

Javascript Syntax Cheat Sheet

Defining Variables:

var hello = "Hello World"

let hello = "Hello World"

const hello = "Hello World"

Functions:

Definition:

```
function Hello () {  
    //execute code here  
    //use arguments  
}
```

'return' Keyword:

- Stops execution of code
- Used in Functions to return values

Printing to the console.

console.log(someArgument)

- Displays Values
- Doesn't Return values

Invoking / Calling / Applying

- Use Parenthesis
- Runs the code of the Function

demo(arguments)

Arguments and Parameters

- Parameter: Placeholder for future value

```
function example(value1,value2){  
    console.log(value1)  
    console.log(value2)  
}
```

- Arguments: The values passed to the function

example("stringValue", 22);

if / else statements:

```
if(expression returns true) {  
    //run this code  
} else {  
    //run this code  
}
```

if / else if / else statements:

```
if(expression returns true) {  
    //run this code  
} else if(expression returns true) {  
    //run this code  
} else {  
    //run this code  
}
```

Conditional Operators

- > "Greater Than"
- < "Less Than"
- >= "Greater Than or Equal To"
- <= "Less Than or Equal To"
- === "Identity Operator (is equal to?)"
- !== "Not Equal To"

Logical Operators

- && - AND true value && true value
- || - OR true value || false value
- ! - NOT toggles true and false

Strings

- A series of characters enclosed by a "" or ''
var str1 = "Hello"
- Zero based index
- Bracket Notation

```
var hello = "hello world"
```

```
hello[0]; //returns 'h'
```

Looping through Strings

```
for(declare variables, set condition, count) {  
  //run code  
}
```

example

```
for(var i = 0; i < hello.length; i++) {  
  console.log(hello[i])  
}
```

Arrays

- Are values that store multiple values
- You can loop through arrays like strings with a for loop

```
Empty Array  
var myArray = []
```

```
Values in Array  
var myArray = [1,2,3,4,5]
```

Objects

- Store data by key value pairs
- Values are accessed by dot or bracket notation

```
Empty Object  
var myObj = {}
```

```
Values in a Object  
var myObj = {  
  key1: "hello"  
  key2: "world"  
}
```

```
myObj.key1 //returns "hello"  
myObj["key2"] //returns "world"
```