



CS197WP

Intro to Web Programming

Nicolas Scarri - *February 13, 2017*

Additive Styles

```
<style>  
  li { color: red; }  
  .important { font-size: 2em; }  
</style>
```

```
<ol>  
  <li>First Item</li>  
  <li class="important">Second Item</li>  
  <li id="the-one">Third Item</li>  
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Conflicting Styles

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Specificity

#id-selectors , **.class-selectors** , **tag-selectors**

li		.important
0 , 0 , 1		0 , 1 , 0
001	<	010
	WINNER	
	.important	

Specificity

#id-selectors , **.class-selectors** , **tag-selectors**

ol li.important

ol #the-one

Specificity

#id-selectors , **.class-selectors** , **tag-selectors**

ol li.important

0 , **1** , **2**

ol #the-one

Specificity

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0 , **1** , **2**

ol #the-one

1 , **0** , **1**

Specificity

#id-selectors , **.class-selectors** , **tag-selectors**

ol li.important

0 , 1 , 2

001

ol #the-one

1 , 0 , 1

010

<

WINNER

ol #the-one

Typography

```
#example{ font-family: Garamond, Serif }
```

Sample Text

```
#example{ font-size: 50px; }
```

Sample Text

```
#example{ font-weight: bold; }
```

Sample Text

Typography

```
#example{ text-decoration: underline; }
```

Sample Text

```
#example{ line-height: 75px;}
```

Sample Text

```
#example{ text-align: center;}
```

Sample Text

Color

```
#example{ color: blue; }
```

Sample Text

```
#example{ background-color: blue;}
```

Sample Text

```
#example{ border-color: blue;}
```

Sample Text

pseudo-classes

- **:hover**
 - Applied when the mouse overs over an element
- **:first-child**
 - Applied only when the element is the first child of its parent
- **:visited**
 - Applied to links that have already been clicked on

pseudo-element

- **::before** { **content**: 'text'; }
- Injects the text before the selected element.
- **::after** { **content**: 'text'; }
- Injects the text after the selected element.
- **::first-letter**
- Selects the first letter of the selected element

Media queries

```
@media screen and (min-width:500px){  
  selector {  
    display: block;  
  }  
}
```

- Media type
- Connective
- Media feature

Media Types

- **All**
 - All devices are affected
- **Print**
 - Only applied when printed
- **Screen**
 - Applies to all devices with screens
- **Speech**
 - Applies to screen readers etc.

Media Features

- **min-width : #px**
 - Device must be at least #px in width
- **max-width : #px**
 - Device must be less than #px in width
- **orientation**
 - landscape
 - portrait

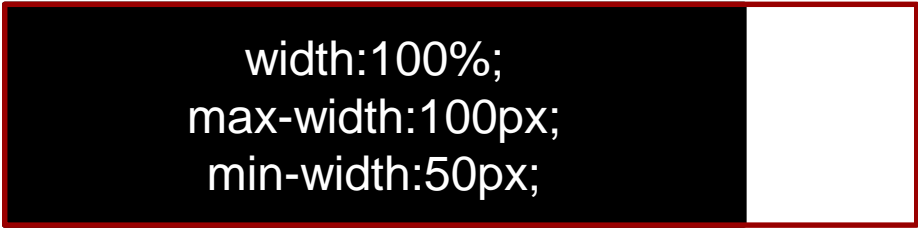
min/max-width

```
<style>
  div {
    width:100%;
    max-width:100px;
    min-width:50px;
  }
  #outer {
    border:2px solid red;
  }
</style>
```

```
width:100%;
max-width:100px;
min-width:50px;
```

min/max-width

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</style>
```

```
width:100%;
max-width:100px;
min-width:50px;
```

overflow:hidden

```
<style>
  div {
    width:100%;
    max-width:100px;
    min-width:50px;
  }
  #outer {
    border:2px solid red;
    overflow: hidden;
  }
</style>
```

```
width:100%;
max-width:100px;
min-width:50px;
```


Including JavaScript

```
<head>  
  <meta charset="UTF-8">  
  <title>Tab Text</title>  
  <link rel="stylesheet" type="text/css"  
        href="styles.css">  
  <script src="custom.js"></script>  
</head>
```

JavaScript Syntax

- `function func() { ... }`
 - a function named `func`
- `function () { ... }`
 - an anonymous function
- `var varName = 5;`
 - a variable named `varName`
- `'string' == "string"`
 - A string literal

Falsey values

- false == false
 - 0 == false
 - "" == false
 - null == false
 - undefined == false
 - NaN == false
-
- ===/!== require the same type
 - 0 !== false

Including jQuery

```
<head>  
  <meta charset="UTF-8">  
  <title>Tab Text</title>  
  <link rel="stylesheet" type="text/css"  
        href="styles.css">  
  <script src="https://ajax.google/.../jquery.min.js">  
  </script>  
</head>
```

jQuery Syntax

- `$` or `jQuery`
 - The jQuery function.
- `$(“selector”)`
 - Returns all elements matching the selector.
- `$(“selector”).func()`
 - Calls `func` on all matching elements
- `$(function(){...});`
 - Function called on page ready

Event model

- `$(‘selector’).click(function(){...});`
 - Calls the function when a matching element is clicked.
- `$(‘selector’).hover(function(){...},function(){...});`
 - Calls the first function when a matching element is moused over and calls the second when the mouse leaves the element.

Useful jQuery

- `$(‘selector’).toggleClass(‘className’);`
 - Adds or removes the classname as appropriate

- `$(‘selector’).slideToggle();`
 - Shows or hides the element as appropriate

A photograph of a UMass Amherst campus scene, featuring a large building in the background, trees, and a field of tulips in the foreground. The image is overlaid with a semi-transparent dark red filter. The tulips are in various shades of red and orange, and the building has a modern architectural style with horizontal bands.

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