

JavaScript Lab

Lesson 10



Agenda

- Review Variables & Conditionals
- Introduce .attr jQuery method
- Lab Time
 - Discuss final project proposals

Variables & Conditionals Review

Variables

Variables are essentially containers for storing data values in JS.

```
// Declare a variable  
var myAge;
```

```
// Assign value to variable  
myAge = 30;
```

```
// Declare + Assign to variable  
var myNewAge = 31;
```

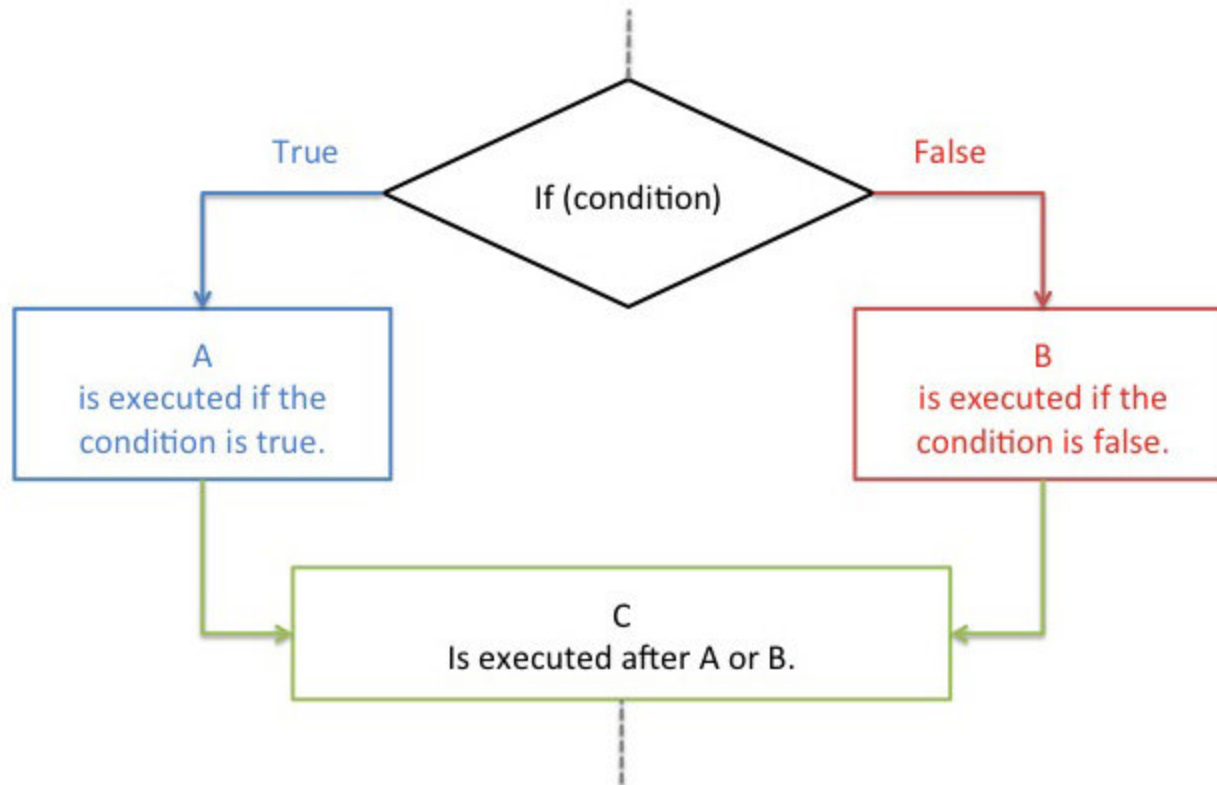
```
// Access variables  
myAge;  
myNewAge;
```

Data Types

Variables can contain different data types. Below are the 3 most common:

- **String** - any textual data
- **Number** - any numerical data
- **Boolean** - true or false

Control Flow



"If/Else If" Statement Example

You can even chain multiple if/else statements for more conditions...

```
if (age > 17){  
    console.log("You are an adult.");  
}else if(age > 12){  
    console.log("You are a teenager.");  
}else{  
    console.log("You are a child.");  
}  
  
// Continue running script...
```

Comparison Operators

To check if something is true or not, we need **comparison operators** to compare the criteria.

Operator	Description	Example	Result
<code>==</code>	Equal to	<code>1 == 1</code>	<code>true</code>
<code>===</code>	Equal in value and type	<code>1 === '1'</code>	<code>false</code>
<code>!=</code>	Not equal to	<code>1 != 2</code>	<code>true</code>
<code>!==</code>	Not equal in value and type	<code>1 !== '1'</code>	<code>true</code>
<code>></code>	Greater than	<code>1 > 2</code>	<code>false</code>
<code><</code>	Less than	<code>1 < 2</code>	<code>true</code>
<code>>=</code>	Greater than or equal to	<code>1 >= 1</code>	<code>true</code>
<code><=</code>	Less than or equal to	<code>2 <= 1</code>	<code>false</code>

Logical Operators

To check if **multiple things** are true or not, we can use **logical operators** in our "if" statements.

Operator	Description	Example
&&	and	(x < 10 && y > 1) is true
	or	(x == 5 y == 5) is false
!	not	!(x == y) is true

x = 6 and y = 3



Code Along

Open: [Where Am I Codepen](#)

Directions:

1. Open the [Where Am I Codepen](#) review
2. Together, add the appropriate JS/jQuery to the Codepen to get it to display the proper continent based on your input

Timing:

- **10 minutes** - As a class, let's write a basic jQuery application to review

Tips:

- The pseudocode has been written for you...
- Pay attention to the **order of events** in your application -- ask yourself: "what triggers what, and when?"

.attr jQuery Method Practice



Code Along

Open: [.attr jQuery Practice](#)



Lab Time

Open:

`lesson_10/starter_code/temp_converter`

Directions:

1. Open the **lesson_10/starter_code/temp_converter** folder
2. Build out an interactive website that converts the temperature from F to C, and changes the background color accordingly

Timing:

- **130 minutes** - build out an interactive website using JS and jQuery
- **10 minutes** - Review instructor solution file together

Tips:

- Take it one step at a time!
- Use the pseudocode from next slide as your general guidelines when developing.

- On submit, get temperature in Celsius
- Convert temperature to Fahrenheit
- Check F temperature to determine what color to change the background:
 - if F temperature is less than/equal to 32
 - set background to Blue
 - if F temperature is greater than 32, but less than 65
 - set background to Yellow
 - if F temperature is greater than/equal 65, but less than 100
 - set background to Orange
 - if F temperature is greater than/equal to 100
 - set background to Red

Exit Tickets

Take 5-10 minutes to give us some
(Link is in Slack Room)

Week 5 Homework

- Assignment: **CitiPix (version 1)**
- Due: **Wednesday, May 29th at 11:59pm ET**
- Remember to commit/push your changes to your fork when you are done.
- Grading rubric can be found in the **Assignment** folder
- **FOLLOW THE RUBRIC!**

Next Class...

Wednesday: Advanced CSS (Instructor/Student Choice)