# Pacman In Hawaii During Christmas

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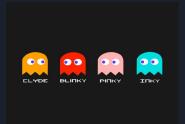
### Goals

- Create the basic form of PacMan
- Create a maze that is different and relatable to us

 Use skills learned throughout the semester and implement techniques into our final project.

• Make it fun and creative





### Design Process



#### Sprites

- Pacman
- Cars
- Background google maps of certain areas of Oahu
- Background Mccully, Kaimuki,

#### Chinatown

- Build 2D physics Colliders maze routes
- Size and Scaling
- Where sprites will be added to
- Pacman {sprite}
  - o Build 2D colliders
  - Animation mouth movement
  - sync ing mouth with direction of Pacman

#### • Cars (sprite)

- Build 2D colliders
- Placed on maze maze maps

#### C# scripts

- Pacman movement
- Pacman dot (Cars)
- Ghost
- o Main Menu

#### Other animenties

- Music
- Score keeping
- Multiple mazes
- Powerups
- Multiple levels
- Multi-player action



### Development - problems



- Choosing our sprites
  - For mazes
  - For pacman
  - For Pac dots pacman going to "eat"
- Animation for Pacman
  - Making him look life-like and moving
- Movement of Pacman
  - Orientation of Pacman face to direction forward
- Symmetry of maze
- Ghosts A.I.
- Collaboration unity feature issues
- Script issues/debugging





### Development - Solutions



- Basic research
  - Sprites
  - Mazes google maps
- Setup maze (colliders, routes for pacman to follow)
- Animation rendered within unity
- Movements template from homework 1
- Minimize sending revisions to unity cloud at same time





### Game Mechanics

- Player opens/enter our Pac Man game
- Title screen prompts player to play game
- Enters maze (predetermined area of Oahu)
- Player must destroy all traffic on map to move on and win
- Player controls:
- Up, down, right, left controls on keyboard (typical)
- Pacman "Hero"
  - Travels around areas of Oahu trying to clear traffic
  - Collects "destroys" cars that Pac-man collides with
  - Must clear entire area of cars stuck in traffic before the ghosts stops him
  - Upon respawn, Pacman has powerup for a limited time
- Ghosts "Villain"
  - o To travel around areas of Oahu to stop Pacman
  - o Want to keep the congestion of traffic around





## LET'S PLAY!!!



### Thank You

Are there any questions??