



Started with building-like games: Rollercoaster Tycoon, Age of Empires 2 map editor 2D game creation, 3D maps (Far Cry), mods.



F.A.Q.

Frequently asked questions

- When and why did you start working in this line of work?
- What did you do to get a job at DICE?
- What DICE game is your favorite
- What would you like to do if you didn't work as a level designer?
- How big was the design team for BF3?
- What's your view on your rivals?
- What do you feel is the most important thing to make the gamer feel entertained?
- What's the most importance difference between an AAA studio and an indie studio?
- Describe how you work with EA?
- Do you need major math skills to work at DICE?

When and why did you start working in this line of work?

- ...

What did you do to get a job at DICE?

- Portfolio, design test, interview

What DICE game is your favorite

- Mirror's Edge, BFBC2 (fondest memory even though BF3 is a better game).

What would you like to do if you didn't work as a level designer?

- Try getting back into art, VFX for movies.

How big was the design team for BF3?

- Team as a whole 200+, design team around 15-20?

What's your view on your rivals?

- They do a great job 🙂 Rivalry is good.

What do you feel is the most important thing to make the gamer feel entertained?

- Players value different things so it's important to stick to your guns and decide on your goal publicly and go through with that in the best way possible.

What's the most importance difference between an AAA studio and an indie studio?

- Money, lol. Creative freedom in a way but then again, you would never be able to do something as GIANT without that funding! So it all depends on what YOU want to make. **Describe how you work with EA?**

- They own us so they approve projects, besides that DICE is surprisingly independant! **Do you need major math skills to work at DICE?**



- As a programmer, yes... And not only maths but also physics (collisions, etc...).
- For pretty much all jobs logic skills are necessary. Art is very technical, level design needs logic, etc...

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- 2) DICE
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MARKET CHANGES

Games then & now

Boxed

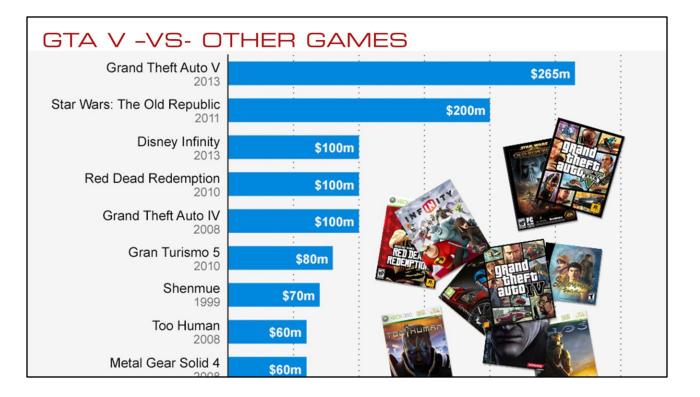
- CD's, manuals, maps, ...
- Expansions

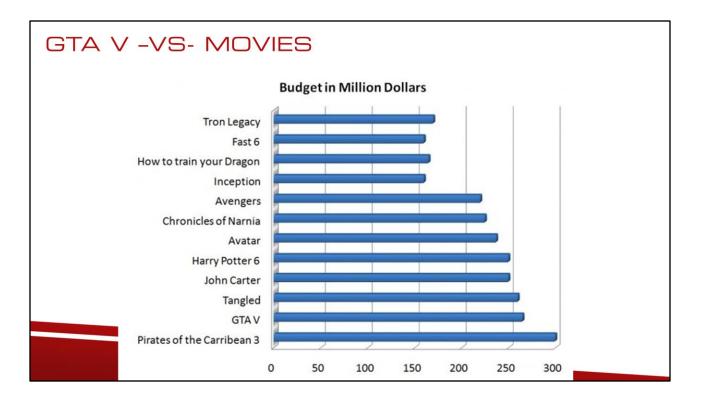
Digital

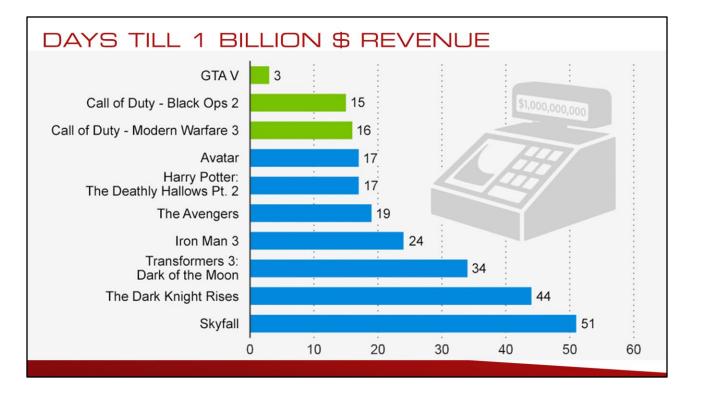
- DLC
- Pre-order bonusses
- Subscriptions
- Micro-transactions
- Full game

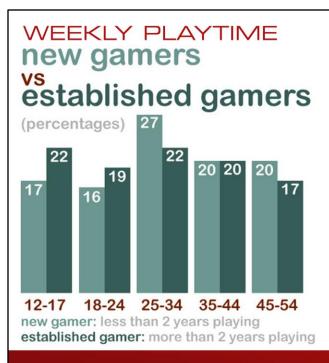


Used to have big boxes, some kind of ownership. Very thick manuals, multiple CD's, maps. (Explain EULA, you own a license. - Perhaps) Games are becoming a service rather than a package deal. Basically: The price model is changing!

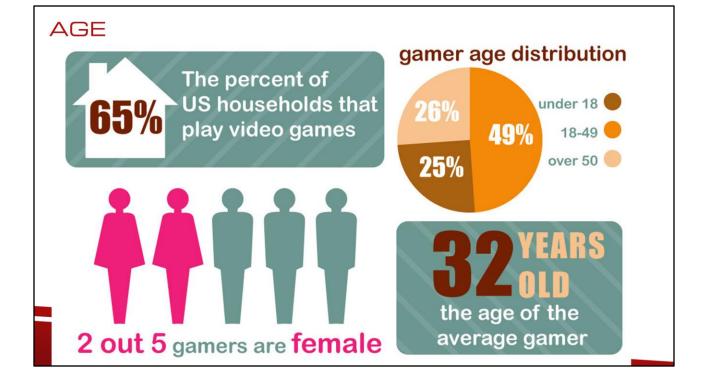


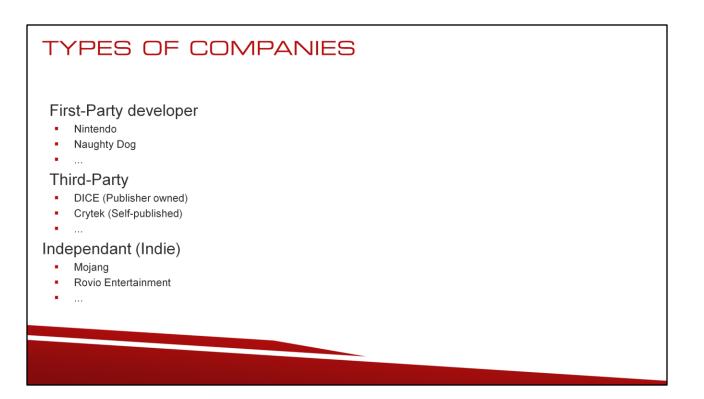












How funding affects this:

Funded by your publisher... Or Kickstarter, rich daddy, lottery... Valve and steam publishing. (Cutting the middle man)

JOB ROLES Management team Support CEO Game tester Producer Publishing • Marketing Managers/directors ... Development team Other departments Programmer Engine team (Frostbite) • Artist Outsourcing Designer Motion Capture Sound engineer

Producers/directors outside game teams, overarching multiple stuff. And some that are part of the dev team.

Each discipline has multiple branches of specializations.

GAME DEV CYCLE (1 game process)
Concept phase
What?
Pre-production
How?
Production
 Making the game
Post-Production
 DLC, patching,
Total = Usually 2-3 years

Go over this fast, more in depth information in the DICE section.

EA DEV FRAMEWORK	
GATE GATE GATE 1 2 3 CONCEPT DESIGN & FIRST DISCOVERY PLANNING PRODUCTION	GATE GATE GATE GATE B 4 5 PROJECT PRODUCTION FINALING PROJECT CLOSURE
Creative Pitch	 Building Alpha (Potential design changes)
 Project planning (Business plan) Feature design Tech 	 Beta, finishing up! Post-launch plan
Design finished Ore-X	GDF - Game in stores - Patches - Expansions

CONCEPT DISCOVERY:

- Ideas: FPS, MMO
- Business: How to be profitable

DESIGN & PLANNING:

- Core-team, more artists/designers, ...
- What tech will we need to build, CAN we make it?
- Design documentation

FIRST PRODUCTION:

- Design docs are finished (can still change though!)
- Build Core X, all important features present

PRODUCTION:

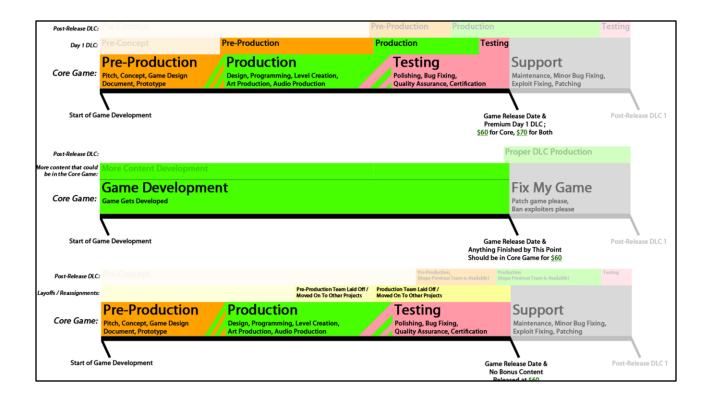
- Full team

FINALING:

- People moved off the project, some work on further DLC.

PROJECT CLOSURE:

- DLC team keeps working, patches keep on getting released.
- The rest of the team on different project



DLC. Gamer entitlement.

DICE LA, different studios. Act almost like independent studio, need to pay for their stuff as well!

2) DICE

Founded in 1992 EA acquisition in 2006 300 employees

- 19% non Swedes (me!)
- 18 Nationalities
- 10% girls

22% of Sweden's game devs work at DICE
 Battlefield series sold over 50 million copies
 BF3 sold 25 million copies

1992: 4 guys in highschool

DICE TIMELINE VIDEO

Battlefield Mirror's Edge Star Wars Battlefront

Rallisport Challenge Midtown Madness 3





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DESIGNING GAMES (Any type of game, really)

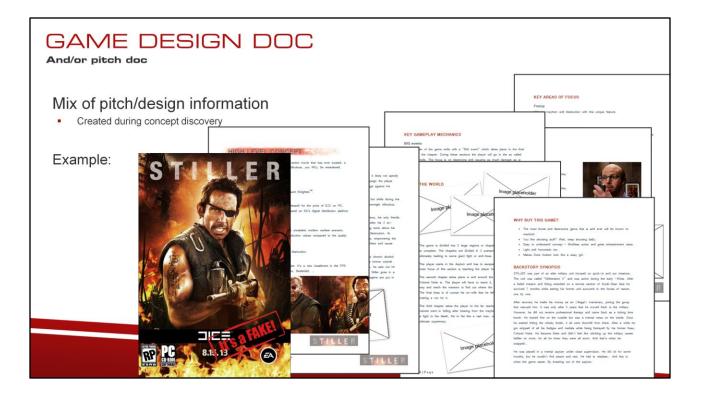
Start from theme

Design mechanics to reinforce theme

Start from mechanics

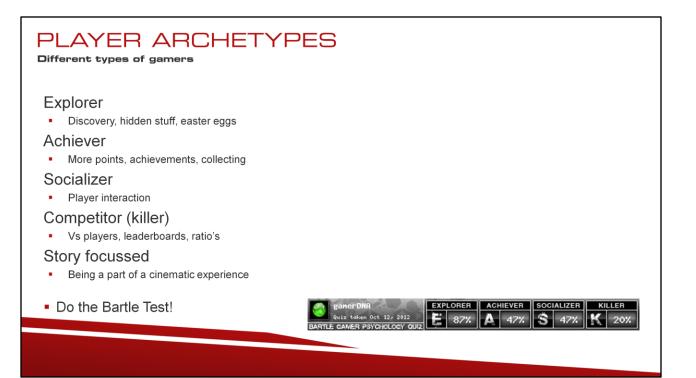
• Design theme around gameplay

Usually a bit of both. Limitations in general = GOOD! = Out of the box thinking

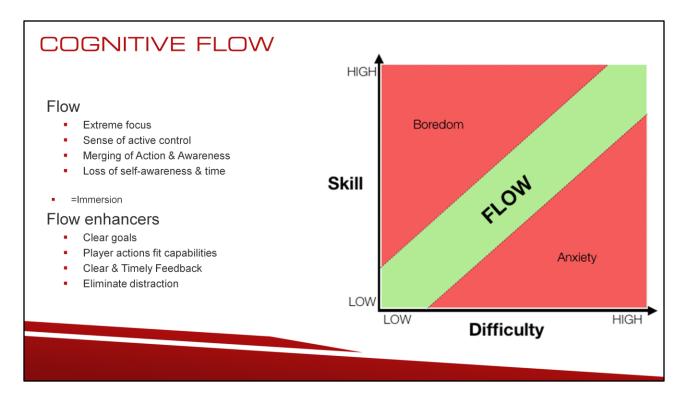


GAME DESIGN DOC

- DO's and DONT's
- Think when you introduce concepts/dependencies
 - Names of characters
- "Depth" at right time (Less is more)
- Gameplay mechanics not focussed in 1 section
- No overview
- Way too long story intro <> Story dependent mechanics but story not introduced yet...
- Less is more
 - Short, focussed vision
- Find your "core" of the game
 - Add limitations, don't bloat with different features



Players value different things.



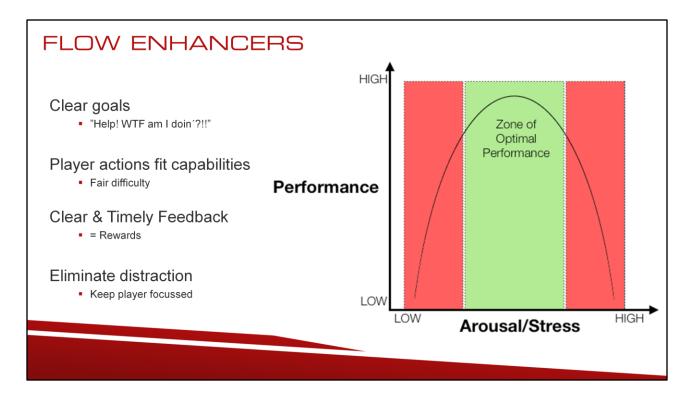
"The experience of the task being the only necessary justification for continuing it."

One must have a good balance between the *perceived* challenges of the task at hand and his or her own *perceived* skills. One must have confidence that he or she is capable to do the task at hand. =Your own skill versus the challenges in the game.

Flow killer: Taking away control (cutscene). Some personalities easier to get into the flow than others.

Clear goals: If not = Distraction

For instance Arkham City, player is bombarded with information = distraction = flow breaker.



Clear goals:

People have limited information processing capabilities.

Introduce goals when the player is focused and the least distracted. Divided attention is bad!

Introduction of new mechanic during something else, new quest during conversation, ...

Player actions fit capabilities:

Act of achieving goals is a powerful reward, if you keep things manageable you can keep the player engaged.

If player can't complete goals then they may experience stress-provoking drops in performance. Kills flow states.

If goals become increasingly difficult to accomplish then the commitment to accomplishing these goals diminishes. Player will likely stop playing.

Feedback:

Feedback is accomplishment, empowers player to continue.



Risk/reward is a system established by the arcade generation that rewards the player for taking a risk that goes beyond what they are asked to do normally.

If the player does not care if they improve then the player cannot be challenged. Ergo we've removed both risk and challenge from the game and made it "unfun".



Crossword puzzle game. Multiple crossword puzzles, increasing in difficulty each time.

Clear goal: Finish puzzle

Reward: Filling in a word gives clues about the next words

Risk: Filling in the wrong word potentially sets you back!

However, players can fill it without needing the other words. IF the player has the skill he can bypass chunks of the game.

In a lineair game this is not possible. If you have a door game, you need to open door A to be able to pass through door B.

There is no way for the player, even if he has accuired the skills for door B to go there without first completing door A.

The conclusion is that levels have milestones to rewards the player rather than having rewards for player skill. = "Rollercoaster ride throughout the game"

3B) LEVEL DESIGN THEORY

Singleplayer

- Guidance
 - Functional lighting
 - Composition
- Env story telling

Multiplayer

- Balance
- Layouts

LEVEL DESIGN PROCESS

Constant iteration

Paper design

- Write doc
- Sketches, layouts

Prototyping

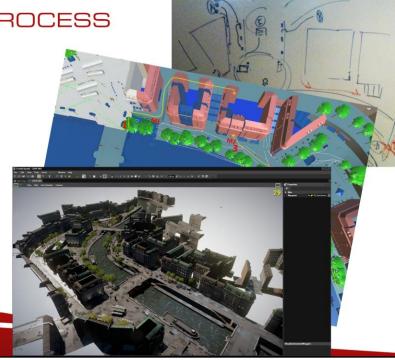
Test level specific mechanics

Whiteboxing

- Level block out
- Scripting

Playable

Polish + tweaking



LEVEL DESIGN PROCESS Mirror's Edge





LEVEL DESIGN PROCESS BF3 MP - Strike at Karkand



GUIDANCE

Helping players find their way

"How do you know what to do and where to go?" - mom

- Lighting
- Composition
- ...
- UI = Last resort

Functional Lighting



Environment is well-lit but nothing stands out.

Exit Lighting



Exit highlighting:

- End goal very obvious

Path Highlighting



Path highlighting:

- Holding hands, showing each step along the way

Enemy Presentation



Enemy presentation:

- Silhouette
- Light on cover
- Player can easily track enemy movement

Hinting



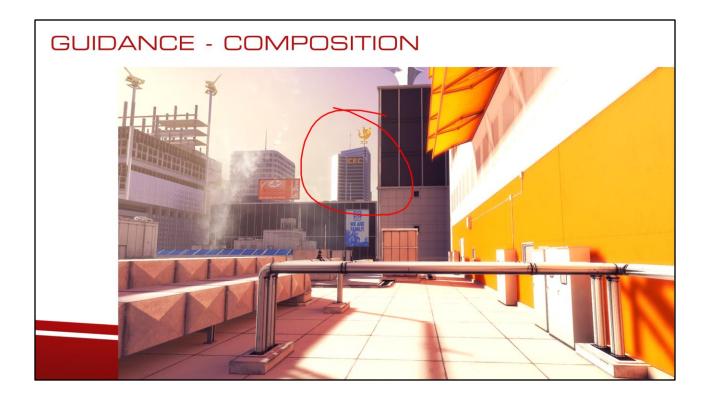
Hinting:

- Alternate passages, pickups, interests
- Don't let it interfere with main lighting!
- Don't make too obvious cos then it destroys sense of discovery!

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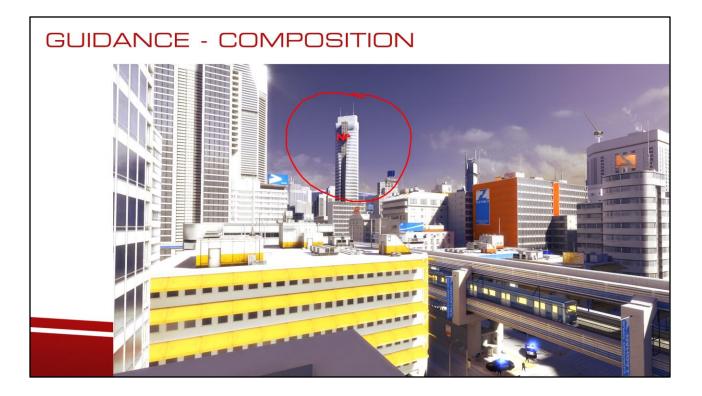


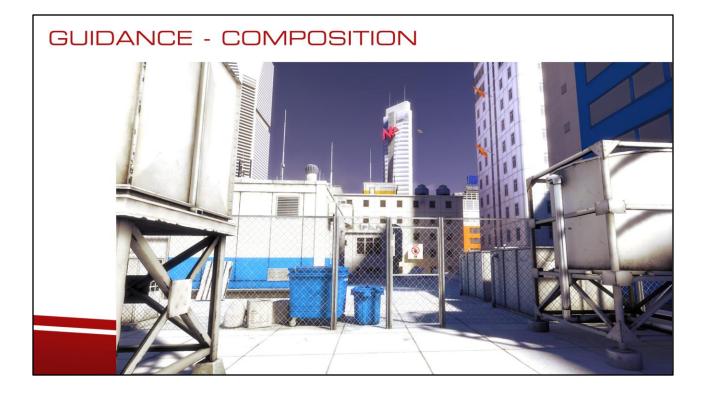


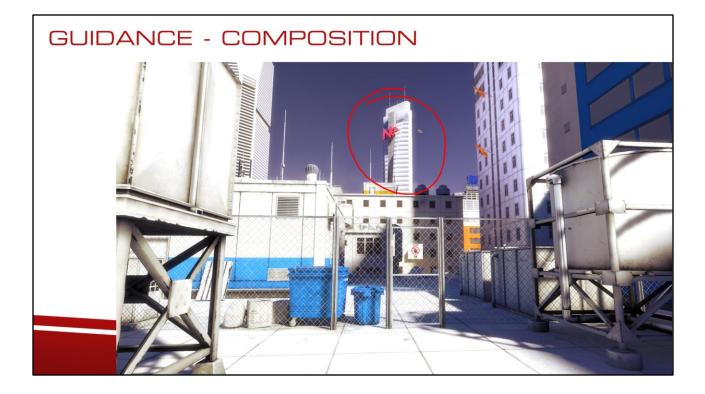




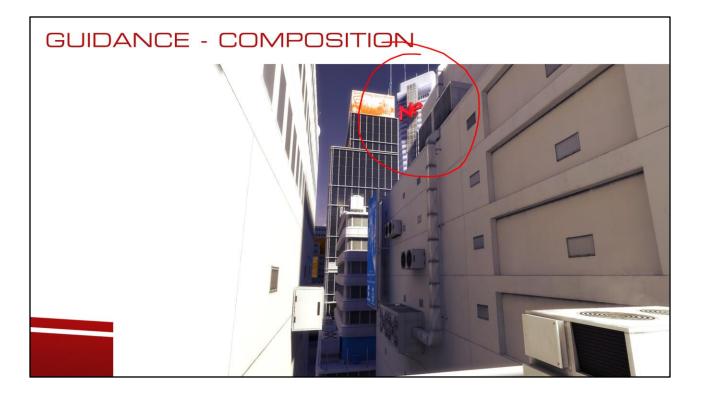






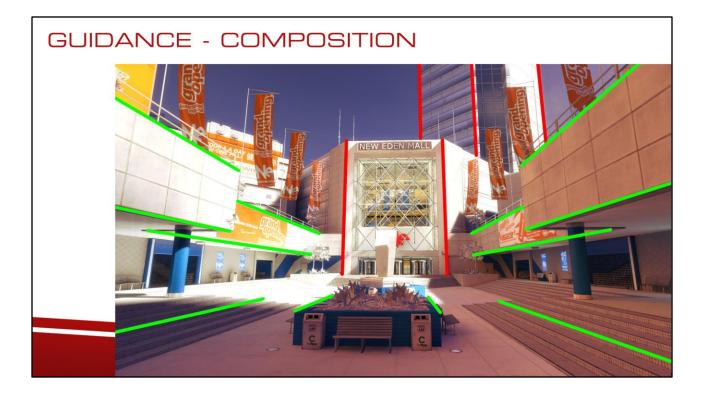


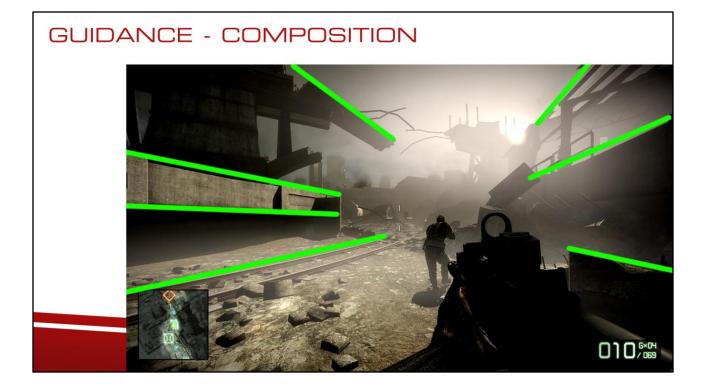




GUIDANCE - COMPOSITION





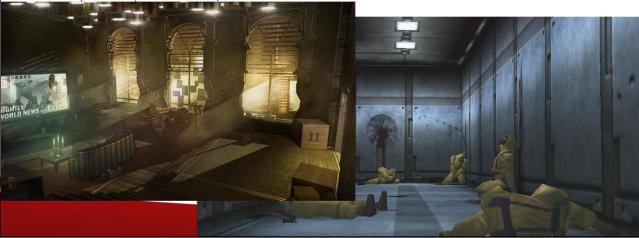


ENVIRONMENTAL STORY TELLING

= challenge

Environment should reflect main storyline

- Anticipation
- Don't spoon feed: (Toddler research)



The less you tell your player the better! When people are told what to do/are fed everything in a spoon then they will stop exploring. Relevant research: Explain example with toddlers that are given a toy and left to examine themselves or given a toy after explaining some functions.

MULTIPLAYER DESIGN

Base design

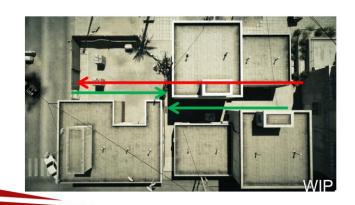
- Symmetrical/A-symmetrical terrain/layout?
- Landmarks
- Depth (secret areas)

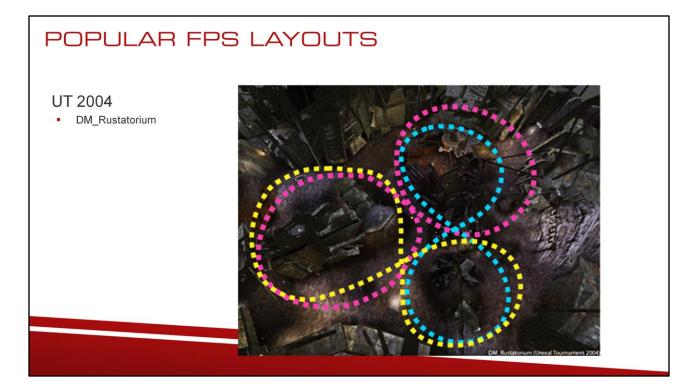
Balance

- Same distances to bases!
- Limiting "line of sight"
- Choke-points
- Cover
- Spawn points

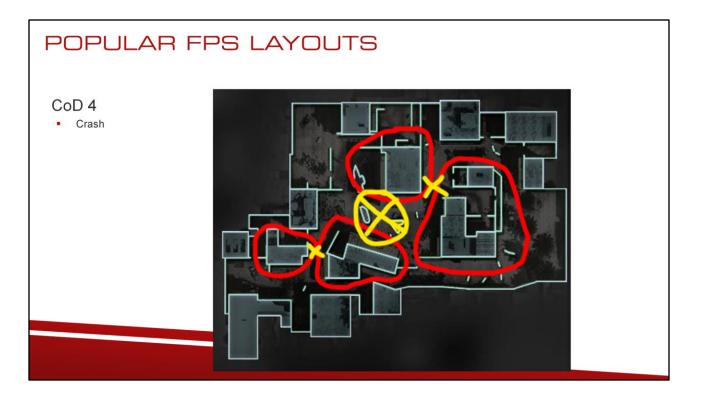
Contrast

- Verticality
- Open vs enclosed spaces
 - **Risk/reward zones**

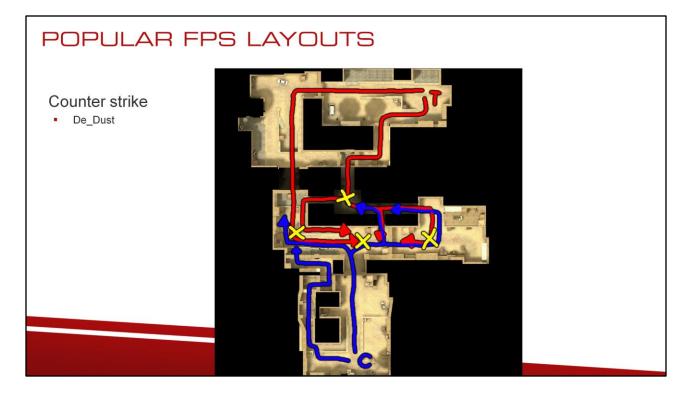




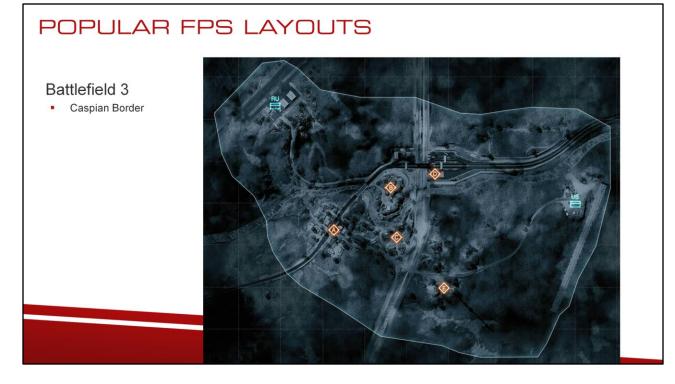
Circles, circle 8. You will always go *somewhere*, you won't get lost in a dead end. You will end up in a choke-point.



Notice same pattern, little more complex.



Even more complex. Same ideas though but less of a constant flow. Counter strike maps are usually played on either side of a choke point with less running around.



Kind of the same concept but on a much grander scale.

BF also is more sandboxy, shitload of weapons/vehicles... Teamplay.

So you can barely compare these maps to the standard FPS maps that have dominated for decades.

And in general comparing games that are so vastly different to one another is kind of stupid.



KISS: Don't add features, control schemes that are unnecessary. Less is more! Communication is not about what you say, it's about what gets heard. You have to get your team to understand the vision of the game.

Design instincts, you know tips and tricks. You know what is fun. Explained further down in single player design.

GETTING INTO THE GAMES INDUSTRY Spare time Modding Portal 2 creater, Skyrim, minecraft textures, ... Portal 2 creater, Skyrim, minecraft textures, ... Finish it, move on! Embrace the suck. Very time consuming, need dedication! Join community, ask for feedback and learn Polycount, Mapcore, ... Create good base before doing the fun stuff Ideas are cheap, execution is everything. College/University "You're not an artist because you talk about creating art. You're an artist cos you create art." - Chet Faliszek - Valve Software => So CREATE something! ③

Modding: Start small, manaeable scale. Get involved in the community. It's important to finish stuff, make something better with what you've learned.

Create base before doings the fun stuff: Making fancy websites, logo's, inventing job titles. It's easy to get side-tracked. Just DON'T. Make portfolio to show off your qualities.

QA not a good way to move up imo. You get stuck in your position.

