



FEWD - Intro To Programming

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Agenda

- Introduction To Programming
- What JS Can Do
- Reading JS
- Lab

Introduction To Programming

The 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 Programming

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

Becoming A Programmer

- It isn't about the programming language. It is about changing how you think.
- We have to know how the computer thinks to change how we think.

How Computers 'Think'

- The short answer is that they don't think.
- The slightly longer answer is that while computers don't think, they act as if they do, by sequentially executing simple instructions.
- The only things a computer knows are the things we tell it.

Solving problems

- Computers don't do anything on their own.
- They can solve problems, but only if they've been told to.
- There are a million different ways to solve any one problem.
- It is up to the programmer to define what the solution is and the steps required for the machine to perform to achieve it.
- However before we start coding, it's a good idea to plan the solution first.

Pseudo Code

- Pseudocode is the process of writing a program without using the syntax of a programming language.
- Focus on producing the correct solution and sequence of steps, or Algorithm.

Pseudocode is a mixture of natural language and high-level programming constructs. For example, If the door is closed and I want to exit the room, then open the door



Thermostat



Rock Paper Scissors

JavaScript

What Is JavaScript?

- General Programming language developed by Brenden Eich at Netscape in 10 days in 1995
- Standardised under the name ECMAScript (Latest is ES6)
- Used to control behaviour and interact with the user on the web

```
function hello(name) {  
  return "Hello " + name;  
};  
  
var hello_world = hello("world");  
  
console.log(hello_world);
```

What can JavaScript do?

- <https://tympanus.net/Tutorials/TheAviator/>
- <http://www.asos.com/men/bags/cat/?cid=9265>
- <https://devart.withgoogle.com>
- Weird Job Automation Stuff



Color Switcher



Traffic Light

Reading

-

jsforcats.com

-

Awwwards

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MDN JavaScript Basics

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<http://www.w3schools.com/js/>