

APEX Developers - Do More With Less !!

Roel Hartman



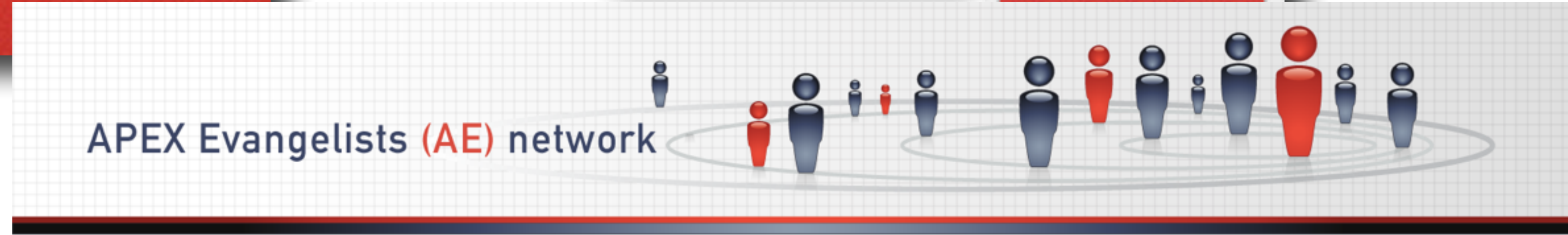
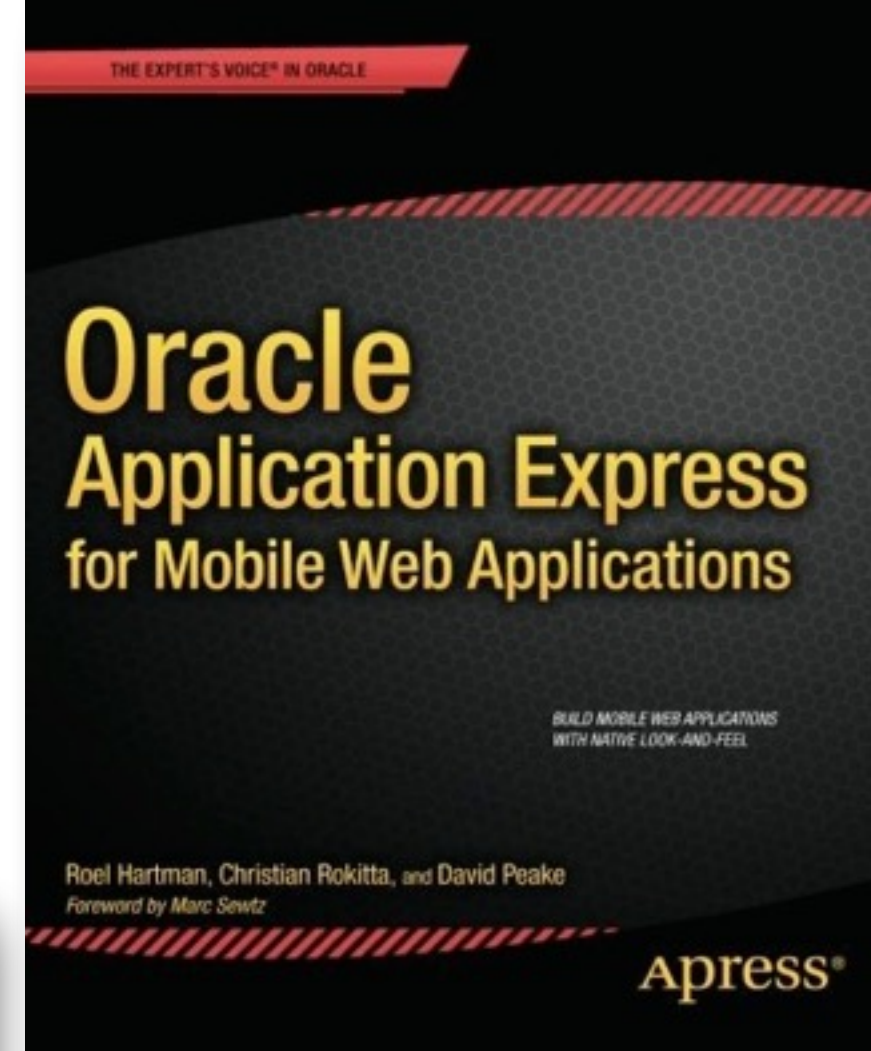
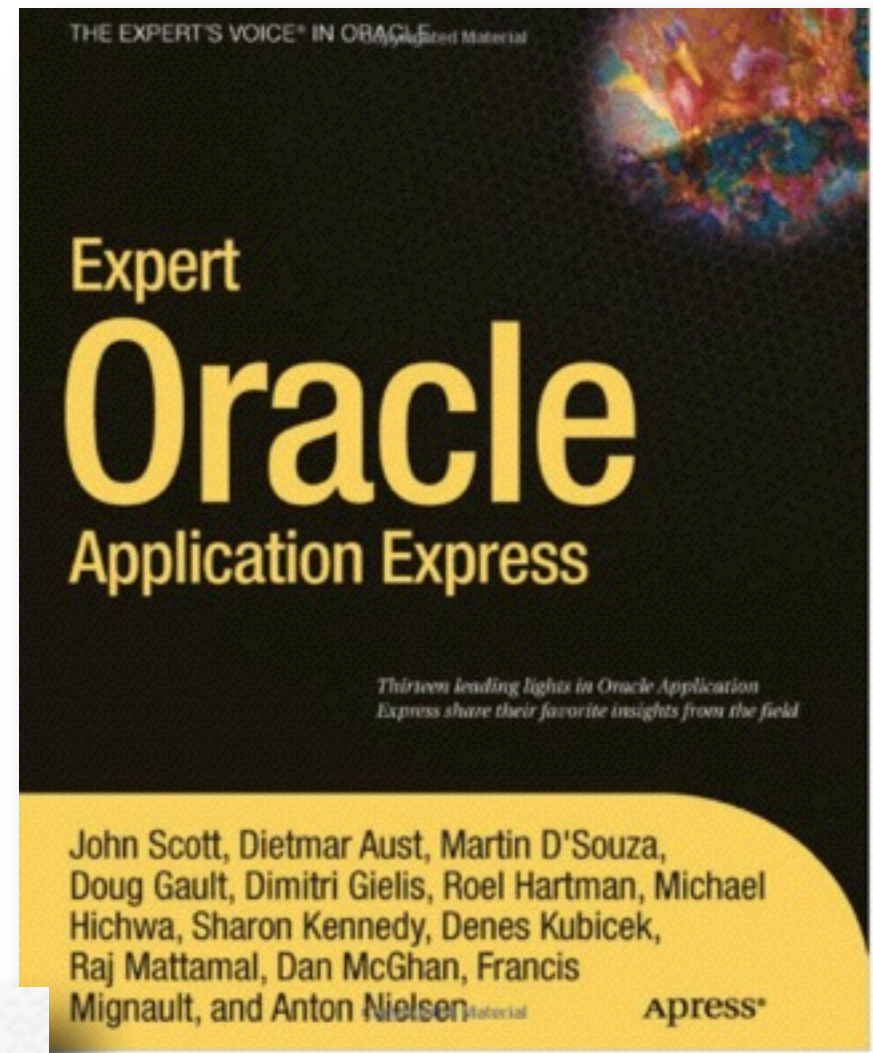


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LESS

Leaner CSS

SASS

Syntactically Awesome StyleSheets

SCSS

Sassy CSS

OOCSS

Object Oriented CSS

Issue 1

You need a CSS Expert

Issue 2

Your CSS File(s) grows

Issue 3

No CSS code re-use

Issue 4

CSS is fragile

Result

CSS increases 1:1 with HTML

Your Solution ...



Separating Structure from Skin

```
#button {
  width: 200px;
  height: 50px;
  padding: 10px;
  border: solid 1px #ccc;
  background: linear-gradient(#ccc, #222);
  box-shadow: rgba(0, 0, 0, .5) 2px 2px 5px;
}
```

```
#box {
  width: 400px;
  overflow: hidden;
  border: solid 1px #ccc;
  background: linear-gradient(#ccc, #222);
  box-shadow: rgba(0, 0, 0, .5) 2px 2px 5px;
}
```

```
#widget {
  width: 500px;
  min-height: 200px;
  overflow: auto;
  border: solid 1px #ccc;
  background: linear-gradient(#ccc, #222);
  box-shadow: rgba(0, 0, 0, .5) 2px 2px 5px;
}
```

```
<html>
  <div id="box">
    <button id="button" />
  </div>
  <div id="widget"></div>
</html>
```

```
#button {
  width: 200px;
  height: 50px;
  padding: 10px;
  border: solid 1px #ccc;
  background: linear-gradient(#ccc, #222);
  box-shadow: rgba(0, 0, 0, .5) 2px 2px 5px;
}
```

```
#box {
  width: 400px;
  overflow: hidden;
  border: solid 1px #ccc;
  background: linear-gradient(#ccc, #222);
  box-shadow: rgba(0, 0, 0, .5) 2px 2px 5px;
}
```

```
#widget {
  width: 500px;
  min-height: 200px;
  overflow: auto;
  border: solid 1px #ccc;
  background: linear-gradient(#ccc, #222);
  box-shadow: rgba(0, 0, 0, .5) 2px 2px 5px;
}
```

```
.button {
  width: 200px;
  height: 50px;
}
```

```
.box {
  width: 400px;
  overflow: hidden;
}
```

```
.widget {
  width: 500px;
  min-height: 200px;
  overflow: auto;
}
```

```
.skin {
  border: solid 1px #ccc;
  background: linear-gradient(#ccc, #222);
  box-shadow: rgba(0, 0, 0, .5) 2px 2px 5px;
}
```

```
<html>
  <div class="box skin">
    <button id="button skin" />
  </div>
  <div id="widget skin"></div>
</html>
```

```
.button {
  width: 200px;
  height: 50px;
}

.box {
  width: 400px;
  overflow: hidden;
}

.widget {
  width: 500px;
  min-height: 200px;
  overflow: auto;
}

.skin {
  border: solid 1px #ccc;
  background: linear-gradient(#ccc, #222);
  box-shadow: rgba(0, 0, 0, .5) 2px 2px 5px;
}
```

Separating Structure from Skin

Separating Container from Content

```
div{
  width: 200px;
  height: 50px;
  padding: 10px;
  border: solid 1px #ccc;
}
```

```
div h3{
  margin: 0px;
  overflow: hidden;
  border: solid 1px #ccc;
}
```

```
div p{
  margin: 3px;
  min-height: 200px;
  overflow: auto;
  border: solid 1px #ccc;
}
```

```
<html>
  <div>
    <h3>Header</h3>
  </div>
  <div>
    <p>Paragraph</p>
  </div>
</html>
```

```
.bordered{
  border: solid 1px #ccc;
}
```

```
.container{
  width: 200px;
  height: 50px;
  padding: 10px;
}
```

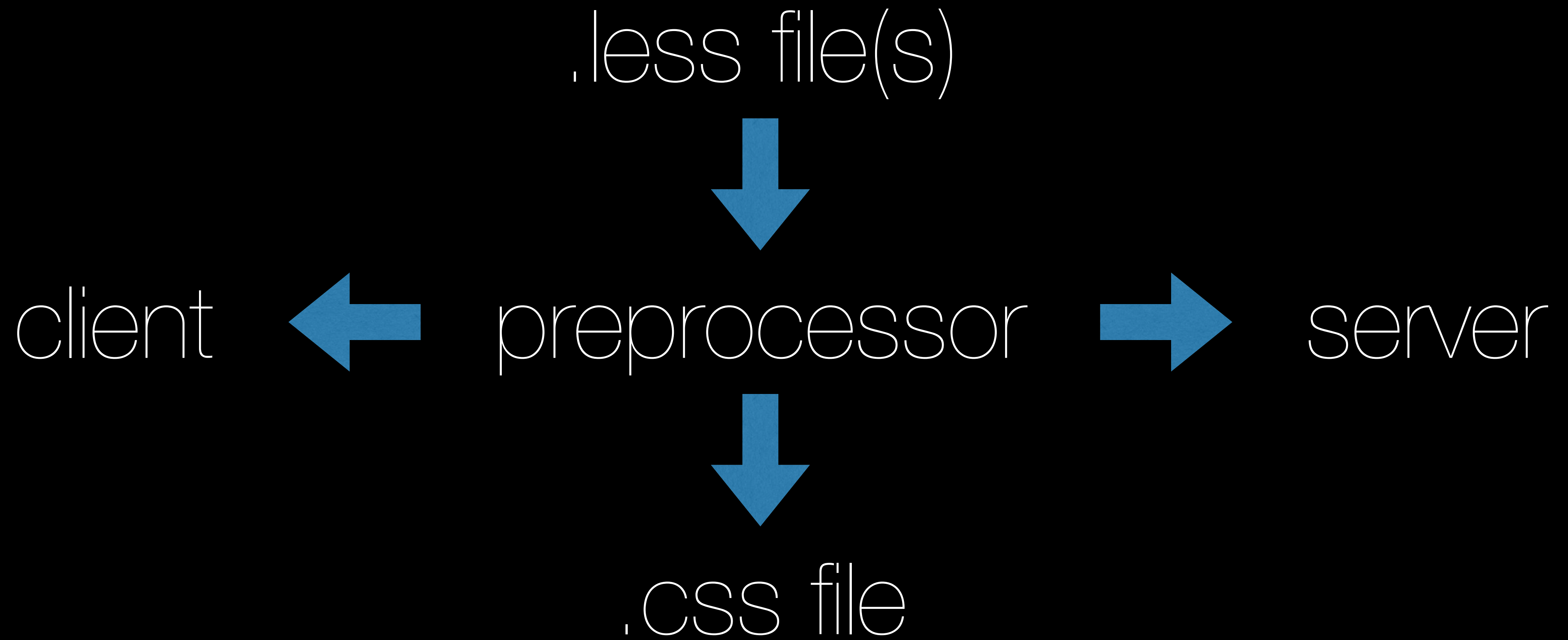
```
.region-header{
  margin: 0px;
  overflow: hidden;
}
```

```
.flexbox{
  margin: 3px;
  min-height: 200px;
  overflow: auto;
}
```

```
<html>
  <div class="bordered container">
    <h3 class="bordered region-header">
      Header
    </h3>
  </div>
  <div class="bordered container">
    <p class="bordered flexbox">Paragraph</p>
  </div>
</html>
```


Separating Container from Content

LESS does MORE



```
<link rel="stylesheet" type="text/css" href="/css/demo2.css">
<aside id="sidemenu">
  <h2>Side menu</h2>
  <ul>
    <li>
      <a href="page1.html">item 1</a>
    </li>
    <li>
      <a href="page2.html">item 1</a>
    </li>
  </ul>
</aside>
```

```
#sidemenu h2{
  color: black;
  font-size: 16px;
}
#sidemenu ul li a{
  text-decoration: none;
  color: green;
}
```

```
<link rel="stylesheet" type="text/css" href="/css/demo2.css">
<aside class="sidemenu">
  <h2 class="menu-header">Side menu</h2>
  <ul class="menu-list">
    <li class="menu-list-item">
      <a class="" href="page1.html">item 1</a>
    </li>
    <li class="menu-list-item">
      <a class="" href="page2.html">item 1</a>
    </li>
  </ul>
</aside>
```

```
.sidemenu .menu-header{
  color: black;
  font-size: 16px;
}
.sidemenu .menu-link{
  text-decoration: none;
  color: green;
}
```

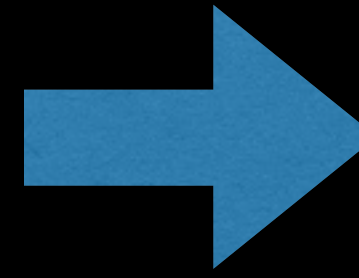
```
.sidemenu .menu-header{
  color: black;
  font-size: 16px;
}
.sidemenu .menu-link{
  text-decoration: none;
  color: green;
}
```



```
.sidemenu{
  .menu-header{
    color: black;
    font-size: 16px;
  }
  .menu-link{
    text-decoration: none;
    color: green;
  }
}
```

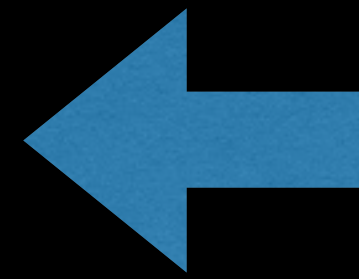
Nesting

```
.sidemenu{
  .menu-header{
    color: black;
    font-size: 16px;
  }
  .menu-link{
    text-decoration: none;
    color: green;
  }
}
```



```
@menu-header-color : black;
@menu-link-color : green;
@menu-font-size : 16px;

.sidemenu{
  .menu-header{
    color: @menu-header-color;
    font-size: @menu-font-size;
  }
  .menu-link{
    text-decoration: none;
    color: @menu-link-color;
  }
}
```

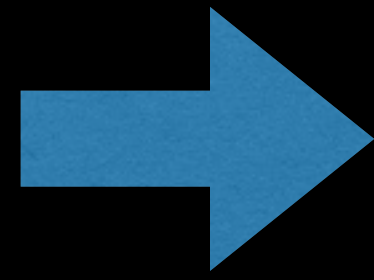


```
.sidemenu .menu-header {
  color: #000000;
  font-size: 16px;
}
.sidemenu .menu-link {
  text-decoration: none;
  color: #008000;
}
```

Variables

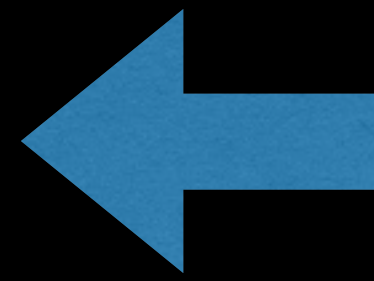
```
@menu-header-color : black;
@menu-link-color : green;
@menu-font-size : 16px;

.sidemenu{
  .menu-header{
    color: @menu-header-color;
    font-size: @menu-font-size;
  }
  .menu-link{
    text-decoration: none;
    color: @menu-link-color;
    font-size: 12px;
  }
}
```



```
@menu-header-color : black;
@menu-link-color : green;
@menu-font-size : 16px;
@delta-font-size : @menu-font-size / 4;

.sidemenu{
  .menu-header{
    color: @menu-header-color;
    font-size: @menu-font-size;
  }
  .menu-link{
    text-decoration: none;
    color: @menu-link-color;
    font-size: @menu-font-size - @delta-font-size;
  }
}
```

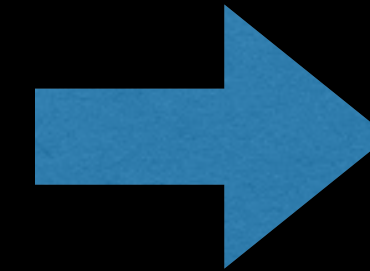


Calculations

```
.sidemenu .menu-header {
  color: #000000;
  font-size: 16px;
}
.sidemenu .menu-link {
  text-decoration: none;
  color: #008000;
  font-size: 12px;
}
```

```
@menu-header-color : green;
@menu-link-color : lighten(@menu-header-color, 20%);
@menu-font-size : 16px;
@delta-font-size : @menu-font-size / 4;
```

```
.sidemenu{
  background-color : greyscale(@menu-header-color,@menu-link-color);
  .menu-header{
    color: @menu-header-color;
    font-size: @menu-header-font-size;
  } font-size: @menu-font-size;
  .menu-link{
    text-decoration: none;
    color: @menu-link-color;
    font-size: @menu-link-font-size - @delta-font-size;
  } font-size: @menu-font-size - @delta-font-size;
}
ul{
  color: @menu-link-color;
}
}
```

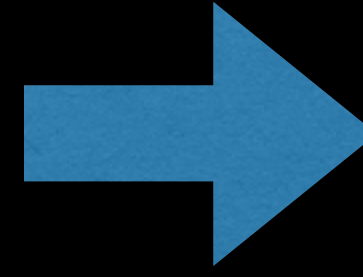


Built-ins

```
.sidemenu {
  background-color: #404040;
}
.sidemenu .menu-header {
  color: #008000;
  font-size: 16px;
}
.sidemenu .menu-link {
  text-decoration: none;
  color: #00e600;
  font-size: 12px;
}
.sidemenu ul {
  color: #00e600;
}
```



```
.roundedcorners{  
  -webkit-border-radius: 10px;  
  -moz-border-radius: 10px;  
  border-radius: 10px;  
}
```



```
.roundedcorners( @rad : 10px ){  
  -webkit-border-radius: @rad;  
  -moz-border-radius: @rad;  
  border-radius: @rad;  
}
```

Mixins

Bootstrap

Sleek, intuitive, and powerful front-end framework for faster and easier web development.

[Download Bootstrap](#)

[GitHub project](#)

[Examples](#)

[Extend](#)

[Version 2.3.2](#)



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