

#### Javascript - The Basics

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# Agenda

- Questions?
- Let's Talk Baby Learns To Walk?
- Learn What is programming?
- Build Youtube Background Picker
- Learn JS Variables && Types
- Build Not so great calculator
- Learn JS Arithmetic && Conditionals
- Build Angry Parent Simulator
- Build Temperature Converter
- Homework Repetition

# Questions About last class or life



#### **Baby Learns To Walk?**



Half Hard Work and Half Believing You Can Do It

# The Golden Rule SEPERATION OF CONCERNS

- HTML = Content / Structure
- CSS = Style
- JS = Behavior / Interaction

#### IDs & Classes



#### **IDs**

IDs are used for selecting distinct elements

Only one id with the same value per document

#idName

```
<section>
  Hello, Twitch!
  Hello, Youtube!
</section>
```

```
#zebra {
   color: red;
}
```

#### Classes

Classes are for selecting multiple elements

Multiple with same value allowed per document

.className

```
<section>
  Hello, Twitch!
  Hello, Youtube!
  Goodbye, Mixer!
</section>
```

```
.bob {
  color: red;
}
```

# Programming



# A computer will do what you tell it to do.

# What is a program?

A program is a set of instructions that you write to tell a computer what to do

# What is a programming?

Programming is the task of writing those instructions in a language that the computer can understand.

## Simple Circut



## True Story



## **JAVASCRIPT**



#### Has a specific 'Syntax'

**Syntax:** "Spelling and grammar" rules of a programming language.

#### JS Syntax

- Semicolon
- Brackets
- Parentheses
- Quotation Marks
- Other Unique characters?

#### Let's Code



A Youtube Background Picker

## Variables

What are variables?

### Variables

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

#### Variables

Declaration: let age

Assignment: age = 25

Both at the same time: let age = 25

#### Variable Conventions

camelCase:

let numberOfApples = 9

# Variables & Data Types

What can you store in variables?

# Strings

- Stores text
- String 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

**New Line + Tabs:** 

"1. Preheat over to 350\n2. Grease the pan"

'\tBeginning of paragraph'



# Numbers Represent Numerical Data int: 29

float: 5.14876

# Numbers Signed

int: +4

float: -10.375

## Arithmetic In Javascript

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

### Let's Code



A not so great calculator

# Making Decisions

It's either TRUE or FALSE

If you are greater than 18 you are an adult

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

# Comparisons: Equality

Are two things equal?

```
9 === 9 //true
7 === 3 //false
"Hello" === "Hello" //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	<b>FALSE</b>	
>	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 this cool stuff
}else if(condition is true) {
   //Do this other cool stuff
}else {
   //Default cool stuff
}
```

# Conditional Syntax

```
const pizza = "Dominos"

if (pizza === "Papa Johns") {
   console.log("Scram!")
} else if(pizza === "Dominos") {
   console.log("All aboard the train to flavor town")
} else {
   console.log("What are you even doing with your life?")
}
```



# Multiple Conditions

```
if (name === "Bruce" && parents === "Dead"){
  //Turn off the bat signal
}
```

# Multiple Conditions

```
if (day === "Saturday" || day === "Sunday"){
   //It is the weekend
}
```

#### Let's Code



Career Skills, Class, or Weekend?

#### Let's Code



Angry Parent Simulator

## Pseudo Code

#### Let's Code



A Temperature Converter

## Homework



Do: Plan out your networking!

Read: https://javascript.info/variables + Tasks

Read: https://javascript.info/function-basics + Tasks

Do: Delete the JS and do it again for all assignments