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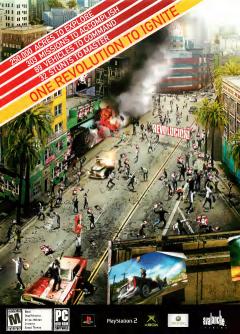
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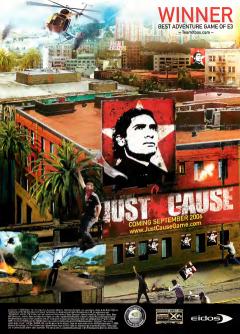


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COVER STORY VALVE

What's the deal with Team Fortress 2? How sick is Portal? What's next for Gordon Freeman in Half-Life 2: Episode Two? All great questionsyou'll find some answers in this month's cover story!

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Can you hear it? Do you feel it? Change is com-

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out from his gross-country excursion to explain.





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STRONGHOLD

edieval world of Stronghold. Phy as King Arthur and his Knights the Round Table, Count Vlad Dracul, or the mighty Siegfried ize control of 3 vast kingdoms and beco

























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To all you eitist bastards who insist on playing names in hard mode: Shaddup. To everyone who plays in easy mode: You're not alone.







THIS MONTH ON JUP.COM

BOARDS.1UP.COM BOARDS, TUP.COM
Had enough of our nonsense? Come to our
official message boards end let us know!
CGW's official forum is a greet way to get
in touch with the editorial staff and scores
of hardcore PC gamere.

CGW-RYAN, 1UP.COM

Teke o pock at one miki-m and all things Sam & Max



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ARKANI



J.G. PHONE HOME

Missive from a wandering editor



Where am I again? Can someone remind me? It's not that I'm suffering from old-man memory loss...it's just that during the entire production of this month's issue I've been on the road. Even as I type this now, I am sitting on e plane

bound for good of Austin, Texas, far away from the goo ship Computer Gaming World in San Francisco, Califor Why you should cere about this—other then the fect that we've always been close, you and I—is that my travels are directly related to the future of this maga.

translate and desired personal control of the comparison of the co

adpart if it sucks, blame the other guys And if it's great, as I suspect it is, thank my awascene stall—who elweys has my back, whether I'm in or out of town. Turn the page, and lat's see what's up. /JEFF GREEN sorron-se-









... Xode Bucce has been in more than 14 powing—a sturny, considering be's been in more than 40 since 1975.

... I beoght my first home; reaved or from Lumis left; been back to Now Zealand; and, to peak, played, securities the a willow corner.

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SUBSCRIPTIONS





IN 2005, A SINGLE WORD IGNITED THE WORLD OF GAMING LIKE NEVER BEFORE.





THE F.E.A.R. CONTINUES OCTOBER 2006 whatisfeer.com



LETTER OF THE MONTH









Let's out the gow manure: August 2006 issue. Sam & May cover story, Page 70, Photo of CGW staffers Ryan Scott, Michael Jennings, Darren Gladstone, and Sam & Max crestor Steve Purcell, Well. .. I was just thinking maybe you could be friendly ours and send me one. of those good "prototype" CGW covers that Mr. Purgell drew for this issue? I promise it.

You mean those prototype covers up on top

In the article "A Separate Peace" from CGW

states, "I gan't regily think of anything long-

#265, Matthew Guzenda of Crystal Dynamics

term that a PC will be able to do that a console

won?." Does this mean I can look forward to

will be the Ancient of Ancients! The Artifect of Alfred Chou

Don Voge

the console's only real advantage is that it is a fixed environment: Once a name works, it works on everyone's box. The PC, however, is a dynamic environment, in terms of both hardware and software. It seems to me that if you know that a PC is oping to be original-only land many families have multiple PCs, so that's visible), you could from the OS to a subset of the blogfed thing Windows is now increesing reliability and decreasing resource-hogging. Without all the "features" that support actual productivity apps. Windows could be fight and sleek

So, how about using your builty pulpit to lobby Microsoft for a gaming-only version of its OS? Taking a proportion of PCs out of the systlable. pool for spreadsheets and whatnot would probably raise PC sales (and siphorang PlayStation purchases away from Sony, since they're claiming they're building computers these days...and charging for one). That translates to more occies.

Think about what you're asking for: Do you

really want to have to fork over the cesh for

of Windows name out the cloor, too. Hereit. maybe Dell would fund the development! Keffen should be-ecceptable conduct for a magazine of your caliber. What I'm referring to was most apparent in your Gladstoned column (Honestly, does arryone care how trying it is for this "modern women" to be engaged to a gamer, arrowsy? How many females read this magazine?), as well as your "Overrated/Underrated" feature. However, before we go any further, I should point out I'm not guiltless in this matter, either.

I admit I'm often prone to fling off many of the profanities you list. With that said, I by to refrein, as much as possible, from spouting protonties in the public agora-especially if younger audiences are likely to overhear. Now, I know you do refrain (for the most part) from stating the proferities explicitly (with the exceptions of "opddamn" and "hitch," both of which Longsider unsustable). But honestly, is there arryone capable of reading a sentence who doesn't langer what "T" "in" or "s" "means? Whold any on-staff parents feel comfortable allowing their

kids to read a column like Gladstoned? Not only is the excessive level of profanity puedle and unprofessional, it also makes taking you seriously when you actually adopt a serious tone that much more difficult. After all, why should I even consider your moral stance on an issue fike

game precy when you yourselves tail to exhibit a fraction of the restrant you're advocating? Once upon a time, CGW eptomized journalistic excellence, when it elevated boot above-eather then pendered to-the lowest common denominator

my lads downloading porn on their Xbox? Yes, but only after they've applied for variable-rate mortgages and punched that

Artifactal You have my word.

CONSOLE CONVERGENCE

of the page there?

damn monkey a few times to win an iPod. I was thirling on your August issue's Radar topic of PC-console convergence. As I see it.

SEPARA TE PEACE

yet another version of Windows? White there's an off chance that a games-only edition might

speed things up and prevent o few crashes here and there, it certainly wouldn't be the 'once a game works, it works on everyone's box* answer Hardware's the real sticking point: With so many processors, motherboard architectures, videocards, soundcards, and drivers. It's impossible for game days to design for every possible combination. PC gaming's strength and its weakness.

F***ING DAMMITE

White paging through the August 2006 issue. I became acutely aware of the grafultous amount of cursing that filled your copy. In my opinion, you have straved over the line of what is-or what

Sorry, Trevor. We f""ed this one up big time.

ASK, AND VE SHALL DECEIVE Will you grays run a story in the next issue about Xurm Fortrass 2 (which Velve says is coming with Malf-Life 2: Episode 7wol? A power story, even?

Trever Tunings

Get out of our heads, Dan. GET OUT OF OUR HEADS! Oh, and check out our cover story on all things Valve (including Team Fortress 2)

starting on page 70.



SPEAK UP!

20 > COMPLETE CAMPACIANCE IN

You hate us. You love us. You will send us \$1 million in small, unmarked bills if rou ever went to see your puppy scaln. rove your blind devotion by spewing a botter person for it.



▶ LETTERS

FORTUNE AND GLORY Just want to say thanks for publishing one of my e-maris. It's gotten me some fame where I work! Adam Ruhoff

You're welcome, Adam. Hey, look! Now you're even more tamous!

CH-CH-CHANGES

You should ignore all those losers who complain about the changes to the Wewpoint section. Hey people! If you're so mad, then stop buying the magazinet And do you really think that sending hate mail is going to help? That never works, I can see it now: "Hey guys, someone just threatened us with his unsubscription! Quick, we'd better change it back!" Readers like you are the reasons people who are original and like to think outside the boxlike, say, the writers and editors of CGW-are such a dying breed

FURRY CORNER

Our off-the-cuff commentary about the furry community on the CGW Radio podeast (ogwradio.1UP.com) a while back has kicked off quite the debate. Here's the latest batch of turry-mail. Keep 'em coming!

In response to Schwimmwagen21's letter about furnes from CGW #266. The furry fandom's big on foxes, wolves, and-yes-rabbits. Sheep? Not so much. Furry fans are mostly individualists (or like to think so), and so most tend not to take on the persona of a herd animal unless it has something distinctive about it. Furries have a reputation for being dumb, too-and the whole point of furry characters is that they're what animals would be like if they were sentient. Think "humans in funny suits" (which is what the fur suits are all about I wouldn't say that a "very small percentage" of the fendom support "adult themes," A big market exists for anthropomorphic erotica. though it turns out an even bigger one exists

for nonadult anthropomorphic artwork..., sust like the market for other forms of arti Wow. who'da thunk?

In case you're not bored stiff by the topic, drop by Wiktfur.com-its 4,400 articles on furry fandom should be more than enough to make



REALITY CHEC HIP NETWORK 8/10 GAMESPOT 8.7/10

4.5/5

8.5/10

SAMESAY

22 > COMPLETER CAMING WORLD

doing so Furnes will take special care to tell you how they have "won" an argument at every turn. They will also twist words and logic to appear superior. Remember: Furnes can never



fur grow on the palms of your paws. Nothing on Jessica Rabbit, but look up Shanda the Panda. Omaha the Cat Dancer, and Zig Zag if you want to know about the mer furry equivalents. Laurence "GreenBeaper" Parry

Furries ere known to be imational, quick to anger, easily offended, self-rightsque, and very, very, very drn. Here are some tips and fects for dealing with and arguing with furnes that you may find useful. By knowing how someone will react, you have already won half

4 Speak calmly and clearly, because acting angrily toward a furry will cause it to go into defensive mode and start sprong everything you say. It's much better to stay calm end carefully inform them that they are pervents, Furnes often weve their freedom of

truly win an argument, since at the end of the expression around as an "anything goes" day, when everyone opes home, they are still pass to let them do whatever they want while turnes, end you are not. In this sense, a furry avoiding criticism, but they constantly forget can never put forward a winning argument. A that it also applies to others. They often seek to silence anyone that opposes them or are a furry" is immobile. mocks them, completely missing the irony of

simple rebuff of any argument with "but you There is no such thing as racism against furries, because "furry" is neither e race nor an ethnicity. Furries make a choice to join the furry community and condone its massive

output of disgusting gunk. Marshall Banana





















Group

C 200 Farbers, No. All Phylota Streamed. Also and the Justi lage are tracterioris covered by Justi late section, inc. November Virgins, Grappine Assists and the Fungarish Kop., Deap was and Stream Std. Court in production, and are used with permassion. MOSP

Available Fall 2006









KANE & LYNCH DEAD

How to raise an underground army













NEN



based thed-person shooter that's betting the bank on alled brains. The premise: You play Kane, a "misunderstood" electric chair-bound mercenary who escapes his fate and finds redemption in the underground, at your side is Lynch, a doped-up murderer who might've done in his own family, and an A.I. flash mob to help out with frefighting Rewind to 2003's Freedom Fighters, ID's "what if the Pusicies invaded America?" PC/Xbox/PS2

squad shooter. Three basic commands (attack, fall back, defend your position) directed allies. with minimal fuss, "Freedom Eighters was a good training ground for us," says K&L game director Jens Peter Kurup, who describes K&L's sound-control system as a "sympler" and, at the same time, more trictically complex version of the already-effortless Freedom Fighters scheme. When asked why more developers haven't popied Flohters' system. Kuruo arswers, "We

THE C-WORD aren't sure...perhaps people stick to the 'must

add more features' approach and end up with

something cumbersome."

"Squad members and opposing forces resot to a range of stimuli." continues Kurup, "The most nowerful inputs are perceived threat, feer and fernouser. It's coursel that A.I. marchs malistically. and team tectics vary according to evolving situations-for instance, if the team is outgunned. it'l attempt to leverage suppressing fire in order to advance." Immense effort, in other words, to make players feel like they're fighting the foes

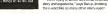
designers intend them to fight, rather than the desire to uninstall suspect software. And that's why Kane & Lynch's next design decision is so surprising: When loose-parmon Lynch has one of his "episodes," he stops obeying your commands. While IO's aim is to add tension to firefights, we question the wisdom of sadding players with a bets*** insone adeleck. What if he's, you know, really, mally appoying? ion't this the same as sanctioning everything IO's

poor A.I. programmers devote themselves to preventing? "We're working hard to avoid that." Kurun says, "The secret lies in your understanding of Lynch's state of mind so that you can serse the onset of an episode. Combine that with a large amount of testing and tweeling, and we aren't

While loony Lynch shares top billing with straight-taced Kane, the balance (at least in

single-player mode) is obviously in Kane's favor. "The mason that Kane is given slightly more focus is that he is definitely the more professional and skillfully trained of the two," says Kurup, "We felt it would weaken storytelling and immersion to be able to rump between Kene and Lynch in single-player. Storywise, we're focusing more on Kane, but only marginally."

"We're trying to deliver an intense cinematic







comprehens. However, when he lists IC/s influences, we understand: "Men on Five, Clear and Present Danger, Mem! Vice, Block Howk Down, Hear," the last of which evokes some perhousely moreorable Serfichts-and Smooths, when all is seed and done, are at Kene & Lynch's heart. "Great tension, real danger, excellent detail, end an epic struggle" define first-rate shootouts, according to Kurup. "A bad firefight is one without risk."

The tension lies in Lynch's unpredictebility. the epic scale in your league of scuadmates. the detail in destructible environments, and the threat-aside from baddles and their bullets-in ammo pickups, of all places. "We're avoidno illogical pickup placement." Kurup savs. Squedmetes play pack mule, and extra supplies are precious. Need a new rife? Swap one with Skippy over there-but don't leave him defenseless. "Weapons, items, and ammo are only available in appropriate locations such as an armory or security office. We're making the resupply problem slightly more interesting," he teases.

"but aren't reach to reveal how just yet." Also adding to the big-screen vibe: no inventory-monagement morus to break up the action. "Menu screens and clutter cen kill immersion."

anya Kurup. FRIEND OF A FRIEND

Kurup extends the movie metaphor to Knne & Lynch's co-op play. "In a sense, it's like watching a film," he says. "You can watch a film by yourself and erroy it, but it's better to share the experience with someone else so that you can discuss it and laugh about it leter That's what

we're after." Cooperative made not only offers the only opportunity to take control of Lynch, it's also your only means of avoiding his off-the-meds fits. Rather than craft a completely separate twoplayer made. Salinter Cell-style. IO is designing. K&L's single-player content to support co-op play-e tough balancing act for the level design ers. "The most important thing is to ensure that you can't just steamfoll through levels in co-op. mode," says Kunio, "We also have to make sure that levels offer elternetive paths for players to try

As for competitive multiplever modes, IO so't talking, although Kurup hints at something more than dime-a-dozen death-matching. According to him, "Competitive multiplayer is important to today's always-connected game communities. and we want to offer highly appoyative solutions. Why make an average multiplayer game? People will play it for an hour and then go back to Counter-Strike or Help," Know your enemy, the saving ages. And if you're Kene or Lynch, you'd be wise to know your friends, too. / Sean Molloy







RAISE AN ARMY. RULE THE WORLD.

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in Chantra's beauty lie adventure, monsters, peril... and plory. For all must submit to the rule of the ArchLord. The Archlord is the player who by cunning, deceit, skill, strategy, and sheer cherisme bests all the other online players. You engage in universal Player versus Player combat or solo missions to level up end onther the skills necessary to dominate your guild. If you wish, you can join massive real

cen go lone wolf and embark on intricate quests (over 800 quest chains!). You gather power and foll And then, when the time is ripe, you challenge the ArchLord. If you're successful, you inherit the title end ewesome powers that will help you rule Chantra and dominate the thousands of

your fellow players worldwide. Of course, your grip on the crown only lasts as long as you can fend off the challengers. Because even now, there is someone out there hungrier... smerter... more driven...

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The rich fact my world of Chantra is the entling for ArchLord, the saw MMORPG that will redefine online guming. Three reces, Ores, Harmons, and the mysterious Moco Elves, with eight different classes, live in this fully imagined environment













BATTLEFIELD

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PREVIEW

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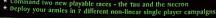




See it as the DVD extras to this issue's or story: Go behind the scenes of Teem For 2. Partial and Half. He 2: Entrade Two

















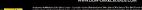


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Epic Games' epically opinionated VP gets real BY DARREN GLADSTONE

40 - COMPUTER GAMING WORLD

INTERVIEW COW YOU'RE DEVELOPING GAMES FOR just about every platform. Where do you see PC gaming now?

Mark Rein; It's et a consequeds. We're in a multiplistform world these days, and you'd think that the Xbox 360 and PS3 would be good things for PC gamero. Next-ceneration games are expensive to make and few outlishers will give developers. the money to make a blockbuster game for just one platform, so the PC seems like an obvious

place to recoup some of the costs. The problem, however, is this: The percentage of PCs sold that are completely inadequate to play those cross-platforms games is using rapidly due to the massive success of intel's strategy to sell complete platforms to system manufacturers. This is causing the proliferation of Intel integrated graphics and is exacerbated by the trend of people moving to leptop systems as their primary computing platforms. It's the same problem-most laptops come with integrated graphics chips, which can't run the games targeted toward next-gen consolers. This leaves only the high-end PC center. and that's not enough of a market to support PC gaming as a thriving industry, in my opinion, intel is to blame. For some reason, they've decided an 5800 PC shouldn't be as capable as a \$300 game. console, even though the cost to them to fix the problem is probably only a few dollars per PC. The bottom line is that the majority of consum-

ers unknowingly buy computers that suck for playing depent games, Intel could easily fix this, but they're not a graphics company, so it isn't a priority for them-even though, in my opinion, it could be one of the best things they could do for

CGW: Wasn't this always a problem, though? People always need to upgrade to play the "latest and greatest" games. MR: No. You didn't need a graphics card to

run Doom if. Every PC in its day could play it. if someone tries to pun Doom 3 on a computer with integrated graphics today, they're likely to be so turned off by the performance—if the game nurs at all-shat they're pretty much lost to us. If the industry can't sell graphically compelling games to a large part of the PC audience, then eventually publishers might decide it isn't worth producon them at all. The decision to abandon the PC gamer will be a lot easier for publishers when Xbox 360 and PlayStation 3 installed been go up. the prices of the consoles drop, and developers start making second- and third-generation games. that take greater advantage of the hardware. It usually takes 18 months or more to make a game. so that time is coming sooner than you think



CGW: How would you fix it?

MR: Well, Intel is domo a great job with the Core. 2 CPU. They're back at the top of the performance pile, and write happy to support them. However, they need to provide a better graphics expenence so that \$800 PCs can run carnes designed for next-gen consoles well enough. so that people might get hooked and consider uporading to higher-end machines. We're talking

about Intel, though, so don't hold your breeth. One possible girmmer of hope is the recent mercer of AMD and ATI. The combined company will be capable of seiling the holy trinity of PC narty: CPU, GPU, and motherhoard chroset. Unfortunately, Intel's Core 2 processor appears to outperform anything AMD ourrently millies. Maybe AMD will registe that they can offset this by selling manufacturers on overall system performance, not just CPU performance. Perhaps they can mate one of the decent midrange ATI prephics chips with a decent-performing CPU. They could kick intells butt in benchmarks that test combined graphics and CPU performance, forcing Intel to either develop a better graphics

ohip or buy one from Nvicka, Maybe this will finally water up intel I can desert, can't I? CGW; It's a good dream, but let's talk games, Gears of War, specifically, it's coming on November 12 to the 350. What's the deal with

a PC version? MRs There is no PC version. This is a 360 came. The 360 binders are furniv on our heads to make the best Xbox 360 game that we could possibly make and to push the 360 as hard as we can possibly push it. If we were trying to make the come on two plotforms, it wouldn't be possible to achieve that. Could Gears come to Windows? Perhaps someday, but not now.

CGW: Unreal Tournament 2007, by comparison, is coming to the PC and the PS3. That donen't push the tech as hard? MR: One of the important design goals of UT is to be the ultimate multipleasy game, even though the majority of players might not ever play it onine. One of the performance challenges with

multiplayer pames is that we have to provide good performance whether there are six guys on the screen at one time or 16. So we have to leave room in the design to ensure that, when the game tills up with players and the action gets intense. the performance is still great. Conversely, in a simple-player-focused game like Gears, we can really push to the edge of the plat-

form because we know how many moresters are going to be onscreen in each scene, how complex each scene is going to be, where you're able to go. We don't know that with UT. People can be all over the man. And, with the transporter, they hop from one rade of the man to the other in no time at all

COW: So how has this affected UT2007's development?

MR: With UT2007, we've scaled back the number of game types so that we can make sure

THIS IS ME. WORRIED ABOUT THE STATE OF DEVELOPERS WHO THINK THEY CAN SURVIVE

BY DOING SOMETHING CRAZY

each one gets enough attention. We're concen-

trating a lot of effort on taking Onslaught, which was hugely popular in UT2004, and moving that forward to an even better, deeper game type. With the upgraded Onslaught game, which we're currently calling "Warfare," we're definitely grving people a deeper experience with some cool objectives, more teampley, and smarter bots. The bots are better teammates this time. They notirally communicate with you. You can actually talk to them and tell them what you want them to clo-

CGW: That's great to hear. One of UT's strengths is its highly customizable bots. Are

there many players who say, "Screw real people-I'll just play against the computer?" MR: To be honest, the majority of people just play against the bots-and that's the dirty little secret of UT. That's why we work so hard to make sure that the bots are really, really good. Not only do we want to have bots able to fill up servers so you can go online and have the whole experience, but we also want you to be able to have a great game experience completely offline And I can tell you right now, we're going to do a better into with the single-player. If it kills me. I will keep pushing for a real, traditional story-based

single-player component to UT2007. CGW: Single-player used to be a ladderedcombat contest. How would you do it differently for UT2007?

MRs in my opinion, we have the tools now in Unreal Engine 3 to make UT both a single- and multiplayer game. UT already delivers several styles of correctly that, bound together with story could produce a very fun single-player name. There are so many one plants in a come like UT-the variety is amazingly compelling. The objective-based nature of the new Wirdsen mode is also suitable for a story. I think we can find a way to satisfy the UT player who enjoys multiplayer yet attil have a good story-driven single-player element for people who are rere to

the franchise

Then there's online. If you do go online, there's so much more you can see, because the commurity takes our tools and builds all kinds of amezing things that we never even thought of doing. Now that we have UnreaTGsmet, our visual-scripting system. It's much easier to do things that were psoviously programmer-intensive. I think you'll see a fot more depth in the mods produced for UT2007-and that's saying a lot, because many of the execting mode for UT2004 are suit amazing.

CQW: Will the single-player game be on the level of a Gears of War? MRs No. I don't see that as our good. I think we

can provide far more depth to the single-player than previous UT games, but we're not looking to make something as deep and intense as Gears. But I still think we gen provide a single-player game that makes you think, "Wow, now that was a ridel" when you've completed it. There's still a long way to go to make that happen, so only?

@RADAR COW INTERVIEW

arms will tell if we pull this off. But let's not forget that most of the people who played UT in the past already think it's a pretty good single-player game, even though what they're playing could be considered a simulation of online play.

CGW: Yeah, the Instant Action matches were always good for a quick fix. MR; I played through the ladder, but since then, I'm like you. I pull up UT a couple of times a month for locks; I just go into Instant Action, I choose a couple of levels I feel like playing that day, and I go off and play. That's my singleplayer I don't really play it online all that much You know, if you sat a non-UT player down at the game and turned off voice chat, he probably couldn't tell if he's playing against bots offine or people online. With bots, you just start the game up, and they're there. The game puts the right number of bots in each level, depending upon what the designers intended for that level, and you can set their difficulty to your living. I think most people are perfectly happy playing the game that way

We want to provide a better experience with each new UT. We want to make the game more immersive, make it more fun, have cooler gameplay modes, add depth where people want d. cedure complexity where it makes seese and confinue to make the wespons fun. As long as we do that, it's a game that people will want to come back and play.

CGW: It was widely reported that you called episodia gemina a "broken business" because of, in part, the need to recycle content and the poor prising scheme. Do you feel the same way about expansion packs that you feel

about episodio games? MRs You know the old children's carne "herisen. telephone'? That's what I think happened with those comments. People wrote about it completely out of context. Here's more or less what I said: We see a lot of developers coming to us and saying, "My business model is that I'm going to make a little bit of my game, and I'm going to sell it ordine through digital distribution, and then I'm going to have the money to make a little bit more and a little bit more." And I'm thinking, "Are you insane?" There's a lot of talk about this right now, but very little success. in this area. What I was talking about is this idea that you can make a little bit of a game. and then make the money to build the next chunk of the game, and repeat that until you're nch. That's just crazy. And that's not what MaY-Life 2 is doing. I mentioned in my speech that we have a perfectly good model for ecceptic content in place right now. I said that the name ing industry's already doing episodic content, and we've had it for years with franchises like Mario, Ukreed, Grand Theft Auto, First Fantasy, WarCraft, and MaY-Life-all these names sell. episodically and do very well. The more successful ones have expansion packs, which is

models make huge amounts of money because the publishers can justify putting the marketing

CGW: You think that trying to end-run around

publishers is a mistake? MR; Yeah! Developers think, "Oh, I'm going to make a lot of money doing this." I'm sorry-you need marketing to sell games. Marketing is what sells games. What works for super-established brands like MaY-Life will not work for you. You need to get a publisher you need to build a

brand, and you need to be marketed Making your game, putting it out there, and hoping that distribution alone is going to do the lob for you is just rick alous. The scary thing is. even after I gave this speech, somebody came up to me with exactly that kind of proposal. I billed the speech as an audience-participation event, and I had mics in the audience so that people could offer their options. One person supposedly said something along the lines. of, "Well, you're just saying that because your engine's not suitable for that." And ther's just not true. First of all, there are people with publisher backing doing episodic stuff using our engine already. They're developing the whole game and putting out preces-which is a different philosophy from what I was talking about-and, hopefully, they's do fine. They'll deliver the pieces in small enough timescales that you won't get fatigued, you won't get bored of it and say, "Well, I'm just going to go play something

else now." But in the meentime they'll get proper advertising budgets and marketing support. Epic has a perfectly good engine-licensing model for people who want to attack casual games, episodic parries, online-only games, or things like Xbox Live Arcade. We charge very little up front, and then we get some participation in the revenue. So this is not an Epic interest thing. This is me, womed about the state of developers who think that they can survive by doing something grazy. I sell technology to developers and publishers, so my job is to ensure that the developers and the publishers are as successful as they can possibly be. So if developers die because they go into broken business models, that doesn't help me, and it pertainly. doesn't help them.

I'm trying to advise developers to be careful to not get sucked into the idea that dignal distribution is oping to be your savior and make you rich. You need marketing. And when digital distribution has the opportunity to be a savior and make you rich. guess what? The big. 800-coundgorilla publishers will swoon in and surisup all the oxygen in the space. Nobody will find your game-It'll be releasted 10 levels deep on some distributor's portril because the big companies bought up all the spaces on the front page. That's just distribution acting like distribution—just like it does currently in retail.

CGW: So it still sounds like you're not per-

sonally a big fan of episodic content as it is now, though, right? MR: I'm not the kind of guy who's going to buy a game and come back and buy a little small piece of a game in six months and buy another little small piece of a game later. I'll lose interest.

Within those six morths, there'l he 500 other shiny boubles to pull me away, and I won't come back and play. How often do you buy a game. not finish it, and then go back and finish it? I heer some people saying we should have a television-style model, but thet's wrong. Television is free, and it's backed by commercials. And those commercials make the experience five for you. Plus, new shows come out every week. Evan The Soprance, which has these big, long delays between seasons, still gives you gight or 12 opisodes at a time to keep you interested. If they just gave you one every six months, they'd have a very small auchence. Television also has more revenue streams than we do. They get a recurring revenue stream from subscriptions. land of like an MMO. They can sell their shows into syndication, they can sell on illunes, and they can package shows into DVD sets. Movies. similarly can sell to network TV syndicated TV DVD, flunes, and so on, My crystal ball doesn't show these kinds of lucrative aftermarkets for



DIGITAL DISTRIBUTION (IS NOT) GOING TO BE YOUR SAVIOR AND MAKE YOU RICH YOU NEED MARKETING:

also a good episodic business model. These

42 COMPUTER CAMING WORLD



SHALL WE PLAY Introversion's DEFCON wagers on no-win entertainment

PREVIEW

THERE'S THAT OCENE IN THE 1983 movie War Claims where Joshua, the stilles, creepy computer program that positis in history mechanized Donard Duckses, is instructed to play leaff. The section case, is instructed to play leaff. The section case, is instructed to play leaff. The section case is abortion produced to decide profession for each software of the possible (spicelys), 169) nuclear war of the possible (spicelys), 169) nuclear war of the possible (spicelys).

etriese to addisable like "Thei subversion" and "Gabon siksover." The world's distroyed a hundred times over his no roy of bigs soming late, and all you could think was Where can

I pley that?

If it sharmelul, then, that it has taken 23 years

for someone to copitalize on a concept so
grangly obvisus it seems virtuelly footproof.

Often the Gest, most addisting garrier are the
samplest, least ofirmitisty tilling, step introversion lead designar Chris, Doing, the breins

ston lead dosignar Chris Dolin; the brains brished hacker-eim Uptik's and genre-mutant Darwicks. In realty, we often overlook or diswhes the most elementary lides and pure concepts for scening, well, too simple." In Dolsy's view, you don't want to aprach hours playing demos and tutorists and reading manuals before you schuld; understated with you're playing. "However, or decuptive," he adds slyly, to

as the DEFCON level escalates. The end of the world starts at DEFCON 5 and drops every five game mirrutes until you reach DEFCON 1...when the long knives—and mukes—come out."

"We realized fairly opticity that if you have

railes—come out."

"We realized fairly octoidy that if you have the players off lighting each othing, it can and as a bit of a shamiting." Delay says. To modulate "fairles and have been solded on Alliances system that allows players to term up. The gather sold individuals still playing to an add not come stuy singulate."

"We take one search them to Cool We

and the atmosphere of perancia and subpress, "explain Dalay, describing DEFCDN in-game IRC server for public—or private chatter. He says whole conflicts are born out of simple interndentalings, like allience members shooting down friendly plains suspected of esouthing the area for estite targets. This leads to arguments in the chair largets. This leads to arguments in the chair

channels." he adds. "Followed by skirmishe se, followed by retailatint, before finall the whole silinate collapses and zerrycon eteris multing soch obes."

Besidelablers rejoke, in other words...

DEFCOM sounds perined to cater to your besets urges. For my, the casty sessifying moments occur when en ally memoges to catch me compretely off guard and pulls off

the perfect betrayout," muses Balley, "It gives ms confidence in the game design hast such things see possible." He describes a shaft set where the game had assembled, you'ded gis for at he knew, but, in the space of a few secords, his thing doorstopper Game (Ormaness) surfaced a load of subs right of this coastine and stands, an Oolay puts (It, whileng the hell out of my others." It was perfectly thirted, he soy, and that the coast possible or profiting he out do shoul it serve at back and study. Betrayde the that serv cost put millitors

of Even and take you from frint to last place on this coordboard," he adds billersweetly "These subs had been traveling to that sit point for the entire geme—he'd planned it from the very beginning." Matt Packham

WE TAKE OUR CUES FROM THE COLD WAR

ATMOSPHERE OF PARANOJA AND SUSPENSE."
-CHAS DELAY LEPO DESIGNER

GROUND UNITS DESCRIPTION SILO ie slos have two modes: launching ruideer werheads end shooting down incoming ordinance and units. Switche sen modes takes time, and a sto is incogrative during a switch. Firing a site reverse its position to all clawers. AIRBASE Leutohes fighters and long-range bombers. RADAR DISH All units extend roder governoe but dishes have the most, providing excellent governoe ethough they are detensaless. SEA UNITS SUB Invisible to conventional radar, but with no radar themselves. Substigunch nukes or torpedges from any opean tion. They are strong equinst bettleships. Cen use conar to destroy enamy subs, but that gives away the subje-location to other nevel units. BATTLESHIP Antiship unit used to detect enemy units and to destroy opposing units without use of warhoads. CARRIER Mobile version of a land sirbase used to lourch fighters end bombers. Can carry depth charges to use coalnet subs **AIR UNITS** FIGHTER Good against enemy aircraft and to scout out enemy territory. BDMBER Can carry one nuclear warhead each but are slow and vulnerable to attack.





patch. "We have loads of ideas," add Dalay. "This could be just the beginn for DEFCON."

саминсом 45





The ABS* Ultimate M6 Sniper posted a "Precord-breaking score" in the PC World Test Center World Bench St PC WORLD Listney 2006.

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"image shows may be with appraised optio

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do mey have Super Smash Bros., but thet geme doesn't nddress the existential questions that plague me: What happens when Street Fighter's Ryu drops shoryukens on a Bettletoed? Who handles shrooms better, Merio or the Prince of Persie? Can enyone

m Dragon Bell Z outpunch ider-Man? Most importently. h: What were the de g when they decided to god 8- and 16-bit games? hatever It is, I want some!

OK, it's confession time: I love pissing off people on message pissing off paople on message boards. Especially the CGW mes-age boards (boards. Lup.com), where I have many persones and names. I just can't help it. I type the dumbest, most obnoxious comments that come to mind---

usually without any facts to back up my idlocy—and take great pleasure in watching people freak out. Imagine my joy now that

someone's made e first-person shooter game based on that.



How the hell does one d Kingdom of Losthing? The best way is by telling thee of my que

way si by billing thee of my quest as a level 2 postamenor 'yes, es in magical pasta): I've traveled the land staying bunnies, quoted sloth from The Goonies, end paid for new armor with stacks of eat. If I were to make some sort

this geme would earn it. Go to kingdomofloething.com and see for yourself. It's a stick-figure art



So meny jokes esk the qu Why did the chicken cross to

roed?" Aside from e cou read? Astes from a gausse per-verted versions, nobody over tack-tes the bigger enystery: "How'd he pull it of?" Finally, comeons hes. The game may be a bit on the chort side—and restly, it'd be nice to see more than just one stretch of road-but Chicken vs. Road is s fun little graphic edventure. Ur you get that damn "Reindrops sen Fellin' On My Heart" sono stuck in your brain.

DEVELOPER'S DESKTOP What games do they want to play?



egy with choot-em-up action in e way we sel-dom see these days. Of ocurse, you had to pie on the original Commodore 64; I carried eround a epocial joystick to challenge all comers."

This game made me want to develop com-puter games for a firing. It had such a huge word, the inhabitors of life that A least a tillad valve (they would go through a bit of a daily softedule, and they do be comewhat awere of your reputation), and the triansitione between exhibitors. between enviro for the day."

EMPIRE: WARGAME
OF THE CENTURY
'Cheveted from and PDP-11 game, this was
the first discharge game to display the critice and
unit's pandagm. It go to a little hard to namega-lowed the end the number of units grew gas-maticists), but it definitely had that just one
more burn additionesse."

CIVILIZATION II
*OK, look, I'm a gente designer end g mer, so if I'm going to get trapped or

kind of a Generi laland. I'm for ware going to take one of my own garnes and tikker with till. And I'd batter this enis from book in the deys whan one progremmer could mostly moreage the code. These days, booting up Giv II' remitted me of that goiden are when Windows 96 first came out, DGS was deed and burles, and the graphies and soundeard special hadn't yet lied us down the garden peth to driver incompatibility hell, the modern equi-lent of eutoexec but hell."

WORLD OF WARCRAFT

1 haven't ees my level 80 pricet in e year now. But when I typed /pleyed and sew ho many months I'd been playing this game (and these are 720-hour months, not the winay) 168-hour 'mon-month'), I realized het this one game may conceivebly heve accounted for more then 50 percent of the ime I've epont playing computer games is my whole life."





STAR UNIVERSE







@RADAR | GLADSTONED

GLADSTONED

Shooting the messenger and the WORK WITH ME HERE!

SELLOUT WHORE, CORPOR shill. Discountled maders have called me all these names (and a ple of other creative ones that I can't

st here). That doesn't bother me. However, o new trend is browing that makes me violently romit blood: Some game companies have this screwed-up notion that editors really ere soliouts, whoree, and shills. It's time for me to equash this rumor before it gets too out of control. Screenshots held hostage, into doled out in precious droplats—megazines deal with this kind

of stuff this every month. To be perfectly honest ost public-relations managers do e klok-ass job nd "got it" (seriously, guys, much love), but when body thinks he can buy covernos-boy, you ust ticked off the wrong nord Before I signed on with CGW, I was a "reel"

reporter. Witing about videogrames for elliving didn't make me auddenly forget every lesson learned in journalism school, and that's why I've olded to present, here, a few passeges from my PRiCloumater Relationship Operating Manual, Follow these simple rules, and I promise I won't toes you out the window when you come to my office.

historiuse the phrase "stay on message," or I will slowly choke the life out of you. Or cancel the story. You have an agenda-I get that-but I have my own angles as well, and delivering the message of your marketing department isn't one of them. I am not on your peyroli. God help me, I have guestions-both good and stupid-and I will ask them. If I wanted a blind recitation of feats, I would'vajust eaked you for a FAQ to cut and pasts.

Correliopers are people, not products. If I ask for an interview with a developer, I may notually want his opinion on topics besides his game. That's right Sometimes I might want to hear what an industry uminary has to say about a big-picture topic. If our interview doesn't fit en egende or deliver e



sterious hole where we would've loved to get the thoughts of a particular developed but couldn't-thanks to those shadowy peop in the background who eliently squash good interviews without seeing the big picture.

Be honest. This is kind of a no-brainer for life in

general. If you're talking to another magazi website, ham-radio operator, whatever--just let me know up front, because it affects my story. If won't hurt my feelings, really, And I swear that I won't bite your head off, Much.

scieuse you're resulting this column, don't

think I'm gonns let you off the hook. I need you help: In our never-ending quost to deliver a topquality magazine every month, we're slaves to getting the latest testy ecreenshots and lefo. sat means we're at the publishers' whims. Do and some e-mells. Make some calls. Stick you head out the window and scream so the whole world can hear that you're med as hell, AMD



BE HONEST, THIS IS KIND OF A NO-BRAINER FOR LIFE IN GENERAL

THE GOOD, THE BAD, THE UGLY OCTOBER 2006



les' annual E3 Expo

out that E3 had slowly deconnected late



in. E3 was a weetched hive s, as it meens one fewer

it will still take place in Los Ang by [the] ESA as a 'great and supportive p as with media, reta it, and other key sectors," Sounds II mage control-we'll believe it when we see it





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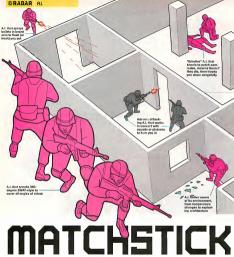
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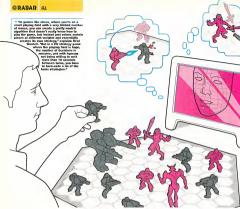
Six industry insiders disabuse our A.I. illusions BY MATT PECKHAM

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CGW: First off, is game A.I. really "artificial intelligence"? Or is it just a gameplay convention?

Peter Molymeux: There's a misconception that AJ, in games is real. Ninety percent of the time, It's not, as real AJ, would be far too expensive in terms of processing power.

Warner Specter: I hade to be a philistim, but I'm in the camp that depart i even think about it. I'm sure this a parity because I'm not a programmer responsible to coding this staff or an academic getting paid to think about II—I'm out opening with the player expensers. As long as the A.I. accomplates the golds of the game and offers a compaling expenser for the player, you can call it whatever you want.

Tedd Howard: [I] depends on the sudience, Al Bethesds, we define A L as intelligent behavior that the action—APCs, creatures, at cetera—engage in .50 we're looking for real intelligence, on-the-fly decision making, strategles, and so on, From the consumer's perspective, AJ, is anything a character does. So scriptfre, AJ, is anything a character does. So scripted events, animation, and so forth all form the A.i., to the player, and that's the most important part—conveying the illusion of good behavior.

Brad Wardellt: For the kinds of games we make, I take the heurstic point of view. My job is to get the computer players to play that persisting parts very well. This means developing stategies much like is human player, then incor-

porating those various strategies into the game. CGW: What are some of the challenges and/or advances occurring in game A.I.

development at the moment? Wife Every game Pro been involved with in the last decide or so has had to incomposite AL, that does more than figure out how to attack the player more efficiently. This time ha AL stakes overly said dearly out at in a game where the ANPCs may or may not be your enemy; based on your in game choices. And "Look at our amazing group-tachts: AL!" is microlastat when we don't know how the NPCs In a given acone feet about you—whether they love you, hat you feer you, went to talk to love you, hat you, feer you, went to talk to love you, hat you, feer you, went to talk to

you, don't care about you... And let's not even

talk about what happens when players can chierge their environment dynamically. The A.I. challenges of a game where you can fight, sneek, or talk your way past problems, in a world where there are many ways to get everywhere you—or the NPCs—might want to go., wet, those are some interesting challenges.

Mikko Mononen: Creating the Illusion of life Imagine a watch, The watch may function even without its case and hands, but it's rather useless as a timepiece. A symplectic version adds the minute and hour hands and 12 dots to mark the hours. A more detailed and interesting implementation gould add more markers, another hand to show the seconds, another for bundredths, maybe even the clavs. of the month. These things don't reinvent the watch, but they do increase the level of the detail and feedback to the user. A.L actions. without feedback are perceived as chaps by the player, just springs unwinding and gears rotating. A simple behavior with proper feedback can look believable, intelligent, and complex, but complex behavior without

enough teedback looks chaotic and random.

58 COMPUTER GAMING WORLD

Codomos P. Idefeatel the "intelligent"-best nonchesting level-A.I. after a few weeks, and then posts that the A.I. isn't challenging enough. The cost of good A.i. increases exponentially. but the quality only ones up linearly. Creating an unbeatable A.I. can theoretically be done, but to what end? Of the 10 percent who can best the best nonchesting A.I. we make how many of that 10 nement actually mind having to turn up the difficulty to the point that the computer players get another 5 percent to 20 percent in resources per turn? And is it neelly worth dou-

bling your AJ, budget to satisfy that small per-

centage of unhappy users?

CGW: How can games better implement nonconfrontational or nonviolent A.I.? Is this limitation responsible for the need to have monsters of some sort in most every game? WS: Man. I wish I know how to answer this question. My "thinking" is that our ability to create compelling noncombat A.I. is pretty purv. The issue is creating characters that behave in ways that, given the context of a game or scene, elicit an appropriate emotional response in players. Take the guns away, and we lose the most easily elicited emotion-fear-and we're left with _not a lot. How do we make progress in the nonconfrontational space? Beats me-maybe someone in a garage somewhere is solving the problem even as we speak. If I knew how to solve this problem-end it's a huge problem for garning, one that is really holding us back as a medium of expression and communication--Ed. be making a very different kind of game.

THE Interms of nonwolent interaction, I pertainly think Oblivion has a bunch, though we haven't gotten away from time-stopping disloque trecs yet.

CGW: Soren Johnson of Civilization fame estimated in 2002 that AJ, was something like 2 to 3 percent of the total development cycle. and that it was usually integrated only at the very end due to lack of money and time. Has this changed in 2006? PM: We have two projects gurrently under devel-

noment....Fathle 2 and another unannounced.... and we've had an A.I. team working on these projects from day one. Eve since unearthed a fascenating feedback loop between our A.L goders and game designers—the A.I. team is, in fact, elerting the designers to some unexpected but cool situations which are a result of A.L. as. opposed to the designers asking the A.I. team to construct specific situations.

W5: Wow, 2 to 3 percent? That doesn't reflect my expensive at all. It didn't reflect my expenence even back in 2002. We've always had multiple, dedicated resources working on A.L. basically, from the start of the project to the end. I think all the highfalidin tech stuff ups the dif-

being good. It should be possible for a game to ficulty a bif, in that we can create more dynamic. more deeply simulated worlds. But, really, until people start making different lands of games, the difficulty only goes up incrementally. TH: We spent an enormous amount of our dev

time on the Radiant A.L system in Obligion, It ended up not only being the character A1, but the basis for how a lot of our guests worked. It >

tree to drop me an e-mail. And a résume.

Oh, and a demol

MM: When the environment is highly detailed. the description of the world is always going to be different for the A.L and the player. Creating an artificial perception system that's loosely based on how humans sense the environment can make the A.L act more like real humans. but there's always a constraint on how complex this model can be. In comes, the greatest limitstions are production time and processing power. Aligwing the A.I. to partially "sense" the player through an obstruction, for instance, greates the impression of an AJ, behaving like a sever

human would in the same situation.

W) Up until the "intelligent"—tough—difficulty level in Getactic Chalcatrons II. the A.I. cets no advantages over the human at all-and, in fact, is penalized in most of the difficulty levels. As for how we on about implementing our A L. the way we are able to do this revolves around two development techniques. The first one is having a multithreaded computer A.I. That means that while the player is taking his turn, the computer players are generating their turns. It's not that our A.I. is better written then other games; it's certainly not. It is that our AJ, has a lot more time to calculate. Fourier players are a lot slower than the computer. By the time the human player has finished his turn, the A.L may have had half a minute or more in the background to desculate. The second technique revolves eround being reasonably good at strategy games and

incorporating those strategies into the computer A.I. Techniques the burting stranging rushing. harassment and other strategies that are well known to hardcore strategy garners are integrated into the computer A.i. as best we can John Abergrombie: There are certainly situabons where a human gen recognize something that an A.i. never will--or at least not as well--so

you have to provide hints for the A.I. The hints aren't cheeting, end they might also allow the All to make matrices as a human would. See searching in the wrong direction. But giving the A.I. the exact location of a player they can't see seems wrong to me-that's too much informabon. There's a belance between what the A.L. should end shouldn't know, and the player has to believe that the A1 should know it.

CGW: Some have suggested building a world-class A.I. that doesn't need to cheat to now, but that development time and costs

beat the best human players is possible right don't justify it. Your thoughts? PM+ It's possible, but is it describle? All must be balanced with game experience end that means that even the simplest ecodomic Ail, has to be retined and tweaked in the name of the came

focus on learning aspects of A L at its core. TH: Lacturily don't gare if it cheats---th not a big goal of mine. I want the perception that it's not cheating—that is, the perception that it's

BW: I've often said the same thing ornine when some top strategy gamer buys Galactic

meking logical choices.

1 DON'T KNOW AL WILL ALWAYS BE NECESSARY BUT IT CERTAINLY SEEMS TO BE NECESSARY NOW! -WARREN SPECTOR

TUNCTION FOINT STUDIOS

BW: Faster CPUs have changed everything. We have fantastical advantages in computing power, Master of Cnon came out in 1993, runring DOS. That's the age of the 488, Back then, they didn't have the fusury we have today-i.e. having the computer player play by the same rules. It could literally concure units out of thin air based on the difficulty level. One of the biggest advantages our computer A.Ls have shways had is that they're multithreaded; the computer AJ, generates its strategy in the background white the human player is taking a turn. In an age of dual-ones processors and Hyne Threading, that means we have far more CPU cycles to compute strategies.

CGW: Is A.L cheating for the sake of challange, or to overcome behavioral limitations, or just as a shortcut, necessary by design? WS: I don't know if chenting will always be necessary, but it certainly seems to be necessary now. Given that the goal is to challenge players in pleasant, enfertaining ways, not to re-preate human behavior. I suspect we'll be proud cheefers for the foreseeable future. If you're a programmer and you think I'm wrong about this, feel

@RADAR AL

also takes a lot of CPU time, so the more power we can get through the hardware, the better we can make it.

BW: There are really two issues here. First, it really depends on the developer and what prority they put on computer A.I. and how complex the AJ, needs to be. Secondly, what dust cores and SMP do is allow computer players to be more effective with less work because they can brute-force calculate better strategies.

CGW: How do you convince gamers to stop and pay attention to your "cool new AJ, feature" as games become increasingly free-form? PM: AJL is a bit fike game physics-both are coming of age. A few years ago, we all got very excited when we had the technology to throw boxes around in a realistic way, and of course, gamers' reactions were sort of "so what?" Same thing with A.L. Our first attempts were pretty primitive, and it's only now that we're seeing more sophisticated A.I. appear in games. Still, consumers don't gare if some technical advance is hard to pull off or ground breaking-they're only concerned whether new techniques make a game seem more realistic.

WS: There's an assumption in your quention that players should care about A.I. They shouldn't. They should care about the experience you're providing-whatever it is. The overall experience of a game has to be a lot more than "acceptable" or you're doomed to failure in the marketplace. A.I. is just one component toward reaching the level of quality necessary to succeed, and how important a component it is will vary from game to game.

MMs. There are several design principles in Crysis where we tackle that problem. They all allow the player to observe the AL reactions. without engaging in combat. The fest we call "veni-vick-vick." The idea is that you're able to slowly seduce the A Linto combat and observe their actions. The result is that you have the possibility to outsmart rather than outsun A.I. opponents. The second principle involves giving the player a chance to try each situation multiple times, thus prolonging the AJ. "Iffetime" and allowing us to better "show off" its sophistreated behaviors.

CGW: With the whole "virtual pet" graze. isn't there a sort of sideways argument that gamers already react favorably to more lifelike A.l. for its own sake? Say, more mundage behavioral "coloring," like NPCs that take nee breske?

WS: This is a huge question! First, we almost always sell our auchience top short in gamingdon't even get me started on that rant. Second, we need to move past the idea that "lifelike" is the highest ideal game A.I., can aspire to, Finally, If your game benefits from NPCs taking pee breaks. noneign pen death work should the audience.

BW: You're definitely touching on a larger issue in the game industry, and that is, as it has grown. The [people] who make the big decisions are increasingly nongamers. Look at the copy-protection debacle we have now, People practically have to give slun samples.

to the game before they can play it. Similarly, I think many studio heads these days don't see how much people care about having a good single-player experience, which means competent computer apparents. They don't see that it does drive sales. Our average gamer is around 30 years old. They're smart, sophisticated people who want to be treated with respect and intelligence. The problem is that computer A L is rarely budgeted enough to make the difference it could make. Computer

A.L. atter all, doesn't make a good screenshot. TH: Actually. I find the audience picks up on the small stuff and reacts positively to it. One of the little touches we put in Oblivion was to have the shockeepers "keep an eye on you," white in their stores, and it is subtle, but lots of people eventually noticed. If we made the guards pee, I assure you people would care-and pick they pockets when they did so.

COW: Can we expect to see more usercontrolled AJ, gustomization in future games? Or does this legeardize developer controls? Will I don't think this is an either/or thing. I think you'll see a little of both. Some developers, in some games, will allow players to tweak the A.L explicitly. Other developers, in other games, will create adaptive systems that allow characters to learn from the player and adjust

their behavior accordingly. It all depends on e-BW: There's a general recognition that writing "smart" computer A.I. is very hard and expenare and in many games, not a good investment, in those games, it makes sense for the developer to provide tools and extensions that allow the fan base to enhance the A.I. behave ior to increase the lifetime of the game for the hardcore tens.

game's goals

JA: There are games where tweaking the A.I. behaviors from an options menu might be appropriate, especially in aports or other games where the player is working with other AAs to accomplish a task. From a designer's perspective, though, those variables should be under the hood, and the A.I. would adept correctly to each situation to fit the player's style.

CGW: With all the research into academic A.L. can game A.I. benefit from #cademic/ game A.I. convergence?

PM: We're inspired by what the academic approach is, but because of the restrictions of the carriers world, we have to reinvent what academic grales pioneered decades app. One of the biggest differences between agademic A.L. and

games A I, is that we have a perfect rule-based world in which our A.I.

TH: Like many things in academia, it often has very little application in a real world or real game environment. Fuzzy logic is pretty basic, as are some of the others, so you see those things sprinkled in game A.L. where it needs it. I don't see games ever going the full "A.L" route as defined by academics,

can fit

JA: We have this great behavioral system here et Imational that was developed as an academic project for modeling simulations of groups of characters. Nearly everything we do in the game A.L. involves using this system, and the shiftly to layer behaviors and rapidly prototype simplistic behaviors has made it an invaluable tool for designing and developing the A.I.

CGW: Thinking about game AJ, and the next decade or so, the Magic 8-Ball says.... PM: Some of the likely events are emergent A.L. which is becoming a significant force because it's so central to a game's premise. A.l. gives us the ability to support custom characters in games not only visually but psychologically.

THI It's pure development time, so the bigger budget games are going to push A.I. forward more than others. Procedural animation is one technique that you will really perceive in games soon that'll make you believe the characters are behaving better. I know that's purely a visual, but don't discount that aspect when it comes to "Infahka" behavlor.

BWh I think in the next five years we'll start to see macrounit coordination in computer players. I think we'll also see options in games that allow more CPU to be dedicated to computer players, just as we have options for video displays. Let the guy who wants a more challenging game with a powerful systern get full use out of it. I also think you'll stert to see A.I. players learn between games, This happens organically in online games, but computer players presently start from scratch each session. After that, I think we'll see AJL become increasingly conversational, The drive for immersion will mean having RPGs and MMOs that have NPCs that act like real characters. And from there, those technologies will find themselves back in strategy games where you're playing Qualamacy 2016 and you're truly negotiating with the A.I. Germans in an online game, and [CGW editor-in-chief] Jeff Green-from his resting home-will be cursing proferities via chat for ganging up on hen., agen.

CGW: Descartes said, "I think, therefore I am," You say?

PM: I pley with him, therefore he thinks!

TH: I prefer Socrates; "I drank what?"

TF WE MADE THE GUARDS PEE, I ASSURE YOU PEOPLE WOULD CARE: BW: I think beyond a set scope, therefore I am. WS: Wow, Descartes in an interview about games? I'm too blown away even to answer!!

-TODO HOWERD BETHERDS SOFTWORKS

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PREVIEW

WE'RE ADDING GAMING FLEMENTS TO Microsoft Flight Simulator X," says ACES Studio lead designer Paul Lange, signaling what may be the most significant change in the Eliabt Smulator series' 24-year history. "in order to give players something to do beyond just flying over the countryside." In the past, Microsoft designed its Flight Smulator names as pure civilian-flight sims made for hardcore virtual priots who revel in spending carefree hours simply flying from one eirport to another. Previous Filiphr. Smulator dev teams have been so focused on 'as real as it gets' that they've never tasked someone with enforcing traditional gaming features such as objectives and missions. That's why the presence of Lance (whose résumé ranges from 1998 first-person shooter Powerstave to 2003's Microsoft Combat Flight

Simulator 3) is such a departure. His expertise

is gaming, not perceptage engineering, and his

goal is to make Flight Simulator X attractive to

people who would normally fall asleep trying

COMPLIER OWING WORLD

DEVELOPER' AGES Swater GENTE FEIGHT Streamfor PELEASE DVE Wester 2006

to figure out how to work a Cessna's Gaurian CPS system.

FSX's new hock is a powerful, simple to-use missient-creation module used to criff the 80 missients that will stip with the game. The built in missions require from the relatively simple (seech for a missing camper in anony mount times) to move challenging, friend it takes such as resouring workers from an exploiting offished or its activity of the stip of the mission or a large number of community-developed mission packs should be missible time due for mission packs should be missible time due for the first of the stip of the stip of the stip of mission packs should be missible time due for the first of the stip of the stip of mission packs should be missible time due for the first of the stip of mission packs should be missible time due for the first of the stip of mission packs should be missible to make for the first of the stip of mission packs should be missible to make for the first of the stip of mission packs should be missible to make for the first of mission packs should be missible to make for the first of mission packs should be missible to make for mission packs and the missible to the first of mission packs and mission packs and mission packs and mission packs and mission packs are

This abbude of cooperation toward brindparty developers is mother sedical departure for Microsoft, which has, by its own admission, interesting the properation of the control of the substitution of the control of the control of the substitution of the control of the control of the properations were, shared in the valenty profetion control of the control of the control of the developers. The company has even created at the companion of the control of the control of the developers. The company has even created as

Skim Snattle's ables in a TV news chapper

tion (currently held by Brett Schnepf), charged with making FSX as third-party accessible as

possible.

But none of these changes fly in the face of what's come before. Flight Smulstor X continues the service break not elsewish relation of estoucher real-sem and the trend of increasingly exact virtual sandselapea and ofly skylines, accounts auroralt models, and tittle details that make the world refer lones allow Muldiar params the countrystak, cars drive on the street's below, and fuel and luggage cets accommiss aeround the arport as you task in. Despite Microsoft's friendler at virtual particular than the street is below, and still a street as you task in. Despite Microsoft's friendler

newfound focus on "the geme," Flight Simulafor X is still hardcore at heart. / Jeff Lackey



NONE OF THESE CHANGES FLY IN THE FACE OF WHAT'S COME BEFORE

is relessed

FACEWOUND | RADAR®

(In-game

66 IF YOU LITTLE BASTARDS MAKE ME MISS ONE MORE MINUTE OF LAW AND ORDER WITH YOUR FIGHTING, I SWEAR I'M GOING TO COME DOWN THERE AND SMITE YOU ALL.

-GOD









FACEWOUND

Garry's Mod maker goes 2D

PUBLISHED 2K Genes COVELOPER Intelligant Games COVER First-Person Stooter RELEASE DUTY 2007

PREVIEW ASK IRRATIONAL GAMES PRESIDENT Ken Levine about BloShock's Electronic ntertainment Expo accolades and he'll throw out everything from "awestome" to "intend-blowing." Sompoing with brusters like Crysteix Crysts and Marke' Spore, Sichhock went on to win 17 awards (including several "Best of Shoel" bonors). "It was like being prom queen," says a globy Lewine. "We're not used to being prom

en. I'm still wearing my tiara." Ill teasing en amorphous 2007 release Still teasing on amors date, Irrational's multiplatform hybrid sol-fi FPS remains shrouded in mystery. We know it's set at the bottom of the ocean in a mythic 1960s

utopian art-deco megalopolis celled Repture, has loose ties to writer/philosopher Ayn Rand's controversial meganovel Atlas Shrugged, and that it takes place after a homble mutagenic war involving Repture's fanatical idealists. "T creary thing about the city of Repture is that the world doesn't know this society's fallen eart," says Levine. "Music still plays, vending achines still audibly hawk their wares, and so on," He references a contraption with an image of e "scery" olown-when you walk by,

it shouts, "WELCOME TO THE CIRCUS OF WALUES!" ("I should know, for I am indeed the clown voice actor," says Levine.) Like e deep-sea refuge for Dr. Moreau, think of BioShook as a WMJ Kingdom of the word. It pos-its an ecology of hulving flig Dadden in corroded diving suits proteoling welfish Little Sistem, the latter in bow-te skirts and scrambing on stokthin legs to hervest and process a gene-modding substance called ADAM from dead their foes-drug-jazzed Splicers-sneak or stalk

in the shadows. Enter you, playing the ance

ing with hostiles. "It's very much like GTA in the inse that once you open up parts of the world you can always return to thorn," says Levine, commenting on Rapture's free-form framework.
"And remember, none of this is scripted. You kill

"And comembe, noise of this is serpled, the as Splices, and the Little States come out of their hiding places to hervest ADAM from the body, And the Big Daddy comes out to protect that Little Sister." The world of AloShock is always humming, in other words. Repture's

tens go about their business with or without you, trying to scrape

by in a world cone nuts. "How you want to interact with them

is up to you," adds Levine. When it comes to interzoting with your character

of pourse, the t a bit ghas

team wents a wn Shock s), the ephoes

of self-modification ar underliable. The differ ence: BioShock involves a slow survival-driven descent into ty to pinch harvesto



Irrational's Ken Levine talks proms, clowns, and a post-E3 BioShock







is or tangling with Splicers. Once acquired, deriel (called pleamids) can be used to mod skily to relate to the environment—say. ntation with Bip ics, leaving, say, a Little Sister ope ings-do you kill or just om har? "BioShock add teal from har? "B moral chai ice to the equation of gamepley choice," Lexino says, "The game adapts to support your

ed, if a single d defines Biory-by-numbers to esh," he contin-

ot chooter over ma te think it's going to brin otor genre," he seys. "Let's face it...the FPS has gotten kind of stale since Hatf-Life 2.* Those might be fighting words, considering the positive reaction to Valve's recent Episode Onesin. Levine's the brains behind trailble like Thief and System Shock 2, "We intend to be the stake in the heart of 'run down the comidor, shoot the monster who pape out of the closet, rinse, and repeat' school of FPS games," he says. "If you want to go deeper-if you want to hack, if you want to craft, if you want to explo reach, it you want to create, it you want to explore the depths of our genetic power—think X-Men mutations—then BioShock will be there for you as yet. But even if you're just the shooters, the stey line, the X-II, and the world are really some thing you've never experienced before." Will that story line be dynamic enough for multiple endings? "There's a fair emount of

choice in the game's story, primarily eround how you relate to the Big Deddles and Little Sisters," beeses Levine, "And as Forrest Gump might put It, that's all I have to say about that now."

AY-EYE-AY-EYE-0

/Matt Peckham

"The AL in BioShock really is semething new," says Lavine, offering the following its of behaviors he claims you'll wittens in Bio Shock (and that you've news' seen before): Weeker A.Ls hiding b. hind stronger once

A.Ls mourning the deaths of their friends. A.L. running to health stations to heal A.La looting corpner and muchinus.

All putting weaker Alls out of the line of tire (a Big Daddy will ectually grab o Little Sister by the scruff and pull her to sefety)

UNREAL VS UNREALITY







E HOT SHEET

DISC OF THE DEAD Endless waves

TEN THINGS THAT ROCK CGW'S WORLD



PSP GAME? 4 Finally, we've found a reason to brush the dust off our PSPs-no lokel This park Flagurraction

is best portable fighting game around. And well, we like the bowing minigrime. Karate strikel



IBIZA LED WATCH 4 Here of COW we embrace the mner nerd, but sometimes, you need to let it shine. Thinkpenk.com sells this Tree-tastic LED-

\$140. Go on-you're NTEL CORE 2 DUO no results are in (see Hard New 5) and it's official: AMD is no lo

GET LOST 4 season showed up in the CGW office, the big mystery became: "Who

When a DVD set of Lose's second the heli bas it now?" Fucrymne wants to see of the bahard-the-scanes. special features.

laden timeorece for

a speed king, Intel recisims the



buy an Xbox 360.



NINTENDO .

We finally laid our hands upon the DS Life. and were ashamed we missed out on so many good original games for so long firy Phoenix Wright: Ace Attorney and Trauma Center: Under the Knife if you doubt usi. That's to say nothing of Nintendo's upcoming Wij consele. If you haven't done so already, preorder, stati



salah of Might and Magis

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tangible and student project into showstealer

BY SHAWN ELLIOTT AND DARREN GLADSTONE

70 HODAFURER GAMING WOFLD







CHARLIE BROWN, PROJECT leads When we started Team Fortress 2, we set out to make the best-looking, best-playing class-based multiplayer shooter.

We studied Team Fortress Classic, since we're founding TF2 on it, and wanted to settle on a complementary look, "Restistic" wasn't the way to go. So we started studying several styles, and

given the exaggerated nature of the gamethe nonrealistic weapons and stuff-it seemed natural to lean toward a nonrealistic look. Once we decided that, the first question was: "What will cherecters look like in this world?" Obviously, we wanted what you could call aspiration characters; characters players want to play as. Plus, when another player shows up on your screen, you want to know right away whether he's friend or foe. So we have something we call a "read hierarchy."

When someone shows up onscreen, we want

you to be able to identify what team he's on and what class he is-so, say, if he's friendly, you can figure out how you want to team up, work together, et cetera. Silhouettes are essential, especielly when identifying someone at a distance, so we went superdistinct. Robin Walker, cocreator, [Pointing at a projection of TF2's Pwol To give this character a sophisticated, less cel-shaded look, we've built this gradient of color up the body where

it gradually gets brighter, drawing the eye to where the character pestures and holds his weepone CB: Since we wanted something stylistically

sophisticated, we worked out a way to implement Phong shading in real time. This creates nice highlights on the characters-it brings out some of the folds in their clothing and makes them a bit more interesting than comparatively flat cel-shaded characters, in addition, it actually makes figures stand out from their surroundings, so it's eesier to identify danger

(Again pointing at a projection) Here's 2Fort (see plossory og 74). We apply the same principles to maps, too. With two opposing teams in such glose proximity to each other, it's tough to settle on a plausible environmental excuse-why would one faction build a base 100 yards from another? But when the setting is more iconic. that sort of sense-making isn't necessary. Some would've worked, but we're tired of the "space marines" thing, so we tested other themes that said "wacky weapons" and found the vibe in '60s sov-meets-sci-fi movies. You have that rupe retro feel, along with the high-tech equipment that does ell the soulf that you'd went it to

CGW: Like Get Smart.

do without having to explain it. Instead, it's like, "This looks the a thing that shoots lesers." No need to ask how or why. it does what it does. CB: All of those soy shows! So on too of this theme, we have facaries and biob-tech areas. Think 007 and the svil lair inside the volcano



sland. It takes us back to the "this base being beside the other" thing. Well, we say that the folks in this warehouse weren't aware that the farm across the way houses another facility. We're having fun with it, juxtapooing rural and

term across the way houses another basisty. Wa've having law with it, juxtagering rural and industrial, run-down and high-tech. It works well with gemepley, too. In a typical capture-the-flag map, a no man's land or neutral sentings separates the two teams. Our art emphasises that and you say to yourself. This is neutral senting, it's less intrinsiding. "Then, "Ah., The measure land his encorates hards someter, site."

could senting, it's less intrinsibility, "Their, "Mil. I'm moving into the opposing issum's property, it's moving into the opposing issum's property, it's more treatment, and it less like it'm treoposing." We want these resulted areas and standards to say (own-tebs, so we're striking to a rural look Well, blue bases tend to be a bit more inclustrial, but neither teams" stepdes are nearly as hightech as what's undamenth. So we play with transition spasses and process propose to think:

that things are a little off.

Here we have a barn, mostly low-tech, but we start to see some hints of high-tech—this video.

corners tooks a fiftle out of place. Look closely at that cow...R's actually a billboard. Then we start seeing sharper cutoffs. The front of test door has a hor-turn wise, but of shads is a bank wauft. Each map has a theme—2Fort's is a com-

sect in as a non-norm way, out so back as a comwant. Each map has a theme—2fort's is a commend center or NORAD-style space." RWM. The point he's making here is that a huge amount of TF2's art flows from gameplay. We're emphasizing the level of experience we have with our technology and with what makes. If the specific process of the specific process.

CCW: Cosmetically, this is apples to Team Fortress Classic's oranges; structurally, it seems the same....

RW: Although Team Fortness Classic is a version of Reim Fortness, it by netty cold at this point. Off the bart, Source has a bunch of technology that wasn't available when we brit earlier versions of Reim Fortness. We're taking advantage of that both, so awar simple things such as physics have a huge impact. For instance, Damo Mon and classes who throw physically simulated objects immediately become more literating when we imagine them in Source, And, well, this lan't the first version of Taism Forties that we've buff by any shebth (Lought)

COW: So tell us about those other versions.

NW: How many, and what happened? There were a few and, a, each case, we learned a lot. Our process involves loads of playeething internet and included a lot of layeething and internet and included settlers, a lot of designed section layee and of the and covery version of Twan Fortress 2 included a set of designed section layees and some of easign—acrons of which we load, and some we lot of easign—acrons of which we load, and some we lot of easign—acrons of which we load, and some we lot of easign—acrons of which we load, and some we load to the acrons of the load of the load

so on. It's certainly not the same as TFC, not by any means. Some classes, for instance, are completely reimaglised, >

CGW: An abbreviated version of these various fits and false starts?

RW: We're not talking about that today. COW: You're kidding, yeah? RW: I'm quessing that the in-game commentary in Room Fortress 2 is probably the place where

years of work, and we haven't massaged that into an understandable statement. In terms of technology, a bunch of the stuff we showed off in Brotherhood of Arms ended up appearing in other products. The parametric animetion system became the fully fladged blendedanimation system of HL2. Voice chat lip-synched to characters is in Counter-Strike, and so on.

CGW: Now would commentary work in

multiplayer? RWs We went to do Day of Defeat commentary.

as well, and we're not sure whether it's where 74 - ООМРИТЕНСАМНО WORLD

you can listen to commentary while everyone else plans or vou're in some other mode where you can't see people. We are planning to incorporate commentary into our multiplayer content, though, and, with its long history, 7F2

is a prime candidate. we're oping to talk about that shiff. We're talking CGW: Was the Halful ife 2-flourzed stuff stripped from the Source SDK (see glossery,

abovel a red herring or the remnant of anothor false start? RW: [Laughs] Well, it wasn't a red herring. We don't do reams of work to throw hackers off. It was from one of the iterations, and some of the best bits are absolutely sticking around for

CGW: What, specifically, will you say about

Team Fortrase 2

this "skimmed gream?" RW: Well, we're still playtesting, and we wouldn't want to make promises....

CGW: Can you comment on essentialsclassic elements such as concussion jumping (see glossary)?

CB: They're intect. And, in fact, we're even seeing new ones. "Sharking," or so I'm told. envolves moving so swiftly as a Scout that

you can actually skip across water without

siroton.

RW: Team Fortreas is all about that, I think, Its core-offwers making a choice about how they want to play, whether that's, "I want to be about mobility, dodging, and minging through defenses" or something else. We're going to keep that. Multiplayer games are, in some cases, inherently humorous. Put 20 people together and give them all guns and try telling them to stay senous, it doesn't work that way,

No matter how secous a shooter wants to be. It'll have moments that make you lough a lot. Instead of trying to fight it, Team Fortress 2 takes hold of it.



CGW: Were TFG's trick jumps intentional, 600? RWh Absolutely. Remember, 75mm Fortrass came out of the Guisle era all rocket jumping, all the firms. Giving medics a concussion grenade that made them move faster and farther was definitely deliberate.

CCW: You're retuctant to say what you're adding. Will you reveal what you're removing?
CR: I guess the rice answer is. The game is 10 years old, and we've learned a lot. Agan, we're still betting and therefore and con't over come.

CGW: Let's say we fist ideas under consideration with the caveat that they're ideas under consideration....

crote enswers

eration with the caveast that they're liceas under considerations...

RW: Insteed of specific ideas, I'll offer a blanket statement. One thing we want is to make the things much more understandable. You've probably thed to infroduce new players to TF—Misd. to explain exactly where what, except explosions are going off, scouts are sprinting by, someone who looks like an ally suddenly turns into a Spy and starts stabbling.

CBs: Chaos.

RW: Yes. Team Fortress is certainly chaotic, and we're not necessarily trying to kee that. But we are making it accessible. It's almost all in user-interface elements rather than about.

removing features.

CBs Class interactions are interesting—we've changing things there, too, mostly in the way one class complements another. We're incorporating new ways to work together factically—it's all about features. everyoning different prob-

RW: Team Fortress 2 tres to makes sure that no matter what your skill set is, you're incredibly valuable to your team, in the past, TF aftered in places where a couple of classes could function in the same roles.

leas in different ways.

CGW: Perhaps some serious shockers for the purists?

RW: They'll be shocked haspet is hipped [suplet]. The old IT commany has come out of the woodwork, suddenly sending us a ton of e-mals saying. "Me've got the clarb back logether We're ready, man' Let's got!" They's the people with have to pay for our product, and we want to make sure it's something that they went to make sure it's something that they went to make sure it's something that they

them play....
CGW: Is it difficult? The hardcore have ideas
that don't always agree, Where do you draw

the line?

CB: Obviously, sample size is one way. One person on our forums says this class is underpowered; someone else insists it's overpowered.

In some ways, it's subjective, so it becomes about bringing in as many people as we can sussing out what the actual problems are?



and addressing those as opposed to people's personal reactions.

CGW: Sure. So white watching a sufficiently wide cross section of people play the game, you start to see so much of something-for instance, nobody playing a Pyro-that you get past the point where it's subjective. **CB:** That's it exactly.

COW: Steam's friends function is working well. Will TF2 take it further and, say, separate players by skiff? RW: I think the short enswer is "yes."

CGW: Any possibility of cross-platform competition between Xbox 360 and PC players in TF2?

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CB: Technically it's possible, although interoperability is up to platform holders. If they open it,

we can write the code to support it. Once upon a time, we had the PC and the Dreamcest versions of Half-Life: Gentlymatch working together. so we know we can do it.

W: So we've seen 2Fort, What about other maps and modes-push/pull, attack and defend?

RW: Again, we're not talking yet, elfhough I can say that Team Fortress 2 will have classic maps. new maps, and more modes than CTF. One of the things that was two and worked out well in the onginal Team Fortness was the variety of modes and the way that they changed the importance of various disease. Old engines constrained the ways that the Demo Man could modify the world with detailcies. We can do much more now, so I definitely think we'll be pushing that as well as taking adventage of the Engineer's ability to work on stuff, and so on. And pertainly some of the classic maps are undergoing change.

As with all of our multiplayer products—actually. all of our products-TF2's an program program. We're never "done" with it on the day we ship. and we definitely have ideas for other classes with original styles. We define our classes in terms of play style-*I want to play this way. Which class do I choose?"-and through testing we've dis-

covered other styles that people haven't had the opportunity to explore elsewhere. So much class-based stuff sticks to what we'd consider the core-a guy who's good at

combet, a support guy such as the Medic, a technician, and then that's it. They stop night where you start to see the really interesting stuff. like the Spy or the Engineer, it's possible to play as on Engineer without any ability to aim whatsoever. The Spy takes out opponents purely through sneakness-watching how other people play, and using their own behavfor to best them. That's what we find the most fascinating, not more combat classes.



THE MODDERS MAKING FORTRESS FOREVER HAD REASON to hang their heads on what, for the rest of us, was a red-letter

brivess' class-to-class imbalences and exploitsus cracks; the chief trouble is in the s

which players can test the same advanced techniques that viform." TFC-native tricks (read: conc jumping) are ver's stat sys

use and we've given the Sniper tea

mo that allows allies to see may on, Spies can crouch in midair to mu ect. They also stay disguised while firing tra se) rate of fire is slower-and auto-disp

we's Robin Welker says, "It's great. They have different goels, so a not threatened by them, and they don't feel threatened by us. ley what they want to play. And the Fortress Fore n for FF's mekens to hold their

COW: Are physics pasing any impediments? For instance, dealing with rag dolls when Soles feign death? **CB**: Absolutely, Definitely

RW: Yeah, Our philosophy there is to run with it, not to hight it. Instead of saving, "We need to make sure that you can do everything now that you did then." It's "What would we do if we were inventing this game today?" And what we usually find is that we get e bunch of new, much more explana behaviors

W: For example?

RW: OK, maybe I'll talk about the Medic, who's much, much different in Team Fortress 2. We don't feel that anyone's produced a perfect medic in a multiplayer game, and sectainly Team Fortress Classic's mechanism is a chore. The way that you heal people is annoving end hard. You can't do it in the middle of combat, the other person has to be aware that you're trying to help them, and so on. So Team Fortress 2's Medic is completely changed in the way be interacts with other characters and the way he fulfills his purpose as the core support class. Now he's supportive on offense and defense. If you're near one, you'll appreciate

his presence whether you're hurt or not CGW: We hope he can still spread infection. RW: (Laughs) Earlier you asked what about Team Fortress Classic we didn't want in Team

Fortress 2. CB: There's one. RW: Excellent example. That feature fundsmentally says, "Stay away from your teama good signal to send. finally, finally get within range of an actual RW: It's awersome. I keep seeing things

here and there where I want to shake the artists' hands; their work fits the gameplay so well. Watching a Heavy open up, with HDR on his trapers and that massive muzzle flash-the whole thing just looks better than I ever thought Team Fortress would look, it's

CGW: Shipping Team Fortress 2 will

send a good signal. How does it feel to

mates: they might burt you." That's not quactly

1 WANT TO SHAKE THE ARTISTS HANDS

excens./ THEIR WORK FITS THE GAMERI BY 50 WELL.

-ROBIN WALKER COMPURCOM 477



PORTAL Inside out and turned around with Valve's first-person puzzler

BUGS BUNNY-WASCALLY wabbit, videogame pioneer. Slapping a hole on a rock and stepping inside, be'd instantanecusily emerge from some distant burrow. And yet, thanks to modern

scientific advancements at Valve Software, what once seemed phony now works, The proof is lo Porto. Thase little environmental/logic puzzles scaltered throughout Half-Life 2 and HL2: Episode

One? Plehi Nothing compared to what we've played in Valve's first-person puzzler. In Portal, Newtonian law is meant to be bent if not broker. The game's portal gun tears holes in spacetime, creating paths to and from physically

unconnected points; its gameplay challenges players' speto-logic prowess with perplexing labyrinths. The only fatalities in this frencht-free bonus (bundled with Yearn Fortress 2 and AleX Life 2: Episade Two) result from bungled jumps

Partiri's surrole design draws on stark white

backdrops straight from THX 1138. Fiffing on Metal Gear Solid's similarly sportan VR training missions, each room presents a new puzzle that. in turn, teaches another knotty navigation trick Open a portal under a crate and place the exit point over a turnet emplacement, gravity does the rest, as the crate drops on the gun and destroys it. Plummet into one low-Wing portal and use the momentum to catabulit yourself out yet another portal and over a vawning chasm, Sound familiar? Prey recodled with similar nations, but making and manipulating portals—as opposed to simply stepping through them-is another matter. Perhaps you've heard of the little freeware that could called Nerbacular Drog? A student project from the DariPen Institute of Technology, NO (download) it at muclearmoniveysoftware.com) plays like a lean version of Portel, "It's an environment-traversal game, too," says level designer Km Swift, part of Marbequier's seven-person crew Excitable engineer Jeep Barnott finishes her thoughts: 'Originally, we wanted these overly complex kiess-weepons and entire cities full of things to chiese down." However, that was too introate. "so

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we cut it all out, just stick to the portals, and see

what we had," What they had caucht the attention of Velve employees visiting DigiPen's annual student expo. "We strough MD to Notes founded Gate Newell Apparently he must have liked it, because he hired the whole team on the spot," says Swift, summarizing one hell of a senior-project success story. Now, celebrating its one-year anniversary with the company, the team's first pro title nears completion. Right now, though, Portal is in the throes of riggroup playtesting—an important lesson learned from their bug-bitten servor project. "The entire

game is built on player feedback," says Barnett, "The Velve school of thought-test, derate,

test-bas helped improve Portal in every way."

A LINK TO HALF-LIFE Swift confirms that this unique single-player puzzler also somehow ties into the larger Half-Life world: "Think of Portel as a sort of side path that will connect with later epispdes. It's

More satistying is seeing testers work out new his flourish and how we're come to fit ourselves in," Stranger still is that Valve sorbe Marc ways to solve challenges-and inspire gom-Leidlaw places Porte's events between Halfpletely different design. One Interesting observe tion; Women assess the situation before acting, Life's Black Mess incident and the beginning whereas men bon about as if branish for a finite. Finger testosterone if you must, but o'mon. The game, played entirely in the first-person perspective, has you staring down a gun barrel white solving IQ-busting brainteasers. The first urge is to fire a few rounds and burny-hop. We did.

of Holf-Life 2. "Portal is one of those parallelevolution games that's converged on where we're at in some ways. I just loved what they were doing," confides Laydlaw. As per the Valve norm, how it all connects remains a mystery. "Portel," Swift says, "offers some answers while raising other questions." For starters, what's next? That, according

to Swift, is up to the masses and what they want-Porte's features integrated into the Half-Life franchise proper or a full-blown sequel. We say why not both? /

CONTURCOM < 79



HALF LIFE 2: EPISODE TWO into the wild

COW: HOW IS THE EPISODIC experiment going? Mare Laidlaw, writer/game designer: We're still in unknown territory in terms of CGW: So you say, "We want a temperate

storytelling. In Episade Two. we're out of the familiar confines of Half-Life 2, out of the Citadel and City 17. It opens up possibilities-a new setting, new characters, and new events that we couldn't pull off in the past.

David Speyrer, engineer/project lead: Marc has to keep several stories in his head. since we can't predict where gamepley prototyping and playlesting will take the product. The player is another random element in that equation, and only through experimentation

are we able to figure out what works. So Marc stays superflexible in such an unpredictable

forest," and Marg matches his story to fit? ML: Well it works both ways. We'll take a list of levels and areas that we'd like to explore let the artists stretch their wings, [and] let the level designers do the same. Then we'll work that into the story. Other times, we'll settle on a story idea that dictates the enympment. DS: [76 Marc Leidlaw] I remember you really warried to develop the Vortigaunts in HaV-Life 2. They're unique in our fiction in that in Helf-Life I they were your enemies, whereas

in Half-Life 2 they became your allies.

ML: We want to get into who they are, their motivation and special role, in Half-Life 2 we couldn't get them into areas where we wanted them, that sort of thing, so we sart of went. OK, we won't deal with them here, and that changes their story." Now we say why they weren't infecting City 17, why you frequently encounter them out in the countryside. The exgencies of game development tweaked

things, but I'm totally happy with the way it ends up. DS: When we playtested Nova Prospekt-the prison in HeY-Life 2-one Vortigaunt got loose and went around shooting Anthons, I wanted to fight alongside him, but it was very too late to introduce new companion A.I. to Half-Life 2, so we bookmarked it for the future. We knew



that adventuring with Vortigaunts would be fun, and that dovetaried necely with Marc's

desire to firsh them out.

COW: And what role will Vortigaunts play in Enlands Tun? Josh Weier, engineer: Obysously, we didn't want Vorticaunts to work the same way as Alyx, so they do things differently. They shoot lightning bolts and can charge your suit, bringing your health back up. They're also creat against Anthons, and will the them onto

their backs to buy you time. DS: And for consistency's sake, we can't have Alvx die at any time. As allies, Vorts fix that since they're hive-minded and all the same. Also, it's much easier to make an siven endearing. Because we're programmed to recognize whether a person is behaving appropriately, it's tough to make someone such as Alix effective and evocative. With an ellen, you have a little more leeway, and you can take its personality in more interesting

directions. CGW: Just avoid Jar Jar Binks. Have you considered revisiting other Half-Life 1 char-

acters from time to time? ML: So much from Half-Life 1 is still utresolved, and we're having fun bringing elements of the Black Mesa backstory forward. For instance, Dr. Breen was an unnamed administrator-you never saw him in Half-Life-but in Half-Life 2 he becomes a

character. One of the old Matt-Life adjectists. will emerge in Episode Two.

CGW: Shining the spotlight on a new

Barney or Dr. Kleiner? ML: I won't say too much more about him until we roll out the red carpet, but he's a fun personality to inject into scenes, I land of know how Dr. Breen is going to talk, I kind of know how the Vortigaunts are going to respond to things, so it's good to work with these characters when putting scenes

together CGW: Ah, so Dr. Breen is still slive? DS: (Laughs) Hmm. What? Let's look at this vehicle. >



JW: We wanted a vehicle that looks, feels, and functions unlike what the Resistance used in City 17. A car created to kell zombies. It's cobbled together. The muffer is armped on, it has fenders from different cars, a cowcatcher on the front...NPGs interact with it in interesting works. The lithe zombie actually leaps onto it to attack If you swerve, he swerves while still hanging on-the way he would in an action flick. To clear him off the car, you'll want to smash into a well. DS: Alles can catch notes, ton-

CGW: Are these vehicle segments as straightforward as those in Helf-Life 2? JW: Some maps are massively poplinear. The jeep's a great way to get around, and so we wanted to make big maps.

82 > COMPUTER GAMING WOFLD

or AGEIA is doing?

scientists working on a superimportant project them. The big enumpments between City 17 and the missile sito required us to change the way we build maps. We render a few dozen trees and then replicate those in slightly different opentations and positions until it feels like a full forest. Look at this: See how the Strider demplishes this house? [Reloads and replays scenel it collapsed differently that time. That's cinematic physics

mo through the countryside, raging Combine

forces to a missile allo in the White Forest.

The goal is to rendezvous with Resistance

CGW: How different is it from what Havok

DS: Gray Horsfield (who worked on destruction sequences in The Lord of the Rings and King Kong for director Peter Jackson) translated his techniques to game development. The initial destruction event is canned animation, then we hand off some of it to Havok simulation. We use it to do much more spectacular stuff without slowing the com-

puter down. [Attempting to take on a Strider! Bear with us on this Stnder Buster demonstration; we're using a pumpkin to represent it at this point. The goal with this weapon is to get Gordon

down underneath the Strider. It's a comboweapon; it works as gravity gun ammo--similar to G4-and then conventional weapons detonate it.



GW: (A smeller Strider appears onscreen) It seems strange to talk about this sort of alien

And that's the Hunter....

Mill. Every time you encounter a new creature, you want to know how it fits in with the Combine. How does the Combine use them? Where did they ongrate? We're fisching out the whole topestry of Combine creatures and

the ways in which they lik together.

Dis Hunters, for example, accompany.

Striders. They're pack creatures designed to pursue players into all the spaces that Striders can't. And they emple.

Ted Backman, senior artist: Think about the way we read faces: raised eyebrows, squirting cyclids, flaring nostrils. Now imagine that for Hunters. The eyes retrect inside of the head. The purits dilate, much like Doo's does.

It seems strange to talk about this sort of after and acting, but I think if I read really well and people will intuitively understand the different emotional states.

emotional states.

CGW: After seeing Dog in action, it doesn't

seem strange at all.

TIB: Dog's performance in Half-Life 2 and
Episode One made me want to push dramatic
acting among monsters. It's one of our poals

D5: We also want to breathe more life into Antions—let you look at their life cycle, social structure, and that sort of thing. We think you'll get a kick out of wellking through Antion trunnels, and, yeah, you'll definitely deal with Antions in new wers, and see Antition variants that you've never seen before

in Half-Life 2.
COW: Speaking of NPCs, what can you tell

CGW: Speaking of NPCs, what can you to us about the big tense from the beginning of Episode One—the Combine Advisors escaping the Citadel?

Ds it's one of the interesting things about episodic storystelling. White working on Half-Like 2, we'd revise this whole story as necessary, Here, however, we create an episodia and ship it. Episode Two can't revise Episodia One. That issid, we always had plans for the Advasor—we foreshadowed them at the end

of Helf-Life 2, and we showed them in HL2: Episodo One. We'll flesh them out in future episodes. >



ML: These teasers aren't applicantal. The fact that the Advisor scene is there in Epigode One is a strong sion that it's significant. In a lonper game, we could put something in simply because it's cool. Here, we often end up cutting it. Things have to do double duty. They have to be good for gameplay, they have to add to the story, and they have to look great. There's less and less extraneous stuff in each episode.

CGW: As you trim away accidental and/or nonessential experiences, are you afraid you might paint yourself into a corner? ML: We try to avoid inconsistencies and contradictions, but even if we think that we've parried ourselves into a corner, we'll find some way out. That's the fun of it. Every now and then, though,

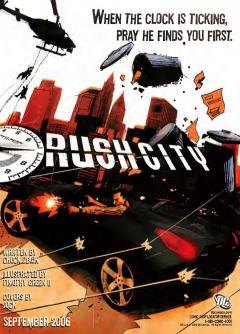
you'll find footprints in the paint! [Laughs] With HaV-Life 2 we were thinking, "We want to make sure this is expansive." In Helf-Life 1. Mesa, But I'm often amazed by it, because. as I said, we're still pulling stuff out of Black Mese, and its backstory figures significantly into the episodes as we move forward. CGW: On moving forward: Previously you referred to episodes one through three as "Half-Life 3." Is it only a trilogy?

we didn't think about anything beyond Black

ML: What we're working on now is a threeepisode trillogy. And what lies beyond that.... DS: Is unspeakable! [Laughs] Any conclusion we provide to any story arc will leave unanowered questions. To me, that just seems right. Our players are participents in our fiction and it would spoil a lot of the fun to tie a little bow around

every question for them. /

'ANY CONCLUSIONS WE PROVIDE TO ANY STORY ARC WILL LEAVE UNANSWERED QUESTIONS...THAT JUST SEEMS RIGHT. -ORVID SPEYRER ENSINEERIPROTECT LEAD







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VIEWPOINT

HIS FIRST! THE COW REVIEWS SECTION IS NO MORE, HERES HOW VIEWADINT IS DIFFERENT!





chas end updetss s ing you need to kno



INSIDE >



Civilization IV: Warlords More givs, more scenarios-more ways to net obsessed all over again.

THIS IS NOT A REVIEWS SECTION

The astute among you have probably noticed a bit of tinkering going on with the Viewpoint section over the past couple of issues-namely, the addition of a 'Reality Check" box on each featured game noting review scores given to the product in question by major gaming opinion sites. For those of you who want scores, that's what the 1UP Network rumber exists

for, 1UP's PC reviews-all scribed by the very same snappy writers whose witticisms you're about to read-form the baseline for what you see in this section each month. We include those other guys' scores as a frame of reference for readers curious about some of the other points of view we occasionally refer to-a shocking inclusion for a section called Viewpoint, vin know.

completely true-but we don't want you to look at Viewpoint as the typical reviews section that you see in every other magazine (hence the name change). Yes, you can find opinions on games now available in stores. Yes, we attempt to provide relatively timely coverage of games you might be interested in playing. Beyond that, we go a cut above the norm in our content thanks to all the elements spelled out in the handy FAQ below. Embrace the change-we definitely have

OK, so the headline on this page isn't

EDITORS' CHOICE AWARD QGW's reviews don't concern them solves with scored resturbloss; you can Sad those of SIR core well before the mogazine avives. Our Editors' Choice emblers signifies the best in PC greens.



They're coming to get you!



Wanna trade cards with us? Eh? Eh?

EQUENTLY ASKED QUESTIONS ABOUT VIEWPOINT





CIVILIZATION IV

Too much is never enough

GODO EXPANSION PACKS CAN'T MAKE on a game that wound up in some r sleeves of the back of your dosk? A good soon pack makes it all worthwise,

THE ONLY SUBSTANTIVE DIFFER-ENCE ABOUT THE WARLORDS

what these games are all about...right? Trust entries work. In fact, they're the

TREBUCHETS-R-US

ne totally broken messes. But the real chal-ge lies in the limited range of action evalish

EXPANSION PACK IS THE INCLUSION OF FIXED SCENARIOS. 88 > COMPUTER GAMING WORLD





VIEWPOINT O

WARLORDS

imposes limits on the player's actions, it must do so very carefully to avoid under frustration—and orly that works beet is the one that

works very well in multiplayer. Some of the or scenarios, like Omens, don't work well at .so, just like every other part of this package girling and restricting the game's scope

ne of the British Isles. The goal: Loot, loot loat. You can even ransom cities back to their ners, with the provise that once-ransor antis. So, of course your ultimate goal le to rensom every city re-and then build up a massive armada to

operly. That's what Vikings do. montion the fact that Wiwlords also features buildings specific to each civilization? It's rately, perhaps the reason Warfords ie so ood in eimply that enough time has p

Worth your money? Yes. Worth your time?

ome back and take them all again, plundering

since the release of the original game, giving you plenty of leaway to appreciate it all over again./Bruce Geryk GAIVING VERDICT

That depends on your valuation system. REALITY CHECK IUP NETWORK GRMESPOT COMEGGV

8.6/10 3.5/R





Meh

ADDITION SH Seniors (DOCUME). One Processed States (CDS). Action (CDS) Annualists' Serial Size.

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MOST EXPANSIONES SIGHT A FIRE LIP batheors inveiling the most of a quality register and varietying the last done from a treat property. The string Is, within able of the line a given expansion fall are in least a matter objective neight and more a matter of how much you fixed the base game. It's falling, then how tills commerciny gentrections or fare-base exists for developer Gas Provened Garres' new exists for developer Gas Provened Garres' new

sign? Well, in the words of Orear Wilder. There is only one thing in the world worse than being sided about, and third is not being sided about. Desgith the ho-hum-ness, a few honest-to-positions, objectively identifiable simmight and evaluations of him frough. The two new classes with misses that scream "marketing depertment"—see sidebur for detail at and one new size.

the edded content provides in few more solid hours of hack-n-stash. On the other hand, Brot World's graphics are an dated as a milk centen and its story thinner than Lindsey Lohan... befor her intervention.

SAME AS EVE

90 > COMPUTER GAMING WORLD

ood or bed, though, the new stuff doesn't dd up to much. As GameSpot's Mueller poin d, "(Broken World) doesn't bring mything to ungson Siege if in terms of the slory, and it's durageons of us the final one is title more than metal force continuely, with most of the experitive flower remains rimally enhanted from the base provide good dishlenges, regulating some too for grain and divers theirs to defend them, you wind uptilities the same ones expendedly throughout. In the continuely are the continuely are the flower seconds for citizen or an expense of the continuely are the con-

Other supports the claim-rung gramphs, the multiskeper mods, and the spells and weapons) remain completely unchanged. Then again, the lack of change deem? recessarily equal failbur, as long as you meintain an "I shi'll broke" attack about the original Dungoon Series. The garring industry is find with socuries and expansions that radically after a terries, only

GAIVING VERDICT

Only dichards will warm to this by-thenumbers expansion.







A LITTLE BIT OF CLASS

I man providency in cut on a feasin flighter, unply, or he may be compared to control changes from compared to control changes from the control changes from the control changes from the first first first from the first first first first from the first first

queedon: Why not just retool the engso as to cut multiclessers some elect and allow us to choose our own path strough the character tree? Lord kno i could've cleaned up as a dust-class

INE OF ATTA

VIVA LA REVOLUCIONI IF YOU LOATHE SPENDING MONEY ON

wer games of questionable quality that keep covering all the same old crap, you can't do much better than 1848, download

able free of charget from Battlefront.com. As its name implies. 1868 covers the Hungarian Revolution of 1848-tell me if you've ever seen that in computer form before. The Hungarian Ministry of Education sponsored 1848's development, and Battlefront.com used

this bit of povernment terpesse to promote its latest war game. For Libertyl, which covers the American Revolution and comes from Hussar Games, the same developer responsible for 1848. Furthermore, the two games share a common system...so, changes are, if you're into 1848. you'll also onjoy For Liberty! The letter geme costs money (you can try a brief demo before you buy), but frankly, I like this "get one free, then buyy

one" system of game marketing; in this case, it gives players access to a game about a period of history with which they might be unfamiliar and then gives them a reason to try it out. Obviously, this kind of thing isn't going to work for many other war games, because

not all of them can receive funding from big povernment institutions like the Hungarian Ministry of Education, However, Battlefront .com gets props for recognizing the opportu nity here and using the game as a marketing tool rather than trying to charge even a mod

est price for it And if you're still hungry for American Revolution material efter For Libertyl, by Butin

of America from www.ageod.com. a PC game from the designer of the original flances Universals board game. / Bruce Geryk





VIEWPOINT

WAR-BLOGGERI



AVIATOR, MODERN TECHNOLOGY, CLASSIC DESIGN

With its reglistic feel and authentic design, the new Saitek Asister puts you in control of the most thrilling flying experiences ever. Whether you're cotrolling the chernel or lending a buth plans somewhere in the wilds of Aleske, the Aviator cives you unprecedented commend over every situation. Scultped by engineers and molded by entiets, the evistor propels classic existion into the 21st century. So as you prepare to embark on your next adventure, put the Asister into your cockpit and head for the clouds...

Our independ of threttia controls with interlock

- mostible with Windows 2000, XP, XP64

Saitek*





A tre called a Chilippelis...but It's more like



PLEUDNETT ZK GAN PECKNESS-1,0694

WERE YOU TO KNOW NOTHING ABOUT history except what you learned from PC games, if depley you for believing that Rome was the world's cell years tempin worthy of a game invalidis—or, in the case of 84s recessor occase, has of 4m .CDVs Glay of the Romes makes to the history. And the second of the case of 84s recessor occase, has of 4m .CDVs Glay of the Romes Empire led the charge, and the second of these sizes. Glatter Romes is a infendation cold these sizes. Glatter Romes is a infendation cold these sizes. Glatter Romes is a infendation cold.

of these sime, ClvGly: Rome, is an intriguing collaboration between Civilization's Finads Garnes and Stronghold's Firefly Studios that, despite its positive qualities, excels only at dull mediocrity.

SIZE MATTERS

Al find, Rome famili like a transp mediumistemby dry peru, well suited to coust players or veterans with title appetitis for hardone mih-spine person equals 100 obtains, with simple resource-production charins varied anough to make each or layer deathers. The garm's best involvation: a meliatic expressimation of efficien lib that allows you to disprose problems by witch-

In a clause your may a man gaining flather than by comining through info boxes and stables). It is il works cush ackey—will your only gets too big. As a class grow, the game unmeets, and Amore's apparent accessfully begins to seek!, Amore's apparent accessfully begins to seek!, instead, like a cop-out. The production challen that made the and yourse or companying other bocome harder to troubleshood or simply break down (1th hard to sid which). The low zoom-out and unchangeable viewing angle prov. unwebtable clause produce. And, without any useful hock that is the clause of the clause of the clause of the clause and unchangeable viewing angle prov. unwebtable clause produce. And, without any useful hock that we have the clause of the clause of the clause that the clause of the clause of the clause that the clause of the clause of the clause that the clause of the clause of the clause that the clause of the clause the clause of the clause that the clause of the clause that the clause the clause of the clause that the clause that the clause the clause the clause the clause that the clause th keys, belief at the garriels bein pace becomes hybrically rising and three letted represents to progress. "If for coals and "It for bousses". The company made that the large letter is problem by moving you to a new land study may be presently may self any seconds. For them hybrids, this structure forces you to an Grandpool release that the follow is "I had the same turns over and over again." Venne sit, you quidsly reading that the best with cartier mediate reading that the best with cartier mediate reading that the best you traffere mediate present the progress of progress and down with your following and down with your following and down with your large forces.

by posinding in the line few pieces with a maket. Your office and up aloppy and disorganized...but that's the next governor's problem, right? RENDER UNTO CAESAR Even before they reach this state, however.

the clies sent i much to book at Most critical necept for IGMV van forpring reviewell pointed to the genute "tight" aesthetics, but that is a bit misesting. Yes, the building sales too screene "monotorsus" and overphisps too screene "monotorsus" and overphisps that is a bit misesting with the screening "to be provided by the control of the control o

TIME MACHINE OR A DUSTY SHELF? Everything about the geme, in feet, seems so 2002. I'm unable to escape the feeling that Rome we an unhappined and rightly shelved jume that go a second chance with the Infusion of Plants brainpower. Still, not even the Chikkwation term's most substantive changes punctrate more then skin deep, as if the game was just too finished for any fundemental attentions, ignoring the purely coarself changes (the celling the collection of Roman

trida « "CARopedia"), the attempts to put the On' in Ordity. Rome do improve the game a Billie, but they fell for short of their promise to—as lead designed Ellion Bloodbuy seld in an interview—put "the cities of Chikzastion under a magnifying places. [carrying] on when their further zoom level of Chikzastion left off. One could imagins the great game we'd have now had Bradbury kept that promise. Pentapo so worthantic (sits-builder can Pentapo so worthantic (sits-builder can Pentapo so worthantic (sits-builder can promise).

sprout from Civilization IV's city concept, but it would've basen rates to know that center one gave it an innerest ty, Better their kind of failure than the past hoc patchwork of Civilizations. / Greg Kramer

CALVILIZE

VERDICT

At this shotgun wedding of the Civilization and Caesar franchises, no one catches the bouquet.

IUP NETWORK SAMESPOT

BAMESPY

8.6/10 3.5/5 8.2/10

EVERYTHING ABOUT THE GAME SEEMS SO 2002.

92 COMPUTE CAMPONDED



EITS ALIVE!

In COUNTY and of Time Learning from Management of the County and of Time Learning from Management of the County and of Time Learning from Management of the Manag

than elittle surreal-picture Willy Works on even

POPCAPE MIDAX TOUCH WINE PAPER WIN ON A 190 MID AND A 190 MID WINE PAPER WIN A 190 MID WIN A 190 MID



VIEWPOINT O



Fight in the eric on the ground. Fight in the cerebral or at see, Fight withing the day or through the dark of right. Fight with wider Fight with might. Defined your emility, whother the cost may be, Petrol the alide. Next down your enemies, Alback your flow. Never retreet, Reven currentle. First with cend, Five this sees, First with these weakons and visitory with by sours. So on the contractive called the hand with better.





a nep. I'm hungry, thirsty, hunted...eli of this in The Ship, I should nay (what all the out-of-proportion MMO players there who'd sooner orep in a nock than

an in the top hat and coattails is a; I've seen him pace the same corri one, two, thrae times. Seme goes for the one with the graying bob, me d out of third-class cabins, be

ard (or whoever, among the 14 other

ers) follows us. Each voyager is both at and triggerman, whereas Sime-lish

D CAMES ar face is paramount: Only an ass

dump...while the next needs to accur the dack just for a knitting needle), in bed luck, hold out; in good luck, hold in.

op for a bite, I risk a knife in the back

ignore those needs and fetigue sets in, mak-ing me an easier mark. The rule set is simple; the psychology is something also.

Fortune eside, satisfying executi

this Ship...assuring a half-wit you're a noob king for a tutor and not his life, only to off him as he typ es; polsoning a set thaning man ser in secusive the mostly librily, in my mind, The Ship is mostly nune to the bugs and imbalances other ics carp on. Physhe yourself out, Piley it hart, on egals, off-again stretches—not

UNSMOOTH SAILING

ilt's \$19.99) not to try. REALITY CHECK

TUP NETWORK BAMESPOT 8.3/10 BAMESAY IEN

94 COMPUTER CAMING WORLD

THE RULE SET'S SIMPLE: THE PSYCHOLOGY IS SOMETHING ELSE.

N INFINITE SERVE 'S MONTHLY TRAVELOGUE OF THE ENDLESS MMORPG LANDSCAP

PACIFIC BY NIGHT

in the wants desired, one grands unforgiving kill-or-b-lited etmosphere, we randy needed to look any further for our extensisment. So we took off armse the docks of filters brus, and into the thick of Britannia's urban tolgish—with two unarmed furferes you count

meintained house in U(). A quick inspection of the tamer's pookets revented a fresh house deed—obviously intended for the soon-to-be-empty spot—slong with some spectoesting.

YOU ARE DEAD. camper while I carefully trapped the nightmare owner. After looking the terren's corpse (and letting our orininal timers expire), we wandoned into an even more elseurd attention further equits. Two trash-taiking mages dueled outside their guild house, clearly focused on honling their med PVP ekills. Shari wasted no time in telling How exactly the ensulno moleo unfolded I do and valuation from the mages' casespools white Sheel ran around trying not to get killed. He managed to elude them long enough to plot up a poleoned buther kells (also the weekest weepon in the gerrer) from a neetly physie-owned weapons to the gerrer) from a neetly physie-owned weapons vendor, which i'm pretty sure enother, I know that this particular comedy of

PHAT LEWTZIN111111111110NE111 On the other side of the moongate, we found where the old house set not an hour prior. We immediately hid near the moongete, rightly expecting the new tenents to drop is, hauling furniture and other possessions. Moments later, ging"-thet is, alternating the goods between

Man., those were the days, A Ryan Scott

WE DID WHAT ANY GOOD HELL-RAISING

TROUBLEMAKERS WOULD DO AT A TIME











TOM vs. BRUCE



TOM: SEVERAL PEOPLE RECOMMENDED. PowNors, a new online CCG, to Bruce and I, They seed we'd like 6, because it's turn-based, and you can build decks and use lots of different strategies, varido varido varido, it sounded right up our alley. Plus, the game we were going to do. Sword of the Sters, were mally awful, and we wanted an excuse-ony axcuse-to not play if. PoxNore gave us just

such an excuse. BRUCE: I thought I was going to be playing a collectible part game for "CCG." as two gave like Tom call them), but I had to play a web browser first, instead of actual gards. I got a list of my cards, which I had to page through to "activate"

the ones I wanted in my deck TOM: Nothing like a clumry card-sorting interface to make a bad first impression in a CCG. However, meybe this doesn't apply to PosMore. since they're not called "pards." They've called "runes," which is apparently another word for "cramped 2D graphics that don't convey very much information at all." But we wouldn't find that out until we got into the ectual namer in the meantime, the deck-building process—although I'm not sure you can actually call a collection of "runes" a "deck"—was indeed a big hassle. So I just randomly picked a faction ...let's go with, umm, dwarves ... and threw in my rarest cards.

BRUCE: Every CCG deck has to have a theme, or it doesn't work. Tom's theme, for instance, was dwarves. My theme was boating Tom by rooting all of his monsters and then making the ground under them turn to water and drown them, Actually, Lonly have one Drown card, but it seemed like a pratty good way of taking out a big Chicken moneter. Plus, it's realistic,

because drowning is what happens when you go in the water Another part of my plan was to have all kinds of ranged units, like centaurs and faene marciens, to attack agross the newly instelled water obstacles. Unfortunately, a lot of the ranged units seemed crappy, so I filled out the deck with a bunch of rare, expensive dudes.

TOM: As everyone knows, dwarves excel at making money, Dub-we're talking Fantasy 101 stuff. So I made sure to include a few moneymaking runes; a pair of Deep Miners and a Nora. Mine. I figured it a sound strategy, since most strategy games come down to some form of economic management, whether you're trafficking in mana, gold, pox, isk, or fiberium. Besides. using my real-world knowledge of dwerves and the economic principles of strategy asming bests. the hell out of trying to figure out what's going on with the runes in Portions (us., choking through my web browser to page through a few dozen

runes, each sold into two separate displays, to

deduce which rune pets which special attacks and has which special abilities and courters which other runes and other such information

that the rune browser taken forever to ket from kin' teli me almadyt. Before we've even begun, I've got a bad feeling

about PoxNore. BRUCE: I start by bringing out my Draksar Lard, which I put in the deak because he's big and scary and costs a lot of mans. He also takes up four sources on the map, which gives him the

disadvantage of covering up units that end up directly behind him. If he were smaller, he'd have the disadvantage of being covered up by big units directly in front of him. That's a real difernma. I suspect the solution less in overhauling the interface, instead of remodeling the monetary

TOM: One of the first things we hate about Poxitions is the time limit it imposes on our turns









When Bruce's shrine gets dest releases a blue angel, which is possible and in the backstory some



YOU HAVE TO REMEMBER NOT TO INTERACT WITH THE OTHER PLAYER SO THAT YOU CAN SPEND YOUR VALUABLE TIME

We can't turn it off, even though we're playing a nonranked game for locks instead of one of the supercompetitive tournament ranked games that goes on your permanent record. So I have two minutes to figure out whether I should use my Dwarven Axe Guard's Sunder ability on Bruce's Krikimwns, how worried I should be about his First Senagrate, and whether I should instead try to use the Interrogator's Sapping Blow-Wart, war, what does Sunder do again, and how much damage has this our taken? Oh, he didn't take arry damage...but one of my guys took damage...gops, time's up and the turn's over!

This is also a problem because Bruce and I are pretty interactive when we're playing games. Here's an example. BRUCE: I'm summoning a Drakser Lord, He's big and scary and costs a lot of mans.

TOM: It's not "mans." It's called "nors." That's. why the game is called PoxNora. BRUCE: I pan't be bothered to remember a new word every time some developer decides to make up he may been for an elt or a marin sword

or a wizard or some damn thing that already has a name TOM: Nevertheless, it's called "nora," ICE: CK, I'll call it "manora,"

TOM: That's anti-Semitic. BRUCE: No. it isn't. And you're not even Jewish. You don't even know what a menorah is-

TOM: You don't know whether I'm Jewish. We've never even talked about religion. BRUCE: You're not Jewish. And we've never talked about religion because we can't get past politics, because talking politics with you is like talking to a brick wall that only listens to NPR. TOM: At least I don't sound like some Bill O'Reity wannabel

BRUCE: Hey, your time just ran out, I guess it's my turn again. TOM: So that's how PowVore opes with a time limit. You have to remember not to interact. with the other player so that you can spend

AL BAIND THE DAME your valuable tree playing the game. It's like an unholy combination of turn-based gawing and real-time gaming. BRUCE: Bringing out my nonthing, non-

reposed Draisser Lord first kind of subverts the whole deck theme., but since my fantasy knowledge comes third-hand, my understandleg is that big, scary-looking monsters usually win monater finhes. Bucht now I want to point out to PoxNora developer Octops that, much as Laner Squard Nermann' Julian Gollop shouldn't have named a unit a "missile tank" if it dicin't have any missiles, you shouldn't put wings on

a monster if it pan't fly. TOM: Not a lot of interesting stuff happens in the early turns of Postfora. Basically, we both summon champions and then spend action. pants slowly welking our champions toward

each other. BRUCE: One of the second things we have about PovNova is that it's confused about whether it's a CCG or a PC game with a bad in-

terface. When you're playing a GCG, you have to keep track of different types of effects, damage. and all the things that happen in fantasy worklis that you need to simulate. With all the cards assembled in front of you, it's usually easy to see that-for example-some guy is down to three hit poets, because you have to have it marked

with nomething. You gan agan gard effects by just looking at the cards in front of you. I'm told information wants to be free, which is why the CCG was invented in America. But in PoxNora, everything is cutesynutesied into these hry runes, which you have to mouseover to see., and you can't rotate or

zoom in on the monsters on the map. So part of the game is just hunfing for information that should be way easier to get. How many hit points does Tom's dwarf our have left? Not only do I not know, but I have to pick him out from behind two much larger monsters, thanks to the fixed perspective and cramped unit placement, Guys, when you design a map, >



while his Earth Golem slowly walks to war

O VIEWPOINT

don't make the pieces as big as the spaces. That's like Elementary Rule 1 in board-game design, and since this plays out like a board game, you might want to go pick that book up at the library

TOM: While our units trudge toward each other, I summon a Battle-Raper. That's right, a BattleRager. He must be called this because of how he totally rages during battle. Having clicked on a few different displays and scribbled some rough catculations on a prece of acratch paper i'm using to keep track of all my units, i've deduced that the BattleRager is my best unit, Hisspecial abrities include Berserk and Whitwind. which is what you'd expect from someone who totally rages during battle.

Also, I believe in health care for veterans; that's why I put Desperate Heat and Priest of Valdac into my deck. While I'm reading the flavor text to figure out who the heck Valdac is, the timer runs out and my turn ends. Remember, kids: When you have a time limit, study the cards before you

play the game BRUCE: One of the fatal flaws in PoxNora is that your deck's success heavily depends on which map you use. For example, a map with a lot of water on it heavily favors amphibious and flying units, like the one I summon before ending

TOM: "Champions." They're all champions. That's the word you're supposed to use. BRUCE: This beetle thing called a Knikerwing

is a champion? **TOM:** PosNora is about special heroes called champions. They're not all human. Some of them are Kriskinwings. That's how it is,

BRUCE: I'm not going to take a PoxNora history class just to be able to refer to all the pieces properly. TOM: PC games can have backstories, you

know. Not everything has to be a board game. PoxNora is no board game, BRUCE: You can say that again. Anyway, as I was sewno, if you build a clock with a lot of amphibious units and you're on a waterless map. you're like a fish out of water.

TOM: Fish aren't amphibious. BRUCE: Maybe they are in PoxNora-land, By the way, your time ran out again, it's my turn. I guess I dich't think this whole thing through so well. My centrur archers aren't doing much damone to Torn, who esems to have become involver-

able through some dwarven sorcery or something. TOM: As everyone knows, dwarves and barbanens get along. They probably hang out and talk about stuff like the best kind of grip for a battle-ax and whether you should put points into Constitution or Strength when you level up. So. neturally. Eve not a few barbarians in my deck. My favorite: the Renegade, who seems inspired by the Lorenzo Lamas series and maybe even the Stixx sono. He has a woman randomly lodged behind his right knee, as it she got stuck there while he was striding through a village. For a berbenen, he's sporting an odd haircut, halfway between a Prince Vallant and a Fabio. My theory is that it's the brecut that makes him a Renegade BRUCE: Lh-oh. I have a Draksar Lord, but Tom has a big tood with huge teeth. I have no

idea what it is, so I have to go click on it and try

to figure out what it does. Well—it has now many



BRUCE JUST USED WHAT THOSE OF US WHOSE GAMING HABITS ARENT LIMITED TO HEXAGONAL MARS OF WORLD WAR II BATTLES CALL A 'COMBO.'

TOM: It's an Earth Golem, and I'm pretty sure it's an awesome unit, it's tough and powerful... but it takes forever to get anywhere. It spends several turns slowly furnitering toward Bruce's units. If it ever gets there, I'm pretty sure it will

be totally awesome. BRUCE: Plunk! Or is that "plank"? Answers I drown Tom's Earth Golem using my Drown card... sorry, my Drown "rune," I'll cet it back through rune regeneration eventually, because as far as I can tell, this game never ends TOM: Bruce just used what those of us whose garring hebits aren't limited to hexagonal maps of

World War II battles call a "combo." It's not a term familiar to people like Bruce who are over 40, BRUCE: Uh, I'm not over 40. Tom is 40. DM: Not reelly. I only just turned 40. BRUCE: Which makes you 40 Oh, and

TOM: This isn't about my age. BRUCE: You're the one who brought up age

TOM: No. I didn't BRUCE: You said, "people like Bruce who are over 40." It's right up there. TOM: Ch, right. But still.

BRUCE: Hex your time is up again. Now it's

TOM: The word "interminable" comes to mind. Not Herally, of course, because then we'd never have written this article. But our match does have a sort of World War I vibe. Our units meet in the meddle and die. Then we monut new units, who most in the middle and the. So we recruit new units who meet in the middle and die. And so on, I might gain a few squares, or even a nora node...but then Bruce gains a few squares or receptures his nora node, and we're right back to where we started.

But I have a plan to end this war before Christmas, and it involves a rune called Divine Dispersal, which disbands all units on the field and refunds half the cost to their owners, If I can do this night after I gain control of a nora node near Bruce, then I can use my financial advantage to immediately summon a wave of powerful attackers like Renegades and Batt-

leRegers. They will advance on Bruce's shrine, overwhelm whatever defenders he can afford In bring out, and then destroy the shape, while my Earth Golem looms in the background. slowly walking forward.

BRUCE: Finally, the game ends, I can't help but wonder how bad Sword of the Stars could

really be. TOM: Having won, now I can go to the force and improve my runes. Instead, Bruce and I make a list of the people who recommended PoxNora, so we can regard their recommendations with the appropriate amount of suscicion. We fitte our list "Recommendation Probation" and keep copies in our wallets and



Behold The dramatic spectacle of Tem's



These numbers are the spells of victory.

REALITY CHECK

YOUR HANDY GUIDE TO WHAT WE SAY—AND WHAT THEY SAY—ABOUT THE LATEST IN PC GAMING



CITY LIFE
We say: "City Life is the fresheat



BONE: THE GREAT COW RACE
We say: "By the time you don't have
ing some real fun, it's over, it's fine for
gamers who don't misd waiting mouths
between spisodes, but if you went to get the
real charm of the story and mi, it's but to
just read the com'to book."

Sarsh Jaisser Green, tURcom (4/10)

toke on the city-sim germanear to the on the city-sim germanear to the city-sim germanear to manager to be both so challengingly complex to its more generated for reverse and more occessible to chausi or more philosophical players. Nice trick."

—Greg Kremer, 1UP.com. (8/10)

DARKSTAR ONE

We say: "DerkStar One proves that
the term tried-and-true" doesn't just
meen been done. 'While it does nothing
innovative, DerkStar Dne does a lot of things
expiritly within a genre that's, eadly, fallen by
the wayside in recent years."

-Eric Neigher, 1UP.com (7/10)

They say: "Bone: The Greet Cow Roce in what it is, lith a very well-designed, well-drawn point-end-olick adventure that harkens back to the days of old."

—IGN (8.0/10)

—Greg Kremer, 1UP.com (8/10
They says "If the player is witing to dig proug!
the messy presentation, there's some fun to be
had here... With a title more effort and polish,
City Life could here been... wetl. a foll.

They say: "Although the flaws can lead to some frustration, they never get in the way of that "just one more mission" majo that can keep you pleying the game into the wee house."

—GameSoot (B.1/10)



TIYAN QUEST We say: "While It may not breek, WORLD WAR II COMBAT:
N/O JIMA
We say "froe thre locks and plays like

we say! "Not too had for the \$14.95
price tag, but still disappointing compered
to the [previous expansion]. With the stundance of free mode out on the Net, [Abounder]
just isn't great enough to be a 'must-bay."

—Di kuo, 1UR-com (7/10)

e tech demonstration from a couple of gifted grade achoclers, with deplorable graphics, dlurky controls, and completely seitmeginelity level design."

—Di Luo, 1UP.com (3/10)
They seys "If you're looking for a chase

They say: "I'm cleays good for an excuse to restall (developer) Creative Assembly's Total War certes and the Alexander's xpansion is definitely a welsome adultion."

—IGN (M10)

They says "The only thing that keeps 70an They says "Guest from being the consummers Datable score shooter, go is (thus) it's missing the robust mustipleyer implementation that 6 izzard resized with Bettheret." to here a beGarneSpy (3.5%)

shooter, go to the etem and grab any game off the shell and you're practicely guarantee to have a batter game than this one."GamoSpot (2/1

SCORECARD Available

	Woll algenery				
GAME	RELEASE	IUF NETWORK	GRMEBFOT	GAMESAY	HEN
Sone: The Great Cow Race	April 2006	4/10		-	6.6/10
City Life	June 2006	8/10	7.8/10	3/5	6/10
DarkStar One	Aug 2006	7/10	8.1/10	-	-
Glory of the Romen Empire	July 2006	6/10	5.6/10	3/5	7.6/10
Night Watch	June 2006	4/10	5.4/10	3/5	6/10
Rise & Fall: Civilizations et Wer	June 2006	5/10	5.6/10	2.5/5	8/10
Rome: Total War-Alexander	June 2006	7/10	8.5/10	3/5	6/10
Titan Quest	June 2006	7/10	7.6/10	3.5/5	8.1/10
Wings of Power II: WWII Fighters	July 2006	9.5/10	-	-	-
World War II Combat: Iwo Jima	July 2006	3/10	2/10	-	3/10

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C:1UP"

SOUNDS GOOD

SOTT-FRE MILLION YEARS AGO, WHEN indicasure and internal-speaker-only PC3 still waised the planet, game audio—where it exists exist waised the planet, game audio—where it exists did still—bletted in menophonic "plays," "thereis," and "boops." If you were so bold as to track open your computer case (it is melh-incorred great and to computer gaming's Paleotitric ergl, that PCI speaker resembled a seriesy after, hold in the top, branish which in solver sixer occidated at variable frequencies, producing sounds only an externelly folgiving producing sounds only an externelly folgiving

pame-mor decid-mouted twee. Than-field, by the late 1980, declosted soundcards arrived to Boble tympamin membranes with sittisty MIOI make and, with the advent of PCI, apple mulchbarned deptal effects that made shall file care regimes sound, well, this actual car engines (as opposed to PCX-promped Bushoute) solid file site for the the chase. When was the last time you took a serious decel-inducing shall through the sudio section at your local gadget bodings or got hot and bothered over some new exocustions.

modeling standard?
These days, you're practically gooded into springing for new CPUs and 3D videocards beamsuity—but chances are, you've been running that old PCI soundcard for integrated acids that "came fee with the compacted" for years. We're all up on the betast 3D video abolt, you want to the property for you know the difference between EAA 4.0 and 507 Octor 51 and 7.17 ACV9 and HID?
Yeah, so might you've year with bagger than

year ears, but as anyone which gone to the trouble of enging Domn 19 surround sound will sell you. If you're sell naring that "out ofthe-but" the-opposite sellut, you air't heard nathing yet. Read or, and we'll sell you how to breath new life ind you games without despoint go got the rick, help you gauge shelling to appraise your saulto oper, and mapbe even throw in a few home-decorating thinks while wife as if.

SONIC PHONICS

You've been chowing the marketing hype about the "dighal age" for decaded, so it never gets old pointing out that when you even sens actually hear when sound pours out of your heip new "Doby Dighal" speaker set (or head-bonely and dighal at all. Your andruma are actually analog-only vibrating receives that pick up confined and waves in the air.

BOOST YOUR ACOUSTICS: TIP #1

The second of the second results of continue than the results in this price of the second of the sec

And yet, from the computer's paranective sound is truly digital, a sense of electrical signals organized into binary 1s and 0s beyond the eer's native capacity to decode-and that's where your soundoard comes in. Soundcards have analog-to-digital (ADC) and digital-to-enslog (DAC) converters responsible for translating those rigid 1s and 0s into throaty growts and screems and thumping hip-hop your ears can appreciate for if you're recording something Eke your voice through a microphone, from analog back into 1s and 0s). Audio quality is thus largely subordinate to the processing "comph" of the ADC/DAC system. So when you see buzz about "hearing the difference" in some new high-end digital audio device, bear in mind that you're not "hearing the digital" so much as hearing the distinction in digital-pro-Cassing quality

That's all well and good, you're probably thinking, but what shout the rest of the magnat, mystinal misarinay adoming retail audio boxes—arcene screnyins like SNR, TRU, and ASICO Chick his quark nuddem on a few of the most common (and commonly msunderstood) audio industry terms. Cell to know these concepts, and you're on your way to servy wido shocens.

THE BASICS

Analog-te-Digital (ADC): Corrects continuous stgniss (i.e., analog) to discrete brinery numbers (i.e., digital 1s and 04). Measured in terms of processon sempling at certain frequence, 24-bit at 96/KHz is standard in toolsy's consumer-grade autio hardware. (64,1KHz is CD quality) higher numbers are butter

Bust Audio variants are either ISA (Industry Standard Architecture, RIP) or the current decade-plus standard, PCI (Pempheral Component Interconnect), which essentially owen the speed at which a soundcard or DOES SOUND MAKE A BIG DIFFERENCE IN GAMES? YOU BETI

solution is able to that with the CPU. Todays integrated and dedicated soundcords use the PCI but into the controlled with PCI Express or PCIe, a newer and significantly state interface primarily paired with high-and 30 cards).

Digital-to-Anatog (DAC): A DAC correcter changes discrete digital numbers (1s and 0s) to confinuous eigniss. Measured in terms of precision sampling at certain frequencies, 24-bit at 98/0t; is standard in bagy's consumer grade auch birdway. (For expression)

ALL ABOUT AUDIO
Forget 3D graphics for two seconds—sound matters, too.







are better.

Digital Signal Processor (DSP): The microprocessor on a soundcard designed specifically for processing the digital signal in real time. Marry integrated audio solutions offload this task to the CPU through software.

AUDIO FORMATS AND CODECS AC'97: Intel's audio codec (enCOder/ DECoder) standard, introduced in 1997, and consisting of a two-chennel ADC and DAC, a mixer, and an I/O controller, A hardware

selves as AC'97-compliant (Creetive's older Sound Blaster Livel series, for example) but include a dedicated DSP for performance benefits, while most motherboards with integrated audio implement the AC'97 standard without hardware DBP, In 2004, AC'97 was supersected by Intel HD Audio (IHD).

ASIO: Stands for "Audio Stream Input/ Output" and represents a protocol for low-

instead off-loaded to the CPU, which meets

reduced costs. Some soundcards list them-

intel's opel of delivering decent audio at

latency digital audio established by German music technology company Steinberg, If Microsoft DirectSound facilitates communicabon between the soundcard and applications, think of ASIO as the equivalent for musicians and sound engineers who may want to access multiple audio enouts and outputs independently. ASIO 2.0 simply enhances the Steinberg ASIO standard, (Note: This has no (Jordan e mag on daged)

DirectSound 3D (DS3D): Often functionally confused with Creative's EAX specification. DirectSound 3D is rather an extension >

HAVING A DEDI-CATED SOUNDCARD ACTUALLY IMPROVES SAME GEBEURMANCES

of Microsoft's DirectX senes of application programming interfaces (APIs) that works with trather than in lieu of) EAX, Where EAX simulates real-world environmental effects, DS3D is responsible for rendering positional audio (in the case of only two apeakers, it uses special afgorithms to "trick" both ears into perceiving more discretely directional audio).

Dolby Digitalr Don't think that we forgot about this little company and its audio formats. In fect, it gets its own sidebar on pg. 105. Awww, lan't it special?

Environmental Audio Extensions (EAX): Introduced in 1998, EAX is Creative Label eolution for synulating real-world audio environments using two or more speakers. EAX 1.0 ollowed such almultaneous "vouces" (sounds) and a sense of environmental presets that simulated ecountics like "bathroom," "hall," and "cave." EAX 2.0 bumped voices to 32 and threw in agust pockution 6.e. the effect of sound passing through a solid objectl: EAX 3.0 tweaked reverb and environment transitions and burnoed simultaneous voices to 64. EAX 4.0 intends and the shifty to madel different environments simultaneously. EAX has continued to improve over the years Ifthe current revision is called Advanced HD 5.65, adding features like 128 simultaneous voice support with up to four effects applied to each velociand improved environment occlusion. Nearly of cames support EAX, and the stordard has remained public (allowing competitors to sup-

port it) amon 1.0. Intel High Definition Audio (IHD): Not to be confused with iHD, which pertains to HD-DVD, Intel released this follow-up specifi-

BOOST YOUR ACOUSTICS. TIP #2

focus, the greater the effect. If you've ever stood in an umpty apartment without "Next a server means and the server means are all the server as the server server and the server ser reverb. Since reflected sound errives after the original sound, it has a distorting

cation to AC'97 in 2004 to support more audio channels at significantly higher quality (\$2-bit at 192KHz output) and enhanced features like improved voice capture and automatic device sensing when plugged into an audio tack. (If plunged into the wrong lack, the computer can actually reroute audio-jack functionality to correspond to the device.) Microsoft Windows Vista will include a Universal Audio Architecture (UAA) driver to automatically support audio devices built to the IHD spec. Note that host processing is still prevalent for cost/ design ressons, resulting in a stable CPU performance hit in audio-intensive games.

Open Audio Library (DoenAL): A moitiplatform surface API with atvitatio similarities

to the 3D-graphics OpenGL API. OpenAL is an open-source API designed to render muttichannel 3D positional audio, with special ease of implementation benefits for OpenGI game engines. Games as recent as Quoke 4 and Prey both support the OpenAL standard.

FOR THE AUDIOPHILES...

Dynamic Range: And you thought this was just something to do with lighting in Half-Life 2 and Obliving? The two are intimately related. and where video engineers express dynamic range in terms of contrast ratio, audio engineers use it to represent the range of input and output that en audio device can process without distortion-that is, the "lowest" and "highest" levels, usually expressed in decibets. Frequency Response; Basically a measure of which frequencies (how "high" or "low") the soundcard can reproduce. You'll typically see this represented as a spread, usually the low number in hertz and the high number in krighertz. Broader ranges are better, but note that the range of human hearing is generally regarded as between 20Hz (extremely low bass tones) up to 20KHz or 20,000Hz (the highest treble toness

Signal-to-Noise Ratio (SNR); Signal atmosth relative to background noise. SNFI measures the clarity of the audio signal in decibels (e.g., 100dff). Higher numbers ere better (notably, anything over 100dB).

S/PDIF: Stands for "Sony/Philips Digital Interface Format* and constitutes a sensiinterface for transferring digital audio from CD and DVD to amplifiers and TVs. This sack is on some high-end dedecated soundcards.

Total Harmonic Distortion (THD): The ratio of the fundamental frequency to its harmonic. Harmonica are undesirable effects introduped by power amplifiers or other components theosob which the gudso signal passes. Lower numbers are better (e.g., 0.004 percent),

INTEGRATED VS. DEDICATED

If you've been building PCs all your Me, you'd probably sooner be subjected to thumbscrews than skimp on a declicated PCI audio card-or worse, use an integrated solution. If, on the other hand, you're a relative newcomer with a standard retailing, chances are you're using an integrated sound solution to power your PC games (whether or not you intended to)

D: What's at stake?

your CPU.

A: Only everything from audio quality, feature support, and bottom-line framerate. Plug-in audio cerds pack dedicated processing chips and boatloads of features, whereas integrated solutions-especially anything more than a year or two old-can put a notable load on

D: What's the thrilling history of integrated audio? A: With the stratospheric increase in CPU

power over the last decade, Intel came up with the idea of off-loading audio processing to those "extra" CPU cycles. The result (in 1997) was a specification for integrating cheap-to-manufacture eudio components on>



WEAPONS OF CHOICE HEADPHONE PRODUCT Rezer Barricouda HP-1 UR. rezerzone.com MICE \$130 Sometimes you can't out a price on "awesome * These powered over-ear headphones feel damn sturdy and sound great. Firm bass, crisp mids, and an inline amp kick your eardrums. In a good way, Want



Powered by leetness!

You can have the herest functions imaginable in your garming righ, but it worth resteat if you can with a chiege gower supply. That's why the Nob HE gower supply from the property of the pro





















round systems. And really, what's the point if you keep falling over all the damn speaker wires in your room? This 5.1 system does a tremendous job of shooting solid sound, and the wireless 2.4GHz rear receiver frees you from trip wires around your PC.

Bowel-shaking earthquakes of audio aren't reserved for the superdope 7.1-channel sur-

motherboards—periectly acceptable for dayto-day productivity software, but lacking in quality features for senious audio repording and 3D gaming, Today, most PCs (desktops and notebooks) ship with some kind of integrated audio.

Q: Wait-so that audio port on my motherboard is "teh suck"? At Your motherboard is a rat maze of wires

crammed bighter than unpooked ramen needles and pulsing with current. Interference can thus with an SNR below 90dB. Sure, you're not as likely to hear those tiny poos in a newy tracfest, but in more subtle gaming situations, or if you're simply messing about with audio impping music, for example), those grapkles will make you mental

Q: C'mon, you expect me to believe that integrated audio basn't improved at all since 1997? As Oh, it absolutely has gotten better.

integrated audio-especially intel's follow-up to AC'97, Intel HD audio (see above), along with the rollout of ever-faster CPUs, has moved integrated audio squarely into the mainstream, with some manufacturers going so far as to

include declipated DSPs, 3D positional sound, and surround support. After vetting an integrated-solution SNR, the key questions you need to ask are: Is the integrated audio hardware- or software-based? And does it support the existng positional modeling or surround standards you're ofter? Q: As a PC gamer, what does all of this

mean to me? At it means you've got to take a stand end

decide exactly what Aird of PC gamer you are First, you need to phoose whether you want to run high-quality or 3D positional audio in your games at oil, because if you don't care, dedicated audio processing loses at least half its allure. But say you want it all (and, frankly, who doesn't?)-depending on which audio settings you're using (e.g., high-quality versus low-quality), the performance boost to your framerate with dedicated sucks benowere in games like F6NY-Life 2 or Bartlefield 2 can be unward of five to 10 percent. No kidding, Dual-core or no. your CPU takes a beating when it's forced to handle aucko off-load. If your integrated aucko solution's dumping on the CPU, you'll want to think seriously about picking up a dedicated

soundcard.

Q: I'm h4rdc0r3! Does Greative Labs' X-Fi card make any difference? At if you're a total audio snob, you bet your ass it does. This is the digital equivalent of a tube amp. It not only makes music sound

noher, its positional audio technology knocks around 7.1 without breaking a sweat. Gamers can get 64MB RAM on higher-end cards, as it supposedly improves performance on audiodependent games such as Battlefield 2, X-Fi pards post a little extra money, but if you've got a discerning ear, you probably already have high-end speakers, headchones, and home theater gear. So suck it up, But an upand-comer thinks that it can topple Creative: Razer, previously known munity as a mouse and peripheral maker. Can its Barracuda Integrated Audio System compare to X-Fi7 Well, it sounds good on paper, and the board looks race (we have one in the office) but for the second month in a row, the box sits on our desk, tounting us. We still don't have drivers! Maybe one day, we'll be able to test it out. The Bottom Line: If you plan to use your ng

for basic stuff-office suites, audio playback, and basic caming for cames played on low to medium settings)-most recent integratedaudio solutions will do you fine. If you intend to use your PC for high-end audio editing and sudip-intensive gatting, a dedicated soundcard still navs dividends. (You can orab a nowerful Audigy 2 Value for less than \$50 if price is an Issue.)

EXTERNAL SOUNDCARDS

BOOST YOUR ACQUISTICS: TIP #3

paring, 60 = normal conversation, 90 = lawn mover, 115 = loud rook concent.

Protect your ears. Tigous without saying, and your sars simply aren't replace bit. Consider having your having check, do a part of your nie the routin physical. For sound the spike, but who not known, and with not put thinking about 'M' or but thinking about 'M' or put thinking about 'M' or put with heavy hardy hardy hardy parting poolshesh" on a Ex or Myou think, you he is 'my put me, no harm, no bout, night According to the National Check for Machine and the serving basis is to be No. 1 disabling in the world part of fetters 12 of myor 1,000 pooper. under the age of 18. Say you do have some minor hearing loss-even if it's irreversible and offentimes it len't), understanding where it's occurring (high spectrum, low spectrum) should levels. The EPA has established 70 distibits so a sale average for a 24-hour day 500 = while-

HEADPHONES VS. SPEAKERS First of all, when we say headphones, we're

talking the nine over-the-ear sort, so don't on thinking that cheap pair that came with your childhood Sony Walkman is even on the menu. The enswer to the headphones/speakers debate is actually nexty straightforward. Do you have roommstes, family members, and so on who don't exactly thall to the sound of you thwacking that ridiculously voluptuous succubus with a lead pipe? Are you cash-strapped and looking for high-quality positional audio without dropping upward of a grand on a really nice surround set? Or do you just hate the idea of playing "hide the wires" with rear and

skielino speakers? Whatever the case. It's worth bearing in mind that even a midgrade pair of headphones (around 50 bones) will generally frump most open-air speaker setups if you're into quality over quantity. There's a respon after ail, that professional studio engineers produce their mixes using studio-quality headsets. Goodbye expensive speaker sets, messy wires, annoyed family members....helio allnight, loud-as-you-want-'em gaming sessions. Feeling chatty? Remember to look at headsets that have a decent boom min. For good

sound without breaking the bank, we suggest Logstech's Premium Notebook Headset (\$60 at logitech comb On the other hand, if you hate dispoing

plastic on your head during a frag-a-thon and you don't have touchy neighbors or relatives. to quitable with. It's hard to aroue with the raw. untangled power of a decent surround setup. A well-placed Dolby 7.1 speaker configuration (that's seven surround speakers plus a subwooded is virtually untouchable if you're into soling yourself when Doom 3's "monsters-ina-closet" elect to say boo.

Speaker Tip: When setting up, pay attention to speaker distance. Generally, as distance doubles, the intensity of a sound source drops by six decibels. How does that relate to your perception of loudness? Every 10 dB drop will be perceived as a 50 percent drop in loudness.

Headphones Tip: Cast your caze around the local coffee shop or bookstore and note the number of people wearing earbuds (iPod headphones, for example), competing with espresso machines, conversations, the music on the overhead speakers, outside traffic, and so on. Recent studies suggest earbuds are dramatically less efficient at blocking external

sounds, meaning people are granking the volume higher than they probably should to drown out ambient noise. Long story short if you're wearing earbuds in a naxy environment, consider switching to an over-the-ear flavor, ear-isolating earbuds, or one of those battery-powered noise-canceling cans. The Bottom Liner If you want high-quality

aucho that won't shake the moltons and surround sound without speakers and weres-get headphones. If you want to feel the sound of Satan and his minions reaching down your outlet at the maximum speed of evil-speakers and 5.1 are minimum./

DOLBY FOR DUMMIES

Dolby, named after Dolby Lab nder Ray Dolby, is a marketing term for a series of audio compression teo generally referred to an "Dolby Digit, is available in two essential can

Dolby Digital: Standard for up to 5.1 dbcrete euclio chernels (left front, center, rigil front, left surround, right surround, plus a r...shet's the ".1"). A Dolby 5.1 ets might favor hand-sol kes eve mixing and mer irs to tests, but the rest of us can find retty hendy 5.1 speaker combo desi -slouch companies like Logitech or

Dollby Digital EX: Takes the 5.1 standard

and adds a single "back surround" char (6.1) or duel "book surround" speakers (7.1) The "EX" is an extension to the Dolby Digita (5.1) codes for even more detailed sur ts. Note that it's technically only 6.1 secrets such channes—the two "back is sund" speckers in 7.1 are actually matrix he same single channel flows to each on ow genes support the EX format, end in trited EX-encoded DVDs and the need for ditional speakers, it's safe to bet against El and stick with straight Dolby Digital for n





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HARD NEWS



The bleeding edge of tech

DUAL-CORE DEATHMATCH: CORE 2 DUO V5. ATHLON 64 X2

We put two affordable dual-core processors to the test

If YOU'VI BEIN PAYNA ATTENTON YOU'VE good reveals by poccessor and no poccessor and not you've good to the poccessor and not poccessor and not possibly haved about 0.00 at "and his poccessor and base in poccessor and bas

THE TESTS

Most game benchmarks use "Quale TimeOemo"style prescorthol game(s)s, which is greet for letting grantice cards, but not so lotted when you're trying to past an accurate proble of what accusely happens when you set down to piley a game. All, giftysics, and other CPU-relensive parts of the game can essentially "turn off" during such presconded benchmarking democratics."

So in order to more accurately gauge what happens in a real game, we used a popular program called Flaps (traps.com) to measure live carecolar performance. We patched each of our test germes with its most recent patch, ma such at a resolution of 1280±1024, and turned the details up to high. We played each gains for the minutes and used frage to get a frames-per-second measurement for every second of 154.75 Comprensation for the sorts of A.I. and physical variables that crop us insurable playthmost, we when repeated each test two more times to acquire an average. We also took is alway consistent the verifical value of the sort two more times to acquire an average.

tamerate required for what we decided was smooth and enjoyable gamejary—a sumber that varies toom one gene to the roat. White 45tp is a good low threshold for many games HTS games can then be perfectly enjoyed down to 30tps, white fart-person shooters are best at 80tps or above. To that post, we also measured what personalizing of three played was present shower each games bladfirthly intributively intributively.

"framerate-encoment threshold."

each CPU was able to maintain the minimum

THE RESULTS						
GAME	Core 2 Duo E6600 fuoruga ppa	Athlon 84 K2 S000- forespectar	ideal spa Threshald	Attorned Send Send Send Send Send Send Send S	Athon 64 HZ Tirs beneson Threshold	
Half-Life 2 Episode One	113	86	60	0%	8%	
The Elder Scrolls IV: Oblivion	42	40	30	3%	10%	
Battlefield 2	90	76	60	0%	6%	
Rise of Nations: Rise of Legends	45	37	30	1196	30%	
Titan Quest	72	65	45	0%	1%	
World of WarCraft	63	62	50	1%	4%	
Average	71	61	**	3%	10%	





THE WINNER

As you can see, the Corr 2 Duo swept 'em all—and in fect, throe of the genes we tested never even deopped below our 'hideal transes per-excend' threshold. If you'd asked us to run a similar test a year ago, we would have told you to go with an AMD processor. The Core 2 Duo dendry dust held subject on too of the gares. J

THE TEST SYSTEM

COMPONENT	NTEL PROCESSOR TEST SYSTEM	AMD PROCESSOR TEST SYSTEM		
Processor	2.4 GHz Core 2 Duo E6800	2.6 GHz Athlon 64 X2 5000+ (Socket AM2)		
Motherboard (chipset)	ASUS P5B Deluxe (Intel P965 chipset)	ASUS M2N32-SLI Deluxe (nForce 590 SLI chipset)		
Memory	2 x 1GB Corsair XMS2 6400 (CAS 4-4-4-12)	2 x 1GB Corsair XMS2 6400 (CAS 4-4-4-12)		
Graphios card	XFX GeForce 7900 GT	XFX GeForce 7900 GT		
Hard drive	Seagate Barracuda 7200.B	Seagate Barracuda 7200.8		

106 > COMPUTER GAMING WORLD



ExtremeTech's Jason Cross performs PC triage 9. I'VE BEEN HEARING A LOT OF TALK

about DirectX 10 and needing a new video cord for it, but what exactly does DirectX 10 give us over DirectX 97 What differences might I notice between the same game running on a DX10 card and a DX9 cerd? Are there new effects that games can only pull off with DX10? What's all the big fuse?! Ryon Jacob

A: This is actually a tough one to answer See, game developers don't have DirectX 10 hardware in their hands yet (that we know of), so they're not showing off real DX10 screenshots just yet, DX10 does add quite a bit to the proture, though. First, it's only available in Windows Vista, so it takes advantage of Vista's new driver model along with changes to the structure of the API (application program interface) itself to reduce the overhead

when changing "states" in the graphics pine line. That's a long-winded way of saying you can have more "stuff" in a scenar more rocks. and grass, more random objects on an office desk, more accessories on the soldiers' belts, more cotters in a real-time strategy gamo-whatever. DX10 also has new, more flexible standards

for shaders. A geometry shader works on entire geometry primitives (lines or triangles) instead of single vertices. Developers can stream data from almost any part of the pipeline (vertex, geometry, or pixel shaders) and

read it back in to other parts. If that sounded like cribberish, the bottom lice is that DirectX 10 is actually a pretty big evolution over DX9, but there's no one feature you could point to in a someonshot that screems "DX10"-it's not like it adds normal mapping or something. It's basically a bigger. more flexible toolbox with better consistency and less overhead for developers. Most of the guys we've spoken to about it are pretty

Q: I've been trying to discover why I'm supposed to care about duel-core processors Atter all, nearly nothing supports them. Can you run two virtual machines on the same PC and tonde between them? That would be nice if you have to keep business stuff up and running but want to switch to Cell' of Duty multiplayer for relief. Will Windows Viste support them with Hyper-Threading end what all? And a year from now, will most new apps and games have built-in support of dual-processor PCs? If this is the case, getting the dual-core CPUs out in the world is the egg that hatches the chicken down the road a bit, if not, then it appears

we should be spending our bucks on faster single-core CPUs rather than dual-core parts.

A: Actually, there are already a few comes

TECH%

that benefit from dual-core processors. though they're definitely rare. Virtualization (switching between two virtual machines) is possible, but you wouldn't want an entir other virtual PC taking up your valuable RAM and adding overhead while you're garning But dual-core CPUs have value outside just running games optimized for them. Windows XP almody runs separate applications in separate threads, so the apps running in the background while you play a game will run. on that second CPU core, keeping your game from slowing down as much, Vista, in theory, should be even better at this. There are some other applications, such as video transcoders and decoders (DivX, Nero, and so on) that take advantage of dual-core CPUs, too. Our advice: Every new CPU buyer should probably go dual-core. Future games will

heavily support the processors, and in today's heavy multitasking environments, a dual-core CPU ready balos keen things running smoothly, Besides, Intel's new Core 2 Duo chips are the fastest garning CPUs we've ever tested, regardless of what games we've thrown at them (see Hard News, pg. 106).

O: I currently own a 128MB GeForce FX 5900 XT and I'm looking to upgrade, but I'm on a budget. I've found some reasonably priced GeForce 7600s, but I'm not sure If I should pay the extra 30 or 40 dollars to get

the GT over the GS. What's the difference. and is it worth 40 bucks? Ryan Kok

At The GeForce 7800 GT and GS are pretty good buys for a gamer on a budget. At the prices you mentioned, I would po with the more expensive, but faster, GT model. Specs vary a little bit from one manufacturer to the next, but generally it breaks down like this: The 7600 GS has a core clock speed of 400MHz, while the GT's is 660MHz-that's a 40 percent faster core clock speed. The 7900 GS has a 400MHz memory clock, while the GT's is 700MHz-that's 75 percent more memory bandwidth. So the GT model is going to be roughly 40 to 60 percent faster, depending on the game and the settings.

That's worth the extra green. Got questions? Send them to



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GAMING FOR **DUMMIES**

Who says games are too easy?



I was reading my box of Frosted Flakes and learned that the cereal. according to noted mascot Tory the Tiger, can actually help your body grow stronger. Before I read that, I'd always believed my main when she said it would not my teeth out and make me get fat. Now I know she was just a big line Another thing I've learned by reading is that many gamers now think

games are too easy. I read this on a number of different threads on some of the online massage boards I frequent such as quarterfothree.com. where cwif and intelligent conversations among gamers occur, with many an insult thrown amongst the participants, except for the occasional use of words like "doublebap" and "asserine." And those are usually only directed at morning who don't know what they're talking about, so they therefore deserve whatever name I call them.

So, yeah, I think those asswipes are wrong-games are not getting too easy. If they were, then I might actually begt one for a change. What I think may be going on is not that cames are getting easier, but rather. friendlier, Case in point: Prey Isee CGW #255, pg. 84). Here's a game that, unlike nearly every other shooter before it, goes out of its way to ensure that you don't have to spend half your garning time dying and reloading to your last save point. In this game, when you lose your last health point, you go to a netherworld for a few seconds-kind of like a dunce corner—where you momentarily get to ponder your loserdom before warning back into the name right where you left off. Any monsters that had been injured before you died are still just as injured

Here's where the controversy is: According to certain online nimrods, this is not enough of a "penalty" for having died. In their world, I sucked, so now I should suffer. Maybe the monsters should get all their health. back. Maybe I should have to restart the level. Maybe I should be forced to uninstall the game, perede through town neked with a bright red "I Suck at Games" tattoo branded on my rear and then jump off the Golden Gate Bridge, Anything but continue the game without paying a price. Yesh, well, you know what? I did pay a price, \$49.99. And that means Ed like to play my game without arrong telling me it's not hard enough for me. The refreshing thing about Prey is that it lets me keep playing without artificially forcing me back to a loading screen—a gaming



convertion that I'd be happy to never see again. Frankly, forcing gamers back to an earlier state is just a somewhat bogus way of inflating a game's playtime. If I have to die first and reload the game to figure out how to best a monster or get down a corridor.

then I humbly submit that it's not me who sucks as a pamer, but you who sucks as a designer. By all means, I want a challenge, I want to have to use my brains and my reflexes to propel myself forward in your game. But I should be able to do this without your ending the game on me completely. Why not just ove me a small panalty, as in Prey, and

Yes, I know, Mr. Übergamer, You're a touch guy. You think the "normal" mode on most games as for wimps and nOttos. You can best

the hardest mode in every game in 30 minutes while standing on your head, billedfolded, and with both hands tied behind your back. Great, Call the cercus. Perhaps the bearded lady will find you hot. But if you trink you represent the gamer norm, I have important news for you. You're a moron, Most gamers I know play in "easy" mode most of the time. And if they get stuck? They cheet, Because most people who play games just want a little fun and diversion. They're not staking their entire claims to manhood and self-worth on whether or not they took down the plant Rzard the first time around, And, hey, if you're so great, you won't be dying anyway, right? So why should you care what the death mechanism is? Death only happens to

And those of us who do suck? We're tred of dving. We want to live. We want to play on. So, I write this on behalf of the hundreds of thousands of long-suffering, constantly dead gamers who've spent far too many hours staring at their own bloodled, lifeless bodies, and offer one humble "thank you" to the designers of Prey and other games who make death a relatively se experience. Our recrimeted corpses salute you.



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