

HTML5 and CSS3 for Mobile Applications

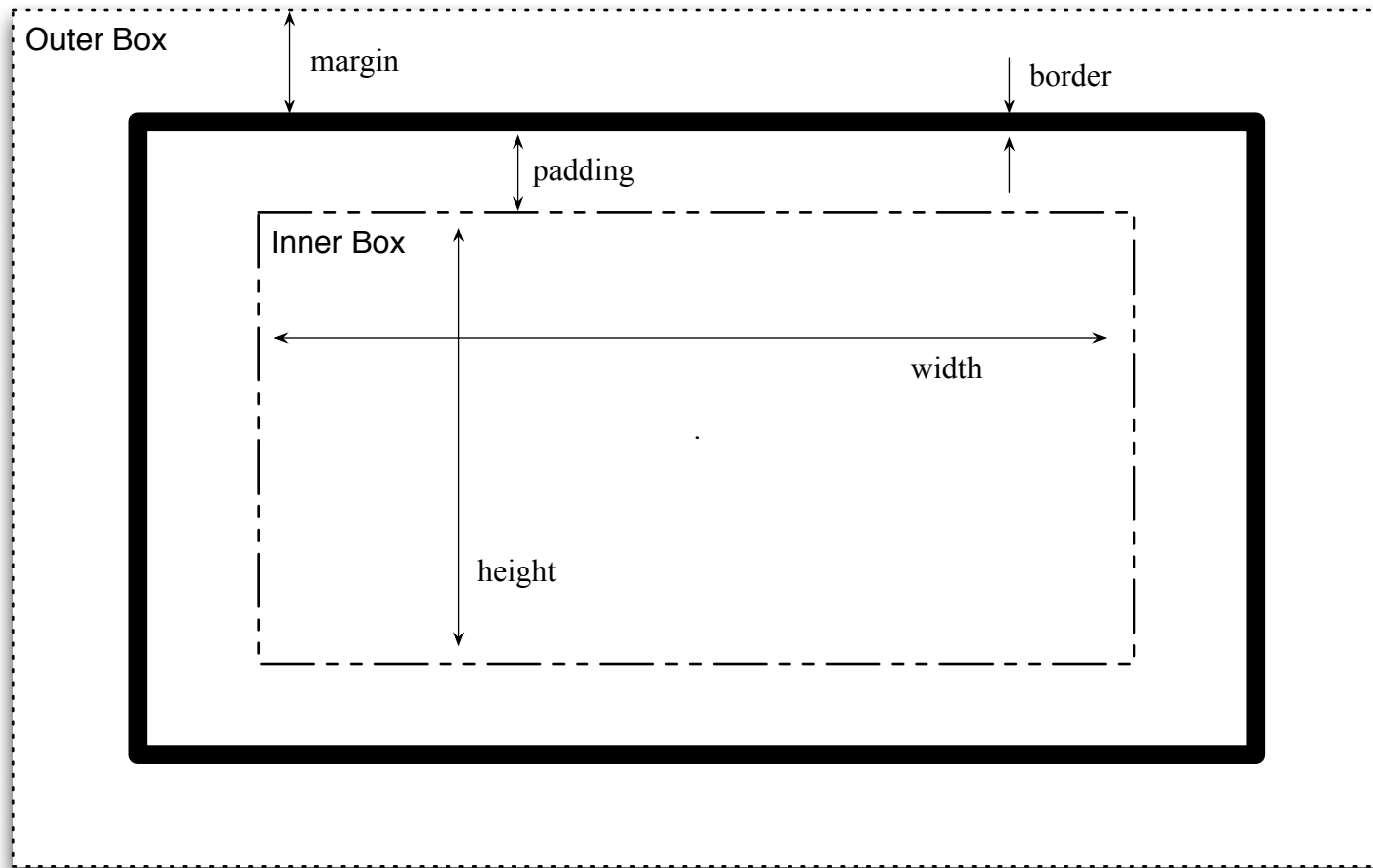
CSS Tricks - Including Animations
Prof. Paul Krause, University of Surrey

What we are going to do today

- General Pattern: Outside-in Box
- Tabs
- Animated Tabs

Outside-in Box: The Problem

- How do we set the *outer width* of an element to specific value, without it being affected by *padding*, *border* or *margin* settings?

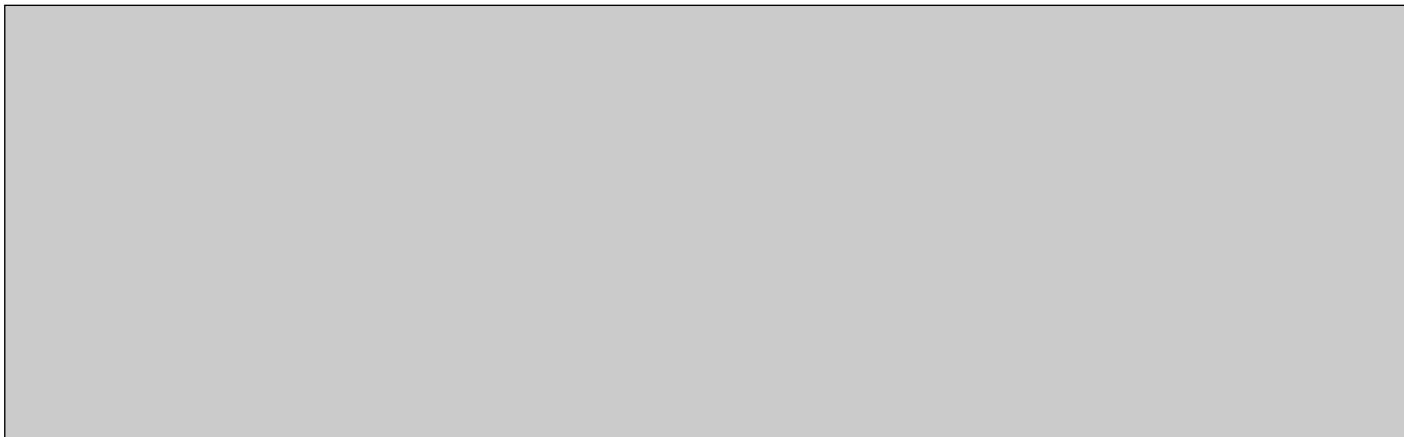


Outside-in: The Solution

- Use a container element with no *borders*, *padding* or *margin*
- Stretch the *width* of the container to the value you want (100% in our example)
- Place the “outside in” element inside the container and set the *margins*, *borders* and *padding* to the values you want
- The *width* of the container then becomes the outer width of the outside-in element

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HTML

```
12 ▾ <body>
13   <h1>Outside-in Box</h1>
14   <h2>Before</h2>
15 ▾   <article class="container">
16     <section class="before float">
17       Float
18     </section>
19   </article>
20
21   <section class="float-divider">
22     <h2>After</h2>
23   </section>
24
25 ▾   <article class="container">
26 ▾     <section class="after float">
27       <div class="oi">
28         Float
29       </div>
30     </section>
31   </article>
32 </body>
```

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```

CSS

```
20 .before {
21     width: 100%;
22     margin: 5px;
23     border: 5px solid #000;
24 }
25
26 .after {
27     width: 100%;
28 }
29
30 .after .oi {
31     margin: 5px;
32     padding: 5px;
33     border: 5px solid #000;
34     display: block;
35 }
```

CSS

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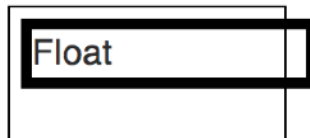
CSS

```
20 .before {
21     width: 100%;
22     margin: 5px;
23     border: 5px solid #000;
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26 .after {
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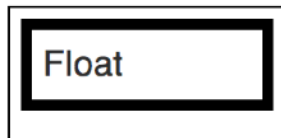
The Result

Outside-in Box

Before



After



Nav Bar with Tabs

tabs.html

```
13▼ <header>
14   <h1>Tab Menu</h1>
15▼   <nav id="main_nav">
16▼     <ul class="tabs">
17       <li class="selected">
18         <h3 class="tab-label"><a href="tabs.html">Tab 1</a></h3>
19       </li>
20       <li><h3 class="tab-label"><a href="tab2.html">Tab 2</a></h3></li>
21       <li><h3 class="tab-label"><a href="tab3.html">Tab 3</a></h3></li>
22       <li><h3 class="tab-label"><a href="tab4.html">Tab 4</a></h3></li>
23     </ul>
24   </nav>
25 </header>
```

tabs.html

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13▼ <header>
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21       <li><h3 class="tab-label"><a href="tab3.html">Tab 3</a></h3></li>
22       <li><h3 class="tab-label"><a href="tab4.html">Tab 4</a></h3></li>
23     </ul>
24   </nav>
25 </header>
```

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24   </nav>
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22       <li><h3 class="tab-label"><a href="tab4.html">Tab 4</a></h3></li>
23     </ul>
24   </nav>
25 </header>
```

tabs.css

```
24  ul.tabs li {
25      float: left;
26      width: 25%;
27  }
28
29  ul.tabs .tab-label {
30      border: 1px solid #FFFF66;
31      margin: 0;
32      padding-bottom: 2px;
33      text-align: center;
34      font-weight: normal;
35      background-color: #EEE;
36  }
```

tabs.css

```
24  ul.tabs li {  
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26      width: 25%;  
27  }  
28  
29  ul.tabs .tab-label {  
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35      background-color: #EEE;
36  }
```


Highlight the selected tab

```
38  ul.tabs li.selected .tab-label {  
39      position: relative;  
40      border-bottom: none;  
41      top: 1px;  
42      padding-bottom: 4px;  
43      padding-top: 5px;  
44      border-top: 2px solid #FFFF66;  
45      margin-top: -5px;  
46      background-color: #AAA;  
47      font-weight: bold;  
48  }
```

Highlight the selected tab

```
38  ul.tabs li.selected .tab-label {  
39      position: relative;  
40      border-bottom: none;  
41      top: 1px;  
42      padding-bottom: 4px;  
43      padding-top: 5px;  
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45      margin-top: -5px;  
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47      font-weight: bold;  
48  }
```

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41      top: 1px;  
42      padding-bottom: 4px;  
43      padding-top: 5px;  
44      border-top: 2px solid #FFFF66;  
45      margin-top: -5px;  
46      background-color: #AAA;  
47      font-weight: bold;  
48  }
```

Animated Tabs

Animated Tabs Uses

- Background Image
- Tabs
- Transition

animation.html

```
13 <nav id="main-nav" role=navigation>
14   <ul class="tabs">
15     <li><h3 class="tab-label"><a href=index.html>Home</a></h3></li>
16     <li><h3 class="tab-label"><a href=about.html>About</a></h3></li>
17     <li><h3 class="tab-label"><a href=products.html>Products</a></h3></li>
18     <li><h3 class="tab-label"><a href=events.html>Events</a></h3></li>
19   </ul>
20 </nav>
```

animation.css (background image)

```
1 #main-nav {
2   position: relative;
3   padding: 1em 0;
4   width: 600px;
5   height: 50px;
6   overflow: hidden;
7 }
8
9 ul.tabs {
10  position: absolute;
11  width: 600px;
12  height: 50px;
13  left: 0;
14  top: 0;
15  background: url(clouds2.jpg) no-repeat;
16 }
```

outside-in

```
40  ul.tabs li {  
41      float: left;  
42      width: 25%;  
43  }  
44  
45  ul.tabs .tab-label {  
46      border: 1px solid #FFFF66;  
47      margin: 0;  
48      padding: 0.6em;
```


Transition

```
45 ▾ ul.tabs .tab-label {  
46     border: 1px solid #FFFF66;  
47     margin: 0;  
48     padding: 0.6em;  
49     text-align: center;  
50     font-weight: normal;  
51     font-family: Futura, Arial, sans-serif;  
52     text-shadow: 2px 2px 1px rgba(0, 0, 0, 0.6);  
53     -webkit-transition: background .85s ease-in-out;  
54     -moz-transition: background .85s ease-in-out;  
55     -o-transition: background .85s ease-in-out;  
56     transition: background .85s ease-in-out;  
57 }  
58  
59 ul.tabs .tab-label:hover {  
60     background: rgba(100, 100, 100, 0.7);  
61 }  
62
```

Transition

```
45 ▾ ul.tabs .tab-label {  
46     border: 1px solid #FFFF66;  
47     margin: 0;  
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Transition

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61 }  
62
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What we have done

- Introduced the “outside-in” design pattern
- Used it for creating a tabbed Nav Bar
- Added in Background Image and Transition to animate the Nav Bar