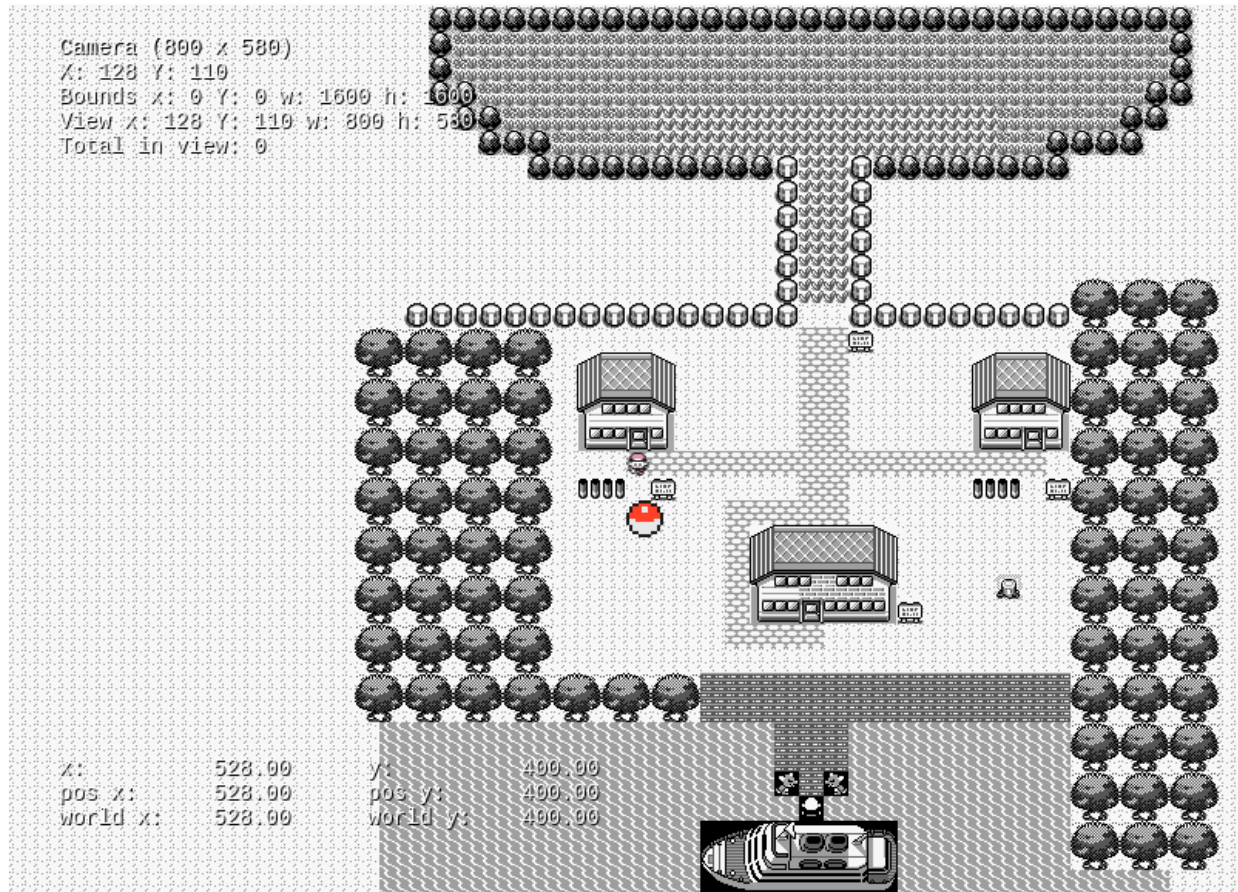


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# REPORT, 13/11/2017

## Pokemon Game

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## Layout

The idea was to create a classic Desktop version of the Pokemon game with improved and additional features, which led me to creating a similar layout of the game. Game

Development in JavaScript has various libraries/framework and tools for development, and I chose Phaser, a JavaScript Framework for the same. I have attached screenshots for better understanding of the current progress of the project. All work is done using Sublime Text 3.

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## Modules

Initializing variables, loading external files and creating necessary layers:

```
1  var player,
2  platform,
3  blocks,
4  map,
5  sprite,
6  layer,
7  collisionMap,
8  movement,
9  musicTown,
10 musicBattle,
11 townEnabled,
12 itemArray = [],
13 it,
14 allItem,
15 ball;
16
17
18 var preload = function () {
19   game.load.tilemap('map', 'assets/map.json', null, Phaser.Tilemap.TILED_JSON);
20   game.load.image('Retro_Tileset_RGB', 'assets/Retro_Tileset_RGB.png', 16, 16);
21   game.load.spritesheet('red', 'assets/red.png', 32, 32);
22   game.load.audio('town', 'assets/town.mp3');
23   game.load.audio('battle', 'assets/battle.mp3');
24   game.load.spritesheet('item', 'assets/ball.png');
25 };
26
27
28 var create = function () {
29   musicTown = game.add.audio('town');
30   musicTown.loop = true;
31   musicTown.play();
32   townEnabled = true;
33
34   musicBattle = game.add.audio('battle');
35   musicBattle.loop = true;
36
37   game.physics.startSystem(Phaser.Physics.ARCADE);
38
39   map = game.add.tilemap('map');
40   map.addTilesetImage('Retro_Tileset_RGB');
41   collide = map.createLayer('collision');
42   collide.resizeWorld();
43
44   layer = map.createLayer('calque');
45   layer.resizeWorld();
46
47   danger = map.createLayer('danger');
48   danger.resizeWorld();
```

Defining movement of character in different portions of the map:

```
83 var moving;
84
85 var moveSpriteBy = function(x, y) {
86   game.add.tween(sprite).to({x: sprite.x + x * 16, y: sprite.y + y * 16}, 100, Phaser.Easing.Linear.None, true).onComplete
87   function () {
88     window.moving = false;
89   }, this);
90   window.moving = true;
91 };
92
93 var update = function () {
94   game.physics.arcade.collide(ball, sprite, function (obj1, obj2) {
95     console.log('obj1: ', obj1);
96     console.log('obj2: ', obj2);
97   }, null, this);
98   //game.physics.arcade.collide(sprite, ball);
99
100   if(window.moving)
101   {
102     return;
103   }
104
105   if (map.getTileBelow(1, sprite.x/16, sprite.y/16).index == -1) {
106     if (!townEnabled) {
107       townEnabled = true;
108       musicTown.play();
109       musicBattle.stop();
110     }
111   } else {
112     if (townEnabled) {
113       musicTown.stop();
114       musicBattle.play();
115       townEnabled = false;
116     }
117   }
118
119   if (game.input.keyboard.isDown(Phaser.Keyboard.LEFT))
120   {
121     //console.log(window.moving)
122     //console.log(map.getTileLeft(2, sprite.x/16, sprite.y/16));
123     if(map.getTileLeft(2, sprite.x/16, sprite.y/16).index == -1)
124     {
125       moveSpriteBy(-1, 0);
126     }
127     else
128     {
129       // Do something, like play the "bump" sound
```

### Creation of map to different layers and areas of map:

[illegible]

Safe/Home Zone in the map:

