

JavaScript Cheat Sheet

Variables – a “box” we can remember values in

```
var score = 0
var title = "The Best Game"
var highScores = [ 3, 2, 1 ]
var gameLost = false
```

Math

var addition	= 1 + 1	SCORE = SCORE + 1
var subtraction	= 2 - 1	SCORE += 1
var multiplication	= 5 * 2	SCORE++
var division	= 10 / 2	LIVES -= 1
		LIVES--

If statements – making decisions

if (youAreHappy) { clapHands() }	if (SCORE == 10) { LIVES = LIVES + 1 }
----------------------------------------	----------------------------------------------

Comparisons

if (2 < 1) { alert("Math is broken") }	a == b // they are the same
if (myScore == yourScore) { tieGame = true }	a < b // a is smaller
	a <= b // a is smaller or the same
	a > b // a is bigger
	a >= b // a is bigger or the same
	a != b // they are not the same

Arrays – keeping lists

theRainbow = ["Red", "Orange", "Yellow", "Green", "Blue", "Indigo", "Violet"]	highScores.push(5) highScores.sort(REVERSE_NUMERICAL) highScores.pop()
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While loops – keep going *while* something is true

```
while (stillAlive) {  
    doScience()  
}
```

```
var myNumber = 3  
var myGuess = 0  
while (myGuess != myNumber) {  
    myGuess = newGuess()  
}
```

For loops – looping with numbers

```
// count from 0 to 9  
for (i=0; i<10; i++) {  
    console.log(i)  
}
```

```
// great for arrays!  
for (i=0; i<theRainbow.length; i++) {  
    ctx.fillStyle = theRainbow[i]  
    ctx.fillText("RAINBOW", 10, 20*i)  
}
```

Functions – remembering how to do a task

```
function jump() {  
    if (PLAYER.y == 0) {  
        PLAYER.ySpeed = 300  
    }  
}
```

```
function getAdvice() {  
    return "Make a house before dark"  
}  
var advice = getAdvice()  
console.log(advice)
```