



## THEME

We used a retro/8-bit arcade theme, where we utilized code for a VHS filter effect: <a href="http://aleclownes.com/2017/02/01/crt-display.html">http://aleclownes.com/2017/02/01/crt-display.html</a>

Music was found on YouTube and combined in Audacity to make one long track: <a href="https://www.youtube.com/watch?v=dUpP80Y8YIQ">https://www.youtube.com/watch?v=dUpP80Y8YIQ</a>
<a href="https://www.youtube.com/watch?v=q4tU7pmpQUk">https://www.youtube.com/watch?v=q4tU7pmpQUk</a>

https://www.youtube.com/watch?v=q4tU/pmpQUk https://www.youtube.com/watch?v=mhluBUa4mH4&t=33ls

Images were found across Google, modified with GIMP:
 https://www.freepik.com/premium-vector/keyboard-button-arrow-wasd-set-icon
 -simple-minimal-flat-vector-app-web-design\_25481867.htm
 https://www.artstation.com/artwork/X1md4R

https://ar.pinterest.com/pin/593419688389266169/ http://www.rw-designer.com/cursor-set/retro-wave

https://www.stickpng.com/img/games/tetris/tetris-t-block

## **JAVASCRIPT FUNCTIONS**

```
Generates a random number which refers to a tetris piece case, created with another function for each piece.
```

[0, 2, 0, 0], [0, 2, 0, 0], [0, 2, 0, 0], [0, 2, 0, 0]

let createLong = function () {

];

```
const numPieces = 7;
var pieceNum = Math.floor((Math.random() * numPieces) + 1);
switch (pieceNum) {
        return createSquare();
        return createLong();
        return createZigR();
        return createZigL();
        return createTri();
    case 6:
        return createLL();
        return createLR();
```

ss PieceFactory
createPiece() {

## **JAVASCRIPT FUNCTIONS**

Creates the controls for each player and associates them to the piece from the piece maker script. Also sets the score and speed/level for each player based on score.

```
increaseScore(num) {
  let increase = 0;

  if(num == 0) {
    return;
  }

  if(num >= 4) {
  increaseSpeed() {
    if(this.score >= this.level * 100)
        this.dropInterval -= (this.dropInterval this.level++;
  }
}

moveRight
this.
if (this.level++;
}
```

```
Plaver
constructor(arena) {
    this.arena = arena;
    this.pieceFactory = new PieceFactory();
    this.dropCounter = 0;
    this.dropInterval = 1; //drop every second.
    this.position = { x: 0, y: 0 };
    this.matrix = [];
    this.score = 0:
    this.level = 1;
    this.reset(); // init position and matrix.
moveLeft() {
    this.position.x--;
    if (this.arena.collide(this)) {
        this.position.x++;
moveRight() {
    this.position.x++;
    if (this.arena.collide(this)) {
        this.position.x--;
```

