# Augmented Escape

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Target Platform : Microsoft HoloLens

 $\begin{tabular}{lll} \textbf{Target Age} & : 13+\\ \textbf{Target Rating} & : T \end{tabular}$ 

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## 1 TODO Story

A mysterious group known only as *The Company* is behind a major conspiracy that will lead to world domination, and you know too much about them. You are being hunted, but death is not your destiny. *The Company* believes anyone can be convinced to join them, and you're no different. They've captured and brough you to a remote location to teach compliance. You will be subjected to various forms of brainwashing and torture techniques. Will you succumb to *The Company*'s will, or will you dash their plans and take them out from inside?

## 2 Characters

## 2.0.1 Axshun Jaxxon



Figure 1: Axshun Jaxxon

- 1. Personality Axshun Jaxxon is a rash individual. He is the Leroy Jenkins of Augmented Escape. He uses brute force and brawn over brains. He leaps before he looks. He also loves fried chicken. He may not always get the job done, but at least he's got chicken.
- 2. Appearance He has big muscles. He stands 6'6", weighs 280 pounds, is bald, has a goatee, and has one metal pauldron over his right shoulder.

The pauldron has a dragon embossment on it. He has tan skin from farming all day. He has no shirt. He has firefighter pants with one leg burnt off at the knee. He wears combat boots.

3. Backstory He is a firefighter that farms chickens in his free time because he likes chicken. Axshun Jaxxon receives a call from Bearsford, South Dakota dispatch. He is sent on a rescue mission. After rescuing the baby chicks in the farm house, he is alerted to the presence of a child. The child is trapped in the farm house loft. The fire burns so hot and brightly, that his firefighter pants catch flame, resulting in the scorch makes on his left pantleg. A wooden beam from the farm house falls onto his head. He is knocked out cold. Ten days later, he awakes in a sick and twisted game of escaping *The Company*.

### 2.0.2 Ben Benson



Figure 2: Ben Benson

1. Personality Ben Beson is an extremely conservative man born in the secluded areas of Louisiana. He is reserved and quiet. He is cool and calculating. However, when pushed beyond his limits, he is prone to extremely violent outbursts. Whenever possible, Ben Benson will use

- subterfuge to defeat his enemies. He is the exact opposite of Axshun Jaxxon.
- 2. Appearance He is a mature, white man that wears button up shirts with sweaters. He near sighted and wears glasses. Fluffy brown hair. He is 5'4" and weighs 120 pounds and has no athletic abilities.
- 3. Backstory Ben Benson is a Chemistry teacher by trade. In his spare time, he enjoys working at the local car wash. One day, he gets into an argument with his wife, Skylar, over pizza toppings. He gets so angry, he takes their pizza and throws it outside. It lands on their neighbor's house. The next day, a student accidentally mixes the wrong chemicals during the lab and creates mustard gas. This results in an explosion that knocks Ben Benson out. He is taken to the nurse's office. It just so happens that the nurse is an agent of *The Company*. She takes this chance to abduct the genius Chemistry teacher. He wakes up caught in a web of deception and lies. Can he escape the room?

#### 2.0.3 Yoki Warrior



Figure 3: Yoki Warrior

- 1. Personality She is a detective, curious by nature. She is a lone with a serious attitude. She can be insenstive to others' plights. She clean, thorough, detailed oriented, and perfectionist. She has depression because of the extinction of her tribe and the disappearance of her lover. Despite her perfectionst attitude, she despises cyborg technology. She especially hates cyborg technology, as she sees it as an abomination and imperfect.
- 2. Appearance She has light brown skin and long silky hair She wears traditional Native American clothing. Her hair is black and her eyes

are also black. As a young woman, she stands 5'3" and weighs 97 pounds. Due to her cyborg reconstruction, her left arm is made of titanium steel alloys. She has an implanted left eye that can perceive ultraviolet and infrared light.

3. Backstory After single combat with a cyborg bear, she falls unconscious from her grievous wounds. Her noble fighting garnered the attention of the omnipresent *Company*. This prompted them to abduct her into their program. Due to her body being mangled beyond recognition, *The Company* invested \$4 million dollars to rebuild her as cyborg. She is now the thing she hates most: a cyborg.

## 2.0.4 The Company



Figure 4: The Company.

1. Backstory In 2018, World War III broke out. Nuclear war raged on for 15 years, destroying the vast majority of the planet and decimating the population to the hundreds of thousands. In the aftermath, a reconstructed, cyborg President Nixon gathered the remnants of the Illuminati and the Free Masons. The resulting merger is *The Company*. Biding their time, they gathered influence over the years. Now, in the year 2142, *The Company* has complete anonymous control over

- the American world government, granting them free reign over North America.
- 2. Goals *The Company* currently olds captive the continent of North America. Their ultimate goal is to overthrow the other two remaining world governments: China, and the Afindican Warlords as well as the rogue rebels in Antarctica: The Nomads.
- 3. Influence and Power Having complete anonymous control over North America gives them access to unlimited natural resources (but not rare metals). Using their cyborg technology, they have implanted control chips into the newest generation, giving them access to the largest standing army still in existence today. They utilize *The Program* to recruite the best of the best of the previous generation, such as Axshun Jaxxon, Ben Benson, and Yoki Warrior.

#### 2.0.5 Afindican Warlords

- 1. Backstory The remnants of the India and Africa have merged into one super-continent. They are the result of the tectonic plate shift after the Araibian Plate was nuked from orbit and sunk into the Earth, the massive heat from the Mantle fused the Indian and African tectonic plates into one massive plate that drifted into the center of the Atlantic Ocean. The result is Afindica. Then, the various warlords in the African tribes banded together to create the Afindican Warlords. The new country is the last place on Earth with natural resources. They are rich in Uranium, Cadmium, and other transition metals. They also have the last chicken farm in the world.
- 2. Goals Being the combination of Africans and Indians, they are a highly spiritual people that want to live simple and separate lives from the rest of the world. They simply want to be left alone.
- 3. Influence and Power Seeing as Afindica holds the only chickens and rare metals in the world, they have a strong monopoly on the world economy. The other world powers vie for the favor of the Afrindican Warlords. Thus, while they have little military might, they have total economic control.

#### 2.0.6 The Chinese Conglomerate

- 1. Backstory Similar to The Company, the Chinese Conglomerate has complete control of the surviving Asian peoples since 2142. Their main activities are bargaining with the Afindian Warlords and engineering robot armies and workers. Because of the destruction of their homeland and the death of the planet, the Chinese Conglomerate seeks to explore a new home on the Moon.
- 2. Goals The Chinese Conglomerate just wants to leave Earth. There is nothing left for the Asian people. The Moon is the only solace from the desolace of Earth.
- 3. Influence and Power The Chinese Conglomerate has the world's largest cyborg army. This makes them the country with the strongest military might and scientific technology.

#### 2.0.7 The Nomads

- 1. Backstory The Nomads are a rebellion which started in the wake of The Company's rise to power. They wage war on The Company and are the only group in the world that know of their plans. The Nomads commonly use guerilla tactics and subterfuge to slow down The Company's progression. They fly an orange flag with an white phoenix emblem stitched into the center which symbolizes the rebirth of the Earth's civilization and the burning passion of the people who form The Nomads. The Nomads are based in South America, a piece of land untouched by nuclear war. They use stolen stealth boats and ancient drug-smuggling submarines to reach the shores of North America unnoticed; then, they use repurposed retina scanners to identify people who work at The Company.
- 2. Goals The Nomads want to strike back at The Company for instigating the devastating nuclear war. The Nomads are made up of the group of survivors that were ravaged by The Company. Their sole driving force is to dismantle The Company in pure revenge.
- 3. Influence and Power Being a relatively small and rogue operation, The Nomads have little political influence, yet they retain massive through knowledge and stealth. While not being able to connect politically with the other world powers, they still are able to conduct trade and avoid the wrath of The Company.

### 2.0.8 Mittens



Figure 5: Mittens, the Alien Cat.

- 1. Backstory Mittens is an alien cat that was experimented on in Area 51 under The Company's orders. During an attack on Area 51 by the Nomads, he was released and now resides in the Rocky Mountains. Whenever he gets wind of an abduction by The Company, Mittens will use his telepathic powers to communicate with the abductees to assist them in escaping the clutches of The Company.
- 2. Goals Mittens wants revenge on The Company for ordering the gruesome imprisonment and the painful torture experiments. His only goal is to destroy The Company. Without his people, he is weak. He aims to take down The Company by empowering The Nomads.
- 3. Influence and Power Because Mittens is a secret alien, not many know of his existence. Only those in the Nomad council know of Mittens because the Area 51 staff were all killed in The Nomad attack. Still, Mittens has great power, despite his weak influence. He has alien telekinetic and telepathic abilities.

# 3 TODO Core Gameplay

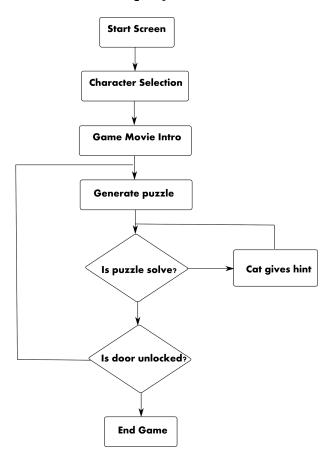


Figure 6: The game state flow chart.



Figure 7: Main Menu



Figure 8: Start Menu

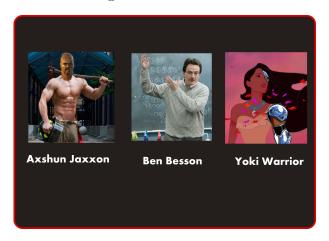


Figure 9: Character Select

## 3.1 TODO Mechanics

- Single player.
- Puzzle solving.
- Room is mapped by the HoloLens and augmented to match a scenario.
- 3-4 puzzles placed around the room randomly.
- Each puzzle gives a piece of the answer to escaping the current room.
- Puzzles will be interactable 3D objects in augmented reality.

- Once all puzzles of a room are solved, their answers can be entered into the door (keys, lock code).
- Some puzzles and rooms will have random components in order to prevent "trial and error" attempts through the game.
- Entering a wrong room answer will result in a 1 minute penalty.
- Players will have 1 hour to solve all puzzles in all rooms.
- Scenarios will contain 3 rooms each.
- All rooms must be completed within the time limit to complete the scenario.
- Upon advancing to a new room in the game, the HoloLens will remap the current room the player is in.
  - The player does not have to change rooms themselves.
- Upon successful completion of the scenario, a story prompt will be shown to the player describing the events that follow the escape.
- At **50 minutes** remaining, Mittens will appear to give the players a hint in case they're stuck.
  - If a hint is given, Mittens will disappear and reappear at 40, 30,
    25, 15, and 10 minutes remaining.
  - Hints will be consistent for each playthrough of the same scenario.

#### 3.2 TODO Goals

- Players win the game if they manage to escape the scenario within an hour
- After winning, an expository paragraph will be shown to the player to describe what happens following the escape.
- Players lose if time expires.
- After losing, an expository paragraph will be shown to the player to describe what happens to them after their escape fails.

### 3.3 TODO Hints

- Mittens can give the player several types of hints after the player answers a riddle.
  - **Remove Decoys**: Remove all or some of the decoys in the room.
  - Puzzle Explanation: Explain part of a puzzle to make it easier for the player to solve.
  - Answer Location: Place a glow on an object required for a puzzle.

# 4 TODO Puzzle Types

### 4.1 Acrostic

There will be two pages appearing in the room for this puzzle. The first page contains clue phrases that, when answered, provide a mapping of letters to numbers (See Figure 10). The second page has a series of blank spaces and numbers (See Figure 11) that make a sentence when the mapping from page 1 is applied (See Figure 12). The results of this puzzle will be a number for the key or a hint for another puzzle.



Figure 10: Page 1



Figure 11: Page 2

| _ | A | _ |     | - | Α | _ | _ | J | _ | _  | _  | _  | _  | N  | _  | _  | Р  | _  | _  | _  | _  | _  | _  | _  |
|---|---|---|-----|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 3 4 | 1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

Figure 12: Filling characters in on second page

## 4.2 Rope Chain

There will be four **20 foot** ropes each with four pegs spaced at different distances apart attached along the rope. Only one rope will have the exact peg separation required to insert each peg into four anchored podiums across the room.

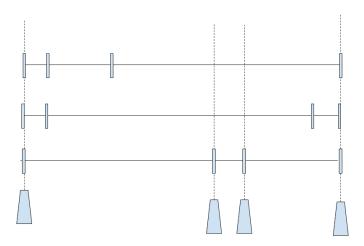


Figure 13: An example of the ropes, pegs, and podiums.

## 4.3 TODO Block and Key

There will be six 1 foot cubes spread across the room. The player will need to place and orient these blocks on a pedestal to create an image by aligning the engravings on each cube. The opposite side of the cube array will then reveal an answer required to escape the room.

## 4.4 TODO Cryptogram

Encrypted messages that need to be put through a cipher in order to be easily read.

### 4.5 TODO Connect the Dots

Images drawn may be of other objects in the room. Different shaped dots (e.g. square vs. circle) will connect to make different images. A key will be placed in the room to indicate which dots make the correct image.

## 4.6 TODO Statues/Totems

**3-4** statues or obelisks with images need to be positioned in a particular way to unlock an answer. There will be an image, that may or may not be the result of the solution of another puzzle, depicting how to orient the statues around the room.

## 5 TODO References

- Acrostic Wikipedia entry.
- Cryptogram Wikipedia entry.
- Puzzle Idea List A list of puzzle ideas.
- Rotating balls and Symbols A description of the rotating balls and symbols puzzle from Uncharted 4.
- Uncharted 3 All Puzzles All of the puzzles in Uncharted 3.