

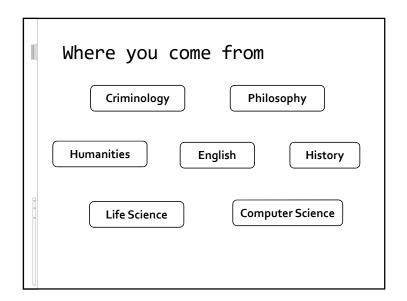
- Game design for:
 - Education
 - Seniors
 - Blind players
 - Rehabilitation
- Artificial Intelligence (AI):
 - Music generation
 - Terrain generation
 - Game Al
 - (Open data)





Course goals Making games vs playing games Brainstorming Designing Developing Refining Major skills Agile development

- Working with others
- Dealing with failure



Course project

- Teams of two.
 - Teamwork makes the dream work.
- Design options:
 - GameMaker, Stencyl, GameSalad, etc.
- Regular demos.
 - In-class & playtesting.
- Constant refinement
 - Responding to feedback.
 - Recording progress.



Course Deliverables

- Reflects industry milestones:
 - Creative Brief conceptual description; includes key components and secret ingredients.
 - Design Document everything but the code.
 - Alpha Release the most basic game.
 - Beta Release all the features of the final version.
 - Playtesting Demo the final evaluation.
 - The public judges your game.
 - Including design blog & peer evals.
 - Also: Participation, design blogs, mini-demos.

Game Jam Activity

- Sat, Sept 16 in BA3200
- Basically, making a game in a super-short amount of time!

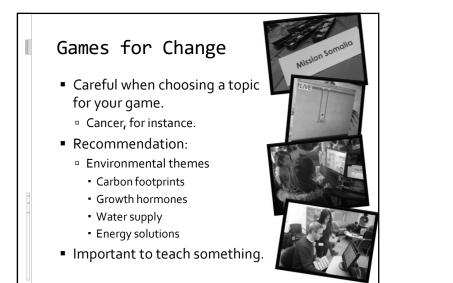


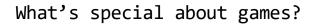
- Typical method for prototyping a game.
- Popular and prevalent around the community.
 - e.g. TOJam (on right)



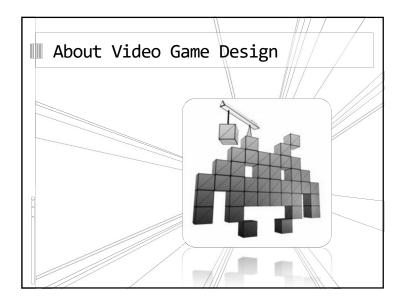








- Interactive media.
 - Text < images < animation < games</p>
- Feedback:
 - Immediate
 - Appropriate
 - Constructive (reinforcement/operant learning)
- Informal learning.
 - Multiple learning opportunities.
 - Scalability



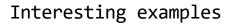
The world of game design

- Video games are popular, but often misunderstood.
- <u>Final Thought</u>: what games are and what the world of game design can be like.



• Seven Things Steve Thinks You Should Know About Video Games.

#1 - Games are hard
 to define.



Minecraft

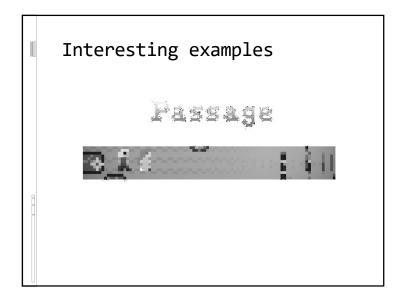


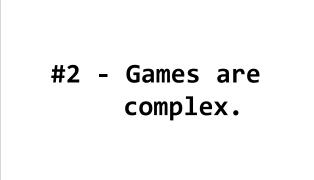


Interesting examples

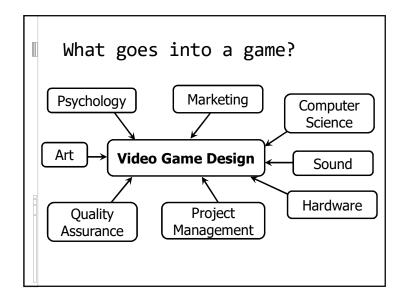
Endless Ocean: Blue World

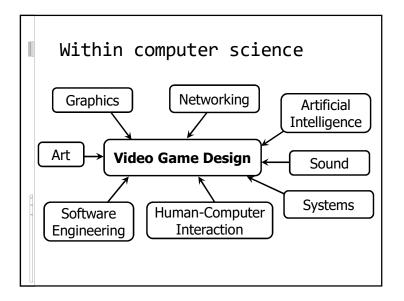




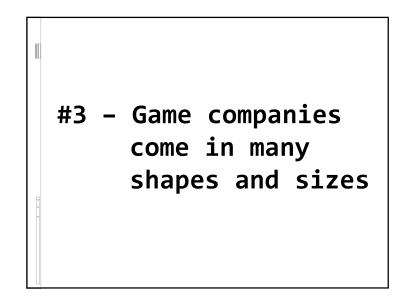




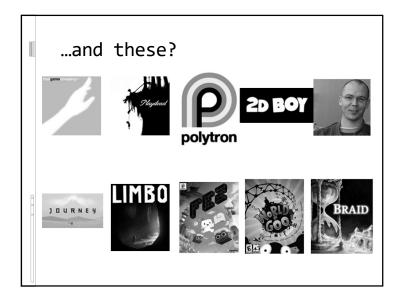






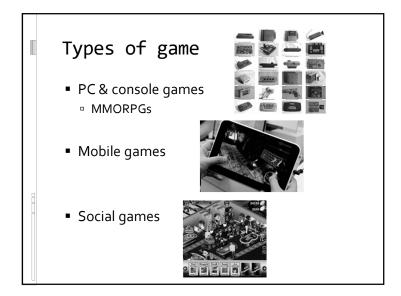


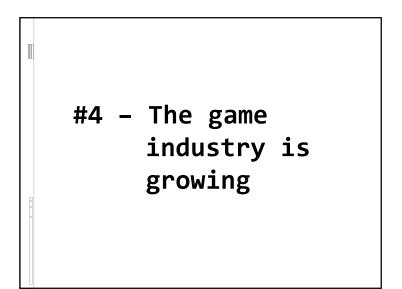




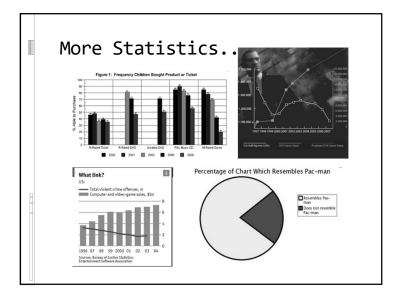
AAA versus Indie

- Large game companies can afford to make blockbuster games, but indie companies can also make compelling game experiences.
- Completely different structures though:
 - Roles per person
- Budget
- Scope of project
- Toronto was mostly indie, until recently.

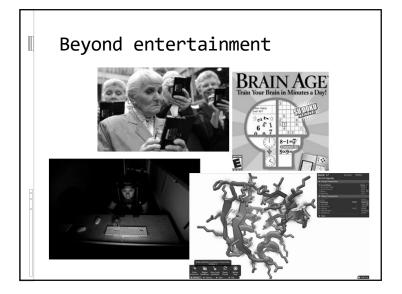












#5 - The game industry
 parallels the
 film industry









Game Design Team Roles

- Artists (two kinds)
 - Concept artists: design characters and levels.
 - Technical artists: work with the CGI team.
- Audio
- Sound effects.
- voice acting.
- Music.





Game Design Team Roles

- CGI
 - Creating objects and characters.
- Rendering
 - Drawing the objects and characters.



Game Design Team Roles Systems

- Development tools & engines.
- "Auto-smoke" tests. Allocating resources.
- Databases
 - Networking



- Quality Assurance
 - Often contracted externally.
 - Check that game plays as expected.

Game Design Team Roles

- Producer
 - Role can vary from company to company.
 - Responsible for either overseeing the group, or creating the overall vision of the game.
 - Needs to assign a price to each requirement.
 - High-level decisions during the development process are made by the producer.



Game Design Team Roles

- Gameplay (AI)
 - Object behaviour.
 - Non-player characters (NPCs).
 - User interactions.
- Front End
 - Creates all game interactions, outside of the regular game play (menus, etc).

