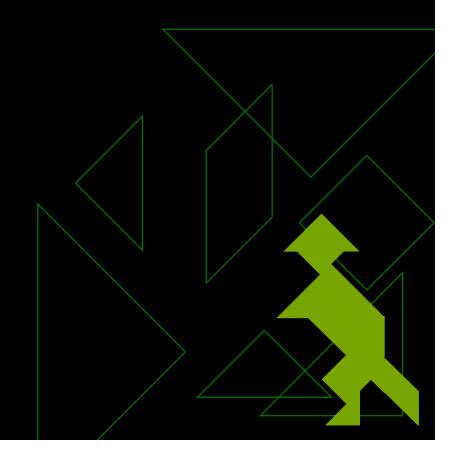
Getting the ball rolling – Game Production Overview

Dr. Alma Barranco

- Developing a computer game Agenda
- ◆/Team roles
- Small teams vs. large productions
- Game development methods
- Production Cycle
 - Pre-production
 - Production
 - Testing
 - Post-production
- Brainstorming activities
- Summarize
- Next steps

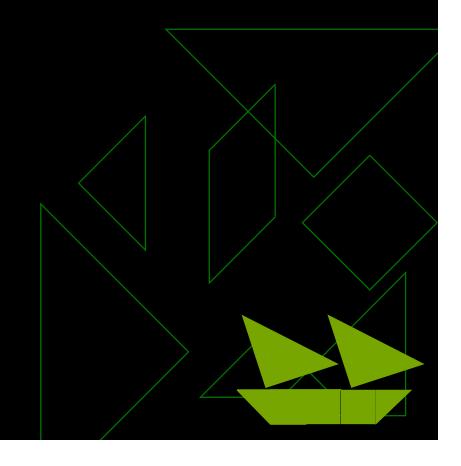


Developing a computer game

- Collective effort.
- Strong hierarchies, relative independence.
- Weird models: it is software development, it aspires to work like films, it usually ends up like a team based sweatshop.
- Talents from very many disciplines

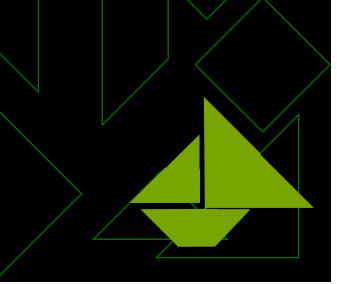
Team roles

- Categories
 - Design
 - Engineering
 - Visual Arts
 - Audio
 - Production
 - Corporate



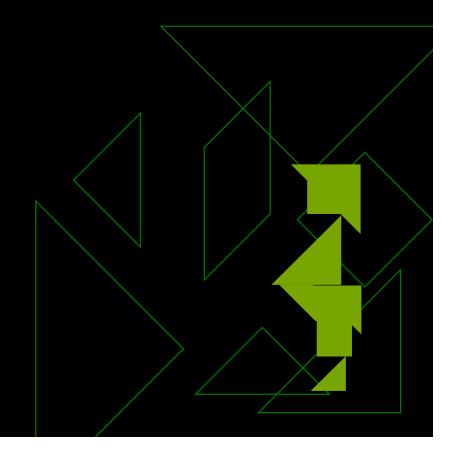
Production

- Executive Producer
- Producer or Project Manager
- Developer Producer or Technical Project Manager
- Associate Producer or Team Lead
- Lead Tester
- Game Tester
- QA



Design

- Creative Director
- Game Designer
- Lead Designer
- Level Designer
- Writer/Scripwriter



Engineering

- Technical Director
- Lead Engineer or Chief Architect
- Engine/Tools Engineer
- Chief UI Designer
- Graphics Engineer
- Al Engineer
- Multiplayer Networking Engineer
- Configuration Manager



Visual Arts

- Art Director
- Lead Artist
- Concept Artist
- World Builder or Level Designer
- Asset Artist
- Animator
- ◆ Technical Artist
- Marketing Artist



Audio

- Sound Engineer/ Sound Designer
- Composer
- Audio Engineer/ Audio Programmer



Corporate

- Marketing and Public Relations
- Creative Services
- Sales



Small Teams vs. Large Productions

- Only large projects and large budgets can have specialization
 - so try to be good at several different things.
- In this course: we divided the roles accordingly, but remember that you will need to have more than one hat!

Game Development Methods

- ◆ Business Parameters ⇔ Game Idea
- ◆ Academic Parameters ⇔ Game Idea
- A development method is just a systematized procedure to achieve the goal of producing a working product within budget and schedule.

Three Methods

- Waterfall
- Agile Development

Unified Development Process



Waterfall

- Classic Method: lots of front- end time and defining of functionality, late implementation of mechanics and levels.
- It's the assembly line of software development.
- Work moves in one direction, sequentially.
- Difficult to reverse, difficult to evaluate

Waterfall Model



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Design Document



Assets ⇒ teams



Unified Development Process

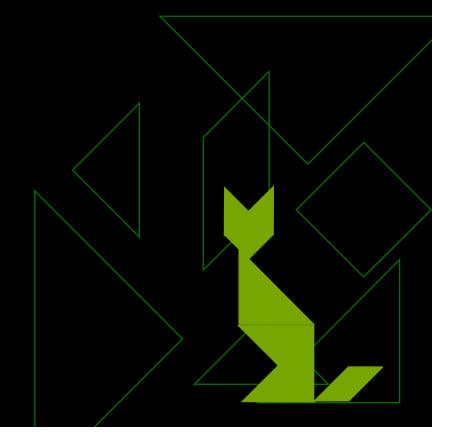
- Classic from software design
- First, "requirements capture" (what are the user's/ team's requirements, and make them into functional software)
- Then, draw in the center of a piece of paper the game concept, then in outward, radial mode, write the units/assets ("use cases").
- Then join use cases with actors that interact with them. They combine in "relationships".
- Then go develop.

Agile Development

- Iterative examples that show "vertical slices" with the most crucial examples/features.
- Agile is all about team dynamics and team cycles.
- Production is broken is small cycles or "sprints".
- At the beginning of production everybody meets and objectives and teams are set for that sprint.
- Daily meetings ensure the progression and communication.
- At the end of every sprint, the product is reviewed/showcased to the client

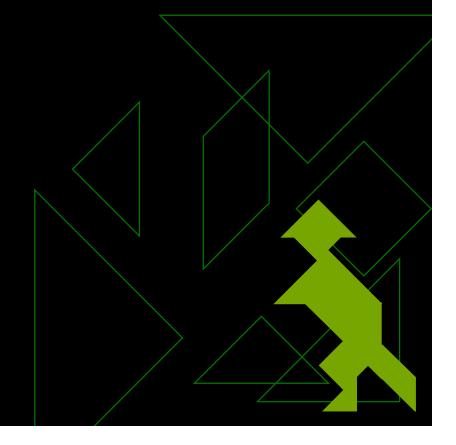
Production Cycle

- Pre-production
- Production
- Testing
- Post-production



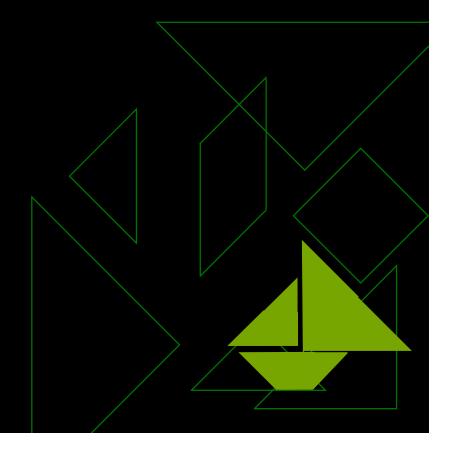
Pre-Production

- Game Concept
- Game Requirements
- Game Plan



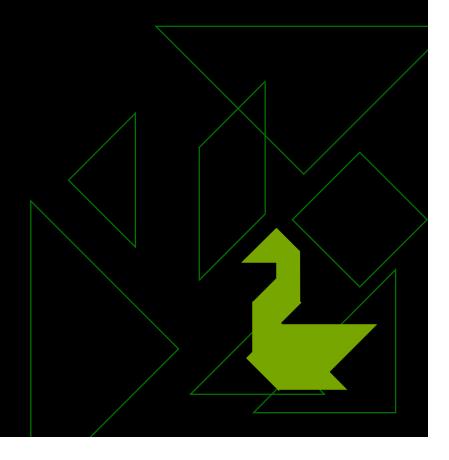
Production

- Plan Implementation
- Tracking Progress
- Task Completion



Testing

- Plan Validation
- Code Release



Post-production

- Learn from Experience
- Archive Plan

