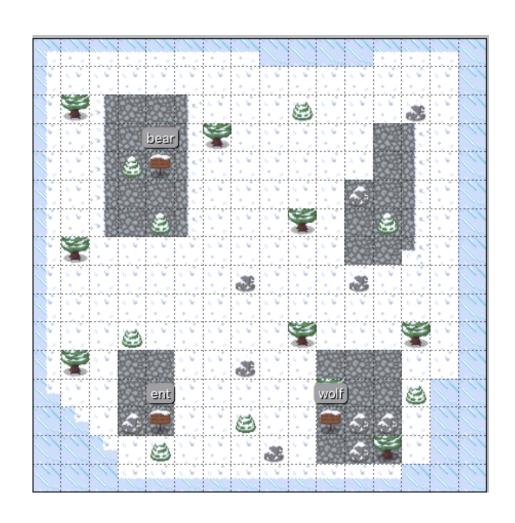
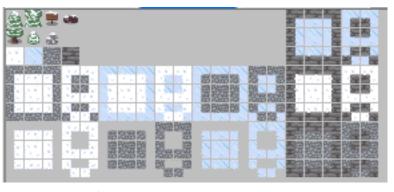
# Lily's Adventure

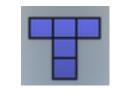
Microverse JS Capstone



### Tile



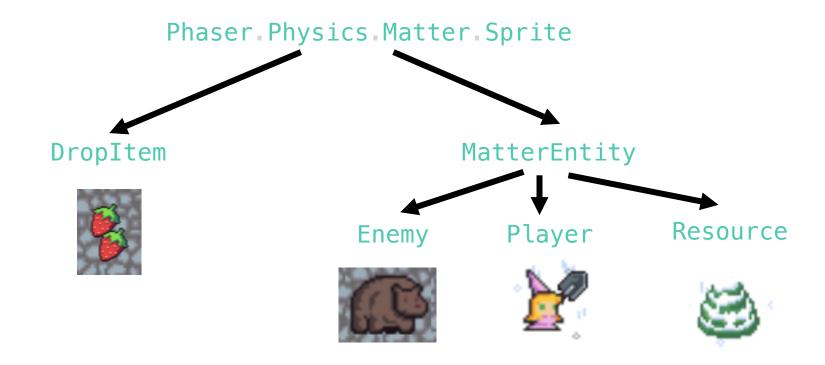




Name	bear	
Туре		
Visible	<b>✓</b>	
Х	128.00	
Υ	160.00	
Width	32.00	
Height	32.00	
Rotation	0.00	
Flipping		
Horizontal	☐ False	
Vertical	False	
Custom Properties		
drops	[241,280]	
health	50	

Custom Properties	
depth	1
drops	[273,273]
yOrigin	0.6

#### Inheritance Diagram



#### Mechanic: Idle & Walking Animation

- Select png with characters from <a href="https://superdark.itch.io/enc">https://superdark.itch.io/enc</a> hanted-forest-characters
- Go to
   http://gammafp.com/tool/atl
   as-packer/ and create atlas
- Then with that atlas, use <a href="http://gammafp.com/tool/an">http://gammafp.com/tool/an</a> <a href="imator/">imator/</a> to create animation

```
import princessPng from '../assets/images/princess.png';
import princessAtlas from '../assets/images/princess atlas.json';
import princessAnim from
'../assets/images/princess anim.json';
static preload(scene) {
     scene.load.atlas('princess',
     princessPng, princessAtlas);
     scene.load.animation('princess_anim',
     princessAnim);
Update(){
     if (Math.abs(this.velocity.x) > 0.1 | |
     Math.abs(this.velocity.y) > 0.1) {
     this.anims.play('princess walk', true);
     } else {
     this.anims.play('princess_idle', true);
```

#### Mechanic: chasing player within certain range

\* install phaser-matter-collision-plugin

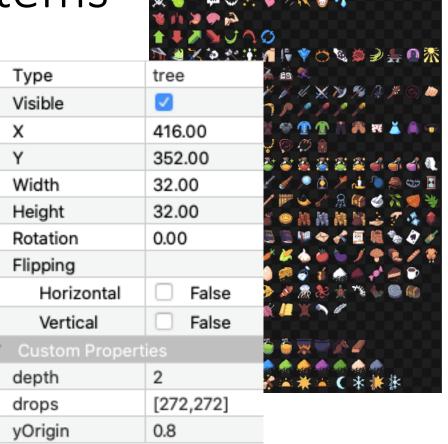
```
There's a sensor around the enemy. When the
  player enters within the range, it'll set the player
  as attacking target and start moving towards the
  direction of the player.
const { Body, Bodies } = Phaser.Physics.Matter.Matter;
const enemySensor = Bodies.circle(this.x, this.y, 80, {
     isSensor: true,
     label: 'enemySensor',
});
this.scene.matterCollision.addOnCollideStart({
    objectA: [enemySensor],
    callback: (other) => {
    if (other.gameObjectB.name === 'player'){
         this.attacking = other.gameObjectB;
    context: this.scene,
```



#### Mechanic: Drop and collect items

Each object has a custom properties of 'drops', which is an array with number that's connected to the items png. For example, 272 is the tree bark pic. The attribute can be parsed using const drops = JSON.parse(
resource.properties.find((p) => p.name === 'drops').value,
);

Then on dead, the object is removed and items are created. On pickup, the items are destroyed and score is added.



#### Mechanic: Player Attacking

- When the space key is down, the weapon is rotated. When the weapon is rotated above a certain angle, it triggers hit() method of the player
- the target's health decreases if there're objects within the player's sensor (blue circle)



#### Mechanic: Scoring System

- Post request to <a href="https://us-central1-js-capstone-backend.cloudfunctions.net/api/games">https://us-central1-js-capstone-backend.cloudfunctions.net/api/games</a> with content of { "name": "lily adventure" } to get unique API key for the game
- Get request to /games/<key>/scores to score
- Post request to same route with body of {user, score} format to add score

## Bugs faced

Bugs	Solved By
webpack on handling static assets	Reformat imports statement
Jest testing along with static assets	Configure Jest in package.json
Deployment nodeJS app to heroku	Add Procfile, server.js.
'this' keyword under class	Added transform-class-properties plugin to babel
Unexpected token ESLint error	Added babel-eslint

Explain what were your initial objectives (at the end of day 2) of the project and which ones did you (or not) achieve and why

Initial objective: fart man

Fart man
Choose your fart:
https://www.youtube.com/watch?v=ngALAdD3nkw
https://www.youtube.com/watch?v=W\_FRPoJIrII
https://www.youtube.com/watch?v=12iwkJWdGs8
https://www.youtube.com/watch?v=0GgUnrLHapo
https://www.youtube.com/watch?v=EIO\_Cs6JoWM
https://www.youtube.com/watch?v=Onf\_0Thk\_4Q
light fart: https://www.youtube.com/watch?v=dO7gB5ATJr8
light fart 2: https://www.youtube.com/watch?v=EIO\_Cs6JoWM

#### how bout sneeze man

sneeze sound:

https://www.youtube.com/watch?v=fR2\_9nBPdXs https://www.youtube.com/watch?v=k0eOj72dCCU https://www.youtube.com/watch?v=EC9XKrB1gSU woman: https://www.youtube.com/watch?v=rhCV3-7-Cao https://www.youtube.com/watch?v=9gpCsHfw5FE https://www.youtube.com/watch?v=fccTY2Ytgb4 https://www.youtube.com/watch?v=SLs2iWCCqaA https://www.youtube.com/watch?v=502IdezvBJY https://www.youtube.com/watch?v=v5Q1IPhHPOQ

#### Appendix

- Configuring Jest: <a href="https://jestjs.io/docs/en/configuration.html">https://jestjs.io/docs/en/configuration.html</a>
- How to Deploy Phaser Game to Heroku: <a href="https://medium.com/@diegoreyes1212/how-to-deploy-phaser-3-node-js-express-webpack-game-to-heroku-tutorial-8a813f31502c">https://medium.com/@diegoreyes1212/how-to-deploy-phaser-3-node-js-express-webpack-game-to-heroku-tutorial-8a813f31502c</a>
- Creating Phaser Template: <a href="https://phasertutorials.com/creating-a-phaser-3-template-part-1/">https://phasertutorials.com/creating-a-phaser-3-template-part-1/</a>
- Creating a survival game using PhaserJS: <a href="https://www.udemy.com/course/create-a-survival-game-in-javascript-with-phaser-3-in-2020/">https://www.udemy.com/course/create-a-survival-game-in-javascript-with-phaser-3-in-2020/</a>
- 16 x 16 Enchanted Forest Characters: https://superdark.itch.io/enchanted-forest-characters
- Sound Effects: <a href="https://freesound.org/">https://freesound.org/</a>
- Natural Tilesets: https://stealthix.itch.io/rpg-nature-tileset?download
- Atlas packer & Animation tool: <a href="http://gammafp.com/tools/">http://gammafp.com/tools/</a>
- Scoring API: <a href="https://www.notion.so/Leaderboard-API-service-24c0c3c116974ac49488d4eb0267ade3">https://www.notion.so/Leaderboard-API-service-24c0c3c116974ac49488d4eb0267ade3</a>
- JS Capstone Rubrics: <a href="https://www.notion.so/microverse/RPG-game-f94a617841e240a293c0b6928beebe89">https://www.notion.so/microverse/RPG-game-f94a617841e240a293c0b6928beebe89</a>
- Transform-class-plugin: <a href="https://babeljs.io/docs/en/babel-plugin-transform-class-properties/">https://babeljs.io/docs/en/babel-plugin-transform-class-properties/</a>
- Fix Eslint unexpected token error: <a href="https://stackoverflow.com/questions/53072225/how-can-i-fix-eslint-parsing-error-for-unexpected-token">https://stackoverflow.com/questions/53072225/how-can-i-fix-eslint-parsing-error-for-unexpected-token</a>