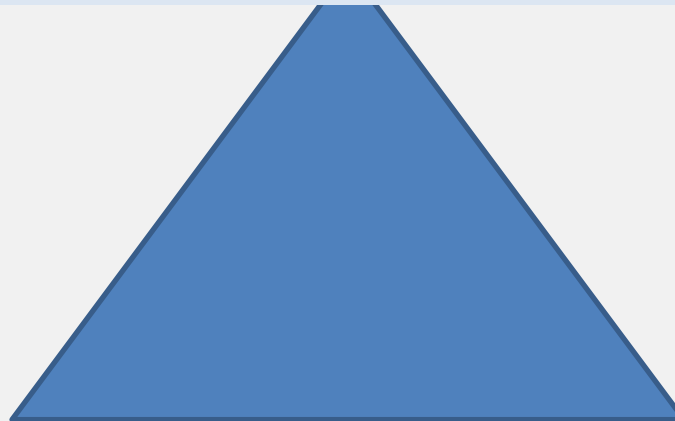


Early Design Process

GDD 450



Brent M. Dingle, Ph.D.
Game Design and Development Program
Mathematics, Statistics and Computer Science
University of Wisconsin - Stout

2015

See also references at end of slides (if any)

Designing a Game

- Process of Game Design can be described as
 - the successive layering of constraints

Open World

- Even Open World Games have constraints
 - May believe you can do anything
- But
 - Do not have complete freedom
 - Only certain ways players can move
 - A defined set of objects they can interact with
 - AI controlled agents move accordingly to specific algorithms
 - Player does have relatively open set of goals and decisions
 - But there are constraints that create this illusion of “able to do anything”

Constraints

- Constraints anchor your ideas
 - Give a place to begin
- Real World projects
 - Starting place is usually given to you
 - Can be good
 - Provides “initial design” so less “design work” to do
- Here you get to pick
 - So you have more work to do than typical =)

Starting From Scratch

- Limit the amount of time
 - say 48 hours
- Choose subject matter that interests you
 - a theme
- Choose a core mechanic to explore
 - Make a choice = add a constraint
 - Iterations may change it later as needed
 - Do not get stalled in the details

Where to Start

- Need a “core idea”
- Start with
 - **Aesthetics**
- **Aesthetics**
 - what do you want the players to feel
 - how should they react
 - what should the play experience be like
 - now work backwards player experience description
 - what rules will achieve the desired experience/aesthetic

Where to Start

- Need a “core idea”
- Start with
 - Aesthetics
 - **Rule System**
- **Rule or System of Rules**
 - What rules exist around you
 - Can they be made into a game
 - Can they be changed to become a game

Where to Start

- Need a “core idea”
- Start with
 - Aesthetics
 - Rule System
 - **Existing/Proven Design**
- **Existing Design**
 - Use what others have done
 - Adapt and Improve
 - Alter things here and there
 - Re-implement in a different setting
 - Re-implement with a different rule system
 - Re-implement with a different view/perspective
 - Fix what was “wrong”
 - ...
 - Make it uniquely different and better

Where to Start

- Need a “core idea”
- Start with
 - Aesthetics
 - Rule System
 - Existing/Proven Design
 - **Technology**
- **Technology**
 - Make use of something new
 - But Not just “new” tech
 - Use something old in a new way
 - Look around
 - What could be used in game
 - What hasn’t been used in a game

Where to Start

- Need a “core idea”
- Start with
 - Aesthetics
 - Rule System
 - Existing/Proven Design
 - Technology
 - **Existing Materials**
- **Existing Materials**
 - Use materials from other sources
 - Existing Game Art
 - Existing Game Mechanics
 - Work done by other before you
 - Use unfinished stuff
 - Use parts of parts
 - Check public domain sets
 - Build from what is there

Where to Start

- Need a “core idea”
- Start with
 - Aesthetics
 - Rule System
 - Existing/Proven Design
 - Technology
 - Existing Materials
 - **Narrative**
- **Narrative**
 - Start with a “story”
 - Design rules to fit
 - Many, many stories already written
 - Remember to consider the classics

Where to Start

- Need a “core idea”
- Start with
 - Aesthetics
 - Rule System
 - Existing/Proven Design
 - Technology
 - Existing Materials
 - Narrative
 - **Market Research**
- **Market Research**
 - Find a demographic that could use a game
 - Educational often fits here
 - Pick a topic/genre/something the is “hot pop” right now
 - Look for a “new” hot interface
 - VR, touch screens, holo...
 - Look for opportunities for easy sells

Where to Start

- Need a “core idea”
- Start with
 - Aesthetics
 - Rule System
 - Existing/Proven Design
 - Technology
 - Existing Materials
 - Narrative
 - Market Research
 - **Combinations**
- **Combinations**
 - Start with several of these
 - Aesthetics and Narrative often go hand in hand

Along the Way

- From your start, remember
 - You are adding constraints
 - Shaving off the excess
 - Narrowing down to the essence of your game idea
 - Defining and clarifying the idea
 - Chipping off the stone to reveal the statue
 - This is art
 - Removing/Controlling the noise
to present the picture to your audience

Next Step: Try it out

- Iterate the Design
 - Prototypes and Mockups
 - Will discuss more on this later
- For now
 - Test your ideas as quickly as possible
 - Play through your game
 - Modify as necessary

Mockups: Quick Prototypes

- Use Mockups, aka
 - Paper, cardboard, non-digital, analog
 - Prototypes
- Make your idea playable and testable
 - as fast as possible
 - as little programming as possible
 - easy to change

Why Mockup

- **Making something playable**
 - Forces you to actually **DESIGN the SYSTEM**
- Removes the hand-waving and pretending
 - e.g. this game will have 50 cards
 - the cards will be determined later,
but will definitely work with the idea
... honest

Paper Limitations

- Some things can be difficult to test on paper
 - dexterity of players (twitch mechanics)
 - complex calculations
 - and stat tracking
 - animation/eye-candy
 - should not be “required” as part of the game
 - just bonus to an already good game
 - computer user interface
 - But can do a pretend interface layout
 - Human just responds as computer should

Benefits Outweigh Limits

- Benefits
 - Testing the game idea quickly
 - Updating/adapting/improving it quickly
- Strengthens the idea
 - **sets a solid foundation**
 - well worth the investment

End Summary

- Use the above to produce an early Design Document
 - Define the “core” game idea
 - Provide the rules
 - Provide examples of desired art/feel/aesthetics/interface
 - State the desired player experience
 - Setup the narrative/story/theme
- Then reduce to an Inception Document
 - A pitch of the game
 - Short, simple, to the point
 - Done with a deeper understanding of how and what and why the game will be a good game
 - With a useable mockup/prototype for further illustration

Reminders

- Next Class (Friday)
 - You will be giving a presentation on YOURSELF!
- In two classes (Monday)
 - Pitch Presentations!
 - Inception Documents
 - Early version of Design Document

Questions?

- Beyond D2L
 - Examples and information can be found online at:
 - <http://docdingle.com/teaching/gdd450/>

- *Continue to more stuff as needed*

References

- Some material in these slides was derived/based on material from:
 - Ian Schreiber, Game Design Concepts
 - <https://gamedesignconcepts.wordpress.com/>
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