

# Hive Mind Ranching

#### The Swarm

#### Presenting in the order of:

- Eiler Schiotz
  - Super Senior, Philosophy Major
  - Programmer, Sprite Artist
- Kevin Woo
  - Junior, Mathematics Major
  - o Programmer, Game Architect
- Henry Arjet
  - Senior, Aerospace Engineering Major
  - o Programmer, Level Design & Terrain Artist







#### **High Concept Design**

- Tile based
- Turn-based tactics
- Single resource for progression
- Space → Texas
- Pixelated art
- Variety of characters





#### **Visual Aesthetics**

- Arid landscape
- Bug-like alien swarms
- Farmers
- Cowhands

















#### **Audio Aesthetics**

- Tense western showdown music
- Gunshots and death cries
- Hawk screeches and train horns





Old West Gunslingers by Fesliyan Studios music https://www.fesliyanstudios.com

#### Gameplay Aesthetics

- Nostalgic
- Simple controls
- Precarious game progression
- Absurd satire of Texas dialect

#### Alien2:

Primeape? Sounds mo' like primerib to me, ha! Lets grill 'em up nedium-rare.



#### Gameplay Mechanics

- Click
  - o To move
  - To attack
- Can eat to heal or spawn
- Cowhands rotate and shoot at target
- Game is won by eating the objective



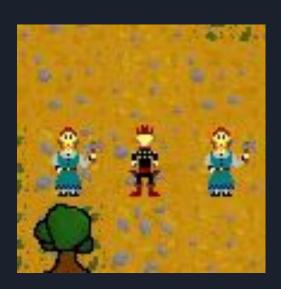
### **Gameplay Dynamics**

- Swarm making
- Avoidance of cowboys, attack farmers
- Path planning



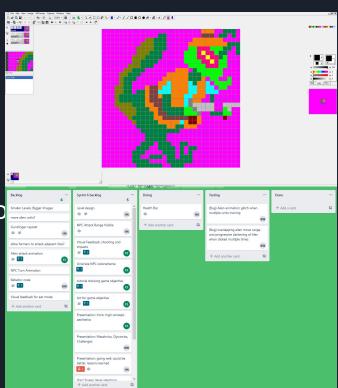
#### Technical Challenges

- Phaser documentation
- Grid based game layout
  - Matrix representing sprite locations
  - JSON tilemap representation
- Enemy AI
- Using other programs and scripts
  - Easystar (pathfinding)
  - Tiled (map making)
  - GraphicsGale (sprite art)



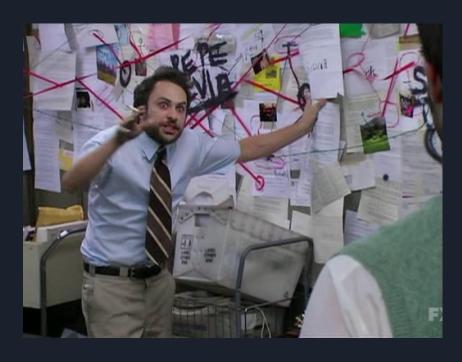
#### What Is Going Well?

- Art Pipeline using GraphicsGale
  - Uniform 32x32 sprites
- Level design pipeline using Tiled
- Task assignment meeting using Trello
- Version control system
  - Separate branch for each member
  - Master only updated at end of sprint



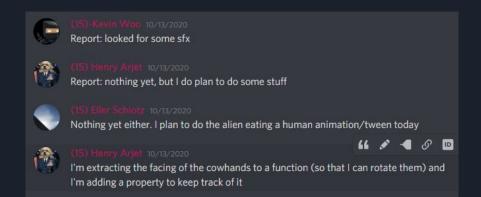
#### **What Could Have Gone Better?**

- Phaser wrangling
- Code organization
- Tracking sprint progress
- Mutual support
- Regularly pushing changes



#### **What We Learned**

- Check-ins are vital
- Silence is a bad sign
- Refactoring only gets harder
- Someone needs to step up
- Git, Easystar, Tiled, GraphicsGale



## **Questions?**