FEWD - INTRO PROGRAMMING

AGENDA

- HW Review and Present
- Introduction To Programming
- What JS Can Do
- Reading JS
- Lab - Practice JS

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.

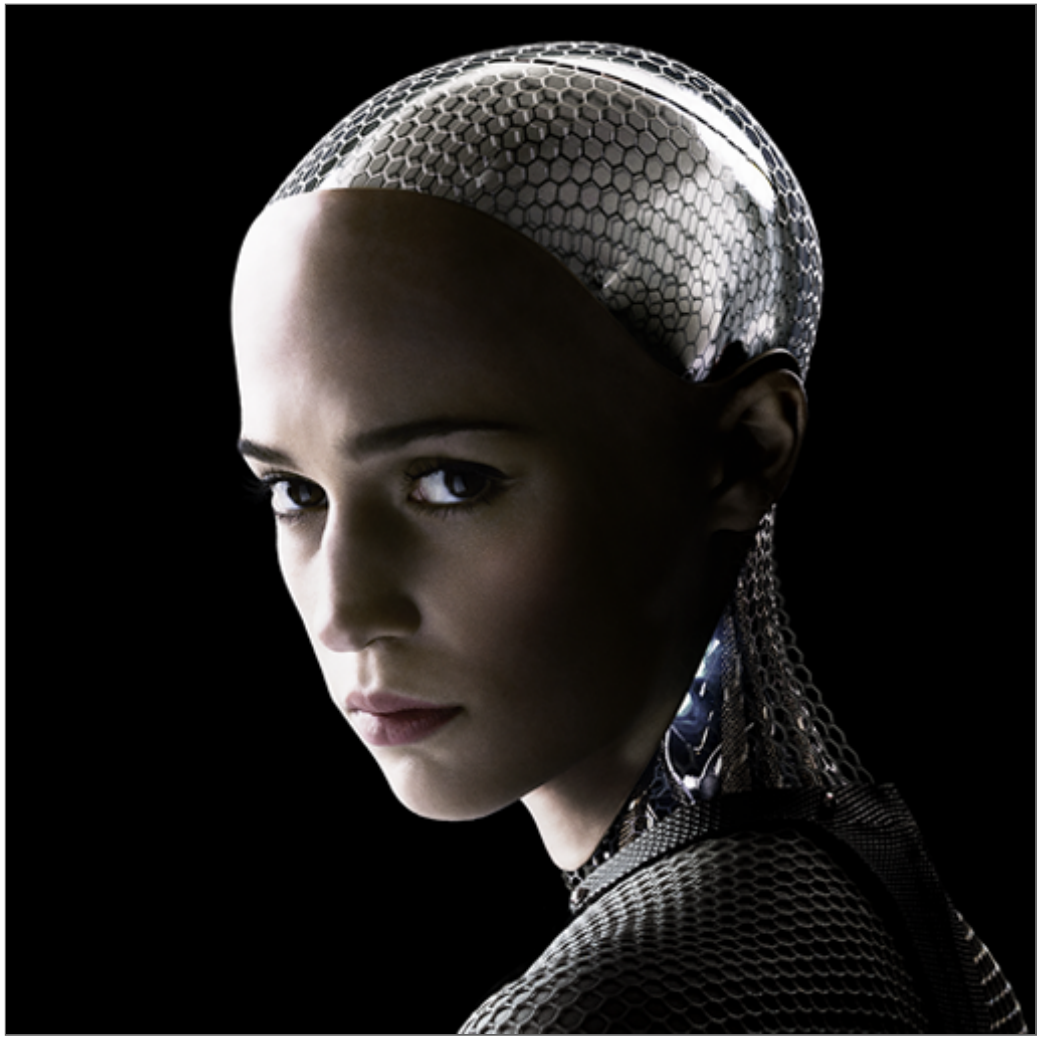
```
function validate(person) {
    if (person.legs < toilet.front) {
        console.error('Invalid!');
        return false;
    }
}
```

BECOMING A PROGRAMMER

You may think that becoming a programmer is all about learning a new language. However, it's more about changing the way you think.

We have to know how the computer thinks to change how we think.

HOW COMPUTERS THINK



Computers don't think, thank god.

HOW COMPUTERS THINK CONT.

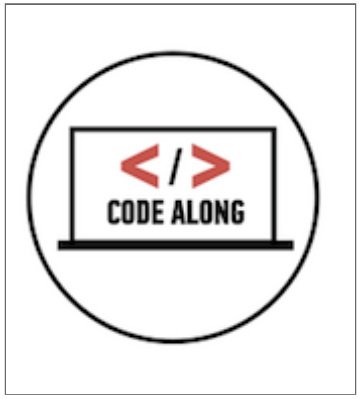
The slightly longer answer is that while computers don't think, they act as if they do, by sequentially executing simple instructions.

The only things a computer knows are the things we tell it.

PSEUDO CODE

Pseudocode is the process of writing a program without using the syntax of a programming language.

Not only is this a good tool to learn about programming, but it's a good way to start a new project, at any level.



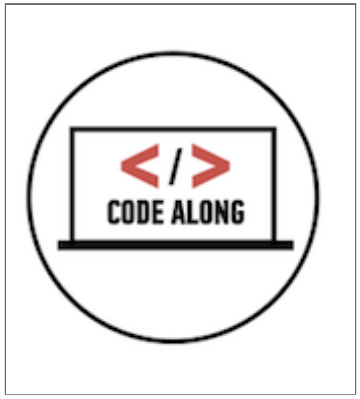
THERMOSTAT

ROCK PAPER SCISSORS

WHAT IS JAVASCRIPT AND WHAT CAN IT DO?

HIGH LEVEL JAVASCRIPT

- It's JavaScript, not Java!
- Created in 10 days by Brendan Eich in 1995 while working at Netscape
- Used to create interaction between websites and users
- Used to create *dynamic* web pages and web apps



COLOR SWITCHER

TRAFFIC LIGHT