Jumping Jax game design document

Written by: Levente Biro, Sabien Jarmin

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Caos Creations, LLC

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# Game overview

## Game concept

Jumping Jax is a 3D cyberpunk styled platformer, where the player has to find his dog (Jax) on each level. This is done by either bunnyhopping or platforming through the level. Cyberpunk style music will play during the level.

## Target audience

The target audience of this game is people who

* Love cyberpunk games
* Love platforming games
* Love the bunnyhopping mechanics of games like CS: GO

## Game flow summary

## Art style

The game will use cyberpunk, neon style lighting. The play areas will always be set in a narrower space, even in open areas. Light will come from both the sides and from below the character. We will try to stay away from lightning from the top.

Levels will be either fast-paced or slower-paced, with the second one being parkour areas. Parkouring will mainly be done when the player has to move vertically, while bunnyhopping will be used when horizontal distances need to be covered.

Due to the rapid expansion of humanity, there is barely any space left to build, however, necessary infrastructure still needs to function. For this reason, bridges and tunnels have taken over suburbs and residential areas, with subway stations appearing in small streets in big cities.

# Gameplay mechanics

1. Bunnyhopping
2. Parkouring
3. Collectables
4. Level completion-time rating
5. Portals
6. Custom maps
7. Replay
8. Tutorial texts
9. Developer console

## Gameplay mechanics descriptions

### Collectables

The player will have to option to collect glowing dog bones during their progression. These dog bones will count towards their rating at the end of the level.

### Level completion-time rating

When the player finishes a level, they will get a dog bone rating depending on the time they completed the level under. By default, there are 3 available dog bones to achieve. However, the collected optional dog bones will count in o the rating, meaning if a player only gets a 2-bone rating, but if they collected 1 bone during the level, they would get a 3-bone rating.

### Portals

On certain maps, the player will have the option to create a maximum of 2 portals for them to use for traversal.

Portals will allow the player to teleport instantly by walking through a portal on one wall, and out the portal placed on another wall.

* A player can shoot one portal through another
* Portals preserve the player's momentum
* Portals can teleport other objects besides the player
* Players cannot create a portal while inside of another portal
* Left click always places the Blue Portal (unless it is re-bound to a different hotkey). Pink Portal is placed with right click.
* Portals can only be placed on Portal Walls, or more specifically, objects with the Tag PortalWall and the Layer PortalWall.

We are not intending to ship this feature in the first alpha release.

### Custom levels

The player will be allowed to create custom levels using a built-in editor, and then post them on the Steam Workshop of Jumping Jax.

We are not intending to ship this feature in the first alpha release.

### Replay

The second time the player progresses through a level, their body will have a hologram clone that will follow the player’s path from the original run. The previously pressed keystrokes would also appear on the HUD.

### Tutorial texts

On each level, tutorial text will appear containing whatever the level designer wrote in it. This text will disappear when the player presses TAB.

### Developer console

The game will feature a console, which will host several commands for the developers and the players.

These commands are:

|  |  |  |
| --- | --- | --- |
| Command | Description | Requirements |
| GetLevelTimes | Prints out what times are required for what bone-rating. |  |
| CollectBone {INT} | Adds {INT} amount of collected bones to the player for that level. |  |
| GetLevelInfo | Prints out the following:   * Level name * Times * Num. of collectables * Tutorial text |  |
| GetGameInfo | Prints out the following:   * Game version * Date of release * Steam name of owner * Unity version * Unity date of release |  |

We are not intending to ship this feature in the first alpha release.

# Setting

The game will be set in the far future. The player character is a middle-class man who loves to play hide-and-seek with his dog, Jax. One day, Jax gets out of control, and the player has to chase him down.

# HUD

The game will feature a HUD. It will contain the following elements:

* The player’s speed (m/s)
* Their time
* Current portal status (crosshair)
* Tutorial text for current level
* Keystrokes