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
- $\mathbf{e.addClass}\,$ 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: http://bit.ly/2amZB8z

Then, navigate to https://github.com/clarissalittler/websites-for-beginners and click on the "download" button and then the "download zip" option. Alternately, just use following link to download the zip directly https://github.com/clarissalittler/websites-for-beginners/archive/master.zip (or http://bit.ly/2anatmW)

By default, the zip file will be downloaded into your Downloads directory. Navigate to your downloads directory then /right/ click on the file websites-for-beginners-master.zip and select the option "extract here". Then navigate into the directory and you will find yourself in the right directory for this course.

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/

Basic JavaScript Syntax

Oreating Variables

```
var variableName = 20;
variableName;
variableName = 30;
```

Arithmetic

```
30 / 10:
30 * 3:
50 - 2:
```

Strings

```
"this is a string";

'as is this';

"as is 'this'";

'and 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;
    functionName(10);
    console.log("thing");
    var myObjects

Objects

Watholject.property1: value1,
    property2: value1,
    property2: value1,
    property3:
    property3:
    property3:
    property4:
    property3:
    property4:
    property4:
    property4:
    property5:
    property4:
    property5:
    property5:
    property5:
    property6:
    property6:
    property6:
    property7:
    property6:
    property7:
    pro
```

HTML Example

```
<pre
```

Basic Selectors

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

Common CSS Properties

```
width the width of the element
height the height 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

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

Common Tags

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—

stsil

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

```
</pr>

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