Lesson 3

arrays, for loops, and persistence

Quiz show

Arrays

```
HIGH\_SCORE = 123
```

```
HIGH\_SCORES = [50, 40, 30, 20, 10]
```

 $HIGH_SCORES = [30, 20, 10]$

```
HIGH_SCORES = [ 30, 25, 20 ]
HIGH_SCORES[0]
HIGH_SCORES[1]
HIGH_SCORES[2]
HIGH_SCORES.length = ?
```

context.fillText(HIGH_SCORES[0], x, y)

HIGH_SCORES = []

```
HIGH\ SCORES = [30, 20, 10]
       HIGH SCORES.push(25)
         [ 30, 20, 10, 25]
HIGH SCORES.sort(REVERSE NUMERICAL)
         [ 30, 25, 20, 10 ]
         HIGH SCORES.pop()
           [ 30, 25, 20 ]
```

```
if (SCORE > HIGH_SCORE) {
    ...
}
```

Loops

What if we want to do something for each element in an array?

```
context.fillText(HIGH_SCORES[0], x, y)
context.fillText(HIGH_SCORES[1], x, y)
context.fillText(HIGH_SCORES[2], x, y)
context.fillText(HIGH_SCORES[3], x, y)
context.fillText(HIGH_SCORES[4], x, y)
```

Loops

```
for (i=0; i<3; i++) {
}
set a variable what to do after each loop keep going if this is true
```

Loops

```
for (i=0; i<3; i++) {
   console.log(i)
}</pre>
```

How many times does the loop run?

What numbers does it print out?

loadScores()
saveScores()