Stealth

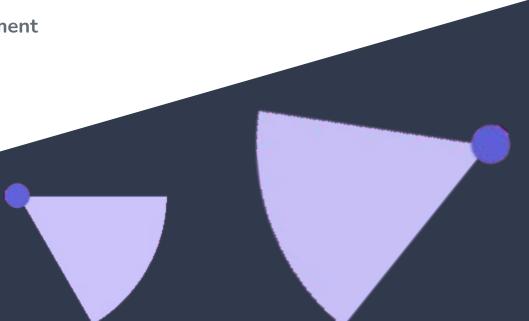




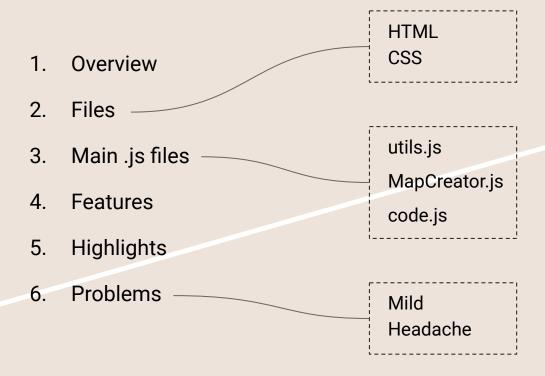
Canvas-based web game

Web games design and development

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Index



Overview: goals

- Level (2.5):
 - Box
 - Level loader
- Player (2.5):
 - Movement
 - Hide
 - Hack
 - Stealth bar

- Enemies (2.5):
 - Fixed
 - Rotating
 - Moving
- Extras:
 - Guided missiles
 - Mines
 - Key

Files

HTML

There is no structure. Calls function.

All elements are rendered in canvas created in runtime.

CSS

Defines background of web page.

The rest of elements' style defined in JavaScript files.

HTML

CSS

```
body{

margin: 0;

position: absolute;

background-color: □#0F0F0FF0;

}
```

Project files

```
∨ Canvas-game

 JS code.js
 JS MapCreator.js
 JS utils.js
.gitattributes
 index.html
README.md
 # style.css
```

.js Files

utils.js, MapCreator.js, code.js

Defines *level1* with the following elements:

- Grid
- Enemies
- Player
- Key
- Configuration Stealth bar
- Boxes Finish line
- Turrets End screens

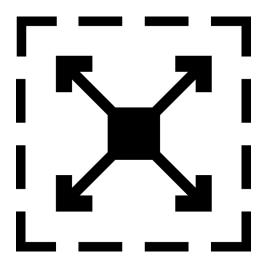
Config defines all common attributes for same class objects.

```
config : {
   boxes : {
       color: "#69056f",
       fill: true,
       size: 20
   balls : {
       radius: 10,
       color: "#6262d6"
    },
   arcs : {
       color: "#c1e1ffa0"
    },
   screens : {
       background: "#0F0F0FF0",
       color : "#FFFFFF",
```

- 1. Sets game size (width & height)
- 2. Creates canvas

```
const gameHeight = 710;
const gameWidth = 1510;
```

Based on my laptop's dimensions

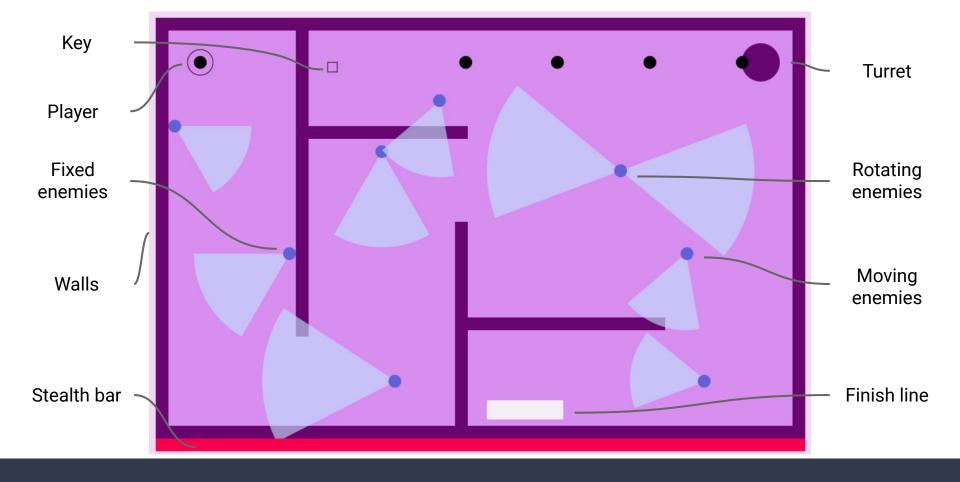


Let's see the structure on code



Features

Classes, achieved goals...



Rather see a demo of it



Note: I'm not good at playing videogames. Sorry for the inconvenience.

Highlights

End screens, canvas size

End screens

Screens for:

- Winning
- Loosing

Game over

Press space to play agai

Reload game when pressing space



Canvas size

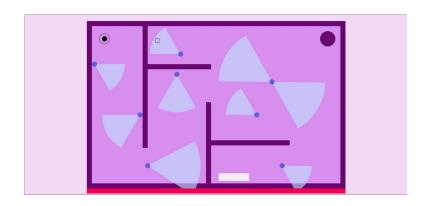
Fixed size:

- Width: 710px

- Height: 1510px

Position:

Centered in the middle



Problems

Mild and headache problems

Mild problems

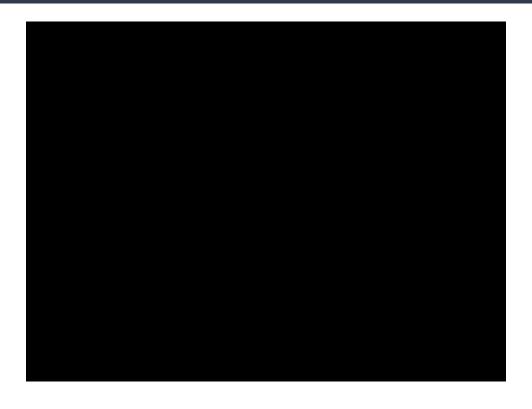
Typographical errors:

```
object.lenght != object.length
```

- Not calling functions and expect them to work.
- Define:

```
this.collision = { up: false, down: false, left: false, right: false };
and use: this.collision.top;
```

Headache problems



```
class Vec2 {
    constructor(x, y) {
        this x = x;
        this.y = y;
    substract(v) { …
    normalized() { ···
    add(other) { ···
```

The end

Thanks for your attention!