# **IDEA TO REALIZATION**

DEVELOPMENT, TESTING, MONETIZATION

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GAME MEDIA STUDIO



#### GAME DEVELOPMENT PROCESS

- The Process
- No Magical Formula
- Busy Idiots
- Why do we Fail?
- Assumptions [7]
  - ▶ Borrowed → Other Field
  - ► Inborn → Cognitive Bias
- Battling Assumptions



# JESSE, WE NEED A PLAN

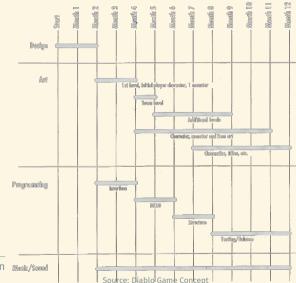
- Time & Resources
- Pitfalls of Planning
  - ► Too much ~> Overplan ↑
  - ► Not Enough ~> Underplan ↓
- Fight Chaos → Just Enough?
- The Cost of ↑↓
- **■** Embrace Chaos

If you fail to plan, you are planning to fail!

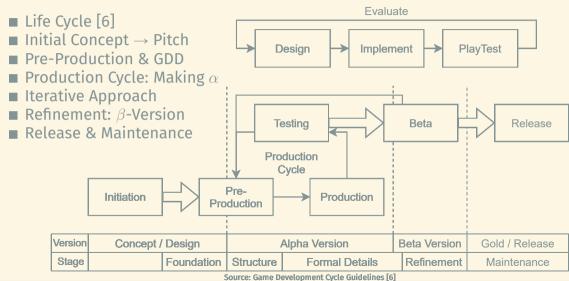
Benjamin Franklin

To be a game designer is to be wrong.

Soren Johnson Musik/Sound



#### GAME DESIGN LIFE CYCLE



#### PITCHING A GAME

- Getting Interest
- Flevator Pitch
- Game Pitch Document:
  - Short and Concise
  - Genre, Story, Look & Feel
  - Controls & Gameplay
  - ▶ Platform, Market & Budget



#### Guacamelee!

Genre: Beat 'em Up Platform: PSN/XBLA

Market: T for TEEN (+13)/ or +102

#### STORY:

"La Calaca" is back and this time he's kidnapping innocent souls to rebuild his un-dead army and to awaken the super evil Kukuicantzakoatiliapachtiliangaricutirimicuaro. Only the reincarnation of La Catrina can awaken him, and la Calaca has found it: Fl Presidente's daughter, the most beautiful git in the world who he promptly kidnaps to sacrifice...

Who will save the souls and stop the evil Calaca from unleashing the

Kukulcantzalcoatlilopachtlitanaavicutirimicuaro? Recover your honor, get the girl. Be awesome,

#### A FEW THINGS ABOUT LUCHADORES:

Luchadores are looked up to as protectors against the forces of evil.

The worst that can happen to a luchador is to reveal their own identity, in the came, they "die" when their mask is removed. (but maybe they have masks underneath masks)

Wrestling moves are their requiar attacks, but combos or special items can unlock super human crazy power attacks. Ike astro-tiger lick, or punch-drunk puncht

#### CAMERIAY.

A classic 2-D. Side-scroling Roat 'em Illo, with over the top out scenes! All the drame and all

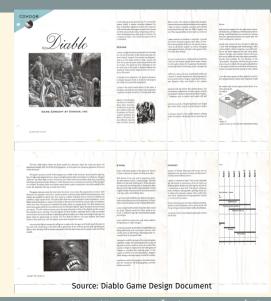
You have a bunch of characters to choose, each with their own attacks and strategic moves and cool backstories. Multiplayer option. Arena option and a lot of mini-games within the

With stylish visuals and awarome synthesizer mariachi reunattracki

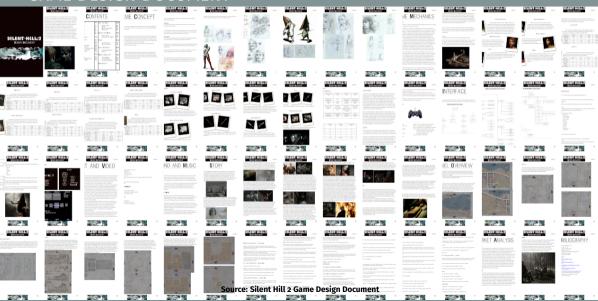


## GAME DESIGN DOCUMENT

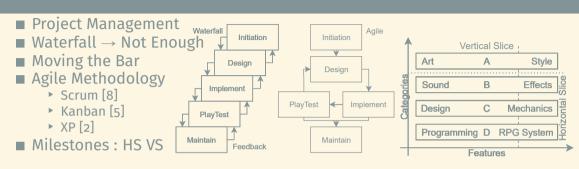
- Pitch → Design Proposal
- "Is This Really Necessary?"
- Different Approaches
- Content of a GDD [4]
  - Overview: Short Summary, Pillars
  - ► Concept: Background, Genre, Platform
  - ► Gameplay: Flow, Mechanics, Systems
  - ► Interface: UI, Controls, Mockups
  - ► Style: Art Style, 2D & 3D, Concept Art
  - ▶ Sound: Goals, Effects, Localization
  - Narrative: Story, Boards, Endings
  - ► Levels: Overview, Locations, Layouts
  - ► Technical: Platforms, Tools, Hardware
  - ► Marketing: Target, Funding, Monetization
  - ▶ Others: Achievements, Backend, Revision
- Modern GDD \ Flexible Wiki / Bible



### GAME DESIGN DOCUMENT



#### **KEEPING IT AGILE**





#### **TESTING GAMES**

- Making Sure it Works
- Testing Software
  - Boxes : Black vs White
  - ▶ Unit → Integration → System
  - Acceptance Testing
  - Regression & Continuous Integration
- Play-Testing [7]
  - Playing the Game "Game"
  - ► Test Protocol → Difficulty, Coherency, Fun
  - ► Self-Test, Over-Shoulder, Kleenex
  - Automated Testing? (I)
- Silent Review



Testing Scenarios

Requirements <

System

Black

Design

Knowledge

The

Box

Inside

Knowledge

Evaluation

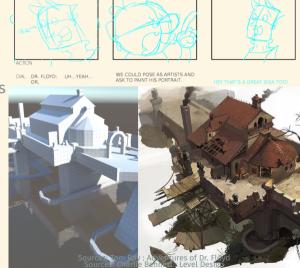
Acceptance

Testina

System

#### PROTOTYPING GAMES

- Assuming it Works → Prototype
- Premature Production [7]
- Design & Mechanics
  - ▶ Physical → Pen & Paper
  - ► Digital → Excel, XMind, Python
- Narrative → Story Boards & Graphs
- GUI → Mockups
- Grayboxing [7]
  - ▶ Placeholder Asset, Mechanic, Level
  - Good for Mechanical
  - ▶ Bad for Emotions
  - ▶ Difficult Play-Tests



Scene 32 RG/Kent

#### MARKET AND INNOVATION

- The market [7]
- Design ↔ Purpose
- Positioning Game
- Matthew Effect
- Innovation × Stagnation
- "Innovator's Dilemma" [3]



## **KNOW YOUR VALUE**

- Market Segment [7]
- Market Value of a Game
- Value Curve



Garry's Mod Deus Ex BioShock & Atmospheric Norld Philosphica Reactive Story RPG Pro-gression

[**IZHV**] Introduction to Game Development

#### TARGETING AUDIENCE

- Value Focus [7]
- Choosing the Focus
- Confirmation Bias [1]
- Setting Expectations

#### **Nobody Knows Anything**

Tynan Sylvester [7]

Game	Primary MV	Secondary MV
Super Meat Boy Dwarf Fortress Counter-Strike Minecraft LIMBO	Fast Platforming Emergent Narrative Competitive FPS Creative Building Dark Atmosphere	Retro Style Building Gambling Simulator Adventure Puzzle Platformer
Castle Crashers Braid	Fast Beat'em up Time-Based Puzzles	Cartoon Style Allegorical Style

## I HAVE A GAME, WHAT NOW?

- Shipping a Game
- Developer × Publisher
  - Marketing, Shipping, Deals
  - Combined -> Blizzard
  - Self Publish
- Online platforms
- Early Access / GreenLight
- Legal Matters: Contract, NDA

















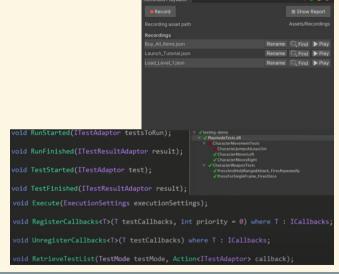






#### TESTING AND DEPLOYMENT IN UNITY

- Full Testing Support
- Unity Test Framework
  - ▶ Unit Tests
  - ► Edit & Play Mode
  - ▶ Platforms
- Automated OA
  - Testing UI
  - ► Record Interaction
  - Playback
- Major Distributors → Steam



#### **ADDITIONAL RESOURCES**





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- [7] TYNAN SYLVESTER. **DESIGNING GAMES: A GUIDE TO ENGINEERING EXPERIENCES.** "O'Reilly Media, Inc.", 2013.
- [8] HIROTAKA TAKEUCHI AND IKUJIRO NONAKA. "THE NEW NEW PRODUCT DEVELOPMENT GAME". In: Harvard business review 64.1 (1986), pp. 137–146.