



FEWD - JS BASICS

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AGENDA

- JS Basics Review (Syntax)
- Variables
- Arithmetic
- Conditionals

JAVASCRIPT HISTORY

- created by Brendan Eich in 10 days in 1995
- Netscape's lightweight interpreted language
- language of the web

JS BASICS SYNTAX

Syntax: Spelling and grammar rules of a programming language.

JS SYNTAX

- Semicolon
- Brackets
- Parentheses
- Quotation Marks

VARIABLES

What are variables?

VARIABLE RE-ASSIGNMENT

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

VARIABLES & DATA TYPES

What can you store in a variables?

- Strings: "text"
- Boolean: true or false
- Numbers: int and float

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"

STRINGS

Escaping "They \"purchased\" it"

'It\'s a beautiful day'

CONVERSION: STRING TO NUMBER

```
var intString = "4";  
var intNumber = parseInt(intString, 10);  
var floatString = "3.14159";  
var floatNumber = parseFloat(floatString);
```

CONVERSION: NUMBER TO STRING

```
var number = 4;  
number.toString(); => "4"
```

OR

```
number + "" => "4"
```

NUMBERS

Represent numerical data

int: 42

float: 3.14159265

NUMBERS

Signed

int: +6

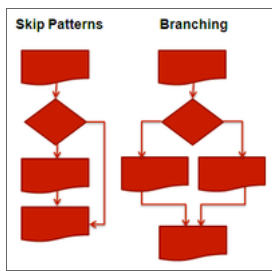
float: -8.2

Can perform arithmetic on number data types

ARITHMETIC IN JAVASCRIPT

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

CONDITIONALS



MAKING DECISIONS

It's either TRUE or FALSE (like booleans)

If you are greater than 18 you are an adult

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

COMPARISONS - EQUALITY

Are two things equal?

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

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

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");
}
```

MULTIPLE CONDITIONS

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


THE TRUTH TABLE

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

THE TRUTH TABLE

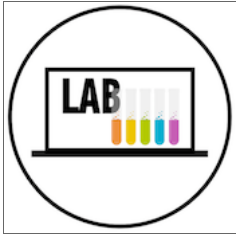
AND - &&	TRUE	FALSE
TRUE	true	false
FALSE	false	false

THE TRUTH TABLE

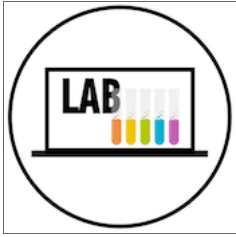
```
if (day == "Tuesday" || day == "Thursday"){  
    //We have class today  
}
```

THE TRUTH TABLE

OR - 	TRUE	FALSE
TRUE	true	true
FALSE	true	false



TEMP CONVERTER



CASH REGISTER