

Exploring CS

Software engineering project, elevator pitches

Software Design Project Goals

- Learn useful business skills: elevator pitch, writing proposals, iterating on a design
- Learn to budget your time: lots of freedom with milestones
- Create something cool: I'll get my industry friends to award prizes
- Focus on your interests: design, art, storytelling, programming, cooking, reading...

Requirements

- Game/animation must be educational
- At least 3 scenes (different backgrounds and interactions including start/end)
- At least 4 sprites
- Interaction (clicking, answering questions, moving characters around)
- Complex logic (keeping score, checking multiple conditions)

Milestones

- Elevator pitch
- Proposal
- Storyboard
- Finished product

Principles

- Build something you want to show off
- Find creative ways to collaborate
 - Within group -- design sprites on different computers
 - Between groups -- multiple levels of one game
- Being idle or off task is really bad
 - A large part of your grade will be based on how you use your time
 - Find something that interests you to do

Grading

- Full rubric is online
- A lot of points for turning things in
- Looking for detail
- Challenge yourself -- if English is your second language, work hard on proposal
- Talk to me!!

Elevator Pitches

- Overview of project idea
- 30 seconds or 100-150 words
- Generally used by venture capitalists
- Good skill for entrepreneurs, project managers, salespeople, evangelists, policy-makers, job seekers, speed daters!

(Wikipedia)

Elevator Pitch Elements

- What the project is
- What benefits it offers
- Why you are going to be successful

Brainstorming

- Animation describing a place, historical event, book plot that asks user questions
- A series of puzzles
- Tutorial for cooking something, fixing a car, software, using Scratch
- Arcade game with multiplication questions

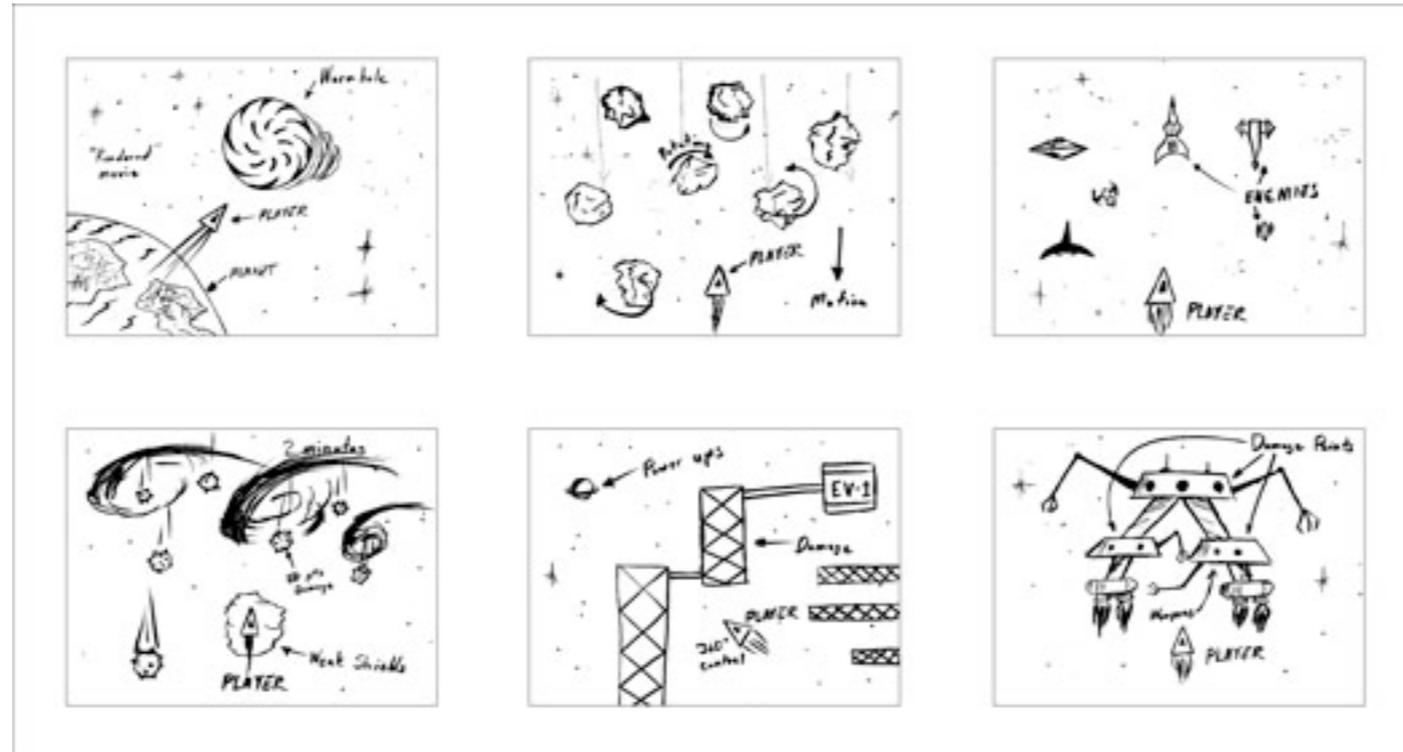
Today

- Partner or alone?
- Brainstorm project ideas
- Come up with a preliminary elevator pitch
- Give it to at least 5 others
- Start storyboarding and writing the proposal

Storyboard

- Graphical organizer
- Forces you to make ideas concrete
- Used in animation, film, TV, games...
- Storyboard a PowerPoint presentation
- Storyboard software to get interaction right

Storyboarding Games



Proposal/specification

- Practice technical writing
- Get ideas down on paper **BEFORE** building
- Useful business skill