

Mistborn Ragnarok - Aggressive Pigeon Studios
Game Design Document
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1 Executive Summary

In an apocalyptic world, follow Jora's quest to find answers as he goes through different obstacles and puzzles. Our game is a fun puzzle platformer with emphasis on the world and its dark setting.

2 Overview

Mistborn Rangarok centers around a character who has magical abilities inspired by the Mistborn Series by Brandon Sanderson that allow him to pull and push metals in similar fashion to the Magnesis ability in The Legend of Zelda: Breath of The Wild. This is used to fight enemies and solve puzzles.

Follow Jora's story as you find different notes explaining the lore and the setting. Travel through a dark and immersive world where ash falls constantly from the sky and enemies lurk around every corner. Since the inhabitants of the town seem to have disappeared, Jora finds himself alone on his adventure, lost with no guidance. This ambiance is captured in the lighting and foreboding atmosphere of the game.

3 Related Games

3.1 Hollow Knight

Hollow Knight is a game developed by Team Cherry and is an Action Platformer PC game released in 2017. Fight enemies in a forsaken world using spells and abilities unlocked along the way. Platforming areas lead to a final boss fight, requiring the player to use the abilities he/she has learned along the way. Mistborn implements similar mechanics especially abilities to fight enemies, and a boss fight. Hollow Knight has a really dark and gloomy setting which makes it very appealing and fits well with its story. The atmosphere of this game is similar to what we are trying to emulate.

3.2 INSIDE

INSIDE is a game developed by Playdead and is an Indie Platformer PC game released in 2016. The protagonist is being hunted by an entity while everyone else is enthralled by the entity. The protagonist has to sneak around and solve puzzles. This dark setting resembles the mistborn world. It also implements similar puzzle solving mechanics. The best part of INSIDE is its story and how immersive it is. We aim to replicate this in our game, as we want the player to get involved in the story and to be intrigued by the final revelations.

3.3 Trine

Trine is a game developed by FronzenByte and is an Action Platformer PC game released in 2009. Trine is a fantasy setting platformer, where the player fights enemies, solving puzzles along the way. Use character abilities to interact with the environment and achieve your goal. Mistborn is inspired by the puzzle solving element and the ability to interact with the world. Trine has very nice 3D graphics but has 2D side scrolling action which is the style of game we want to use in Mistborn.

4 Player Composites

"Alliser thorne, 27, museum guard. Single, Graduate of Loyola College. Plays games alone a couple times a week, and with other members of the museum on his days off. Focuses on competitive, action games like Gears of War and Call of Duty. Watches esports and sometimes rides horses at his parents farm."

When and where does this person play games? On his days off at home on his PC

What platforms does this player use? PC

How much time does this person spend in each session, and how frequent are gaming sessions? Twice to three times a week for 4h each

Who does he or she play with? His coworkers

What does the player like about games? They are fun and bring out his competitive side

What (non-game) brand images appeal to this player? RedBull

How much disposable income does this player have? 30000\$ a year

What competes with gaming time for this player? He learns Jiu Jitsu.

5 Game World

After a brutal attack at sea, Jora, the main character, wakes up after being cast ashore in a small rescue boat to the sights of an abandoned village. The world around him is cold and desolate and ash perpetually falls from the sky, covering the landscape in a black blanket. Due to the Lord Ruler's influence after seizing the power at the Well of Ascension 1000 years ago, the planet lies dangerously close to the sun – a fiery red ball in the sky. The Well has since been replenished and our protagonist feels it beckoning to him. The traumatic experience of the attack preceding his shipwreck have snapped Jora, awakening the Mistborn powers he was genetically predisposed to. As the prophecies foretold, the Hero of Ages must once again travel to the Well of Ascension and seize its power.

What awaits him there will require mastery of his newly acquired powers to overcome and save the world from impending doom.

6 Game Characters

6.1 Jora

The main character of the game, Jora is a Viking from the city of Luthadel. He wears a blue and gold colored robe, with a strap across his chest to hold vials of metals that he can consume to recharge his abilities. On his way back from a trip, something strange happened to him and his crew, leaving him as the only survivor. Equally, Jora starts to hear a strange thumping noise that seems to be drawing him towards something. He decides to follow this thumping, hoping to shed light on what happened to his crew and the inhabitants of the city.

Figure 1: Jora Concept Art



6.2 Ruin

The main antagonist of the game is Ruin. The player encounters him in the final level, which is a boss fight. Ruin is the god of destruction, and plans on destroying the world using the power at the Well of Ascension. Since Ruin cannot access the power directly, he tricks Jora into coming to the Well and taking the power, then giving it up, as is the honorable thing to do. Ruin then plans to take the power and finish off the apocalypse.

7 Art Direction

Both the game's setting and mechanics are inspired heavily by the Mistborn Trilogy by Brandon Sanderson. Some concept art depicting the game's setting can be seen below.

Figure 2: Crewmate Fighting



Figure 3: Jora's Loneliness



Figure 4: Jora's Determination



8 User Interface

The user interface has a health bar depicting the character's remaining health, the potion that he is using as well as a timer bar that shows how much time is left on the active potion. This is placed in the top left corner of the screen.

It also has a hotbar that shows a boat with three different icons. These represent the number of potions of each type the player currently has on him. This is found in the middle at the bottom of the screen.

Figure 5: Screenshot of Game With UI Elements



9 Technology Plan

We used Blender to make the assets and Unity to build and create the game (with Unity physics). We also used Autodesk Maya to create the character and all its associated animations.

10 Controls

The "A" and "D" keys allow the player to move right and left.

The "W" and "S" keys allow the player to go up and down ladders.

The "Space" key allows the player to jump.

The following keys allow the activation of the three potions.

1 Iron Potion

2 Steel Potion

3 Pewter Potion

Left Clicking allows the player to interact with objects using powers. The "E" key allows the player to interact with objects without powers.

11 Level Design

The level design is linear, while going from the far left side of the level to the far right side, while solving puzzle and overcoming obstacles and enemies. At the end of each level, the player is transported automatically to the next level after a cutscene for a total of two levels and a boss fight.

Obstacles include enemies, platforming, traps such as tripwires and spike pits. The puzzles are typically solved by using iron and steel to push or pull objects onto pressure plates, move objects out of the way, or activate levers and trapdoors. Throughout the map, chests can be found and opened containing potions that can be used to solve the puzzles or fight enemies as well as notes explaining the lore of the game.

12 Mechanics Analysis

The game has a total of 3 mechanics used to solve puzzles or fight enemies. These are the three powers (iron, steel, and pewter). Iron and Steel uses Unity's physics engine to pull and push metal objects around. Pewter gives access to fighting to overcome enemies and so does not rely on Unity's physics engine. Since these potions are available in limited supply it is important for the player to manage these resources to be able to progress through the levels.

The main way to move about the level is through platforming. This makes progress through otherwise easy sections of the level challenging, requiring precision jumping from the player. Platforming is a very popular mechanic and has made games like Celeste very popular due to its challenging nature.

13 Project Status

The tasks/mechanics that have been implemented to date are:

Platforming

Ladders

Iron and Steel Abilities

Regular Enemies (Bandits)

Combat with Pushing and Pulling

Level 1 Layout

The following tasks/mechanics are in the process of being implemented:

Pewter Ability

Sound Design

The tasks/mechanics that still have to be implemented are:

Ranged Enemy

Highlighting Interactables

Koloss Enemy

Boss Fight

Level 2 Layout

Boss Level Layout

14 Meeting Durations

September 18th 2019 - 90 minutes

September 25th 2019 - 90 minutes

September 28th 2019 - 90 minutes

October 2nd 2019 - 90 minutes

October 9th 2019 - 90 minutes

October 16th 2019 - 90 minutes

October 23rd 2019 - 90 minutes

October 30th 2019 - 120 minutes