



Coding Temple

GETTING TO KNOW CSS

What is CSS?

- ▶ CSS is a complex language that packs quite a bit of power
- ▶ Allows us to add layout and design to our pages, and it allows us to create rules that specify how the content of an element should appear
- ▶ For example, you can specify that the background of the page is cream, all paragraphs should appear in gray using the Arial typeface
- ▶ It's very crucial to understand exactly how styles are rendered
- ▶ The key to understanding how CSS works is to imagine that there is an invisible box around every html element

Another Sub-Heading

CSS Selectors

- ▶ Universal Selector
- ▶ Type Selector
- ▶ Class Selector
- ▶ ID Selector
- ▶ Child Selector
- ▶ Descendant Selector
- ▶ Adjacent Sibling Selector
- ▶ General Sibling Selector
- ▶ Attribute Selector

Universal & Type Selector

- ▶ Universal Selector

- ▶ Applies to all elements in the document (html page)

```
* {  
  color: red;  
}
```

- ▶ Type Selector

- ▶ Matches Element Names
 - ▶ Target all **<h1>**, **<h2>**, **<h3>** elements

```
h1, h2, h3 {  
  color: orangered;  
}
```

ID & Class Selector

▶ ID Selector

- ▶ Matches an element whose *id* attribute has a value that matches the one specified after the pound or hash symbol

▶ Class Selector

- ▶ Matches an element whose *class* attribute has a value that matches one specified after the period symbol

▶ Examples:

- ▶ Target any element with *class* attribute value of *note*
- ▶ Targets only **<p>** elements whose *class* attribute has a value of *note*

```
#introduction {  
    color: hotpink;  
}
```

```
.note {  
    font-size: 18pt;  
}
```

```
p.note {  
    font-size: 15pt;  
}
```


Child & Descendant Selector

▶ Child Selector

- ▶ Matches an element that is a direct child of another
- ▶ Targets any `<a>` element that are children of `` element, but not other `<a>` elements in the page

```
li > a {  
    color: ■ dodgerblue;  
}
```

▶ Descendant Selector

- ▶ Matches an element that is a descendant of another specified element (not just a direct child of that element)
- ▶ Targets any `<a>` elements that sits inside a `<p>` element, even if there are other elements nested between them

```
p a {  
    color: ■ magenta;  
}
```

Adjacent & General Sibling Selector

▶ Adjacent Sibling Selector

- ▶ Matches an element that is the next sibling of another
- ▶ Targets the first **<p>** element after any **<h1>** element (but not other **<p>** elements)

```
h1 + p {  
    color: red;  
}
```

▶ General Sibling Selector

- ▶ Matches an element that is a sibling of another, although it does not have to be the directly preceding element
- ▶ If you had two **<p>** elements that are siblings of an **<h1>** element, this rule would apply to both

```
h1 ~ p {  
    color: red;  
}
```

Attribute Selector

SELECTOR	MEANING	EXAMPLE
EXISTENCE	[Matches a specific attribute (whatever its value)	p[class] Targets any <p> element with an attribute called class
EQUALITY	[= Matches a specific attribute with a specific value	p[class="dog"] Targets any <p> element with an attribute called class whose value is dog
SPACE	[~= Matches a specific attribute whose value appears in a space- separated list of words	p[class~="dog"] Targets any <p> element with an attribute called class whose value is a list of space-separated words, one of which is dog
PREFIX	[^= Matches a specific attribute whose value begins with a specific string	p[attr^="d"] Targets any <p> element with an attribute whose value begins with the letter "d"
SUBSTRING	[*= Matches a specific attribute whose value contains a specific substring	p[attr*"do"] Targets any <p> element with an attribute whose value contains the letters "do"
SUFFIX	[\$= Matches a specific attribute whose value ends with a specific string	p[attr\$"g"] Targets any <p> element with an attribute whose value ends with the letter "g"

How CSS Rules Cascade

► Last Rule

- If the two selectors are identical, the latter of the two will take precedence.

```
i {  
  color: green;  
}  
  
i {  
  color: red;  
}
```

► Specificity

- If one selector is more specific than the others the more specific rule will take precedence over more general ones

► Examples:

- `h1` is more specific than `*`
- `p b` is more specific than `p`
- `p#intro` is more specific than `p`

```
p#intro {  
  font-size: 100%;  
}  
  
p {  
  font-size: 75%;  
}
```

```
* {  
  font-family: Arial, Verdana, sans-serif;  
}  
  
h1 {  
  font-family: 'Courier New', monospace;  
}
```

► Important

- You can add *!important* after any property value to indicate that it should be considered more important than other rules that apply to the same element

```
p b {  
  color: blue !important;  
}  
  
p b {  
  color: violet;  
}
```

Common Length Values

▶ Absolute Lengths

- ▶ Fixed physical measurements, such as inches, centimeters, or millimeters
- ▶ Pixels
 - ▶ Is equal to 1/96th of an inch, making it 96 pixels per inch or 96ppi
 - ▶ This may slightly be different depending on high or low density viewing devices

▶ Relative Lengths

- ▶ Non fixed units of measurement that rely on the length of another measurement (dynamic lengths)
- ▶ Percentages
 - ▶ Defined in relation to the length of another object
 - ▶ If parent object has a width of **100px** and the object has a width of **50%**, than the object will have a width of **50px**
- ▶ Em
 - ▶ Length is calculated based on the an element's font size
 - ▶ If the element has a **font-size** of **14px**, than 1 em will be equal to **14px**

What are pseudo elements?

- ▶ A **pseudo element** acts like an extra element in the code.
 - ▶ Example: If you only wanted to apply styling to the first letter of a paragraph, you can use **:first-letter** to select that element.
 - ▶ Example: To apply styling to the first line of a paragraph only, select it using **:first-line**.

```
p.intro:first-letter {  
  font-size: 200%;}  
p.intro:first-line {  
  font-weight: bold;}
```

Briards

by Ivy Duckett

The [briard](#), or **berger de brie**, is a large breed of dog traditionally used as a herder and guardian of sheep.

Breed History

The briard, which is believed to have originated in France, has been bred for centuries to herd and to protect sheep. The breed was used by the French Army as sentries, messengers and to search for wounded soldiers because of its fine sense of hearing. Briards were used in the First World War almost to the point of extinction. Currently the population of briards is slowly recovering. Charlemagne, Napoleon, Thomas Jefferson and Lafayette all owned briards.

RESULT

What are pseudo classes?

- ▶ A **pseudo class** acts like an extra value for a class attribute.
- ▶ Examples:
 - ▶ The **:visited** pseudo class allows you to select and style links that have been visited.
 - ▶ The **:hover** pseudo class allows you to style elements differently as a user hovers over them.
 - ▶ the **:link** pseudo class selects links that haven't been visited.

```
a:link {  
    color: deeppink;  
    text-decoration: none;}  
a:visited {  
    color: black;}  
a:hover {  
    color: deeppink;  
    text-decoration: underline;}  
a:active {  
    color: darkcyan;}
```

RESULT

Dog Breeds: **B**

- Basset Hound
- Beagle
- Bearded Collie
- Beauceron
- Bedlington Terrier
- Belgian Shepherd
- Bergamasco
- Bichon Frise
- Bloodhound
- Bolognese
- Border Collie
- Border Terrier
- Borzoi
- Bouvier des Flandres
- Briard
- Bull Terrier
- Bulldog

Understanding Colors

RGB VALUES

Values for red, green, and blue are expressed as numbers between 0 and 255.



`rgb(102,205,170)`

This color is made up of the following values:

102 red

205 green

170 blue

HEX CODES

Hex values represent values for red, green, and blue in hexadecimal code.



`#66cdaa`

The value of the red, 102, is expressed as 66 in hexadecimal code. The 205 of the green is expressed as cd and the 170 of the blue equates to aa.

COLOR NAMES

Colors are represented by predefined names. However, they are very limited in number.



`MediumAquaMarine`

There are 147 color names supported by browsers (this color is MediumAquaMarine). Most consider this to be a limited color palette, and it is hard to remember the name for each of the colors so (apart from white and black) they are not commonly used.