

6.148

HTML / CSS

Victor Hung

HTML

Hypertext Markup Language

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>Title!</title>
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```

The New York Times

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Boehner Fends Off Dissent as G.O.P. Takes the Reins

By JEREMY W. PETERS 9:04 PM ET

Two dozen Republicans voted against John A. Boehner, somewhat diminishing a big day for the party as it retook both houses of Congress.

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Former Governor of Virginia Sentenced



Muslims gathered for prayers Monday at a mosque in Dresden, Germany. Sean Gallup/Getty Images

Debate Over German Identity Reignites

By ALISON SMALE and MELISSA EDDY 9:11 PM ET

Anti-immigration and anti-Muslim sentiments have been simmering throughout Europe, and rallies in Dresden have raised anew a question long grappled with: Who is German?

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- **Friedman: Time for a Pause**

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Basic HTML Elements

<code><html></code>	Root of HTML Document
<code><body></code>	Document Body
<code><head></code>	Information about the doc
<code><h1>, <h2>, <h3> ...</code>	Header Tags
<code><p></code>	Paragraph Tags
<code></code>	Image
<code><a></code>	Hyperlink
<code><div></code>	Section in a Document
<code></code>	Section in a Document (text)

Basic HTML Elements

``

unordered list

Basic HTML Elements

``

unordered list

``

list item

Basic HTML Elements

```
<ul>
```

unordered list

```
  <li>item 1</li>
```

list item

```
  <li>item 2</li>
```

```
</ul>
```

Basic HTML Elements

```
<ul>
```

unordered list

```
  <li>item 1</li>
```

list item

```
  <li>item 2</li>
```

```
</ul>
```

- item 1
- item 2

HTML Attributes

```
<a>Google</a>
```

HTML Attributes

```
<a href="http://google.com">Google</a>
```


HTML Attributes

```
<a href="http://google.com">Google</a>
```

Google

HTML Attributes

```
<a href="http://google.com">Google</a>
```

Google

```
<div>Some text</div>
```

HTML Attributes

```
<a href="http://google.com">Google</a>
```

Google

```
<div class="warning">Some text</div>
```

HTML Attributes

```
<a href="http://google.com">Google</a>
```

Google

```
<div class="warning">Some text</div>
```

```
name="value"
```

HTML Attributes

```
<a href="http://google.com">Google</a>
```

Google

```
<div class="warning">Some text</div>
```

```
<tag name="value">content</tag>
```

HTML Void Elements

```
  
<input type="text">
```

From IDEA to HTML...

CSS

Cascading Style Sheets

CSS

A series of rules that dictate
the styling of your page

```
p {  
  color: red;  
  font-size: 20pt;  
}
```

Selector



```
p {  
  color: red;  
  font-size: 20pt;  
}
```

Selector Declaration



p

```
{  
  color: red;  
  font-size: 20pt;  
}
```

Property


`p {
 color: red;
 font-size: 20pt;
}`

Property Value

`p` { ↓ ↓
color: red;
font-size: 20pt;
}

Property Value Semicolon

`p` {
color: red;
font-size: 20pt;
}

The diagram illustrates the mapping of CSS components to the code. Three arrows point from the labels 'Property', 'Value', and 'Semicolon' to the corresponding parts of the code: 'color' (Property), 'red' (Value), and ';' (Semicolon). The opening curly brace '{' is aligned under 'Property', and the closing curly brace '}' is aligned under 'Semicolon'.

```
p {  
  color: red;  
  font-size: 20pt;  
}
```

```
<p>This here is a lovely paragraph,  
full of good news and bad.</p>
```

```
<p>I write very short paragraphs</p>
```



```
.intro {  
  color: red;  
  font-size: 20pt;  
}
```

```
<p class="intro">This here is a lovely  
paragraph, full of good news and  
bad.</p>
```

```
<p>I write very short paragraphs</p>
```

```
#id {  
  color: red;  
  font-size: 20pt;  
}
```

```
<p id="intro">This here is a lovely  
paragraph, full of good news and  
bad.</p>
```

```
<p>I write very short paragraphs</p>
```

ID `#intro`

IDs are Unique! Each ID should only be used once in the document

An Element can only have one ID

CLASS `.intro`

Use the same class on multiple elements

Use multiple classes on one element

```
<div class="alert good">DONE</div>
```

CSS Font & Text Properties

```
div {  
  color: #FF0000;  
  font-family: Times, Georgia, Serif;  
  font-size: 50pt;  
  font-weight: bold; /* normal */  
  text-align: center;  
  text-decoration: underline;  
  text-transform: capitalize;  
}
```

what does this css look like?

WHAT DOES THIS CSS LOOK LIKE?

CSS Display Properties

```
hello  
<div>world</div>
```

```
div {  
  background-color: red;  
}
```

CSS Display Properties

```
hello  
<div>world</div>
```

```
div {  
  background-color: red;  
  display: block;  
}
```


CSS Display Properties

```
hello  
<div>world</div>
```

```
div {  
  background-color: red;  
  display: inline;  
}
```

CSS Display Properties

```
hello  
<div>world</div>
```

```
div {  
  background-color: red;  
  display: inline;  
  width: 100px;  
  height: 50px;  
}
```

CSS Display Properties

```
hello  
<div>world</div>
```

```
div {  
  background-color: red;  
  display: inline-block;  
  width: 100px;  
  height: 50px;  
}
```

CSS Display Properties

CONTENT

CONTENT

CSS Display Properties

CONTENT

CONTENT

CSS Box Model

```
<div>best box</div>
```

```
div {  
  border: 1px solid red;  
}
```

CSS Box Model

```
<div>best box</div>
```

```
div {  
  border-style: solid;  
  border-color: red;  
  border-width: 1px;  
}
```

CSS Box Model

```
<div>best box</div>
```

```
div {  
  border-style: solid;  
  border-color: red;  
  border-width: 1px 3px;  
}
```


CSS Box Model

```
<div>best box</div>
```

```
div {  
  border-style: solid;  
  border-color: red;  
  border-width: 1px 3px;  
}
```

TOP & BOTTOM, RIGHT & LEFT

CSS Box Model

```
<div>best box</div>
```

```
div {  
  border-style: solid;  
  border-color: red;  
  border-width: 1px 3px 1px 3px;  
}
```

TOP, RIGHT, BOTTOM, LEFT

CSS Box Model

```
<div>best box</div>
```

```
div {  
  border-bottom: 1px solid red;  
}
```

CSS Box Model

```
<div>best box</div>
```

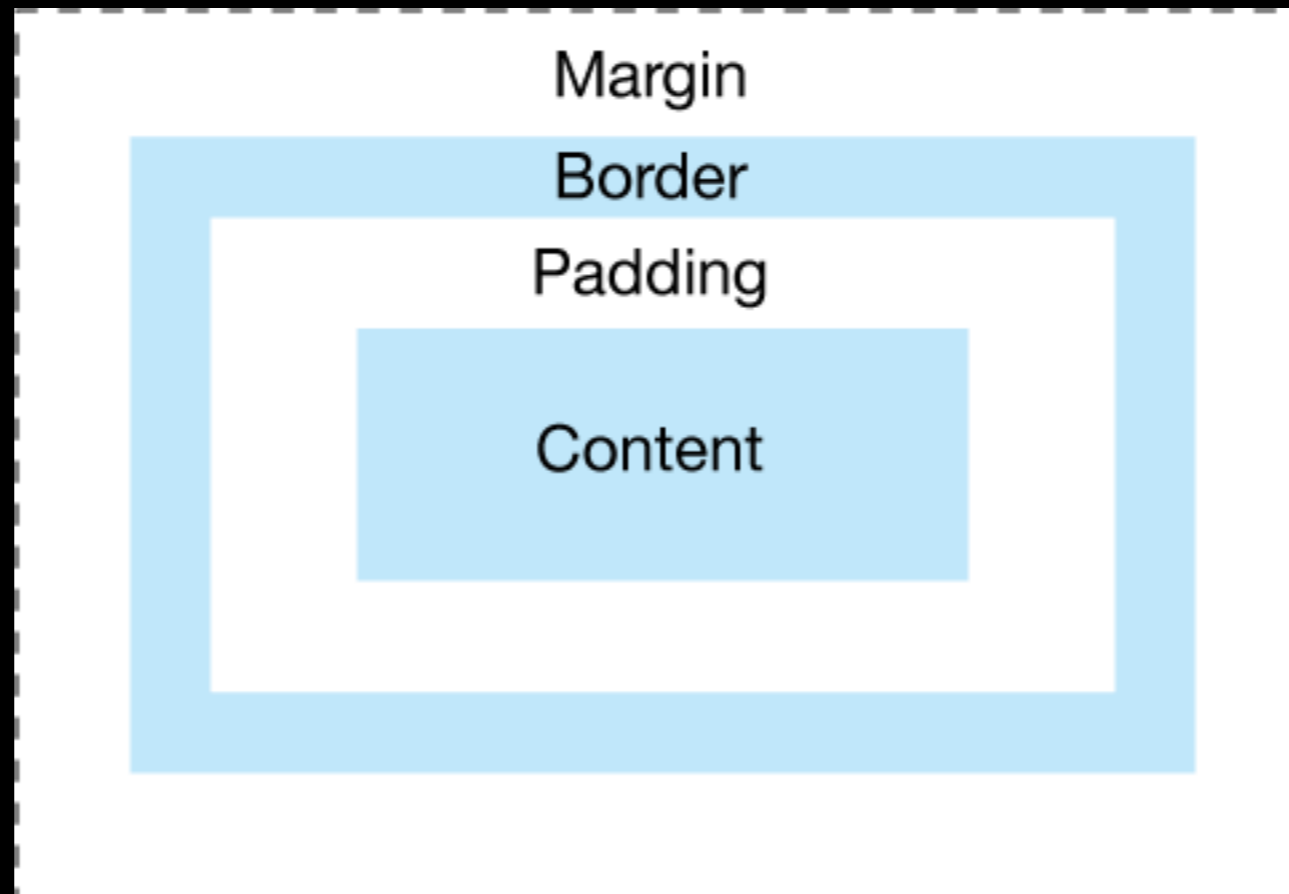
```
div {  
  margin: 10px;  
  border: 1px solid red;  
}
```

CSS Box Model

```
<div>best box</div>
```

```
div {  
  padding: 10px;  
  border: 1px solid red;  
}
```

CSS Box Model



CSS Positioning

```
<body>  
  <div>here is some text</div>  
  <div class="content">bloop!</div>  
</body>
```

```
body {  
  position: relative;  
}  
  
.content {  
  position: relative;  
}
```

CSS Positioning

```
<body>  
  <div>here is some text</div>  
  <div class="content">bloop!</div>  
</body>
```

```
body {  
  position: relative;  
}  
  
.content {  
  position: relative;  
  top: 20px;  
}
```


CSS Positioning

```
<body>  
  <div>here is some text</div>  
  <div class="content">bloop!</div>  
</body>
```

```
body {  
  position: relative;  
}  
  
.content {  
  position: absolute;  
  top: 10px;  
}
```

CSS Positioning

```
<body>  
  <div>here is some text</div>  
  <div class="content">bloop!</div>  
</body>
```

```
body {  
  position: relative;  
}  
  
.content {  
  position: fixed;  
  top: 20px;  
}
```

CSS Positioning



CSS Positioning

RELATIVE, 10px



CSS Positioning

ABSOLUTE (to parent), 10px



CSS Positioning

FIXED (to window), 10px



Let's add some CSS...

After Lunch!

JavaScript & Nodejs

After Lunch!

JavaScript & Nodejs

Try out some HTML/CSS

<http://bit.ly/6148htmlcss>