Lawton First appearance:

Batman #59 (1950) Deadshot wasn't always an assassin for hire. In his first brush with Batman. Deadshot pretended to be Gotham's newest superhero, upstaging Batman and Robin while

secretly plotting

to become a

crime boss.



HARLEY QUINN

Real name: Harleen Quinzel First appearance: Batman: The Animated Series (1992)

Harley is among the most recognizable DC characters today, but I was surprised to learn she's a relatively recent arrival, debuting in the Batman animated series as Joker's lackey.



CAPTAIN BOOMERANG

Real name: George 'Digger' Harkness

First appearance: The Flash #117 (1960)

Captain Boomerang has a grudge against The Flash in Kill the Justice League. He's the son of a toymaker with a gift for crafting boomerangs that can do just about anything he needs at the time.



KING SHARK

Real name: Nanaue First appearance: Superboy #0 (1994)

Technically the newest character on the Suicide Squad roster, King began as a villain of the week. He later popped up in a run of Aquaman and Supergirl comics, but his recent depictions in the second movie and game have given him a new spotlight.









know is 'more is better'. My confusion around abilities were part of a larger learning curve problem with Suicide Squad. The game throws a lot of details at you early on. In the midst of familiarizing yourself with the strange controls, lock-on aiming and the cacophony of health bars, weapon FX and damage numbers, it's easy to miss important aspects of the combat loop.

A lot of my complaints about the early hours of Suicide Squad remind me of my early hours with other loot-focused games: weapons are too Common to be interesting, basic enemies die too fast to notice incremental upgrades, and fights get so busy that I can barely tell what's happening. Slowly but surely, though, I learned the difference between a Suicide Strike and Traversal Attack. learned the ways of air battle, and everything started to make more sense-that is, until Suicide Squad's bad story missions got in the way.

TOP LFET: In the midst of combat, Suicide Squad's UI can get pretty messy.

FAR LEFT: The game doesn't give the squad much time to bond. but the few moments of brevity are fun.



THE ROCKSTEADY GAP

Rocksteady sure took its time with Suicide Squad



ARKHAM ASYLUM

In a time when superhero games weren't expected to be good, Rocksteady knocked our collective socks off with an inventive stealth action game that leveraged everything cool about Batman.



ARKHAM CITY

Rocksteady's follow up came only two years later. Arkham City upped the ante with a small sandbox hub that connected its levels and even let you play as other characters such as Catwoman and Harley Quinn.



BATMAN: Arkham knight

Rocksteady took double the time to bring Batman to a next generation of hardware, a jump that came with a much larger depiction of Gotham City, a huge graphics upgrade, and the Batmobile.



SUICIDE SQUAD: KILL THE JUSTICE LEAGUE

Rocksteady is back. You have to imagine the journey that resulted with Suicide Squad: Kill the Justice League included stops and starts. Hopefully its next thing won't be the same story.

FIT FOR CRIMINALS

Suicide Squad's combat is a lot of fun in a vacuum, but Rocksteady clearly struggled to contextualize it around a linear story mode. Early on I was immediately invested in the unbelievable odds facing Task Force X: four nobodies dropped into a Metropolis that has already lost the fight against Brainiac, forced to contend with the world's greatest heroes. While a few standout



moments made it fun to watch that story, I never get to play that story.

Every significant narrative beat plays out in a cutscene or off-screen while you, the Suicide Squad, are stuck defending sites A and B, saving civilians, or following a truck. That's not an exaggeration either—nearly every mainline story mission is the same exact handful of missions, with only the location changing. In effect, they come across more like randomly-generated busywork plucked from a weekly to-do list than genuinely authored content.

The lopsided boss fights promised in the game's title are slightly different, but not good. With the exception of one, all of the Justice League I appreciate fights share the same gimmick of having to avoid their attacks and endgame grind 'counter shoot' them to isn't that much make them vulnerable.

The characters of a grind at all talking in your ears often get to do more interesting stuff than you. In one mission, I had to protect vehicle guru Gizmo's makeshift Batmobile while he scanned potential Batcave locations. As I was defending a car from waves of enemies for the billionth time, I imagined a version of this story where we actually go spelunking in the depths of Metropolis and discover a hidden Batcave entrance. It's as if Rocksteady felt trapped by a movement system that only works in an urban jungle, or perhaps didn't have the resources to make bespoke locations for a story

mode that's, ultimately, more a prelude to the 'real' game.

ENDGAME

that the

That real game being the endgame: a multi-season war against Brainiac set to play out over (at least) the next year. The endgame starts by introducing a new, much harder tier of Incursion missions that take place on an elseworld version of Metropolis. As you'd expect, Incursions follow the same mold as the rest of the game, but they turn up the heat with Halo skull-like modifiers and increasingly difficult mastery tiers. Incursions are where Suicide Squad finally got my heart

pumping, forcing me to prioritize the most dangerous baddies on the map and get serious about my shield regeneration.

My reward endgame missions was Notorious gear (Suicide Squad's version of

Exotics) that genuinely shook things up. My King Shark is wearing a Gizmo set that transforms his ground pound into an AOE that freezes everything around him. I appreciate that the endgame grind isn't that much of a grind at all. Incursions only take a few minutes each and the more you crank up the difficulty the more loot you get.

My main gripe is that there are only three incursions and an endless challenge mode I only recently unlocked. That's not a ton of stuff to do over and over, though I don't

think Rocksteady has designed Suicide Squad as a game you're meant to play every day.

BEYOND

The shame is that many players probably never see that stuff having been worn down by a very disappointing campaign, and I don't blame them. I eventually had a really good time with Suicide Squad, but it wasn't a nourishing journey.

Even once the loot and missions improved, annoying bugs kept cropping up, like how tutorials reset every time I started a co-op mission, or how civilians sometimes wouldn't spawn to be rescued, so I had to purposefully die or reset the game. One time a sniper spawned so far away that I couldn't possibly reach him, but he could shoot me just fine. I was at least happy with performance though—on my aging RTX 2080 Super with DLSS on Ouality, I hovered around 90-110fps in regular combat with some slowdown when lots of enemies were on screen.

It's a monotonous climb to find momentary flashes of greatness, and that's not an experience I'd drop cash on. But who knows: maybe this time next year Suicide Squad will be bigger, refined, and an easier sell for four friends on a bored Friday night.

PC GAMER

VERDICT

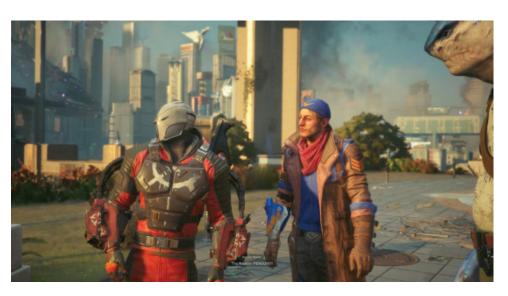
I'm optimistic about what Sucide Squad: Kill the Justice League can become, but let down by what it is now.







TOP: A late-game gun upgrade system lets you fine-tune your favorite guns into unstoppable death machines.



HOLY HELL

THE INQUISITOR is a grim yet strangely gripping dark fantasy adventure

By Robert Jones

here's no doubting the pitch for *The Inquisitor* catches the attention. You play Mordimer Madderdin, a holy inquisitor of the church whose job it is to hunt out heretics and enforce the faith—even if that means a spot of torture. That faith, by the way, comes courtesy of none other than Jesus himself, who in the world of *The Inquisitor* did not die on the cross but instead broke free from it and then went on a bloody rampage across the world.

The Murk

is constantly

tryingto

devour

vour soul

The Inquisitor opens with Mordimer being dispatched by the church to investigate rumors of a vampire operating in the 16th-century town of Koenigstein, where he soon

discovers a series of bloody ritualistic murders, as well as strands of a far deeper and more sinister plot. You step off the boat at Koenigstein's dock, and from that point on it's your job to investigate what is happening and

who is responsible, with the game's narrative unfolding at a leisurely pace.

The Inquisitor really is a relatively slow-paced detective narrative adventure first and foremost. You will engage in plenty of talking in this game. From chatting to notable figures in Koenigstein, such as the mayor and notable merchants, through to interrogating suspects, learning about in-game lore from religious officials, and onto investigating potential leads with the town's nobility, Mordimer is a detective first and fighter second. There's fighting for sure, but it is a small part of a game that's almost closer to a Broken Sword: investigative dialog interspersed with puzzles, rather than an action-adventure of clashing swords and leveling up.

PRIMARY SUSPECT

If they hadn't been told anything about the game beforehand, I can imagine some being a bit thrown by *The Inquisitor*'s true nature, as on first glance it looks like it should play like CD Project Red's *The Witcher* series. While those games are inescapably an aesthetic influence on *The*

Inquisitor's developer The Dust, the moment-to-moment experience couldn't be more different.

For example, Mordimer sports a suitably gravelly, almost monotone

voice. He also has the ability to follow scents in the air while hunting out his targets, which are displayed as glowing red smoke trails. Mordimer also recharges his holy spirit energy, used to perform such scent-

following sleuthing acts, by kneeling and praying at shrines. The inquisitor can also investigate objects, such as a victim's corpse, to discover clues that help him discern the wider truth.

But soon after starting, following an immersive introduction to the

NEED TO KNOW

WHAT IS IT?
A dark fantasy adventure in which players try to solve crimes and unearth heretics as a holy inquisitor of the church.

EXPECT TO PAY \$40

> **DEVELOPER** The Dust SA

PUBLISHER Kalypso Media

REVIEWED ON AMD Ryzen 7 5700X, 32GB RAM, Nvidia GeForce RTX 3090 Ti

> MULTIPLAYER No

LINK shorturl.at/bvwCM game's main systems via an in-gamenarrative tutorial section, The Inquisitor reveals its full hand and character. You're introduced to the basic combat mechanics (light attack, heavy attack, counter) and before long are moving between town areas (Koenistein is not one seamless city, but a series of districts separated by loading zones), investigating this report of a vampire, eavesdropping on locals for info (while sitting on handily placed benches), questioning targets, detecting clues, solving puzzles, occasionally clashing swords with foes, and pulling on the threads of a wider conspiracy.

Oh, and you're also traveling to a dark shadow spirit realm called the Unworld where a Cthulu-like abomination called The Murk is constantly trying to devour your soul.

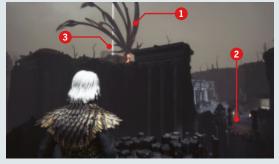
WELCOME TO UNWORLD

While on the surface world you're playing detective, periodically you need to use Mordimer's unique power (don't ask) to visit the Unworld, a dark and sinister shadow realm that exists on a parallel plane to the real world. In doing this, Mordimer can use what he has learned while detecting on the surface world to locate and then gather fragments of the actual truth from the Unworld, which manifest themselves as glowing orbs within this shadow realm. Each time Mordimer visits the Unworld his job is to gather these orbs which, once fully assembled, unlock a vision of what has happened. This in turn reveals the truth to Mordimer and progresses the plot.

Collecting the orbs isn't just a walk in the park, though. In the Unworld the aforementioned Murk constantly hovers over the land, cruising the skies looking for Mordimer, while wraith-like shadow warriors also roam around the land. Later in the game, there are further dangers, too. Fighting the wraiths allows Mordimer to whip out his

WELCOME TO THE UNWORLD

Navigating this hellscape can be tricky



THE MURK
This beast will kill you quick if it sees you, so staying hidden to its gaze is key to escape.

2 SHADE ENEMIES Roaming around the Unworld are numerous tough shadow enemies 3 KNOWLEDGE FRAGMENTS Mordimer's mission is to collect fragments which reveal truth to him.





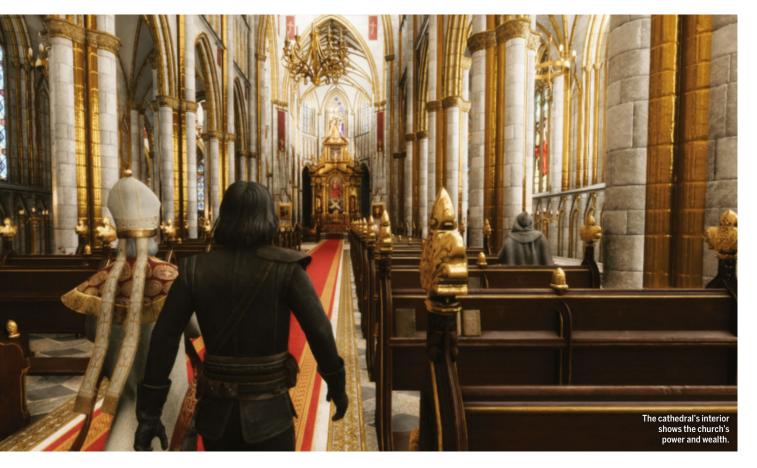








LEFT: By sitting on benches you can eavesdrop on people for clues.





ABOVE: Beating up bad guys is part of the an inquisitor's job.

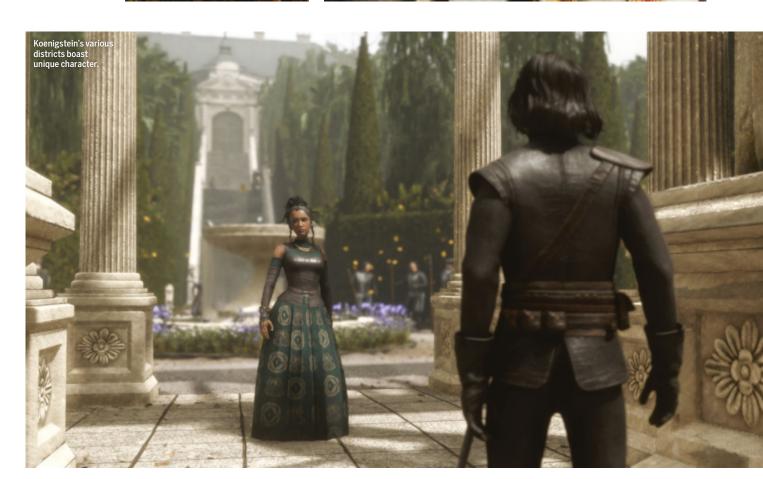
RIGHT: Speaking with Koenigstein's inhabitants, such as Liliana, is invaluable.











sword for some dueling action, but The Murk can only be escaped from, with players needing to guide Mordimer to a safe haven of glowing light. Get gazed-upon one too many times by The Murk, and it's game over. The key to Unworld success, then, is stealth.

Luckily, Mordimer has a few tricks up his sleeve for dodging Unworld foes and gathering those orb fragments without being seen. In the Unworld Mordimer can absorb light energy from wells and use it to temporarily ghost through shadow areas

that, otherwise, would alert The Murk to the inquisitor's presence. Equally, Mordimer can slow how quickly he is detected by wraith warriors by praying as he passes them and, eventually, even teleport over large distances. Using techniques like these allow the player to gather the orbs and then return them to the Unworld's central island to progress and, once the truth is known, Mordimer returns to the land of the living.

DELIVERING JUSTICE

Upon learning the truth of what has happened Mordimer will, eventually, have to confront what is essentially a boss character in the world of *The Inquisitor*. Boss confrontations often take place in multiple stages, with each stage leading to a more difficult version of the challenge. So, for example, an early boss sees you playing a deadly game of hide-andseek, where Mordimer is hunting for the boss but, also, the boss can hunt Mordimer, too. If Mordimer remains in dark areas too long then he's in trouble. Each time Mordimer finds the character, though, the next part of the hide-and-seek game gets a bit harder. Equally, combat encounters with boss characters work the same way, progressing in challenge. One encounter sees you fight a series of brothers, with each being tougher than the last. You get the idea.

Another mechanic The Dust employs a fair bit is the QTE, both in and out of boss encounters. For example, almost as soon as you've entered Koenigstein you find yourself chasing a pickpocket through the town's streets, needing to successfully press buttons at key times to stay on the thief's tail. While in the aforementioned boss fight there is a quite dramatic chase away from him where timed QTEs are required. Later in the game, there are unfortunately a few insta-death QTE moments, too, such as when having to fight a knife-throwing foe. I've never been a fan of QTEs, and their

You are playing

a singular

experience

rather than

vour own

inclusion here feels a bit dated, but overall they're not too punishing and didn't detract from the experience too much.

Most of this action, just like much of the game's narrative, is on rails. You are playing

through a singular experience rather than fashioning your own as you go. It's an interactive, plotted adventure and, overall, I feel The Dust has done a really good job in crafting it, even if most of it does not offer multiple completion paths (for the record. though, the game does have multiple endings depending on player choices). Narrative and visual atmosphere is one of this game's best qualities, and playing out Mordimer's role in the story is satisfying—and crucially gets more so the more you play. Needless to say, there's far more going on in Koenigstein than initially meets the eye, and uncovering the depths of the plot is interesting, as too is just existing in The Inquisitor's world,

which frequently is pretty, evocative and grounded, even though the visuals can be rough around the edges.

The Inquisitor is built in Unity, and you've got to tip your hat to indie studio The Dust for making such a great-looking game in places, but the visuals can be all over the place. It's stunning at times and then really not good the next. It's an odd mix: one moment you're in a detailed, muddy back alley in Koneigstein, with hazy dappled light beautifully illuminating the ramshackle decay of the place, really placing you there and adding to the atmosphere wonderfully. Then the next thing you know, you're talking to an NPC whose neck or body model just looks out of proportion and wrong. Animations vary in quality dramatically too, as do the NPC voices-sometimes I was really impressed with the delivery but at other times it distracted from the fiction, and I was pulled out by a specific character's jarring voice.

Despite the audio-visual discrepancies, The Inquisitor ran flawlessly on my machine, with zero crashes or major graphical bugs. The really rather basic minimum system specs required (GeForce GTX 1060 6GB / AMD RX 590) also mean I'm sure basically every other PC gamer is going to have no worries running this game at a playable framerate. I was also impressed with the fact that The Inquisitor supports up to 120hz displays and framerates, as well as offering ultrawide monitor support, too. From a technical standpoint, The *Inquisitor* delivers.

TOOLS OF THE INQUISITORIAL TRADE Inquisitor de

The gear Mordimer relies on

1 SWORD
From street thugs and hired goons to demonic shadow warriors, Mordimer must clash blades with numerous foes.

2 POWDER
Shersken powder
has multiple uses, the
foremost of which is
healing Mordimer if
he takes damage. It
can briefly blind
enemies, too.

3 CROSS
This proves
Mordimer's authority
as a holy inquisitor of
the church, helping
to loosen lips and
gain access to
secure areas.



KEEP THE FAITH

The Inquisitor does deliver on the concept, which is to carry the player along on a dark fantasy narrative in a unique, twisted world. But that core experience is interspersed with so many 'lite' variants of certain gameplay mechanics we've all played better versions of that they come to dilute and almost detract from it. It would be wrong to crucify the game for that, of course, because if you buy in to the *The Inquisitor*'s vibes and weird world, this is a grim and gripping experience.

PC GAMER

VERDICT

The Inquisitor is a grim yet strangely gripping dark fantasy story, memorable if a little rough around the edges.



Tekken 8

ROUND 8 FIGHT!

TEKKEN 8 is a blend of nostalgia for fans and a pair of welcoming arms for newbies

By Mollie Taylor

ekken 8 feels like returning home. A bit of a cringe opener, I know, but across my 40 hours spent with this game for this review I couldn't help but feel like I was being reunited with an old friend; a series I adore so dearly. *Tekken* is freakin' back, baby, and I couldn't be happier.

Truly the next

generation of

fighters, a bombastic

showdown

It's a game so rife with nostalgiainducing moments yet manages to bundle them together into this incredibly approachable, newbiefriendly package. It's a far cry from the bare-bones experience that was its predecessor—*Tekken 8* is truly the next generation of fighters, a bombastic showdown that you should absolutely

witness now matter how long it's been since you last peeped into a King of Iron Fist Tournament.

Tekken 8's nostalgic vibes feel deliberate. It's going all-in on its story—called The Dark

Awakens—building up to a dramatic conclusion to the war between Jin Kazama and Kazuya Mishima.

It's such a fitting culmination, one that genuinely shocked me at how good it actually is. The story mode is fantastically paced, seamlessly transitioning from cinematics to fights across its numerous chapters. The cutscenes are beautifully animated, going for some huge-ass anime-scale fights, which were rad to watch. Some chapters even diverge from the standard 'cinematic into fight' formula—like one that turns things into an old-school Tekken

Force-style brawler —which made sure things never got too monotonous.

Dialogue and translations can be a bit shaky and stiff at times, but it's one of the more cohesive stories *Tekken* has spat out.

Tekken 8's story is filled with little callbacks to previous games and references that long-time fans will absolutely eat up.

Something that definitely made Tekken 8's story mode even more enjoyable for me was its new Special

NEED TO KNOW

WHAT IS IT?
A thrilling 3D fighter with bears, devils and giant robots

EXPECT TO PAY \$70

DEVELOPERBandai Namco Studios
Inc

PUBLISHER Bandai Namco Entertainment

REVIEWED ON AMD Ryzen 7 2700X, 32GB RAM, Nvidia GeForce RTX 3070

> MULTIPLAYER Yes

LINK shorturl.at/cjuG8 Style control scheme. Think of it like a condensed, more casual and actiony way to play. Combos are pulled off at the press of a single button, with directional buttons affecting which moves get thrown out.

I'm not super well-versed in every character on the roster, and Special Style made chapters where I was playing unfamiliar fighters so much more fun to play. I didn't feel like a flopping fish trying to frantically figure out strings and combos, and while I think Special Style is a lot more limited compared to similar offerings, it's an amazing starting point for beginners or casuals who want to join the fun.

It was a great way for me to get to grips with the new push to aggression with its Heat system, too. I'm fully converted to this new mechanic, which gives players a meter to manage every round. Activating it changes the properties of certain moves and allows for a huge, hard-hitting Heat Smash to be thrown out. I think some veteran players will turn their nose up at Heat at first, but combined with the new addition of chip damage and recoverable health, it's changed the



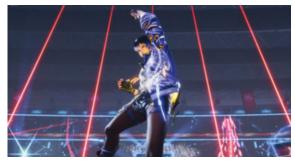


ABOVE: Who doesn't want to fight near Llamas?



Tekken 8







FAR RIGHT: Jun Kazama asking her feathered friend to go get the latest issue of PC Gamer magazine.

way I think about each battle. Taking a big chunk of recoverable damage and then using a well-timed combo with Heat to recover it all felt great, and I think players will really start to warm up to it.

DORYA!

The Dark Awakens isn't the only offline mode Tekken 8 has to offer, either. Character episodes offer fun 'what if?' endings for its roster, which led me to some belly-laugh moments.

There's even the return of Tekken Ball. I wasn't expecting to love this one as much as I did. It plonks my regular fighters on the beach and, instead of wailing on each other, there's a fun little beach ball to unleash my move list on instead.

Something I would really love to see is Bandai Namco bringing back more classic singleplayer/offline modes for us throughout Tekken 8's lifespan. Survival, Team Battle, Time Attack-it'd be sick to have these modes back to give even further life to the game's offline offerings.

Then there's the brand-new Arcade Quest, which is kind of a second story mode. Except instead of deadly familial war, it's a more grounded narrative about arcade culture that plonks a mini-me avatar among a friend group who just got their hands on Tekken 8. It's a far more casual offering than The Dark Awakens, acting as an onboarding process for new players.





THE FOUR BEST TEKKEN GAMES OF ALL TIME

Play these to get maximum fighting fun



TEKKEN 8 Listen, it's the new one. I'm biased, okay? It's really good. Play it!



TOURNAMENT 2 The best roster, stages and Snoop has his own arena.



TEKKEN 5 A sick variety of singleplayer modes and a killer soundtrack.



TEKKEN 3 It introduced my boy Eddy Gordo, and for that I'll be forever grateful.





THREE TEKKEN 8 COMBATANTS TO LOOK OUT FOR

From the sharpest dressed, to rocking the coolest combos



CLAUDIO SERAFINO BEST DRESSED Who knew being an exorcist required this much drip? I need those shoes on my feet ASAP.



His new Mourning Crow stance makes for some bombastic visuals while being juggled to hell.



REINA BEST NEWCOMER The hair, the attitude, the purple-yellow electrics—Reina is already a fan-favorite.

It's very short and sweet, not offering a whole lot of substance. The tutorials sprinkled throughout its brief story will be of great help to newbies though.

The story is very sunshine-andrainbows, which is fine, but wasn't really anything that had me clamoring for more. Easily the best part of Arcade Quest is its Super Ghost Battle mode that's unlocked after some early progression.

THE NEXT BATTLE

Not only does Super Ghost Battle allow me to challenge NPC ghosts and earn experience to rank-up, and the occasional costume, it also allows me to train and fight my own ghost and then go on to fight the ghosts of my pals. Fighting my own ghost, being able to see the way I played, the moves I used way too much, the flaws in my game plan and things that ghost me would catch real me out with, proved to be an invaluable learning tool.

I even made use of other players' ghosts during the brief two days the online servers were switched on. If I was getting my ass kicked, I was able to go and look at their ghost and study their moves.

It's not the only neat method Tekken 8 has to level up my fighting game skill, either. Its training mode is the best the series has ever seen. It's straight-up fantastic, offering combo challenges for every character, explanations of what certain moves do and how you can tweak them to combo them into other moves.

There are a lot of options though, and not all of them are very well explained. I thought for a good while that the game had removed the function to record moves on the training dummy, only to find out that I had to switch the training mode style to Defensive to access that option. It could prove overwhelming to those starting out, but for more veteran players it'll be great for fine-tuning scenario setups.

TOP: Visually, Tekken 8 is frequently jaw-dropping.

Tekken 8

Even then, there's the absolute game-changing Replays & Tips feature that can do some of that scenario set up for me. It takes recent games against CPU and real people and lets me play them back. It shows both my and the opponent's command history, frame data and offers me tips on how to deal with stuff. It mostly deals with the big things-super unsafe moves that can be easily punished, highs that can be evaded and the correct input to break out of throws.

ENTER THE FIGHT LOUNGE

I took all of the little tips and tricks I'd picked up while playing my main,

Italian exorcist Claudio Serafino, and brought them into online mode. While I can access Tekken 8's online offerings from the main menu, I can also take my Arcade Ouest avatar into a social lobby and hop on an actual arcade

cabinet, with other players able to walk over and play with me.

I managed to get into a handful of ranked and casual games during the times the server was live. One of my favorite changes is that you can't lose points for your first ten ranks now. It made losing in the lower levels feel less terrible than it used to.

Unfortunately, Tekken 8's netcode is still not quite up to snuff. I played across a variety of regions and connections, including Wi-Fi, and only found stable connections with players who were using Ethernet and in my region. Almost every Wi-Fi player I encountered I suffered horrible lag with, and even wellconnected folk in other regions saw me dropping inputs.

It's better than Tekken 7's, and when it works it's incredibly smooth with only one to two frames of rollback. But it still has a long way to go compared to other fighting games. I was at least hoping for Wi-Fi connections to feel more stable across the board, but unfortunately it doesn't seem to be the case.

It's not Tekken 8's only weakness. either. I had high hopes for this game's customization, which was touted to have more options and

> more freedom. It kind of has the former, as there are a number of categories to choose from, but the options feel incredibly limited.

Bandai Namco has proven it can do considerably better character

customization with games like Soulcalibur, so it's bizarre to me how bad this one is.

SMOOTH RUNNING

I managed to

get into a handful of

ranked and

casual games

Tekken 8 has been running beautifully on my rig, for the most part. I've maintained a steady 60fps in battle on Ultra settings, which continued across my well-connected online matches. I did experience some slowdown during character intros, but that would immediately vanish as soon as the round began. The actual gameplay was never impacted.

I also highly value portability when it comes to my fighting games. I get together with my fellow FGC friends quite regularly, which usually requires someone to bring a setup of some kind. I managed to get Tekken 8 running at a steady 60fps on my Steam Deck with mostly medium settings. It's worth noting that I had to grab GE Proton to get things working, but once I did it was smooth sailing. It's a little crusty looking, sure, but still perfectly readable, which I really appreciate.

It's a good job it runs well on both my desktop and Steam Deck, because Tekken 8 is a game that won't be leaving my regular rotation for a long time. It's a thrilling experience, easily one of the best entries in the series to date. Its weaknesses can be patched up over time—if Bandai Namco can get its netcode in a better place and make customization not feel terrible to use, it'll make a fantastic game exceptional.

Whether you've been playing Tekken for years, are looking to return after a long absence, or even never touched the series before, Tekken 8 is the game you should be playing. It's the perfect warm nostalgia hug for fans while doing loads of good stuff to make things approachable for fighting game newbies. I can't wait to dive back in already.

PC GAMER

VERDICT

The best Tekken game in years, let down only by its netcode and aged customization. An absolute must-buy.







TOP: There are excellent training options to help you learn how to kick ass like a pro.



Like A Dragon: Infinite Wealth

RICH'N BEEFY

LIKE A DRAGON: INFINITE WEALTH is a dizzyingly huge all-you-can-eat Yakuza buffet

By Dominic Tarason

ike A Dragon: Infinite Wealth feels indulgent in a way few games get to be. Enough drama to fill two normal Yakuza games, a Hawaiian city sparkling in the sun and an absurd lineup of minigames including resort management and creature taming. It's impossible to go five minutes without it excitedly thrusting another glossy distraction in your face, even as stakes escalate. Honestly, it's better than most vacations I've been on.

It takes a while

for Infinite

Wealth to 'get good', but it's worth the wait

Most of *Infinite Wealth*'s issues come and go in the first 15 hours of its sprawling narrative as it tries to introduce a cast of dozens, the city of Yokohama, and give a crash course

on current protagonist Ichiban Kasuga, former Yakuza grunt turned 40-something hero with a heart of gold.

As a longtime Yakuza player I felt more than a little bit of déjà vu while Infinite Wealth crawled its way

through old gameplay mechanics, characters and locations. Despite some strong narrative beats early on, it does take a while for Infinite Wealth to 'get good', but I swear it's worth the wait.

TROPICAL PUNCH

Like A Dragon's metamorphosis into an RPG series feels complete here, shedding its Shenmue-esque brawler roots in favor of a fast-and-loose turn-based battle system with some timed hits, mashing on some rapid combos for extra damage, or in sync with a big impact for extra damage. Similarly, incoming attacks can be weakened if you tap the block button just before it lands, although enemy animations are often unpredictable enough to make this tricky.

Even with these light action elements, I never found it demanded too much thought on the default difficulty, but that's fine. It captures that familiar messy, loose feel of classic Yakuza combat. That it helps keep fights fast and breezy feels all the more important considering the hundreds (potentially thousands) of street brawls you'll be getting into.

Combat works in a fundamentally similar way to the previous game, but now offers far more fine-grained control over brawls. Enemies no longer get to launch infuriating

> opportunity attacks out-of-turn, for starters. Better yet, you're now free to reposition your characters before launching an attack, lining up angles and ideally slamming one street punk through three or four of his

friends, leaving them all in a tangled. always-satisfying mook-pile.

LARGER THAN LIFE

Even if the combat is straightforward, the characters and the variety of

NEED TO KNOW

WHAT IS IT? The second turn-hased JRPG in the Like A Dragon/ Yakuza series

> **EXPECT TO PAY** \$70

DEVELOPER Ryu Ga Gotoku Studio

> PUBLISHER Sega

REVIEWED ON Intel Core i9-13900K, 64GB RAM, Nvidia GeForce RTX 4090

> MULTIPLAYER Local for some minigames

LINK infinitewealth. sega.com

enemies lend it plenty of color. Ichiban still possesses a fevered, Dragon Quest-tinged imagination, transforming regular street toughs into absurd cartoon stereotypes when encountered. Dockworkers become pirates, belligerent Soundcloud rappers become Kiss-inspired metalheads, and security guards transform into robot enforcers.

The larger-than-life punks present a fun array of targets to be kicked, punched and exploded by Ichiban's new party of pals, including Chitose (a wealthy but street-savvy young heiress who fights with ballet moves) and Eric Tomizawa, a dour cab driver who fights with tire wrenches, road flares and other improvised tools of the trade. These fun new friends are found in the game's primary city hub, Honolulu; a gorgeous, open Hawaiian city that finally feels large enough to support the game's JRPG ambitions.

But the fighting is just the connective tissue, and the real red meat at the core of any Yakuza/Like A Dragon game is the storytelling, usually a mixture of gritty crime drama, manly tears and the occasional comic relief side-story. That holds true here too, but on a grander, weirder scale that buckles a little under the weight of its own ambition. Despite its lengthy run-time, Infinite Wealth might actually be trying to tell too much story. Or at least, too many of them.

The story here kicks off a few vears after Ichiban's last adventure. which led to the dissolution of the two biggest Yakuza organizations in the country. Now he's working at the job center, and using that role to help those displaced Yakuza reintegrate into society.

In this series good times never last, and through a mixture of a truly disastrous first date (I'm STILL feeling the aftershocks of secondhand embarrassment), a run-in with a muck-raking VTuber and reports that his long-lost mother might still be alive, Ichiban ends up hopping on

SCHOOL OF ALOHA'D KNOCKS

Meet Ichiban's latest two BFFs



TOMIZAWA Job: Driver/Yakuza underling. Two jobs, neither glamorous, but he knows these mean streets.

Fighting style: Improvised. Is throwing wrenches a martial art? If it works, it works! Fun fact:

Knows where every pastry shop in Honolulu is. They're great for finding fares.



Like A Dragon: Infinite Wealth













BELOW: I swear this is a gritty, serious crime drama. Really!



Like A Dragon: Infinite Wealth





ABOVE: There is no creature that Ichiban cannot immediately befriend.

RIGHT: What's a tropical getaway without some embarrassing group photos?

BOTTOM: Ooof! That's got to hurt.









Like A Dragon: Infinite Wealth

a plane to Hawaii to become embroiled in yet another criminal conspiracy in need of a beatdown.

One wrinkle is that this is almost equally a story about original *Yakuza* hero Kazuma Kiryu, who Ichiban meets up with not long after arriving. The old dragon thoroughly steals the show whenever he's on screen, which

is a lot of the time. Not to play down Ichiban's enthusiastic power-offriendship schtick, but Kiryu has built up a critical mass of pathos and drama over his decades of street brawling misadventure.

Kiryu's a full-on silver fox now. An aged powerhouse that now has to lean on his friends a little bit more, wrestling with a too-late cancer diagnosis while also (sometimes literally) wrestling with the ghosts of his past, trying to set as much right as possible while ticking good times off his bucket list. It's powerful, emotionally resonant stuff, sometimes standing at odds with Ichiban's more whimsical adventures.

DOUBLE DRAGON

How does the game handle these two story threads at the same time? By barely even trying. While Kiryu and Kasuga work together in Honolulu for a while, the story eventually has them split up to work alongside full parties of their own, and tell stories better geared to the individual heroes. Ichiban stays in Hawaii's sunny, open streets while Kiryu returns to the cozier roads of Yokohama and a tour through his old stomping ground of Kamurocho. The narrative then bounces between two tonally divergent storylines that sometimes intersect.

This leads to some oddly paced segments, where you'll play through five to six hours of what feels like a dramatic finale for one plot thread, only for it to switch protagonists and begin the buildup to yet another equally lengthy finale for the other protagonist. It almost feels like I was playing two separate *Yakuza* games and tagging between them, with Kiryu's side of the story claiming the lion's share of hype-inducing callbacks to classic *Yakuza*, while Ichiban gets some set pieces that feel straight from his wildest dreams.

Both stories are consistently thrilling despite their divergent tones,

but sitting through more endings than Peter Jackson stuffed into Return of the King can lead to fatigue. This juggernaut would be better played over the course of weeks. And there's still so much to do outside of the main plot.

HAWAIIAN HANGOUTS

How does the

game handle

these two story

threads at the

same time?

Each of the three city hubs is packed with distractions and minigames. There's a fun *Crazy Taxi*-inspired food delivery minigame, plus series standbys like shogi, poker, mahjong and darts, and an

assortment of emulated Sega arcade classics like obscure 3D brawler *SpikeOut*. Karaoke returns, of course, with Kiryu getting to pour his heart out over Baka Mitai once more.

While the side-stories give both heroes plenty of laughs and pathos, Kiryu's tend to hit old fans (like me) harder, featuring chance meetings with young friends who have grown up, old friends in their own twilight years, and grappling with how his world has moved on. While Ichiban's search for his mother can tug on the heartstrings, he does lend himself better to wackier scenarios, including callbacks to past run-ins with rampaging Roombas, serving as comic relief to offset the heavy stuff.

There are plenty of opportunities to grind around town, with Hawaii and Japan each holding a multi-tier procedurally generated dungeon for when you absolutely need some extra

experience and cash. And for the really cash-strapped, there's plenty of additional money-making opportunities stemming from the two 'core' minigames, the Sujimon League and Dondoko Island, which tie back into the main game.

Dondoko Island managed to hold my attention best. A loosely Animal Crossing-inspired side game about restoring a garbage-covered island back to a five-star resort, it's bright and breezy fun, and gripped onto the part of my gamer brain that loves seeing numbers spin up exponentially as guests I met in the main city hubs came to visit my increasingly flashy island. Hitting the final goal of a five-star resort took me about eight hours total, providing enough money to financially trivialize most of the rest of the game, plus a powerful attack for Ichiban.

Sujimon League is a creaturebattling side game (using the various weirdos that vou encounter as 'monsters' in the field) that feels more like a light mobile gacha game than Pokémon, right down to ten-pulls of random new fighters threatening your (virtual) bank balance. It's a cute excuse to seek out weird street people to beat up and recruit, but the simple and static battle system didn't do much for me, largely boiling down to having a higher level pack of critter-folk and keeping an eye on their rock-paperscissors damage types.

Even making a beeline through the main story (with an excursion for a day on Dondoko Island), you'll still be hard pressed to finish *Infinite Wealth* in under 60 hours, and completionists are likely looking at 100 or more to see everything that it has to offer—even more if you're willing to pay for the upgrade to add a New Game+ mode and higher difficulty options.

Personally, as much as I've enjoyed my time on Honolulu's beaches, I can't see myself going for another trip this side of 2025. One serving of *Infinite Wealth* is plenty rich enough for my blood. I've still got enough leftovers from this game to last me well into spring.

VACATION VOCATIONS

Some of the weird and wonderful alternate classes unlocked by taking holiday tours



AQUANAUT Switching into a wetsuit for combat may take some

effort, but the results are undeniable. Lots of powerful area-effect attacks from swinging that surfboard.



GEODANCER
Cultural
appropriation?
Possibly. A powerful

practitioner of magical buffs, debuffs and maraca-shaking moves? Definitely. Weaponize those hips!



ACTION STAR Can't beat the classics. Bruce Lee's legacy lives on in

this jumpsuited martial artist class, featuring powerful nunchaku combos and some flashy throw attacks.



KUNOICHI
All that sunshine just
means the buildings
cast long shadows,

making Hawaii the perfect training ground for these high-evasion, high-damage dagger-wielding ninjas.

PC GAMER

Stuffed with content and pathos, *Infinite Wealth* delivers a near-excessive amount of urban crime-drama adventure.



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"You pour rookies in one end and badasses emerge from the other"

Having a chill time watching the occasional noob die in XCOM: ENEMY WITHIN

he Firaxis formula has been copied but never bettered. It's the little things, like the way the camera swoops in when you're aiming or the last trooper hustles into cover at the end of a turn. I feel more connected to my guys if the sensation of being an invisible giant playing soldiers gets broken every now and then.

Instead of replaying *XCOM 2* for the Nth time, maybe with a mod that makes everyone look like Sisters of Battle, I decided to go back to the previous *XCOM*. I wanted to remind myself what had changed. *XCOM 2* can be overwhelming, it's a flood of mission types and mechanics, so I thought hopping back a few years would be a return to some kind of purity—just me and my four-to-six knock-off GI Joes with pockets so

JODY MACGREGOR



THIS MONTH Relaxing in *XCOM*. Rela*XCOM*.

ALSO PLAYED Sovereign Syndicate, Warhammer: Vermintide II

small they can only carry one grenade apiece. But add-on DLC had already jam-packed *XCOM* with extras. You're turning soldiers into MEC troopers or upgrading their DNA while also building a Foundry to construct a different flavor of robots and upgrades, and then adding psychic powers on top. There's a messy redundancy in the way you can research a suit of armor that comes with a grappling hook to help your snipers get on rooftops, but can also upgrade their legs so they can just jump up there.

TOP: Slingshot added a named NPC who was immediately cooler than anyone you know.

I don't mind, though. It may not have the mythical purity I remember, but it's still a lot of fun to turn a squad of rank amateurs into the A-Team. *XCOM* is basically a big funnel: you pour rookies in one end and badasses emerge from the other. I'll never stop enjoying that.

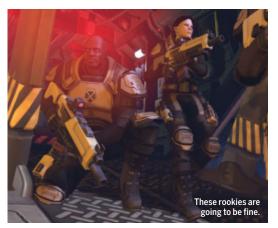
WE WILL BE WATCHING

These days I'm dropping the difficulty to Normal, which is like removing the hidden blades inside the funnel. I know the internet's sold on 'Iron Man or GTFO' but when I return to *XCOM* it's for comfort food. If a sectoid in metal pants gets lucky

YOU'RE TURNING SOLDIERS INTO MEC TROOPERS OR UPGRADING THEIR DNA

THE GAMES WE LOVE RIGHT NOW

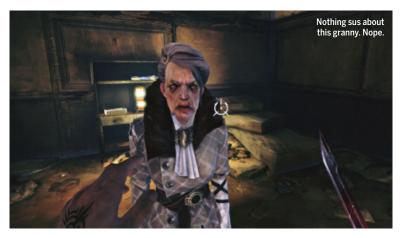




and kills a veteran I don't want it to be the end of the line. The safe playstyle that forces you into, all full-cover overwatch and alpha strikes, bores me to tears.

Revisiting this version, which I'm carefully not calling 'the original' so I don't get emails from people who think I don't know about *UFO*: Enemy Unknown, means I get to replay some of my favorite levels. Like the one where you work through a train carriage by carriage, or fight across the top of a battleship in midair. The best is still the fishing village in Newfoundland where chryssalids hatch out of big fish and you have to call in an air-strike then hustle back to the extraction point before the bombs fall, leaving at the absolute last moment.

XCOM 2 is definitely better, though. In this predecessor I've found myself unable to select a rooftop square I want to move to because it keeps highlighting one on the floor below, and I sure do miss the variety of mods and cosmetics XCOM 2 has. That's where I'll end up next time the turn-based tactics itch needs to be scratched—maybe with mods that make everyone look like they're from Ghost in the Shell or Mass Effect. ■



"The temptation to slit throats is high"

Being a merciful ghost in **DISHONORED**

ROBERT JONES



THIS MONTH Had an emo-off with the Outsider.

ALSO PLAYED The Inquisitor, League of Legends



twitchy old granny, wandering aimlessly around an abandoned house, stares me in the eye and asks me

ever so sweetly to deal with her gentleman callers, three armed goons who are battering on the home's locked front door and demanding entry. Help her, and she'll give me an item of power.

Power in *Dishonored* comes in the form of otherworldly abilities as granted through whalebone runes by the mysterious and sinister emo lord, the Outsider. This guy, who looks like a reject from My Chemical Romance, has empowered me with a range of superhuman powers that, if I'm being honest, are mainly geared around killing foes in a bloody, brutal manner. The temptation to slit throats is high.

But the beauty of *Dishonored*, and indeed why the game has so much replayability, is that you don't have to use these powers and, even if you do, you certainly don't have

to use them to kill your enemies. Indeed, how you use your powers has a direct affect on the game. For this run, I'm trying to not kill anyone other than my main assassination target each mission.

GHOSTLY FUN

It's going to be even harder, too, as I'm trying to complete each mission with the 'Ghost' accomplishment, something you get for not being seen by any hostiles as you carry out your mission. Better get to it.

I call on the Outsider's power of Blink, a force that lets me teleport between locations, to materialize behind the goons on a raised gantry. My normal non-lethal attack of choice is the chokeout from behind, but that's not going to work here. There's too many of them in one spot, and I'll be seen and cut to ribbons.

So instead I make use of my crossbow with tranquillizer darts. I lean out from the gantry and shoot one goon in the ass. He yelps, but then immediately falls over unconscious. I duck to the other side of the gantry and shoot the second goon in the crotch, still without being unseen. The final goon is now on high alert, and searching for me desperately, but I teleport behind him and choke him out. What a merciful ghost I am.



"You're a prototype Big Daddy on the hunt for his lost Little Sister, Eleanor"

BIOSHOCK 2 is almost forgotten, but it doesn't deserve to be



ioShock 2 is the Shock that time forgot. Nestled between its beloved big brother and infinite discourse

generator little si... ah, sibling, it's a game that seemed to vanish as soon as it appeared when it released all the way back in 2010.

So, naturally, with Cyberpunk and Elden Ring loaded up and ready to go on the brand new Steam Deck I brought home for Christmas, I spent the entire time playing this instead.

SYSTEMIC RISK

Why is it so forgotten? Well, for one, Sofia Lamb—the game's main villain and, as endless audio logs inform you, a figure of apparently immense presence on Rapture's political stage who somehow never merited a mention in *BioShock* 1—just doesn't have Andrew Ryan's swagger. She's part of the game's desire to do *System Shock 2* again: replacing Ryan's paranoid objectivism with collectivism in the same way *System Shock* swapped out the singular SHODAN for the hivemind of The Many.

JOSHUA WOLENS



Used a drill how you're not supposed to.

ALSO PLAYED Marvel's Midnight Suns

But System Shock 2 was smart enough to keep SHODAN along for the ride anyway, while Ryan's ghost only lingers in *BioShock 2* through audio logs and the decayed remains of his cult of personality. Lamb and her quasi-religious collectivism just can't fill the void he leaves behind.

And yet I spent a solid week and a bit playing the thing to completion. Why? Because *BioShock 2* is a dark horse. Get away from the ideology stuff that can't be as interesting as the first game or as baffling as the third, and there's plenty to like in Rapture's second outing.

LETS YOU WIELD YOUR PLASMID ABILITIES AND WEAPONS SIMULTANEOUSLY

Part of that is tweaked gameplay. BioShock 2 was the first game in the series to let you wield your plasmid abilities and weapons simultaneously.

But also, I think this might be the ur-Dad Game, that genre of Witchers and Gods of War and the like that ended up defining the last decade of big-budget videogames. You're a prototype Big Daddy on the hunt for his lost Little Sister, Eleanor.

Eleanor is imprisoned by Lamb, her mother, who has a plot to build communism by injecting her daughter with all the memories of Rapture's citizens via weird science.

It's strangely familiar, and the game pulls it off in a way it doesn't manage with the big-picture stuff. Piecing together the circumstances of Eleanor's childhood, her neglectful mother and the way she latched onto a father figure in the form of, well, a Big Daddy, makes me feel like I'm playing some kind of magic lantern version of *The Last of Us*, right down to the whole thing really being Eleanor's/Ellie's story rather than Subject Delta's/Joel's. I think this seabed fossil might be a 21st century missing link, and one that's worth remembering, too.





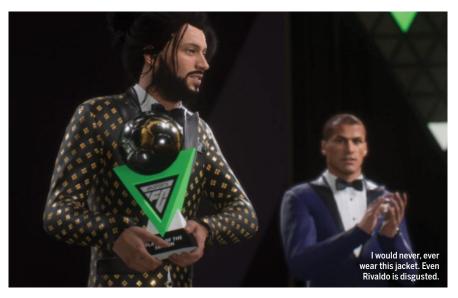


FAR LEFT: Look, pa! Two hands!

LEFT: At least I'll always have you, deals clown.







"Linking perks to personality makes all that stuff you can buy make sense"

A game of two halves, or more, in EA FC 24



his game drives me to drink. It's a basic Pavlovian response. I started playing FIFA 20 in the darkest days

of lockdown, when there was no football, while waiting for my five-year-old to finally fall asleep, knowing that I'd have to try to home-school him in the morning and that tomorrow would be the same as today, and every day for the foreseeable future. I would eventually get to stop and, like most people back then, have a beer. The two became linked.

This respondent conditioning is one reason I resisted installing the latest iteration on launch day, as is my wont. Playing gets me all riled up, and then I want alcohol, an urge I find uncomfortable. I play games to relax, after all. Another reason was that I'd taken part in the Switch beta testing, and wasn't excited by the new format, which was familiar. After 650+ hours of Player Career Mode, I felt done with it. I play on Ultimate, using the Pro camera and

MATT KILLEEN



THIS MONTH
Yearned for 'Champagne football' without the alcohol.

ALSO PLAYED Horizon Zero Dawn, Hardspace Shipbreaker

still become Messi in short order. But here I was, like the proverbial alcoholic who thought he could have just one glass, pressing A to start.

MORE VIOLENT

Some work has definitely happened under the hood. For the careerminded, players now have agents who are continually working on your next transfer, although only time will tell if this works in the long term. Just being able to choose specific targets is a great innovation.

AFTER 650+ HOURS OF PLAYER CAREER MODE, I FELT DONE WITH IT

Likewise, linking perks to personality finally makes all that stuff you can buy make sense. Then there's the renewed level of challenge to the game that doesn't just come across as outrageous CPU cheating.

Yet, Hypermotion has never looked right to me, reminiscent of the way that The Hobbit movies made everything seem less believable. Also, lots of old gripes are back. The internationals are borked again -you're playing at Wembley, but sit in a lower-league dressing room-and the game seems to have forgotten about substitutions altogether. My League 2 teenager got an unlikely England call up and, instead of getting a few minutes at the end of the game, was immediately starting. And you don't get to be captain anymore—a wonderful update in the dying days of FIFA 23 that had me starting a new player from scratch just to be the one picking up trophies. The fact is, I've played the game to death, and I'm not really enjoying it. Thus, the cold new beer becomes backwash at the bottom of the glass.



DIABLO IV

WHAT'S NEW IN THE BIGGEST GAMES

Blizzard's action RPG hits its stride in Season 2. By Tyler Colp



y Sorceress has one of the rarest items in Diablo IV. Ahavarion, Spear of Lycander, is an 'Uber' Unique that

drops off one of the hardest endgame boss fights. It does absurdly high damage and periodically transforms my character into a god.

The spear isn't technically good for my build, which funnels all my power into balls of lightning that orbit my character. But when the spear's unique effect triggers and I become a pulsing ball of destructive energy. I don't need a build. Enemies explode no matter what gear I have on. It feels like breaking the game—and in some ways it is—but it isn't out of place in Diablo IV, an action RPG that spent the last six months learning how to celebrate what it's like to be overpowered.

With Season 2, the Season of Blood, Diablo IV has finally stabilized. The launch of the game was grindy and directionless and now it's only a little grindy—it's an ARPG after all -and gives you plenty of things to do that are more than worth your time.

Here's how Blizzard turned the game around in four months: around two weeks before Season 2's October launch, Blizzard laid out its plan to

NEED TO KNOW		
RELEASE	DEVELOPER	
June 6, 2023	Blizzard	
PUBLISHER	LINK	
Activision Blizzard	diablo4.blizzard.com	

reshape Diablo IV. Through a whopping 40% increase to XP gains and streamlined dungeons, Blizzard effectively chopped the time it took to reach the endgame in half. Loot drops were bountiful and rare Unique items were nearly guaranteed to drop off of specific bosses. Even your horse could get around the open world faster.

The Season of Blood is the reason I've played more *Diablo IV* in the last few months than I did when it launched. Every activity available to you at almost any level will net you loads of XP and resources. Blood Harvest events are active every hour in the open world and they're stuffed with monsters that drop loads of loot and fulfill Grim Favor objectives for millions of gold. Every trip is a shopping spree and you can participate minutes after making a new character.

Vampiric powers are the core of the Season. These powerful abilities are unlocked by spending time collecting Potent Blood in Blood Harvests. You can equip five at a time and easily swap them around. Almost everyone is running around periodically turning into bats with Metamorphosis, a Vampiric Power that makes it so when you evade your way through enemies, they become vulnerable and are easier to kill. If you have Ravenous equipped, it'll frequently boost your attack speed, which is particularly useful on my Ball Lightning sorceress who casts orbs of lightning that attack for 200% of my current attack speed. When Ravenous' buff pops, I'm a hot knife in a world of butter.

SUBOPTIMAL ITEM DROPS

Everything in Season 2 invites you to get your hands dirty and play with



the malleability of *Diablo IV*'s classes. You have the resources to find and perfect variants to popular builds that fit your playstyle. Suboptimal item drops can be worked around. My Ball Lightning sorcerer build, for example, uses the class' enchantment slot for Teleport so I can speed through dungeons faster than anything else in the game. Necromancers who are tired of being shackled to their bodies (same) can run a build where they're almost permanently an invulnerable cloud of blood-red mist. Every class has ways to crush the game, and it's now so much more expressive than it was at launch.

The power level has highlighted the problems with *Diablo IV*'s endgame, though, which have persisted since launch. Once you reach level 70 or so, finding upgrades for your specific build is a pain. You'll drop a world boss and pick up an amulet that has two of four stats you need, but because you can only reroll one of them, it's effectively trash. Blizzard has admitted that there are far too many stats that aren't useful and has plans to change that in Season 4. But Season 2 brings an incredibly welcome shift in the game. Diablo IV finally feels like a Diablo game where you're not constantly running uphill to feel powerful. The future of Sanctuary may continue to be grim, but the future of playing Diablo IV is bright. ■



SPEAR OF LYCANDER

This spear gives me random shrine buffs like invulnerability and 100% critical strike chance.



A reference to the

same item in Diablo II, the Shako gives me free ranks to spells for good amounts of damage.



IRIDESCENT

A Sorcerer-only ring that rewards me with a massive damage boost for using spells of multiple elements.

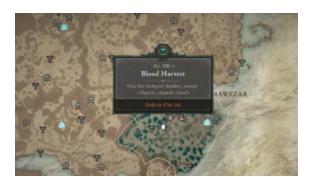


THE INFINITE

A chest piece that stuns enemies whenever I teleport into them, crucial for survivability as a glass cannon.



NOW PLAYING | UPDATE | MOD SPOTLIGHT | HOW TO | DIARY | WHY I LOVE | REINSTALL | MUST PLAY







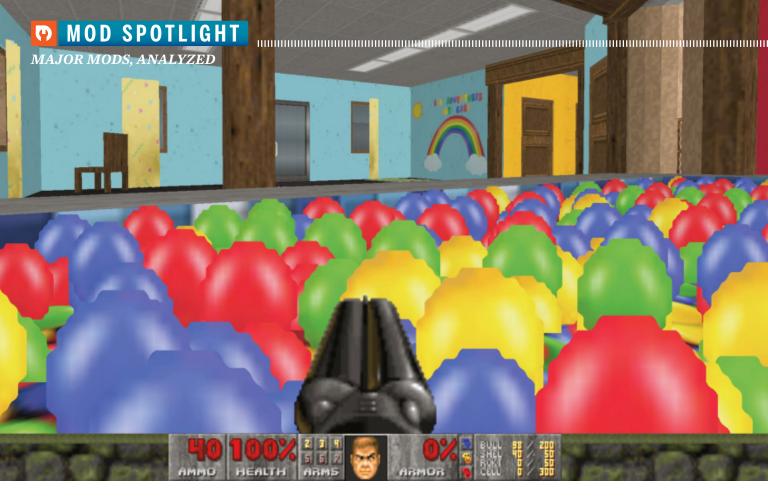


FAR LEFT: Necromancers continue to be one of *Diablo IV*'s best classes.

BELOW: Vampiric powers are a huge boost to any build with unique buffs.







MYHOUSE.WAD

This Doom II mod is the game of the year. By Wes Fenlon

was just young and naïve enough when The Blair Witch Project came out to be suckered in by the premise that it was real—that someone had found this real-life footage after the fact, or that it was just a movie but one based on real events. Even now when you Google it, the first 'people also ask' result is: was Blair Witch based on a true story?

After 20 years of horror movies aping that gimmick, the Google doc that accompanies Doom II mod MyHouse. wad doesn't really have a chance of tricking anyone into thinking it's a true story about a modder trying to finish their dead friend's project and slowly descending into madness. But it doesn't have to.

Myhouse is freaky enough all on its own that it kept me on edge for

NEED TO KNOW DEVELOPER RELEASE May 5, 1994 id Software **PUBLISHER GT** Interactive shorturl.at/abfsv

hours, shifting under my feet so seamlessly that I still ended up questioning what was real by the time I 'finished' it-at which point I'd actually only seen a fraction of what this endlessly messed up mod was waiting to spring on me.

DOOM'S ROOMS

The journal that accompanies Myhouse is one of many meta layers to its story, hiding several seemingly innocent details that tie into the artifacts vou'll find scattered throughout the house as reality starts to fracture around you. "I continue having these vivid, cryptic dreams, and they keep feeling more



ABOVE: This mod takes you places you'd never expect.

BELOW: The house keeps changing in unusual ways.





A WAD OF MODS

Our other favourite Doom mods



BATMAN: ROGUE CITY A total conversion that turns Mars into Gotham and Doomguy into The Bat.



KING OF THE HILL God-dang it, Bobby. The demons are after our propane and propane accessories!



WOLFENSTEIN: BLADE OF AGONY A massive mod that serves as a follow up to Wolfenstein 3D.



XIM'S STAR WARS DOOM Star Wars blasters, lightsabers, and Force powers all modded into *Doom*.





ABOVE: Unsettling sights around every turn.

RIGHT: Somehow this sunset isn't all that relaxing.



personal and unsettling," the journal reads. "I was dreaming about taking a nice hot bath. I felt myself sinking deeper and deeper into the warm water until I couldn't breathe. I tried to scream, but no sound escaped my lips. I was drowning in my own bathtub."

My favorite bit of it is how it plays with the form of modern *Doom* modding, hinting at the difference between the 3.5MB *Myhouse.wad* and 65MB *Myhouse.pk3*, "I tried to delete *myhouse.pk3* but I keep getting a 'file in use' error. I don't think the map will let me. I'm going to post it on Doomworld tonight, but I don't want anyone playing anything other than the original vanilla release—whatever this map is doing to me, I can't let it do the same to others."

In other words: map's haunted. Seriously, this house isn't just haunted. It's 'The Scooby Gang would bail after 30 minutes' haunted. It's 'I reflexively blurted out the word NO at my monitor at 10pm' haunted.

It starts small, playing tricks on you that briefly make you question your own memory. I shotgunned my way through the house's oddly arranged bedrooms, cleared out the den downstairs, and then headed out into the yard for a power-up that taunted me through a window. Outside I peered through the windows befuddled: the enemies were alive again. And that powerup was gone. So I went inside to do it all over and... wait a second. That hallway wasn't shaped like that before, was it? No, that door's definitely new-but the angles of the house are so bizarre, it's easy to think you just didn't see it the first time through.

ROOM FOR DOOM

When I found the final key to make my way to the exit, a blank wall was sitting where the front door used to be. There was no way out, just a way to go further in, which is when *Myhouse.pk3* really began.

Or maybe it began the moment I opened a door and discovered a stark black-and-white modern room had appeared out of nowhere in the middle of the cozy wood-paneled house like an invasive species. Or maybe it began after I did find my way to the exit and *GZDoom* dutifully booted up *Doom II*'s

second episode, Underhalls. The level offered the relief of a few minutes of straightforward shooting... but it dumped me back into *Myhouse* as soon as I finished it. It took me dying partway through one of a seemingly impossible number of layers to fully grasp how wildly inventive this mod is.

GHOST STORIES

A few videogames have successfully played with meta storytelling and breaking the fourth wall as effectively as *Myhouse*, like Undertale or *The Beginner's Guide*. But I think there's a distinct difference here—in those games, you can feel the author reaching through the screen, speaking directly to you, the player. They surprise you and subvert your expectations by acknowledging that this is a game,

IT PLAYS WITH THE FORM OF MODERN DOOM MODDING

and the game knows it's a game, and the person behind the game has thoughts about how you're playing it. *Myhouse* doesn't care about any of that. It just wants to feel unknowable.

The best found-footage movie can make you suspend your disbelief, but a found .wad-which might be a genre of just this one game?—can actually be cursed. It weaponizes how you expect a game to behave against you, unfurling into a mystery that could easily keep you occupied for several hours. What makes Myhouse really great is that there's thought and meaning behind all of it, the significance of its jarring liminal spaces tying back to that simple Google doc. Nothing here is just wacky randomness, but in the moment it does still feel disorienting and completely unpredictable.

Doom is 30 years old, and yet someone still used it as the vessel to build one of the smartest, most intricate games of the year. What a legacy! Play it once without looking up where to go or what to do—just explore. When you think you've seen what there is to see, look up a guide and figure out just how much more this house is hiding.



GET STARTED IN

PRINCE OF PERSIA: THE LOST CROWN

Uncover the ancient secrets of Mount Qaf. By Sean Martin

NEED TO KNOW

DIFFICULTY Normal

TIME Ten hours

VITAL LINK Sidequests: pcgamer.com/ prince-of-persia-thelost-crown-sidequestlocations



MAPPED OUT

Shortly after you venture into the ruined citadel, you'll encounter Fariba; a mysterious young girl who knows every nook and cranny of Mount Qaf. As you discover new areas, you'll be able to buy maps from Fariba, provided you can track her down.



HINT HINT

Fariba also provides handy tips if vou're stuck with the main story. provided you're willing to part with a few of your hard-earned Time Crystals, that is. If you're ever stumped as to the next step, talk to Fariba in The Haven just to the right of the Magi's Emporium.



AMULETS

For fans of Metroidvanias, The Lost Crown's Amulet system will be very familiar. Equipping these trinkets you find or buy throughout Mount Oaf grants effects like extra health, ability damage, or resistance. You can increase the number you can equip too.



GIVE ME SOMA

One of the best ways to stay alive in the citadel ruins is to boost your health bar, and for that you'll need Soma Tree Petals or Flowers. While you can find these in chests or hidden around the map, the best way to get them is to complete quests.



HELPING HAND

Besides Soma Tree Flowers. quests are a great source of new Amulets, too. The first quest-givers you're likely to encounter are Nojan in the Lower City and the soldier in the Hyrcanian Forest, but there are plenty of others.



ATHRA SURGES

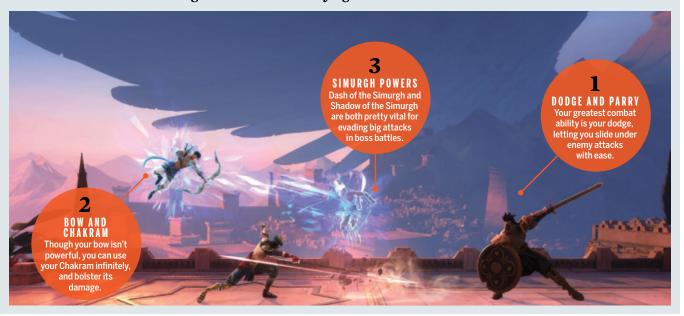
Unlike your main Simurgh powers, you can activate these combat abilities to perform powerful attacks or even heal yourself. Attacking enemies will charge your Athra, but you can also equip Amulets to speed the process.



DAMASCUS INGOTS

Buffing your damage will also make combat easier; it's hard for enemies to kill you when they're dead. After you return from the Hyrcanian Forest, you can enter Kaheva's Forge in The Haven and upgrade your weapons with Azure Damascus Ingots you've found.

FIGHTING TIME Turn Sargon into a monster-slaying machine





HOMA STATUES

Another tool you can unlock after returning from the forest is fast travel. You might have spied the fast travel icon in The Haven, but you can't access this until you repair your first Homa Statue in the Scholars' Area, after you use Dash of the Simurgh.



COARSE AND ROUGH

You've likely found the Spirited-Sand fresco; a giant mural with a glowing jar of sand in front of it that you can release by whacking it with your sword. As you track down the other 29 Spirited-Sand Jars throughout the map, make sure to return to claim the rewards.



XERXES

Wondering what to do with those strange Xerxes coins you've found? You can't spend this special currency until chapter three when you meet the Scrapper in The Depths. This merchant offers some special cursed Amulets, but only takes payment in Xerxes.



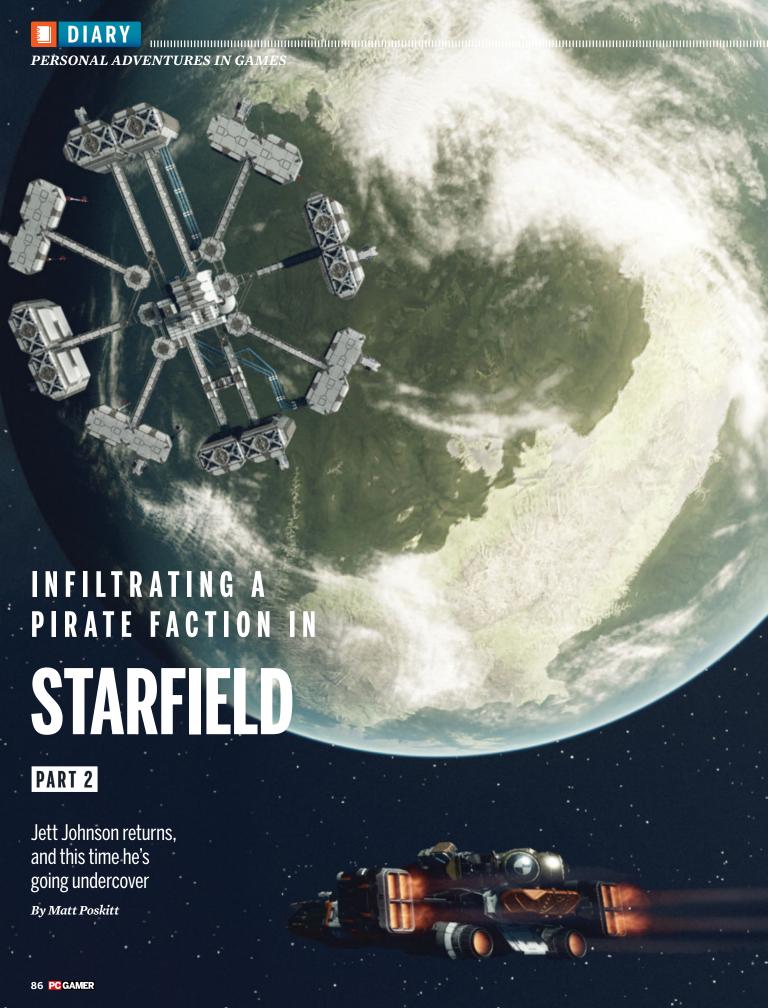
MASKED MONSTERS

While traveling through The Depths, you're sure to encounter giant stone-masked monsters that block corridors. You can't get past these until you acquire the Shadows of the Simurgh ability, which lets you leave an echo of yourself and warp behind the monsters.



POTION MASTER

One last tip; upgrade your healing potion. While vou do have the Baham's Breath Athra Surge to regain health, The Lost Crown is pretty stingy with its healing. You can buy upgrades to your health flask from the Magi Emporium.



0

n the outer reaches of the planet Nesoi in the Olympus star system, a space station drifts deserted above the murky green surface. What riches lie within? Could it have already been ransacked? Or how

about a priceless gem ready to be auctioned off on the black market? At the very least, there might be some leftover liquor to help quell this nightmare of sobriety that has quickly crept up in the last few hours. That's right, Jett Johnson is back.

Since we last caught up with our hotheaded hero, Jett became embroiled in a dispute between colonizers and a corporation where, for the first time in a long while, money took a back seat. Finding a planet at the galaxy's edge to sip banana daiquiris in solitude until the sun makes him look like he's just left a mudbath is still very much the end goal, but something has changed since he decided to pay for those colonizers to get a new Grav Drive to secure safety instead of blasting them to smithereens. Worst of all, that moment of generosity has put a big dent in his savings for paradise. Jett needs credits, and he needs them now.

This is where we pick up, circling the abandoned Almagest space station having heard rumors of a big score. No lights. No sign of life. Just darkness, as the Kapowski docks into what certainly won't be a straightforward grab-and-go. Downing the remainder of his Scotch, tightening his stretched belt (which wasn't so tight-fitting at one time), Jett grabs a pistol and makes his way to the airlock.

JACKPOT

Upon entering, two things become abundantly clear: zero-gravity is in full effect, meaning floating through the regal corridors is the only option, and the Almagest is not just any old space station but at one time was a luxurious casino for the super-rich. You would think that gambling would appeal to Jett. The man likes a drink, and typically the two sins go hand-in-hand. It's actually the opposite. The idea of working like a dog only to risk it at a game of chance infuriates him, pulling forth a memory of shame—potentially a parent who lost thousands, or a

lover's addiction that ruined a past relationship. It's a thought that quickly dissipates, as a red laser sight dots onto his forehead.

It's easy to mistake Jett's belly for sluggishness. If that were true, there's no doubt that the Grim Reaper would have called there and then. Thankfully, those well-worn reflexes are still firmly embedded, prompting a salmon-like leap out of harm's way. "Breathe, Johnson. Breathe," he tells himself, before firing the pistol with pinpoint precision to take out the Spacer who had the misfortune of coming across one of the best gunslingers in the Settled Systems this mighty fine day.

IT'S A THOUGHT THAT QUICKLY DISSIPATES, AS A RED LASER SIGHT DOTS HIS FOREHEAD

Half a dozen or so further scavengers trying to claim the remnants of this forgotten casino—which comes off as more Atlantic City than its intended aspiration of being a Las Vegas-lookalike—are dispatched in quick succession. Their accuracy, or lack thereof, makes it obvious that whoever the group were, they were new to the game. This doesn't faze our protagonist, who is rather focused on cracking open the safes and hacking the computer mainframe for all the cash those fat cats left behind in their heyday.

A measly 3,700 credits is a disappointing return considering the potential. Everything else onboard looks pretty worthless, so grabbing something in the hope of getting close to 5,000 is the only way to make this trip not seem futile. The one bonus is a decent quantity of Aurora, an illegal hallucinogenic drug made from a specialist fish that is banned in pretty much every destination from Abetti to Zamka. One wild night where Jett ended up hijacking a luxury space cruise liner after watching Titanic 3000: The Curse of Jack Dawson means he should know better, but still, that could be a sizable chunk of credits if the right buyer is found. My wish to see Jett pushed into new unexpected scenarios

coupled with the notion that I think the guy needs a big win convinces me to grab it. What's the worst that could happen, right?

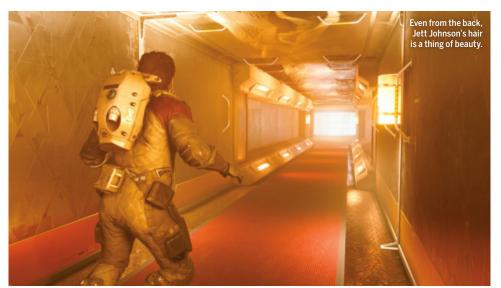
HARD TIME

Phobos, one of the two moons of Mars located in the Sol system. A large warship blankets the skies, in my mind The Imperial March from Star Wars plays. This is the UC Vigilance, the flagship of the UC Navy and the command center of operations for the UC System Defense force.

On top of this, it is now home to Jett Johnson who, in a panicked state, began to ingest every trace of Aurora seconds before being boarded by the interstellar army, or so I imagine. He questions whether the government is out to get him. In \otimes

THE RULES

- 1. Take no prisoners: always opt for the 'Attack' option when offered.
- 2. Sarcasm at its finest: choose the most sarcastic or rude dialog at all times.
- 3. Avoid Constellation missions and instead help out anyone who needs it... for a price.



reality, the sour fish aroma and the licking of a general's earlobe were his undoing. "Not my finest hour," he thinks, waiting in a cell for what is likely to be a severe sentence for an amateur crime. After all, his record isn't exactly Clara Barton.

Commander Kibwe Ikande enters the frame, initially reading through the mining expedition on Vectera, the brief encounter with Constellation (I wonder if Barrett's still waiting) and lastly the diplomat role played for the ECS Constant, which is what led to this mess in the first place. Jett smiles cheekily, only able to muster up a lame comeback, "I bet my shoe size isn't in your records". The effect of Aurora must still be lingering, he's usually far better at quips than that.

Ikande gets to the point, and it involves the Crimson Fleet pirate faction. "If we can get someone on the inside, we'd have a shot at finding a loose thread we can pull to bring it all down." Jett's first response suggests they should just "give up"—that thought does not amuse the Commander. The ultimatum: work for SysDef to take down the Crimson Fleet, or end up in jail with a hefty fine, which is the last thing Jett needs. "Depending on how well you do your job, we'll even kick in a few extra credits," Ikande adds. Say no more!

TIM COOK'S GARAGE

We meet outside of cuffs to go through the first mission, aptly titled Undercover. The room is enormous, filled with more computers than Tim Cook's garage. Soldiers huddle around a futuristic workbench plotting their next move. A lone Ikande stands in front of three wall-encompassing screens waiting to speak, "This is the Operations Center of the UC Vigilance, SysDef's nerve center dedicated to the destruction of the Crimson Fleet," he explains. What blindsides me next is the dialog option, "And this is me shooting my way off this prison ship!"

Sticking to the three rules I set, I begrudgingly make for the exit while firing at the commander alongside his many underlings. On its own, it's a difficult ask considering all of these (now) enemies are between 20 to 40 levels above my ranking, What makes this near impossible are the two automatic turrets that descend out of the ceiling behind Ikande, like a devil and angel on both TEACH A MAN TO FISH, AND HE'LL GET HIGH FOR A LIFETIME Everything you need to know about Aurora Said to slow down time by 40%, though does leave a lingering fishy smell. Goes great Made from the with toast. Chasmbass fish. as confirmed by Jett Johnson. Manufactured by Xenofresh Fisheries. Banned in all 3 the Settled Systems aside from Neon.

shoulders—except both are devils, and both have an unlimited supply of ammunition. Ol' Jett's seen some tough battles: gotten himself out of a few by the skin of his oddly perfect teeth. This is asking a lot, though.

LIVE, DIE, REPEAT

I die. I die again. I die a third time. On the seventh attempt, I make it to the door only to be shot as I press the elevator button. On the 12th attempt, I hide under a staircase trying to pick off every soldier one by one until I run out of bullets. It's beginning to seem futile. As I close in on the 17th attempt, I question whether this is worth the effort. I'm about to infiltrate a pirate organization in a hidden *Starfield* mission that Bethesda has gone to great lengths to think up. Adventure will surely ensue. Jett's also one for breaking the rules (we saw how he ingeniously sidestepped blowing up a survival crew in part one), so on my 19th restart, I holster my weapon and leave the UC Vigilance in search of the Crimson Fleet.

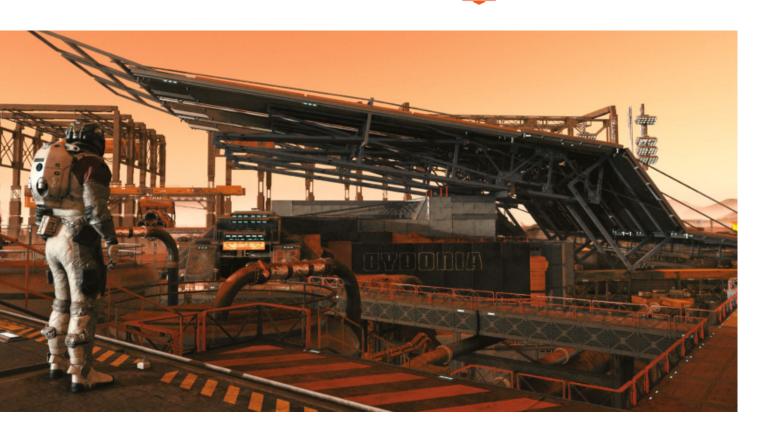
After a few bribes within the Cydonia colony on the

planet Mars, I'm directed to Europa in the Sol system to meet Naeva Mora, second in command of the Crimson Fleet. Naturally a bit apprehensive about me joining, I'm tasked with finding a traitor named Austin Rake-who sounds more like a Bosch mascot than a pirate—on a medical supply ship called the Ragana. It's then close to one of the seven moons of Saturn that Jett gets the chance to unleash the full fury of the Kapowski, selecting the fourth dialog option to initiate an all-out attack in space. Rake might have picked up skills at maneuvering, but Jett's more than a match, decimating the ship in 30 seconds flat.

It's hard to imagine the UC Navy being pleased about this outcome (what do they expect from a man who tried to lick one of their

BELOW: Do you think he's overcompensating?





IT QUICKLY BECOMES APPARENT THAT MORA IS INFATUATED WITH JETT

earlobes on first meeting) but it suffices for Mora, who appreciates the lack of witnesses. A moment of good fortune then offers up the chance to save the pirate deputy from Ecliptic mercenaries upon our return to Europa. Jett's going to avoid mentioning the fact that those mercenaries were out for his blood for shooting up a karaoke bar because there was no Avril Lavigne on the jukebox. It's fair to say his music preferences are... complicated. The good news is that Mora is satisfied, "You wanted into the Crimson Fleet, well... you're in." It's a big step, and one that our leading man jumps at—now heading to their headquarters, The Key.

Orbiting the planet Suvorov, The Key is a humongous piece of machinery that rivals that of Commander

Ikande's fleet. It has an unusual layout, with so many structures and scaffolding that you'd be forgiven for thinking a new series of Ninja Warrior was filmed here. One pirate shoots another in the entrance hall as Mora provides a welcome tour. It's nothing Jett hasn't seen before, but he needs to have his wits about him.

It quickly becomes apparent that Mora is infatuated with Jett; the longing stares, the way she's sticking her neck out so he can join as well as the schoolgirl insults to hide her emotion. "Oh yeah, still got it," Jett whispers under his breath, briefly reminded of the obsessive Lin and the gorgeous Heller from Vectera. She touches her nose frequently, trying to not get lost in his eyes which he believes resemble an ocean, whereas they're more like a backyard pool that's had one too many leaves fall in it. Maybe it's his rugged good looks or the near-death experience they both survived. Or maybe it's that Jett hasn't showered since consuming Aurora all those hours ago. No time to address that disconcerting thought, it's time to meet the leader of the Crimson Fleet.

ABOVE: Cydonia. You will never find a more wretched hive of scum and villainy.







y god, do I love *Unreal* Tournament 2004. They don't make them like this any

more. But it's not just the name. It's the attitude, like a low-bitrate voice saying "holy shit" when you max out the graphics settings. It's the way I can die, respawn and instagib a bot in the space of a single breath.

Months ago I found myself pining for UT2004's manic pace and the occasional afternoon instagib sessions we'd have at the office when I first joined PC Gamer. But after a couple afternoons poking around dead message boards trying to find the right files and instructions to run a dedicated server, I gave up. The information was just too fractured, and my Linux command line skills were too poor. Even if I'd gotten a server running, I wouldn't have been able to configure it to my liking.

SERVES ME RIGHT

Over the Christmas break at the end of 2023 I decided to give it another shot, and that's when I discovered AMP, aka the Application Management Panel (is there some law that declares the more useful a piece of community-driven software is, the drier its name has to be?). AMP is that good shit. It's a web panel that provides an easy-to-use mouse interface for running servers for dozens of games, from old shooters to Minecraft to recent hits like Sons of the Forest. Installing the server module for any game just takes a click, and all of the settings for that server live in a compact configuration menu. You can backup configs,

NEED TO KNOW

RFI FASE March 16, 2004 **DEVELOPER Epic Games**

PUBLISHER Fnic Games epicgames.com

UNRETIRED

AMP server picks for the 35+ crowd



COUNTER-STRIKE: CONDITION ZERO It's Counter-Strike, but with a campaign!



DEATHMATCH: SOURCE Back when Valve was in its goofy era and you could fry the G-Man.



OPENRA-DUNE 2000 A Command & Conquer reskin, with John Rhys-Davies hamming it up in the FMVs.



COD 4: MODERN WARFARE Not to be confused with MW Remastered. Claymore your way to that helicopter killstreak

update the software with a couple clicks, edit ports and check logs all without using a command line.

AMP has the vibe of an opensource platform, but it's actually paid software. I happily slapped down my \$5, reckoning that the developers charging for AMP would likely mean it had a friendlier install process than

THE INFORMATION WAS JUST TOO FRACTURED, AND MY LINUX SKILLS WERE TOO POOR

a lot of open-source software, and would be actively supported for the foreseeable future.

With my first stab at Unreal, I'd struggled to figure out what to type into an .ini file to cycle through random maps or fill empty slots with bots. In my AMP instance, though, every setting is laid out in its own

little box, with an explanation of what it does painstakingly written out below by a community developer. Essentially, AMP adapts all those crusty text file-based server configs into a consistent graphical interface, making it way easier to run not just a single game server, but to know where to look for similar settings across servers. I immediately perused the list for shooters beyond UT2004 and spun up servers for Wolfenstein: Enemy Territory and Sven Co-op.

COZY CODE

There's just something so comforting about having these old shooters easily at hand, knowing that I could probably download one, boot it and start a match in the time it takes a modern game to compile shaders. What I think I'm really chasing is a multiplayer experience utterly stripped of battle passes, timed seasonal events, currencies, or different colored pants.

Tweaking a server setup for an older shooter serves as a blatant reminder of what we've given up for the sake of graphical fidelity and speedy matchmaking, too. AMP's Unreal Tournament 2004 module comes preconfigured with 126 maps for 11 different modes. I can type in a mutator to enable instagib or change up the gravity, completely altering the experience. Maybe in another 20 years I'll get sick of this bounty of official maps and go perusing the quintillion custom maps and modes still surviving on Unreal fansites, ready to extend this kitchen sink of a shooter into infinity.

I know ultimately these servers won't get a ton of use—I don't expect to pull all my friends and colleagues away from the new and shiny for more than a novelty match here or there... then again, if they don't read this, they'll have no idea how easy it all was to set up, and I can guilt them into playing 20-year-old shooters with me every week.

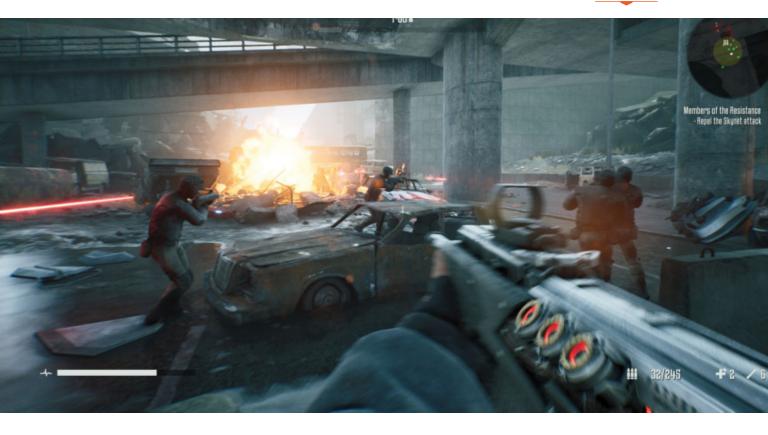


RIGHT: Soooo much easier than the command line.









TERMINATOR: RESISTANCE

Revisiting Teyon's game after Robocop: Rogue City. By Rick Lane

ditched Terminator: Resistance soon after starting it back in 2019, writing it off as vet another dismal movie tie-in from Polish developer Teyon, creator of 2014's lambasted Rambo: The Video Game. But after enjoying RoboCop: Rogue City late last year, I wondered whether I'd been too quick to dismiss Teyon's earlier work. While no masterpiece, Rogue City is a faithful and thoughtful adaptation of Verhoeven's film, one that does a good job of embodying you in Alex Murphy's metal exoskeleton. And although Resistance was fairly well panned by critics at the time, it has garnered a 'Very Positive' rating on Steam in the years since release.

Hence, Terminator: Resistance seemed ripe for reappraisal. And having now returned to its depiction of Terminator's blighted future, it is a better game than I gave it initial credit for, but nowhere near as much as its Steam reviewers would have you believe. Like RoboCop, it earnestly attempts to bring the fiction of the films it is based on to life. But it is far less successful, mostly demonstrating how far Teyon has come in the last four years.

As I mentioned. Terminator: Resistance focuses on the aftermath of the nuclear holocaust caused by Skynet on August 29, 1997, when the remnants of humanity are locked in a struggle against the machines. You play as Jacob Rivers, a private in the Resistance who has been specifically targeted by Skynet for reasons unknown.

On the face of it, this is a smart choice of setting for a Terminator game. Post-apocalyptic Los Angeles

TOP: Resistance is at its best when it pops off, though this is sadly rare.

was only ever glimpsed in the first two movies, and the attempts to explore it further in the films have been thoroughly half-baked. Cameron's vision is striking and distinctive in a way that no Terminator film since has replicated, and if you recreate it in a videogame, you'd be well on the way to a winner.

In this regard, the opening minutes of Resistance show promise. The game kicks off with Rivers in hard retreat from the Californian town of Pasadena, where his division had been wiped out by the Annihilation Line, Skynet's rolling frontline of Terminators directed to crush the Resistance. It sees you crawling through the wreckage of what was once idyllic southern California, evading the laser-red eyes of skeletal T-800s. Teyon is clearly keen to evoke the chaos and desperation shown in the opening minutes of both Terminator films. Resistance has the same indigo tinge to the night, the same devastated

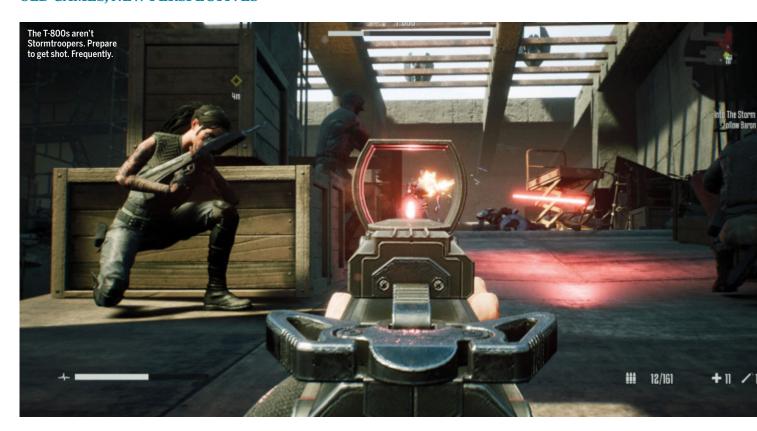
NEED TO KNOW

November 14, 2019

PUBLISHER Reef Entertainment

DEVELOPER Tevon tevon.com

OLD GAMES, NEW PERSPECTIVES



landscape illuminated by fires. It even directly mimics the first proper scene in the film, a T-800's foot crashing down onto a human skull.

Yet where Cameron conveys the horror of these scenes wordlessly. letting the imagery do all the talking, Resistance's intro is stuffed with dialogue. And it is rotten. The first characters Jacob meets in the game are the young scavenger Jennifer and her juvenile brother Patrick, who set the low standard for Resistance's writing and acting. Jennifer's VO isn't the worst, but her bug-eyed stare makes it hard to take anything she says seriously. Patrick, meanwhile, is possibly the least-convincing child ever depicted in a videogame, his gruff, monotone voice very obviously emerging from an adult's throat.

POOR CHARACTERISATION

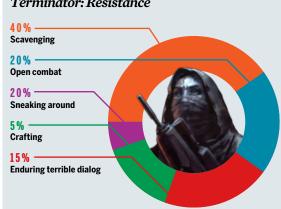
Normally, poor characterisation wouldn't be a huge problem in a shooter, but *Resistance* leans hard into narrative storytelling. Every mission is bookended with scenes where you must talk to fellow soldiers and survivors, and every character is hard work, whether it's old Judgment Day survivor Ryan prattling on about the past, or your commander Baron tiresomely

demonstrating what a hardass she is. The game also tells you that your narrative decisions matter, and your relationships with characters are affected by these choices, which means you need to listen to their dull life stories if you want to see the best ending the game has to offer.

Resistance also takes a long time to get going. Instead of being a straightforward linear shooter, many

LIFE IN THE RESISTANCE

Here's how you'll spend your time in
Terminator: Resistance



of its levels are semi-open affairs that blend stealth and survival systems with the basic shooting. You're encouraged to scavenge resources from dilapidated stores and crumbling apartment blocks, while maps are designed to let you choose between sneaking around enemy patrols and engaging in combat.

The intent is clearly to emphasize your underdog status, forced to eke out your existence off scavenged resources, and utilize guerrilla tactics against the machines. Unfortunately, neither of these activities are especially interesting. Resources are so abundant that scavenging quickly descends into walking into buildings and mindlessly hoovering up whatever you find. The stealth, meanwhile, is undermined by the fact that the enemies you're sneaking around are just a bit rubbish. The opening level has you fighting floating drones and mechanical spiders that are laughably easy to kill.

Combined with the droning dialog, *Resistance*'s opening hours are stilted, empty and devoid of pacing, nothing like the taut cinematic thrillers it's based on. Things improve a bit once Teyon introduces proper Terminators. One of its best sequences sees you





ABOVE: STOP STARING AT ME.

RIGHT: Darn it, I'm always getting Terminators and cars mixed up!

FAR RIGHT: That face looks familiar...





sneaking through an abandoned hospital prowled by T-800s. At this point in the game, your weapons are ineffective against T-800 armor, so if you get spotted, you're dead meat. It's the closest *Resistance* comes to evoking the dread of the first two films, as you press yourself into corners desperately hoping those metal monstrosities don't see you. Shortly after this, though, you unlock your first plasma weapon, and the T-800s become just another enemy in your way.

It's a shame Terminator: Resistance doesn't maintain the mystique of the T-800s for longer. But it does mean Teyon can start escalating the action, interspersing its open-ended scouting missions with more linear shooting galleries. When these missions are in full flow, they're pretty fun. One example sees you take on the Annihilation Line in downtown Los Angeles, and it effectively communicates the appalling odds faced by the Resistance. Alongside hordes of T-800 footsoldiers, you must contend with mech-like T-47s, HK-Aerials strafing you overhead, and huge rocket towers bombarding your position with screaming ordnance.

YOU MUST CONTEND WITH **MECH-LIKE T-47S. HK-AERIALS** STRAFING YOU OVERHEAD

IMPRESSIVE SPECTACLE

Visually, *Resistance* is generally archaic. But one thing Teyon is good at depicting is explosions. Even the smallest enemies go out with a bang, so when there are grenades flying, rockets dropping and T-800s combusting across an entire battlefield, it makes for an impressive spectacle. It also helps obscure the fact that the actual combat is fairly basic. Battling the machines mostly boils down to peeping around a corner and letting off a few shots with your plasma weapon before your enemies shred your health bar. Beyond the odd well-judged grenade throw, there's no real skill or dynamism to the fighting.

There are some fun moments in Terminator: Resistance. but they require considerable patience to be enjoyed. This is partly down to a simple lack of quality, but it's also clear that Teyon struggles to find the balance between staying true to its setting and delivering the action

demanded by a shooter. Scavenging for resources amid the rubble is interesting in theory, but tedious in practice. At the same time, gunning down T-800s by the dozen dispels much of their power, which is why Cameron's films only show us the war against the machines for a few minutes apiece. A better approach for a Terminator FPS would be to cast the player in the role of Terminator, as their relentless, destructive nature makes them a much better fit for an FPS protagonist. This is essentially what Teyon does for RoboCop, and it makes for far more entertaining shooting experience.

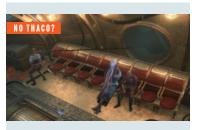
Terminator: Resistance isn't some flawed gem. It's just flawed. That said, it isn't entirely without merit. Every time I started to lose my patience with its turgid levels or excruciating dialog, my character would level up, and the game would play the iconic drum beat from Brad Fiedel's soundtrack. Whenever that happened, it reminded me of how much I like the idea of this game. even if the reality doesn't quite line up with it. This would keep me going long enough to reach the next part of Terminator: Resistance that was actually worth playing, and I'm glad I experienced those moments.

NOW PLAYING | UPDATE | MOD SPOTLIGHT | HOW TO | DIARY | WHY I LOVE | REINSTALL | MUST PLAY

TED LITCHFIELD



It's a cold, wet time of year so why not while it away with games? There were so many good ones last year, there's bound to be a few you missed.



BALDUR'S GATE III

baldursgate3.game

→ Larian's follow-up to the longdormant Baldur's Gate series went a little under the radar in 2023, but its lack of critical and commercial success was just criminal if you ask me. Continued additions like a permadeath mode and new endings make it a great time to jump back in.



PICAYUNE DREAMS

bit.lv/4aTEvcG

→ There have been a lot of mediocre Vampire Survivors-alikes, a few good ones, and now: Picayune Dreams. I loved the demo for this story-heavy, sci-fi take on a 'bullet heaven' shooter, and have the full game lined up on my Steam Deck for when I finally stop playing Baldur's Gate III.



MYHOUSE.WAD

doomworld.com

→ A lot of new stuff on the *Doom* engine tries to bowl you over with graphical or artistic grunt. Myhouse instead uses a simple, familiar concept, "I made my house in Doom," to convey this enervating tale that just runs roughshod over any '90s nostalgia you have left. It rules.



THIEF: THE BLACK PARADE

ttlg.com

→ It's a better time to be a *Thief* fan than at any point since the year 2000. Arkane's still doing its thing, Gloomwood and Serpens offer indie alternatives, and now a talented mod team rooted in the TTLG forums has released a ten-mission campaign that rivals the official series.



THE BEST GAMES YOU CAN PLAY RIGHT NOW



LUNACID

store.steampowered.com/app/1745510/Lunacid

→ I got a good way into this first-person RPG inspired by FromSoftware's PS1 and PS2 classics, but I've been meaning to revisit it on my trusty Steam Deck. Dripping with atmosphere and turn-of-the-millennium polygonal vibes, it nails that sense of mystery.



SLAYERS X: TERMINAL AFTERMATH: **VENGANCE OF THE SLAYER**

bit.lv/4aRc3IA

 \rightarrow Slayers X is a spinoff of Hypnospace Outlaw, presenting as the artistic creation of one of that game's more memorable characters, a lovable nu-metal doofus named Zane. The result reminds me most of shooters like Duke Nukem or Blood.



PATHFINDER: WRATH OF THE RIGHTEOUS

bit.lv/48Fkzsm

→ 180 hours of this game buoyed me through getting Covid for the first time, and I've been meaning to revisit it for a while. A classic CRPG romp, it makes for a crunchier second course if your Baldur's Feast still left you hungry for more.



DUSK

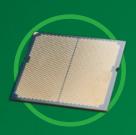
store.steampowered.com/app/519860/DUSK

→ The game that put publisher New Blood on the map and helped cement the boomer shooter renaissance got a fresh coat of paint. Dusk HD cheekily upgrades the game from PS1-era edge to PS2-style chunky smoothness, and the shooting's as great as ever.

HARDWARE

GET THE PC

DESERVE



GROUP TEST

Six top AMD and Intel gaming CPUs reviewed.

TECH REPORT

How esports professionals saved PC peripherals.

106

TECH TALES

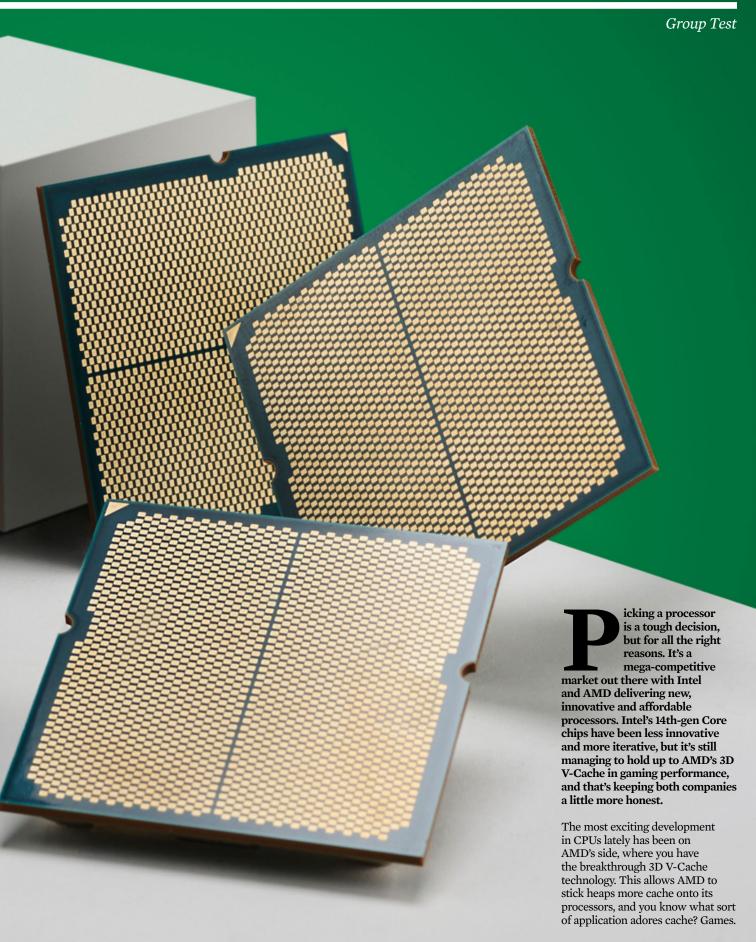
The reality of gaming on a CRT screen in 2024.

BUYER'S

GUIDE

Build a great gaming PC no matter your budget.





Group Test







Ryzen 7 7800X3D

AMD **\$450**

Cache, cache baby

This is the best gaming processor AMD has ever produced. We don't say that lightly, as lately AMD has been on a roll with excellent CPUs. However, this chip is different in one very important way. The key to its success is something called 3D V-Cache. 3D V-Cache is a manufacturing technology that allows AMD to bond an extra 64MB of L3 cache right on top of a CPU's cores. The reason why you might want that extra cache close by to your processor cores is clear when you look at gaming benchmarks. In F1 2021, the 7800X3D is 33% faster than the

7700X—both CPUs have the same Zen 4 cores, eight of them apiece, and the 7700X is able to boost quite a bit higher. But it still loses that fight. Not every game will respond quite so well to 3D V-Cache, but generally the 7800X3D is faster than the 7700X. However, the real miracle of V-Cache is in how little power this chip needs. The 7800X3D peaks at just 81W whereas the 7700X gobbles up 143W. This chip is diabolically good.

PC GAMER VERDICT

- → 3D V-Cache
- → So efficient
- → Runs cool

SPECS CORES: 8 / THREADS: 16 / ARCHITECTURE: ZEN 4 / L3 CACHE: 96MB / TDP: 120W / SOCKET: AM5

Core i7 14700K

INTEL \$409

Do it all

If you're building a high-end gaming PC, the 14700K is really all you need. I know you want a Core i9, but consider this: Intel has stuffed four more E-cores onto the 14700K than the previous gen Core i7, meaning it's now only four short of the Core i9. It's practically a match in terms of gaming performance and it's awfully close in multithreaded benchmarks—why spend more?

The 14700K is a genuinely impressive chip, and one of two 14th-gen processors worth buying over its 13th-gen counterpart (the other being the 14700KF). It will happily trade

blows with AMD's Ryzen 7 7800X3D in games and wipes the floor with it in Blender or other applications that favor lots of cores. This fantastic blend of gaming and multithreading is thanks to Intel's hybrid architecture. This chip comes with eight Performance-cores and 12 Efficient-cores, 28 threads in total, which can make short work of most workloads. However this chip's high power draw does push me to AMD.

PC GAMER VERDICT

- → Multithreaded champ
- → Great for gaming
- → Hot and hungry

SPECS CORES: 8+12 / THREADS: 28 / ARCHITECTURE: RAPTOR LAKE REFRESH / L3 CACHE: 33MB / MAXIMUM TURBO POWER: 253W / SOCKET: LGA 1700



Ryzen 9 7950X3D

AMD \$699

No messing

This is a great chip to show off what 3D V-Cache can do as you can pick this chip up with 3D V-Cache or without. If you're wondering which one is for you, however, it's gotta be the one with extra cache and heaps of gaming performance.

The 7950X3D is demonstrably quicker than the standard 7950X in games. Often it'll trump Intel's top 14th-gen chips, too. Unlike the Ryzen 7 7800X3D, it also absolutely slaps for multithreaded performance thanks to all those Zen 4 cores, yet it's also very efficient. It's absolutely the chip to go for if

you're building a high-end rendering and gaming rig.

So what's the catch? That would be the price. This chip does not come cheap. It makes Intel's top Core i9 look affordable by comparison and is more or less equal to the price of a high-end graphics card. But it is the sort of chip you could stick with for a very long time, and it's definitely one of the best, which makes it a worthy investment for those that can afford it.

PC GAMER VERDICT

- → Tons of threads
- → 3D V-Cache boost
- → Expensive

SPECS CORES: 16 / THREADS: 32 / ARCHITECTURE: ZEN 4 / L3 CACHE: 128MB / TDP: 120W / SOCKET: AM5

Core i9 14900K

INTEL \$589

Overkill



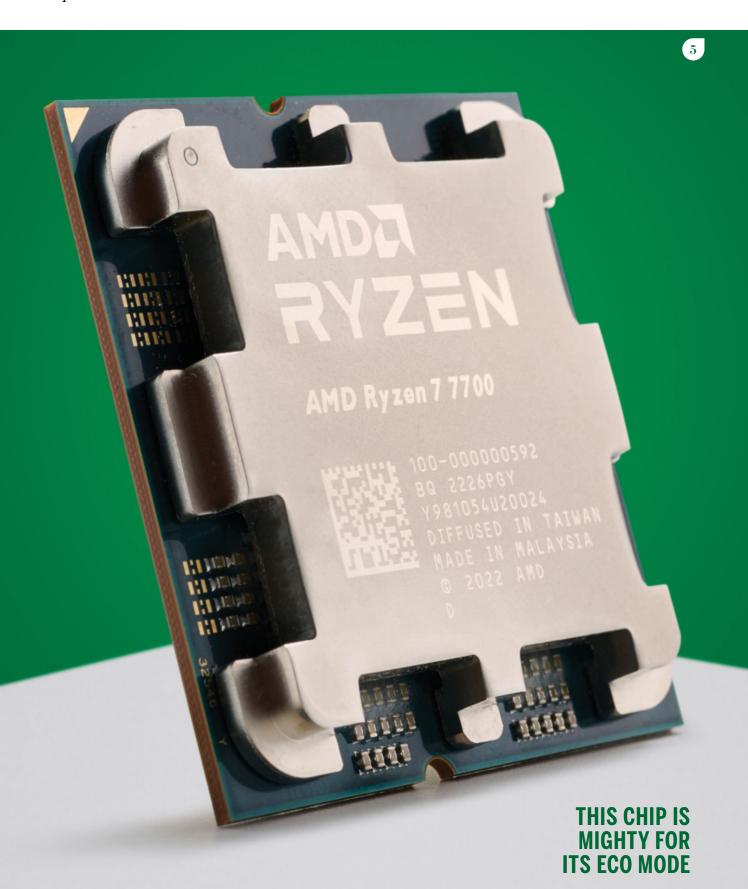
performance boost. The important factor is price. The 14900K is no more expensive than the 13900K was at launch and will make for an almost like-for-like replacement. The tricky bit is that, for the time being, the 13900K remains the cheaper chip as prices have dropped on the last-gen chip. With no real killer features exclusive to the 14th generation, I think your money is better placed on the original.

PC GAMER VERDICT

- → One of the best
- → Great for high-end rig
- → An i7 would do

SPECS CORES: 8+16 / THREADS: 32 / ARCHITECTURE: RAPTOR LAKE REFRESH / L3 CACHE: 36MB / MAXIMUM TURBO
POWER: 253W / SOCKET: 1GA1700

Group Test



Group Test



HYBRID, CHIPLET, 3D... WHAT DOES IT ALL MEAN?

Hybrid

You'll hear hybrid bandied around by Intel in relation to its architectures from Alder Lake onwards. The more widely used term is heterogeneous computing, which refers to a chip that's made up of various different kinds of processor core.

3D

Chip stacking is all the rage today. This is thanks to new manufacturing technologies that allow companies to build silicon on top of other silicon.

Chiplet

AMD has been using chiplets since Zen 2, but these are discrete slices of silicon usually sitting next to each other and talking to one another through some form of interconnect. In the very latest chips, chiplet interconnects are used alongside 3D stacked chips to add far more functionality.

Ryzen 77700X

AMD \$399

Eco champ

You could argue the Rvzen 7 7700X is one of the more boring CPUs included in this group test. It has been wholly overshadowed by the 3D V-Cache chips, no doubt about that. But that would overlook the big improvements made to the Zen 4 architecture with this generation. Most of all, this chip is mighty for its Eco Mode. This drops the TDP from 105W to 65W, but you'll barely notice a dent in gaming performance. At worst, with it enabled, you'll see around 95% of the performance, all the while securing lower power draw and lower

temperatures. That means you don't need a massive cooler and have more money in your pocket as a result. If you don't care about saving power, perhaps this isn't the chip for you. It can get shown up by Intel's Core i5s. However, seeing as this 7700X is often found on sale down to within touching distance of the cheaper Ryzen 7 7700, it's certainly worth a look. Perhaps not the best, a good sale puts this chip into contention.

PC GAMER VERDICT

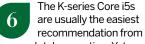
- → Eco Mode is ace
- → Often on sale
- → No 3D V-Cache

SPECS CORES: 8 / THREADS: 16 / ARCHITECTURE: ZEN 4 / L3 CACHE: 32MB / TDP: 105W / SOCKET: AM5

Core i5 14600K

INTEL \$329

Barely better



any new Intel generation. Yet being so similar to the Core i5 13600K that came before it. I feel more could've been done to make the 14600K appeal to gamers. The same price as the 13600K at launch, by my calculations you can find the 13600K around 10% cheaper than the newer model. You might think that's not much to pay for the newer chip, but there's so little to gain by spending the extra money. You get marginally higher max turbo frequencies for both P-cores and E-cores, and

that amounts in my game testing to one or two frames per second more, or even none. You don't even gain access to APO, which doesn't support this Core i5 currently. All reasons why I'd just stick to the cheaper Core i5 13600K. It's not only a great gaming chip but it delivers multithreaded performance thanks to eight E-cores and can outpace AMD's similarly priced 7000-series chips. Why mess with a good thing?

PC GAMER VERDICT

- → Faster than 13600K
- → Doesn't improve much
- → More money

SPECS CORES: 6+8 / THREADS: 20 / ARCHITECTURE: RAPTOR LAKE REFRESH / L3 CACHE: 24MB / MAXIMUM TURBO
POWER: 181W / SOCKET: 16A 1700



PROS AND CONS

How esports professionals saved PC PERIPHERALS

e're familiar with the trope by now: a nervous European kid in a flammable-looking black T-shirt with his esports team logo emblazoned across it, arms folded confidently, endorsing a new mouse, keyboard, or gaming chair. Since peripheral manufacturers realized they couldn't use partially dressed women to sell their gear any more, and slogans alone weren't shifting units, they turned to professional gamers. And it worked.

It's healthy to have a bit of cynicism about this sales tactic. In our heart of hearts, we all know that buying PC gaming gear endorsed by the pros doesn't bring us any closer to pro standard any more than cracking an egg into a pan makes us Gordon Ramsay. There's something implicitly disingenuous about the whole thing. And yet, esports pros might have saved the peripherals industry. Because although there's been some form of collaboration between pro players and manufacturers for decades, it's only within the last ten years that the power has really laid in the pros' hands.

Throughout the 2000s and 2010s, esports athletes were used as little more than box art and press release fodder, and by the end of the 2000s we were headed in some incredibly silly directions.

It started as a well-meaning push for player customization. Logitech started that ball rolling with the G5 mouse in 2005, the first customizable mouse to hit the gaming market. The all-conquering Mad Catz RAT followed, which let you dial in your preferred weight, width and length. The tacit message in all of these products was that tailoring peripherals to your desires made you a better player. A completely unproven notion, and one that'd be next to impossible to quantify—but it did at least come with a consumer benefit. Customizable gear allowed for more comfort and convenience.

PERFECT STORM

The perfect storm hit in 2009, when RGB lighting arrived in mice and keyboards. We first saw it in Roccat's original Kone Pro mouse (hats off to the manufacturer for so many innovations over the years, incidentally). Suddenly our desktops took on a new complexion. Not only could the peripherals that sat on it be customized for function, but now for visual appeal too.

Some elements of that thread have continued into the present day, of course. Gaudy lighting has set up camp right at the center of PC gaming, and we're so accustomed now to tweaking both the look and feel of our gear that it feels like an egregious omission when we can't customize our mouse's lift-off distance. However, thanks to the pro



Talking Slang

Gaming peripherals began with the Razer Boomslang in 1999. It wasn't created in collaboration with pros, because there were precious few pros around at the time. It was, however created to cater specifically to a gamer's needs. That meant that instead of a rubber trackball at the base and a PS/2 connection at the end of its cable, there was an optical sensor and a USB connection. There were also, rather famously, a pair of enormous left and right mouse buttons. All the better to frag you with.

Tech Report





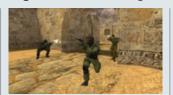
FAR LEFT: Pro gear like Steelseries' Rival is wonderfully simple.

LEFT: This lot don't need RGB on everything they touch.

IMMORTAL PIXELS Four games that made esports mainstream



QUAKE IIIA good spectator sport that hosted some lavish tournaments. John Romero put his Ferrari up as a prize in one of them.



COUNTER-STRIKE

A more enduring fanbase than the Rolling
Stones, and a simple concept with
decades of tacticam depth to explore.



LEAGUE OF LEGENDS
Riot's MOBA brought in huge numbers with its F2P model, and led the way for broadcast tournaments.



FORTNITE
It might not have been originally intended
to be an esports juggernaut, but that's
what it became.

collaboration movement, the features on our products are nearly always useful.

Between 2010 and 2015, esports gathered momentum. Competitive gaming's market size grew from about \$100m to \$500m between 2010 and 2016, fueled by releases including *Dota 2* and *Overwatch*, and the evergreen appeal of *CS:GO* and *LoL. Dota*'s internationals started to hit a million peak concurrent viewers in the 2010s, then kept going. Esports was big enough to change gaming culture, and manufacturers spotted the aspirational dimension to it.

So they started to collaborate with pro players to create new models. These weren't just monitors or keyboards with vague 'endorsements' emblazoned across them—they really did ask pro players for the features that they wanted, and the changes they needed. Then they went away and made new products.

ESPORTS WAS BIG ENOUGH TO CHANGE GAMING CULTURE

Pro headset was so proud of its 60mm drivers that it encased them inside transparent earcups, as though the size of them alone was evidence of superior audio. Keyboards were appearing with extra dials and macro buttons all over them, and a dedicated phone holder too. It was a clear case of marketers telling us what they thought we wanted.

But the pro lines—Steelseries' Rival, Logitech's G Pro, Razer's Esports Line and the rest—showed us categorically what gamers actually wanted. There was no

arguing with the exacting demands of the best pro gamers in the world, and what they all have in common is minimalism. Pro keyboards tend not only to ditch macro banks, they're often also tenkeyless and with minimal media controls. Mice are almost always very simple ambidextrous shapes with simple five-to-seven button layouts and a focus on the

quality of the optical sensor within. Headsets drown out the ambient room noise and give a good stereo spread without drenching the sound in bass like the headsets of yore used to. Even RGB, the flag stuck in the earth of PC gaming, has become more restrained in recent years. It's a big battery drain on wireless devices and you can't see the fancy RGB lighting on a headset while you're wearing it. So: bin the lighting zones.

What might present-day peripherals look like without the pros' intervention? Undoubtedly more fiddly and unnecessarily elaborate. They've saved us from bad gear, and to that we owe them a debt of gratitude.

Phil Iwaniuk

MARKETING MASTERSTROKE

Steelseries did this especially well. Its Rival range looked almost confrontationally un-flashy, ditching all the RGB and Batman-like swooping lines we'd all grown accustomed to from 'gamer gear' and instead bringing very simple, functional, reliable peripherals to market. It was a marketing masterstroke—it wouldn't have worked to say it had made a new line of products in collaboration with pro players and then launched new gear that looked the same as it always had. The fact these new mice looked so different made you sit up, pay attention, and say to yourself: 'so that's what pros want'.

Before that happened, we were being sold some very strange benefits. Driver size within gaming headsets was an all-out arms race, and bigger was better. Asus' Strix

CATHODE TO JOY

The reality of gaming on a **CRT MONITOR** in 2024

hen I was a child I spake as a child," so it says in the Bible, presumably before the invention of the word 'spoke'. "But when I became a man, I put away childish things." It's true, isn't it: time passes, new hardware arrives and we box up our former treasures, their VGA leads dangling, pleading with us as we send them up to the loft. We forget about them, sometimes for decades, and then we see a TikTok of someone

The monitors accompanying those dusty old machines,

nostalgic. In fact, there's a hardcore minority in gaming

There's a reason they got the boot off our desks in the

though, are a different matter. Their value isn't purely

that swear CRT screens are superior in many ways to

first place. They took up vast amounts of space, and moving them even an inch required at least three

powerlifters and a sweaty afternoon of dedicated effort.

They were eye-wateringly expensive, not especially reliable,

and repairs were a confusing ordeal. It was like outputting

What nobody ever called into question, though, was

image quality. CRT monitors hold numerous advantages over

modern screens, including bright colors, responsive refresh

rates and a natural quasi-anti aliasing effect that occurs as a

playing a Windows 95 game, feel an overwhelming urge to do the same, start Googling and realize that the old desktop PC we boxed up and banished in 2001 is worth a thousand bucks now on eBay and there's a whole community of collectors with alerts set up for every possible listing about them.

modern flat-panel monitors.

your display onto an aquarium.

THERE'S A REASON THEY GOT THE BOOT **OFF OUR DESKS IN**

THE FIRST PLACE

OLED pixels are all individually controlled, CRT pixels are backlit in a way that's more like shining a torch behind them to produce the image. That means CRT can't compete with OLED panels for contrast, since the latter can turn individual pixels off to achieve nice inky blacks, but it deals with noisy images and jagged edges beautifully by blurring them.

LOOKING... CORRECT

The effect is that older games somehow just look 'right' on CRT monitors, in a way that our contemporary flat screens

> can't replicate. That was certainly this writer's experience when I finally sourced a 17-inch Packard Bell monitor of the same spec I'd had in 1998. plugged it into my Win98 PC and recognized classic games looking exactly as I remembered them. This is why people pay hundreds of dollars (plus steep shipping costs, these things are heavy remember) on dead tech. The

likes of Quake, Planescape: Torment and Grim Fandango hit your eye looking... correct.

And there's a good reason for it—developers of the '90s used to actively lean into CRT's limitations to achieve a better image. They knew that if they purposely created noisy textures, they'd appear blurry on CRT screens, so they used them on water and fog effects. They drew textures knowing that the sharp contrasts between colors would be smoothed over by the ruling display tech of the day. And let's not forget, CRT monitors dominated workstation desks too, so the texture artists were drawing them on the same giant glass boxes that gamers used to play them.

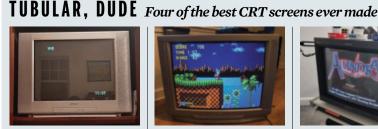
And that's why things look a bit wrong when you load up an old classic on GOG and run it at 1080p on your 32-inch IPS. The textures were never supposed to appear this sharp. The contrast was never intended to be this severe. There's nowhere for the hardware limitations of the time to hide, it's





Proud luddite Phil Iwaniuk takes twice as long to submit his articles as our other freelancers. We don't mind that they're handwritten, but the wax seals are a bit much.

by-product of cathode ray tube technology. While modern



SONY TRINITRON

Once ubiquitous in offices and computer shops everywhere, Trinitrons were always pin-sharp by CRT standards and featured incredible color reproduction. If you see one on eBay: buy it.



JVC D SERIES

Wheeling out a massive old TV to play on is even less practical than retro gaming on a CRT monitor. You get gorgeous colors and richness of image though, and this one's famed for console gaming.



BROADCAST MONITOR

Yet another flavor of CRT goodness, this time distilling Sony's Trinitron screen tech into a professional broadcast monitor once used on film sets.



SONY PVM-4300

A legendary 40-inch model that weighed over 400lb. Like gaming upstairs, do you? Good luck. Still, devotees are always on the hunt for examples of this CRT white whale.



all just laid bare for you to see, preserved and exhibited unnaturally in a tank full of virtual formaldehyde.

However, there are drawbacks to committing so wholeheartedly to retro PC gaming. If CRT monitors were prone to a breakdown in situ, you can imagine how delicate they've become three decades later, after an extended stay near the holiday decorations up in the fiberglass-strewn attic and a whistlestop tour of the UK in the back of a DPD van. Mine likes to turn itself off. I don't know why, and I have no hope of repairing it. My solution is this: when the display abruptly goes black, I turn it off, wait for that de-static sound (you remember the one) and then turn it back on again. And that works, for now. But I dread the day when it won't.

The cold, sad truth is that it's worth stockpiling CRTs, because they will break, and replacement parts are extremely rare. For most people the expense and impracticality just doesn't make the authentic fuzziness and bright colors seem worth it. To the faithful though, going back to flat panels for our retro gaming simply isn't an option.

Phil Iwaniuk

ABOVE: Once hopelessly unfashionable dead tech, CRTs are sought after again.

RIGHT: Yours for about \$2,000 courtesy of some stranger on eBay.







BUYER'S GUIDE

Build the best PC for your budget



KEY

Budget build

PC gaming is for everyone. Pick the parts you want to build a new, well-rounded PC for a good price.

Mid-range build

You want to run every new game at 1080p 60fps. This recommended build will see you through.

Advanced build

You're looking for the best PC on the market and superior components. But you still want to spend smart.

Buyer's Guide

BUDGET BUILD

Enjoy 1080p gaming without breaking the bank



TOTAL \$1,106



B660M Pro RS

ASRock \$100

This is as cheap as we want to go while still offering room for expansion and upgrades down the line.



GRAPHICS CARD

COOLER

MEMORY

POWER SUPPLY

SSD

CASE

MOTHERBOARD



Core i5 13400F

Intel \$208

Intel's added four more cores to its entry-level Core i5 and it's become even more fantastic value.

GeForce RTX 4060

Nvidia \$300

The cheapest way to score Nvidia's latest gaming architecture and DLSS 3 support.



Laminar RM1 (included with CPU)

Intel Free

There's room for an upgrade here, but on a budget the included CPU will work just fine.



T-Force Vulkan Z 16GB

Teamgroup \$33
Goodbye 8GB, hello 16GB of speedy DDR4-3200.



Pure Power 12 M 550W

Be Quiet! \$95

We have to run a 550W PSU for the RTX 4060, as per Nvidia's recommendations.



WD Black SN770 500GB

Western Digital \$33

It's finally time to ditch SATA and go for an NVMe drive even in a budget machine such as this.



WD Blue 1TB 7200rpm

Western Digital \$32 (not in budget)

You don't need an HDD (we haven't included it in the total cost) so feel free to cut this to save cash, but one sure helps with storage.



Zauron

Aerocool \$60

This Aerocool will let your components breathe and has space for further expansion and cooling.



Mobiuz EX240

BenQ \$160

You can get an excellent gaming monitor for not a huge sum of cash nowadays, and this BenQ is our favourite on a budget.



KM250 RGB

G.Skill \$40

It's actually mind blowing what you can pick up for this little cash: A hot-swappable mechanical board that looks lovely.



G203

Logitech \$30

A classic shape delivered in a sleek shell, this mouse fits all hand sizes and grips.



HS55 Stereo

Corsair \$47

Corsair's budget cans are comfy and have a surprisingly excellent microphone for the money.



Buyer's Guide

ADVANCED

Go above and beyond with a PC powerful enough to end worlds



\$5,739



MEG X670E Ace

There are cheaper X670 boards than this, but we're going extreme and this is one of the most fully featured around.



PROCESSOR

COOLER

MEMORY

POWER SUPPLY

DATA DRIVE

CASE

Ryzen 9 7950X3D

AMD's 3D stacked chips are awesome for gaming, thanks to heaps of cache. This Ryzen 9 is the best of the bunch



GeForce RTX 4090 Founders Ed

The RTX 4090 is immense, in every way. The performance it offers is unmatched by any GPU out there.



Kraken X63

One of the most stunning AIO coolers rebuilt with an updated pump, LGA 1700 bracket, and RGB lighting for more pizzazz.



Trident Z5 RGB 32GB

This is a new memory standard for a new era of memory speed. DDR5 is blisteringly and fantastically quick.



Prime TX-1000

Seasonic \$310

An ATX 3.0 PSU would also be good here, but we've tested this Seasonic and know it's worthy of such a build.



WD Black SN850X 2TB

Western Digital \$120

We're sticking with PCIe 4.0 here, and WD makes a mean PCle 4.0 SSD. The SN850X is its best to date, and 2TB is plenty.



NM790 4TB

Lexar £189

With 4TB of storage, it's going to take one seriously big Steam library to get anywhere close to filling this drive up.



5000D

Corsair \$155

We swear this stylish mid-tower is bigger on the inside. It's the PC equivalent of



34 QD-OLED (AW3423DWF)

Alienware \$1,099

You could be much more sensible on your screen than this. For this build, however, we only want the best.



ROG Azoth

Asus \$240

This keyboard's secret? Lubed switches. Don't knock it until you've tried it. It's also wireless and very well made



DeathAdder V3 Pro

With a lengthy battery life and a phenomenal sensor to keep you gaming at your best, the G502 is undoubtedly one of the finest.



Cloud Alpha Wireless

HyperX \$15

If you've settled on a wireless keyboard and mouse, the last thing you want is a pesky cable to your headset.

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Email: help@magazinesdirect.com | Tel: 844-779-2822 | www.magazinesdirect.com

DISTRIBUTED BY Marketforce, 5 Churchill Place, Canary Wharf, London, E14 5HU | www.marketforce.co.uk

BACK ISSUES Tel: +44 344 848 2852 | www.magazinesdirect.com

ISSN: 1470169

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MEET THE INQUISITOR

Holy Inquisitor of the Church of PC Gaming, JOBERT RONES, hunts out console gaming heretics throughout the land by enforcing the faith's key commandments.

Malleus Ludus Console Histriones

(Trans. 'The Hammer of Console Game Players')

- 1 Thou shalt have no other faith before PC gaming
- Thou shalt not suffer a gamer to play on console
- Thou shalt not participate in heretical console wars
- 4 Remember the PC Gaming Show day, to keep it holy
- **5** Honor thy PC gaming father, Gabe Newell
- **6** Thou shalt not make unto thee any graven console image
- 7 Thou shalt not covet console gaming hardware
- 8 Thou shalt not steal thy fellow PC gamer's accessories
- 9 Thou shalt read PC Gamer magazine monthly
- $10\,$ Carry Steam Deck upon thy person when abroad

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