

Web Building Blocks

HTML & CSS

Why Learn the Building Blocks?

“The idea that you could make a website and not know HTML blows my mind because it’s like building a building and not knowing what a brick is...You can be a CSS wizard or you can know the basics, but you should at least have some foundational knowledge of what your building material is.”

- Ryan Singer, 37Signals

Building Blocks

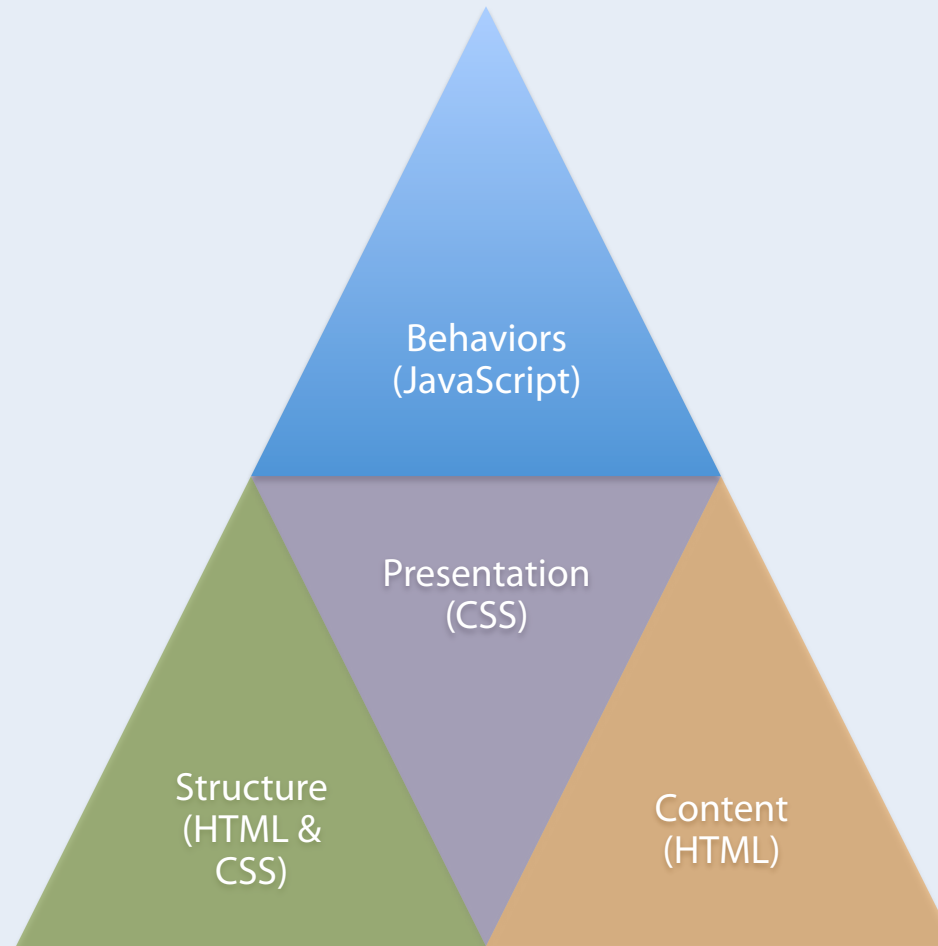
What we'll make

<http://bit.ly/aJWAu6>

Building Blocks

- Content (text, images, video)
- Structure (layout, order)
- Presentation/style (color, size, margins, typeface)
- Behaviors (clicking, submitting forms, dragging)

Building Blocks



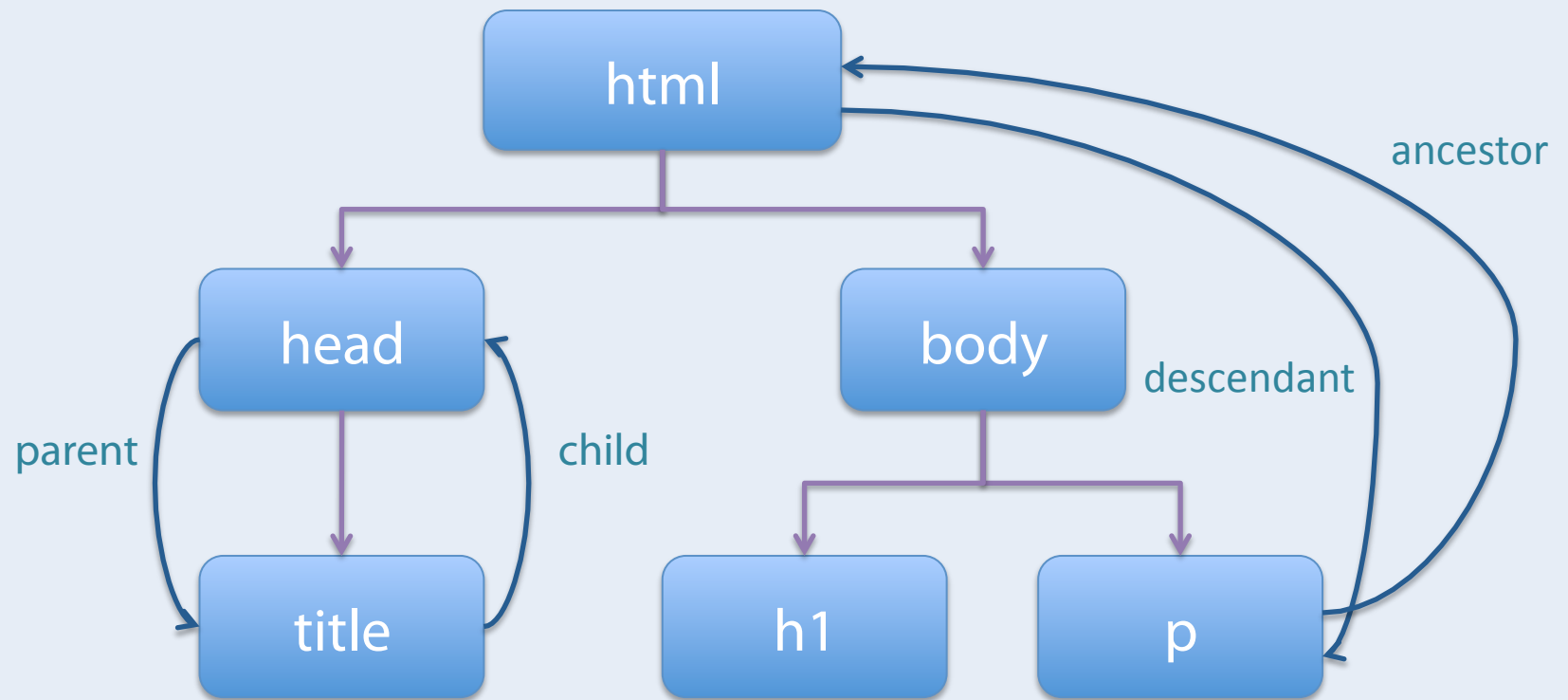
Building Blocks: HTML

Content + Structure

```
<!doctype html>
<html>
  <head>
    <title>My First Page</title>
  </head>
  <body>
    <h1>Hello, World!</h1>
    <p>Welcome to my site.</p>
  </body>
</html>
```

Building Blocks: HTML

DOM: Document Object Model



Building Blocks: HTML

Elements, Nodes, Tags, Attributes, IDs, and Classes

```
<p id="welcome" class="notice">  
  <span class="first intro-word">Welcome</  
span> to my site.  
</p>
```

Building Blocks: HTML

abstract:

```
<div> <span>
```

links & images:

```
<a href="this.html">
```

```

```

structure:

```
<h1>...<h6> <p> <ul> <ol> <li> <table> <tr> <td>
```

emphasis:

```
<em> <strong>
```

Building Blocks: HTML

Play around!

<http://bit.ly/cGI3Jk>

Building Blocks: HTML



inline elements



block



elements

Building Blocks: HTML

Structure of an XHTML Document

```
<div id="header">
```

```
<div id="nav">
```

```
<div class="article">
```

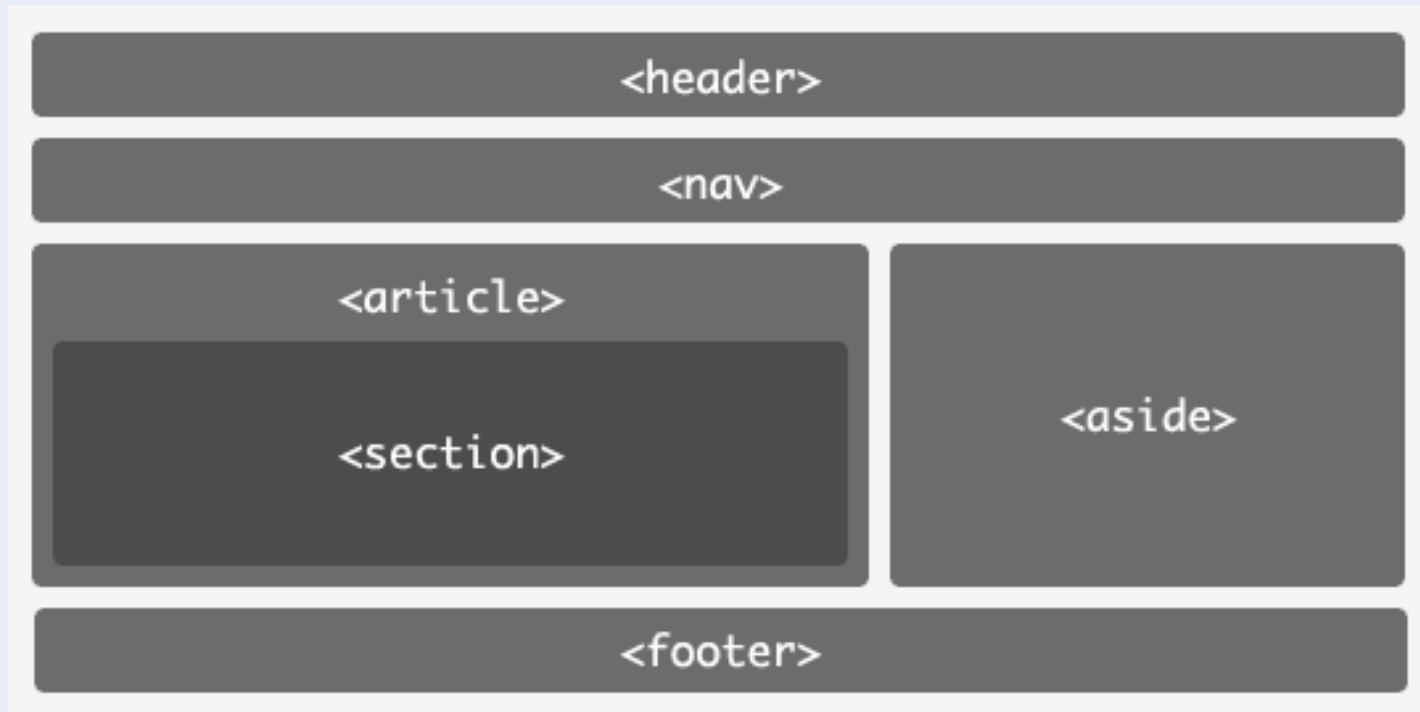
```
<div class="section">
```

```
<div id="sidebar">
```

```
<div id="footer">
```

Building Blocks: HTML

Structure of an HTML5 Document



Building Blocks

<http://bit.ly/c0B4VS>

Building Blocks: CSS

Cascading Style Sheets

```
selector {  
    property: value;  
}
```

Building Blocks: CSS

Selectors

p

.notice

#welcome

p.notice

.first.intro-word

div .notice

a:hover

#welcome .notice span

.notice, .warning

Building Blocks: CSS

Selectors: going down?

#welcome



.notice



span

Building Blocks: CSS

Inheritance

span



.notice

p .notice

#top-note

p #top-note

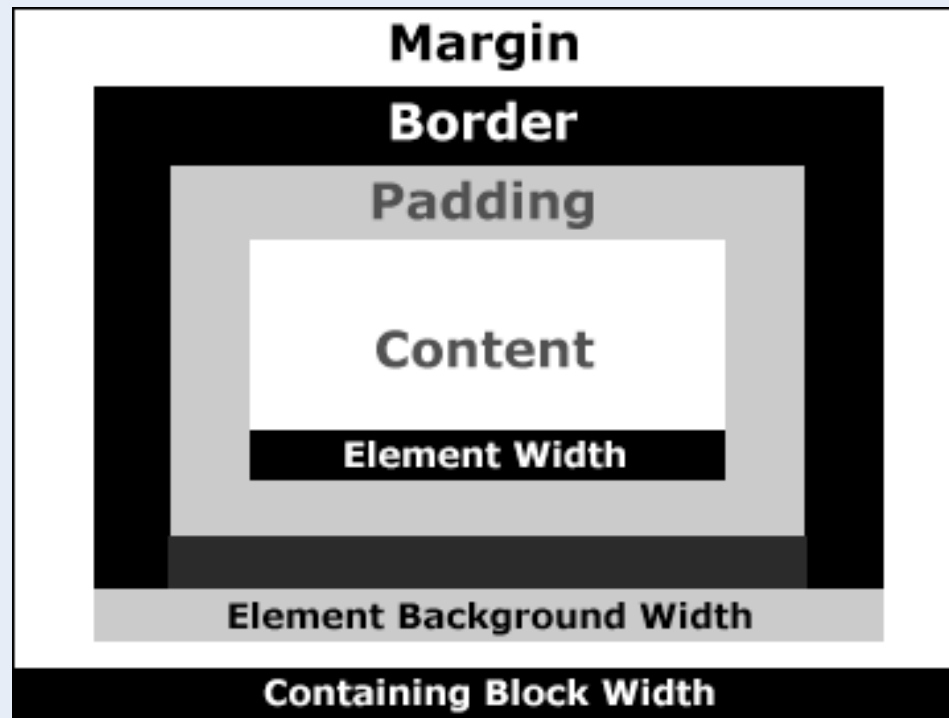
Building Blocks: CSS

Properties & Values

```
height: 100px;  
width: 50%;  
color: #FF0000;  
background-color: #000;  
font-size: 12pt;  
font-family: "Times New Roman", serif;  
font-weight: bold;  
text-align: center;  
display: block;  
float: left;  
padding: 3em;  
margin: 10px 20px 5px 10px;
```

Building Blocks: CSS

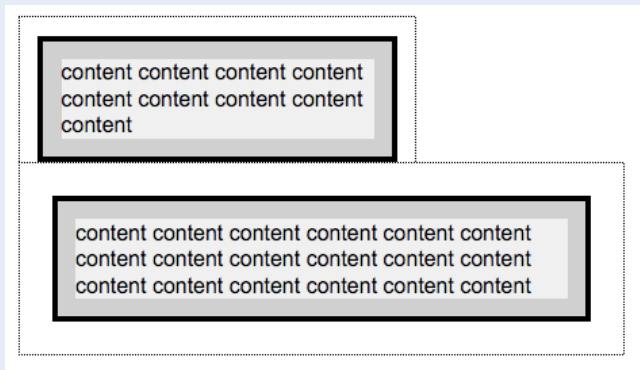
Box Model



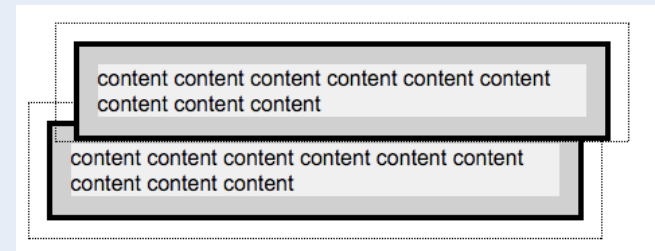
Building Blocks: CSS

Positioning

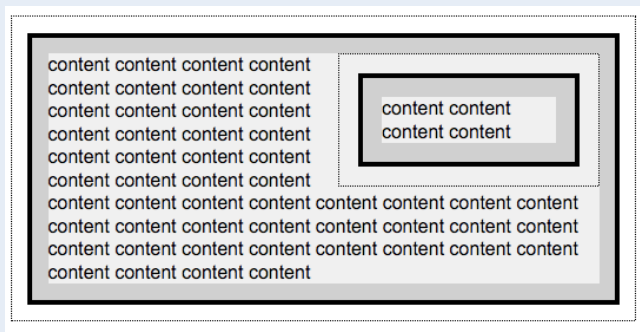
Normal



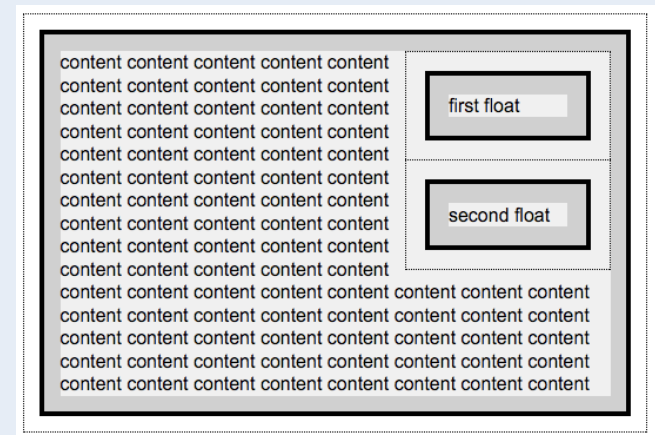
Relative/Absolute



Float



"Cleared" floats



Building Blocks

<http://bit.ly/9S35oq>

Building Blocks: Resources

- Tutorials/Reference
 - W3Schools: w3schools.com
 - HTML Dog: htmldog.com
- Design
 - A List Apart: alistapart.com
 - Smashing Magazine: smashingmagazine.com
 - Boxes and Arrows: boxesandarrows.com
 - Pattern Tap: patterntap.com
- Tools
 - Firebug (getfirebug.com), Chrome Developer Toolbar, IE Developer Toolbar
 - validator.w3.org
 - TextWrangler, Notepad++, CSS Edit