Mastering CSS with Mark Lassoff

Section 3: Selectors

 $\label{prop:lem:after completing this section you will:} After completing this section you will:$

- Know How to Use Tag Selectors
- Use ID Selectors for Elements that Appear Once on a Page
- Use Classes for Elements That Appear More than Once on a Page
- Use Selectors that Access Multiple Elements
- Use Decendent Selectors
- Understand Attribute Based Selectors
- Apply a Pseudo-Selector

HTML Content

We'll be using the following HTML document in this section

Living in Southwestern Connecticut
Along the Connecticut Coast
Summary
Junioriy
Norwalk is a U.S. city located in southwestern Connecticut, in southern Fairfield County, on the northern shore of Long Island Sound. Norwalk is included
Norwalk was settled in 1649, and is now the sixth most populous city in Connecticut. According to the 2010 United States Census the city had a population
History
Norwalk was settled in 1649, incorporated September 1651, and named after the Algonquin word noyank, meaning "point of land", or more probably from the
The Battle of Norwalk took place during the Revolutionary War. This battle resulted in the burning of most of the town. In 1836, the borough of Norwalk
Demographics
As of the census of 2010, there were 85,603 people, 35,415 households, and 21,630 families residing in the city. The population density was 2,358.2 in
There were 35,415 households out of which 27.9% had children under the age of 18 living with them, 47.1% were married couples living together, 11.0% had children under the age of 18 living with them, 47.1% were married couples living together, 11.0% had children under the age of 18 living with them, 47.1% were married couples living together, 11.0% had children under the age of 18 living with them, 47.1% were married couples living together, 11.0% had children under the age of 18 living with them, 47.1% were married couples living together, 11.0% had children under the age of 18 living with them, 47.1% were married couples living together, 11.0% had children under the age of 18 living with them, 47.1% were married couples living together.
In the city, the population was spread out with 22% under the age of 18, 7.3% from 18 to 24, 31.7% from 25 to 44, 31.2% from 45 to 64, and 12.8% who we
The median income for a household in the city was \$76,161, and the median income for a family was \$103,032\. The per capita income for the city was \$45

In the head section of the document, let's add the opening an closing style tags that will enclose our stylesheet.

Tag Selectors

Tag selectors allow you to select element for styling by the tag name. For example, if we were to use h1 as a selector all of the <h1> elements in the HTML document would be selected for styling.

Consider the following code.

The result, of course, is that the single <h1> element is both blue and rendered in the Arial font while the multiple <h2> elements are rendered in the Arial font but remain the default black color.

ID Selectors

ID's are intended to be used once and only once on a page. Traditionally ID's have been used to provide unique identifiers for content blocks within a web page.

In our HTML example below the <header> element is a <div> tag modified by an id attribute with the value main. We user the value of the attribute to select the element in CSS. See the following example:

The font-size rule and the color CSS rule here will apply to the entire <div> . Note the use of the hash sign preceding the attribute value

Class Selectors

Classes are intended to be deployed multiple times on a page. Classes are a flexible way to select multiple content elements for formatting. Here you can see that there are multiple class attributes inserted into the content:

Along the Connecticut Coast

Summary

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 $Both\ class\ attributes\ contain\ the\ value\ \ fancy\ .\ We\ can\ use\ this\ value\ in\ our\ selector\ to\ format\ both\ elements.$

```
.fancy {
   text-decoration: underline;
}
```

Both of the elements with the class attribute with the value fancy would now be underlined.

Note the use of the period to indicate a class in the selector in the style sheet.

Generally underlines should be avoided as users confuse them with hyperlinks.

Multiple Selectors

There are times when it's strategic to select more than a single element at a single time. We can merely separate the individual selectors with a comma and all selectors listed will be styled.

```
h1, h2 {
    color: green;
}
```

In this code above, all of the <h1> elements and all of the <h2> elements in the document will be selected, and the text colored green.

Descendant Selectors

As you've likely realized, HTML5 provides a hierarchical document skeleton. Elements that are inside other elements are said to be descendants.

All HTML5 tags are decendants of the <html> tag. <head> and <body> elements are direct decendents because there are no tags between the parents <html> tag and children.

To demonstrate a descendent selector, let's examine part of the original HTML code.

In this code two <h2> tags are displayed. The first is a decedent of the <header> tag. The second is a direct descendant of the <div> tag.

Let's add some CSS:

```
Since we used a decedent selector, the only <h2> effected is the one inside the <header> element. Descendent selectors are one strategy for isolating a specific tag that
```

Since we used a decedent selector, the only <h2> effected is the one inside the <header> element. Descendent selectors are one strategy for isolating a specific tag that may be used elsewhere in the document.

Let's take a look at another variant of the descendant selector.

```
#main > h2
{
   color: brown;
}
```

In this case any <h2> who has the id #main for a parent. In our document structure, that's all the <h2> elements inside the logical division.

Attribute Selectors

Attribute selectors, as you might imagine, allow you to select an element based on the attribute that it contains. You'll notice that the <header> element has an align attribute with a value of center.

Typically we'd use CSS to align content. However, this makes a convenient example for us here.

Let's add some CSS that selects that align attribute.

```
[align]
{
   display: none;
}
```

Because this selector matches any element with an align attribute, the entire <header> element disappears from the display.

In addition to specifying a specific attribute, you can specify an attribute-value combination for selection. If we were to select element that had an align attribute and a center value the selectors would look like this:

```
[align=center]
{
    display: none;
}
```

Pseudo-Selectors

 $Pseudo-Selectors\ are\ designed\ to\ modify\ selectors.\ Many\ pseudo-selectors\ are\ used\ in\ CSS.\ Let's\ take\ a\ look\ at\ the\ first-line\ pseudo-selector.$

```
p::first-line {
  font-size: 1.25em;
}
```

In this case, the first-line pseudo-selector is selecting the first line of every p element and altering the font size. There's also a first letter pseudo-selector.

```
p::first-letter {
   font-size: 2em;
}
```

Note the use of the double colon between the selector and pseudo-selector.

Submit This: Departures Board

Westchester County Airport needs to make its departure board more attractive and readable. Using the image below, prepare HTML5 and CSS to display a beautiful, useful Departures Board.

Keep in mind this will be displayed full-screen on a large monitor and should be viewable from several feet away. Please use the following selectors in your document:

- A Tag Selector
- An ID Selector
- A Class Selector
- A Selector that Selects Multiple Elements
- A Descendant Selector

Use the data below to make your departure board which must list 12 flights.

AIRLINE	FLIGHT NO.	то	TIME	GATE	STATUS
Delta	4148	Detroit	5:45am		ON TIME
Delta	2669	Atlanta	6:00am	2	ON TIME
American	5678	Washington-DCA	6:08am		ON TIME
JetBlue	1895	Orlando	6:30am		ON TIME
American	3017	Chicago-O'Hare	7:00am		ON TIME
Delta	4930	Atlanta	7:00am		ON TIME
American	5254	Washington-DCA	3:00pm	Н	BOARDING
American	5019	Washington-DCA	4:29pm	Α	Now 4:50P
Delta	4135	Detroit	4:29pm	С	ON TIME
American	3019	Chicago-O'Hare	4:30pm	G	BOARDING
Delta	2270	Atlanta	5:29pm	2	ON TIME
American	5401	Washington-DCA	5:29pm		ON TIME
United	3836	Chicago-O`Hare	6:00pm		ON TIME
JetBlue	813	Ft.Lauderdale	6:46pm		ON TIME
American	5388	Charlotte, NC	6:59pm		ON TIME
Delta	3281	Atlanta	7:16pm		ON TIME
JetBlue	857	W. Palm Beach	7:47pm		ON TIME
American	5236	Washington-DCA	8:49pm		ON TIME
JetBlue	2167	W. Palm Beach	9:00pm		ON TIME

Remember, when submitting the work, please use the following naming convention for your file: MASTERINGCSS_LastName_SectionNumber.html. So if your last name is Smith and your submitting section 1, your file name should be MASTERINGCSS_Smith_3.html.

For this course go to https://www.dropbox.com/request/l5ZuBmkJjf0keEqRQHwK to submit your assignments.