#### Document Object Model

#### **Preliminary**

```
window.onload = function () {
  (your code here)
};
```

#### Objects and functions

- **document** the main object that connects JavaScript to the web page
- document.createElement function that takes a tag name and returns an object
- $\begin{tabular}{ll} \textbf{document.findElementById} & function & that & retrieves an element by ID \\ \end{tabular}$
- document.createTextNode function that creates
   text from strings
- **e.appendChild** function that attaches one element to another
- e.style object that contains CSS style properties
- **e.addClass** function that adds a CSS class to an element

# Handout for Code Your Own Site

#### Getting Started

Welcome to the class!

The first step is to download the slides so you can follow along with the lectures: https://github.com/clarissalittler/multcolib-lectures/blob/master/CodeYourOwn.pdf

From here you can click "Download" and read the slides any time.

#### Links to resources

- General JavaScript notes: http://bit.ly/ 2ahKOZc
- Tutorial on HTML and CSS: http://bit.ly/ 2af3ifd
- Tutorial on JavaScript and the Document Object Model: http://bit.ly/2abXKFa
- Neocities: https://neocities.org/

#### Glossary of Terms

**HTML** HyperText Markup Language, the content of a web page

CSS Cascading Style Sheets, how pages look

**JavaScript** A programming language that runs in the browser and provides interaction

**DOM** Document Object Model, which connects the JavaScript code to the page

# Basic JavaScript Syntax

# Creating Variables var variableName; variableName;

variableName = 30;

#### Arithmetic

```
30 \ 10:
30 - 2:
30 - 2:
```

#### Strings

```
"this is a string";
'as is this';
"as is 'this'";
'as is 'this';
```

You can mix quotation types for typesetting purposes, but otherwise they're the same.

#### Functions

#### Creating functions

```
function functionName (x) {
    console.log(x);
    return x + 10;

Using functions

Console.log("thing");

var myObjects

Objects

Waluel,

property1 : valuel,

property2 : valuel,

property2 : valuel,

property2 : valuel,

property3 : valuel,

property2 : valuel,

property3 : valuel,

property2 : valuel,

property2 : valuel,

property3 : valuel,

property3 : valuel,

property3 : valuel);

property3 : valuel);
```

#### HLML Example

### Basic Selectors

```
.name selection by class
#name selection by ID
name selection by tag name
```

# Common CSS Properties

```
width the width of the element
color the color of the text
background-color the color of the background of the
element
display how the element is displayed: block and none
```

# are two possible values

# C2S Example

# SgaT nommoO

ht heading tag, for headlines, section headings, chapter titles

p paragraph tag, holds basic text

ol ordered list tag, for numbered or enumerated lists
ul unordered list tag, for bulleted—unnumbered—

lists

li list items, go inside ol or li tags

style CSS code goes between the style tags script JavaScript code goes between the script tags

a anchor tag is used to make links

# HTML Template

```
</doctype html>
<head>
<head>
<hood>
<h
```