

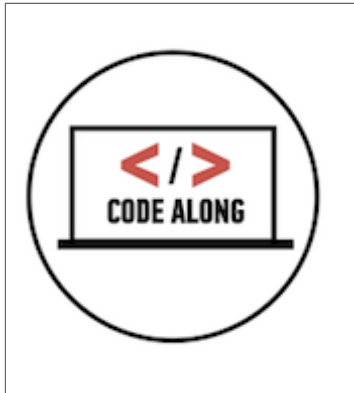


FEWD - VARIABLES CONDITIONALS

AGENDA

- Reivew
- Data types
 - Strings
 - Numbers
- Variables
- Conditionals
- Lab Time

REVIEW



JQUERY EXERCISES

VARIABLES

What are variables?

VARIABLES

- We can tell our program to remember values for us to use later on.
- The action of saving a value is called assignment
- The entity we use to store the value is called a variable

VARIABLES

- The action of getting the value from a variable is called accessing the variable
- We will use all the above techniques to store values into variables, and generate new values using existing variables

VARIABLES

```
var age = 21;
```

Declaration:

```
var age;
```

Assignment:

```
age = 21;
```

VARIABLE RE-ASSIGNMENT

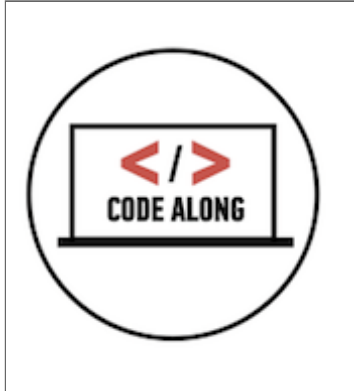
```
var name = "Jo";
```

```
name = Amir;
```


VARIABLE CONVENTIONS

- Variables start with a lower case letter
- If they contain multiple words, subsequent words start with an upper case letter.

```
var numberOfStudents = 10;
```



SCORE KEEPER

VARIABLES & DATA TYPES

What can you store in a variables?

DATA TYPES

The types of different values we support include:

- **String** text
- **int, float** numbers
- **Boolean** true or false

STRINGS

- Stores textual information
- String literal is surrounded by quotes

"How is the weather today?"

'Warm'

STRINGS

Double vs single quoted strings:

"They "purchased" it"

"It's a beautiful day"

NUMBERS

Represent numerical data

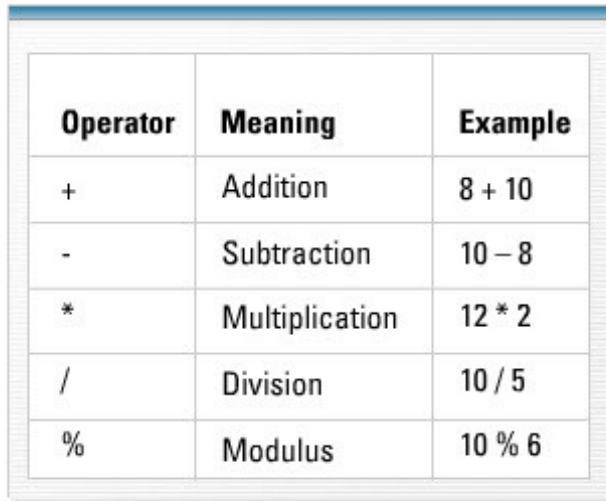
int:

42

float:

3.14159265

ARITHMETIC IN JAVASCRIPT



Operator	Meaning	Example
+	Addition	8 + 10
-	Subtraction	10 - 8
*	Multiplication	12 * 2
/	Division	10 / 5
%	Modulus	10 % 6

BOOLEANS

true

false

CONDITIONALS

MAKING DECISIONS

All conditions are either TRUE or FALSE

```
if (age > 18){  
    console.log("You are an adult");  
}
```

LOGICAL OPERATORS

x = 3

Logical Operators			
Operator	Description	Comparing	Returns
==	equal to	x == 8	FALSE
===	exactly equal to(value and type)	x === "3"	FALSE
		x === 3	TRUE
!=	is not equal	x != 8	TRUE
!==	is not equal(neither value nor type)	x !== "3"	TRUE
		x !== 3	FALSE
>	greater than	x > 8	FALSE
<	less than	x < 8	TRUE
>=	greater than or equal to	x >= 8	FALSE
<=	less than or equal to	x <= 8	TRUE

COMPARISONS - EQUALITY

Are two things equal?

```
10 === 10 //true  
10 === 5 //false  
"hi" === "hi" //true
```

COMPARISONS == VS ===

```
10 == 10 //true  
10 == '10' //true  
10 === 10 //true  
10 === '10' //false
```


CONDITIONAL SYNTAX

```
if (condition is true) {  
    //Do cool stuff  
}
```

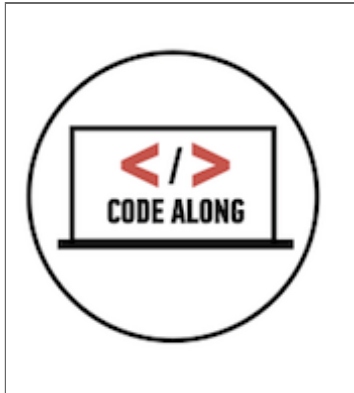
CONDITIONAL SYNTAX

```
if (condition is true) {  
    //Do cool stuff  
}  
else {  
    //Do other cool stuff  
}
```

CONDITIONAL SYNTAX

```
var topic = "JS";

if (topic === "JS") {
  console.log("You're learning JavaScript");
}
else if (topic === "JavaScript") {
  console.log("You're still learning JavaScript");
}
else {
  console.log("You're learning something else");
}
```



COMPARE THAT

MULTIPLE CONDITIONS

& &

||

MULTIPLE CONDITIONS - &&

```
if (name === "GA" && password === "YellowPencil"){  
    //Allow access to internet  
}
```

THE TRUTH TABLE

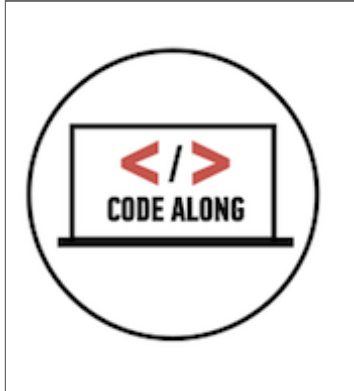
AND - &&	TRUE	FALSE
TRUE	true	false
FALSE	false	false

MULTIPLE CONDITIONS - ||

```
if (day === "Monday" || day === "Wednesday") {  
    //We have class today  
}
```


THE TRUTH TABLE

OR - 	TRUE	FALSE
TRUE	true	true
FALSE	true	false



BLACKOUT



TEMP CONVERTER

