CSS Box Model: Padding (inside the border)	span {  padding: 4px;  border: 12px solid green;  background: beige:  }		span { padding: 16px; border: 12px solid green; background: beige: }
Margin (outside the border)	span { margin-right: 4px; border: 16px solid green; background: beige: }		span { margin-right: 4px; border: 6px solid green; background: beige: }
CSS Colors	140 standard names – named colors  Developers shouldn't use named colors – they generally want to generate from code  • RGB (0-255 per color) & Alpha Transparency  • rgb(155, 138, 73)  • rgba(155, 138, 73, 0.6)  • Hex String (00-FF per color)  • #C55 or #FCA9  • 9B8A49 or #9B8A493F  • HSL  • Hsl(20, 85%, 30%) or hsla(20, 85%, 35%, 0.7)  • Hue angles: 0=red, 120=green, 240=blue, 360=red  • Saturation: 0%=gray, 100%=color is fully saturated  • Luminance 0%=black, 100%=white  • Benefit: easy to generate shades of a particular color (in code)		
HTML attributes referenced for styling	Attribute <xyz id="ticket">some content&lt;\xy&gt;  <xyz class="weekend">some content&lt;\xyz&gt;  <xyz anyatr="somevalue">some content&lt;\xyz&gt;</xyz></xyz></xyz>	#ticket {	ciated Style Block ing-left: 2em; er: 2px solid brown; ground-color: white weight: bold;
Font Size: 1em	<ul> <li>1em: the width of the uppercase M in the current font (traditional interpretation)</li> <li>1em: the width of the current font (modern typography interpretation)</li> </ul>		

	• 1 em: relative to the nearest parent's font		
	• 1 rem: relative to the root font		
	Use "em" for setting spacing around your text		
Being selective/(more) specific	<ul> <li>The company will hire</li> <li>A student</li> <li>A GVSU student</li> <li>A GVSU student graduated before 2016</li> <li>A GVSU student graduated before 2016 with GPA at least 3.2</li> <li>A GVSU marketing student graduated before 2016 with GPA at least 3.2</li> <li>Etc</li> </ul>		
CSS Selectors	<ul> <li>By tag name</li></ul>	<ul> <li>The 3-property rule applies to any paragraph</li> <li>The 1-property rule applies to any elements with class "active"</li> <li>The 1-property rule applies to any elements that include the attribute "width"</li> <li>The 2-property rule applies to only one element with id "sidebar"</li> </ul>	
CSS "selectors"/"filters"	<ul> <li>Various options to selection portions of the DOM tree Select by:         <ul> <li>ID, tag name, CSS class (or combination of them)</li> <li>Attribute (with or without its value)</li> <li>Parent/Child relationship in the DOM tree, such as</li> <li>All immediate children of _</li> <li>Any descendants of _</li> <li>The last grandchild of _</li> <li>And so on</li> <li>Sibling relationship in the DOM tree</li> <li>Permutations of all the above selectors</li> </ul> </li> </ul>		
Selector Permutations: tag & class	/* in CSS */ li.fruit{	Applies only to list items with class .fruit <li>Blueberry <span></span></li>	

<li>class="fruit"&gt;Strawberry&lt;\li&gt; <li>cli class="device"&gt;RaspBerry Pi&lt;\li&gt;</li></li>

# -> ID

. -> class name

[] -> attributes

Descendant/Younger Sibling Selectors

Descendant/ Founger Storing Selectors				
Types	Selector	Apply Rules to		
Immediate children	$div > p \{ \dots rules \dots \}$	paragraphs which are an immediate child		
		of div		
Any descendant	div p{rules}	paragraphs which are a descendant of a		
		div (immediate children included)		
Immediate (younger) sibling	$div + p\{rules\}$	one paragraph (immediate younger		
		sibling of a div)		
Any younger sibling	div ~ p{rules}	paragraphs which are younger siblings of		
		a div (immediate siblings included)		

Target Element in Complex Selectors

Selector	Target Element
div p	
h2 > p table	Rightmost
h2 ~ p table	

## Chain of descendant/siblings

• When the selector has multiple "groups" of patterns, the CSS rules apply to the rightmost group

Selector Modifiers: pseudo-classes

- Links (:link, :visited, :hover, :active)
- Input (:checked, :disabled, :enabled, :focus, :in-range, :out-of-range, :invalid, :valid, :optional, :required, :read-only, :read-write)
- Child order
- Of-type order

## :first-child vs. :first-of-type

- The first "daughter" in a family may be the third "child"
  - o div p:first-of-type
  - o div h1:first-child