CSS Selectors

Week 3

Simple selectors

- The most basic selectors that exist are simply tags, like , <div>, <h1>, etc
 - A selector can include multiple tags, like p, div {properties}
- Selectors can also choose elements by attributes
 - Most common attributes are id and class
 - IDs are unique, no two elements can have the same class
 - Can be selected as: #exampleid {properties}
 - Multiple elements share a common class to have the same styling, even if they are different tags
 - Selected as: .exampleclass {properties}
 - See http://codepen.io/cgodfrey/pen/BQoBmq

Attribute selectors

- Similar to class and ID from the previous page
 - You can set a tag to have any attribute/value pair, like
 - There are three main ways to select elements this way
 - [attr] will select all elements that have the attr attribute, regardless of its value
 - [attr=value] will select all elements whose attribute matches that value EXACTLY
 - [attr~=value] will select all elements whose attribute's value contains the value
 - **Given** food="vegetable solid healthy">
 - [food~="vegetable"], [food~="solid"], and [food~="healthy"]
 would all select the paragraph above
 - See https://codepen.io/cgodfrey/pen/pNjzVz for a robust example

Attribute Selectors Continued

- CSS can also select elements in a very simplified version of RegEx, which finds things based on the properties of the text
- [attr|=val] matches elements whose attribute has the value val EXACTLY or starts with val-(WITH THE DASH)
- [attr^=val] matches elements whose attribute has a value starting with val (no dash)
- [attr\$=val] matches elements whose attribute's value end in val
- [attr*=val] matches elements whose attribute's value contains the string val exactly (including whitespace)
- Example: https://codepen.io/cgodfrey/pen/aBvoXW

Pseudo-classes and pseudo-elements

- Pseudo-classes are added on to the end of a selector with a colon to only select those elements when they are in a certain state
 - o p:hover selects paragraphs only when they are being hovered over
 - a:visited selects only links that have been clicked on
 - Full list and explanation here: https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-classes
 - Example here: https://codepen.io/cgodfrey/pen/WoQbMM
 - o Pseudo-elements are harder to explain, they function similarly but with two colons
 - o p::after would let you add something after every p element in the page
 - Example: https://codepen.io/cgodfrey/pen/VmvYXe

Element Relationships

- This information is necessary for the next set of CSS selectors
 - An element within another element is a <u>child</u> within a <u>parent</u>
 - Two elements within the same element are <u>siblings</u>
 - http://codepen.io/cgodfrey/pen/GNpgzE
- If A and B are selectors:
 - AB matches things that match A and match B
 - A B (with space) matches things B that are descendents (child or child of children) of A
 - A>B matches things B that are direction children of A (nothing in between)
 - A + B matches things B that are adjacent siblings of A (nothing in between)
 - A ~ B matches things B that are one of the siblings of A (can be things in between)
 - https://codepen.io/cgodfrey/pen/yVYyrG