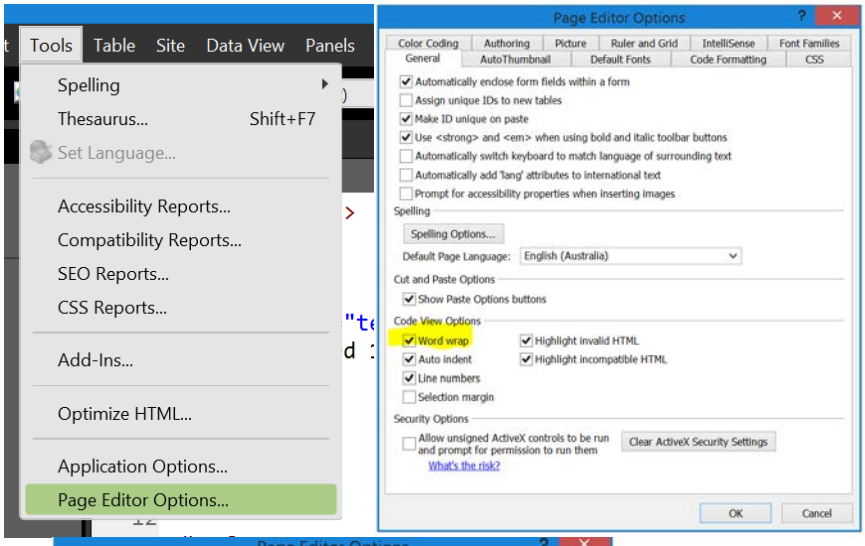
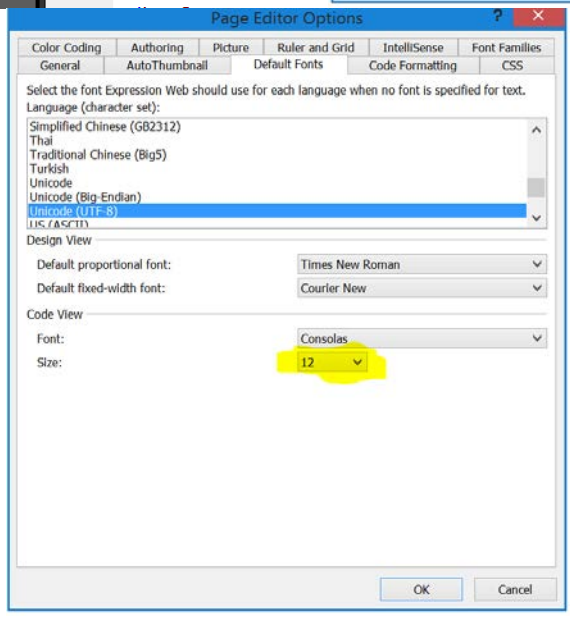
Tutorial

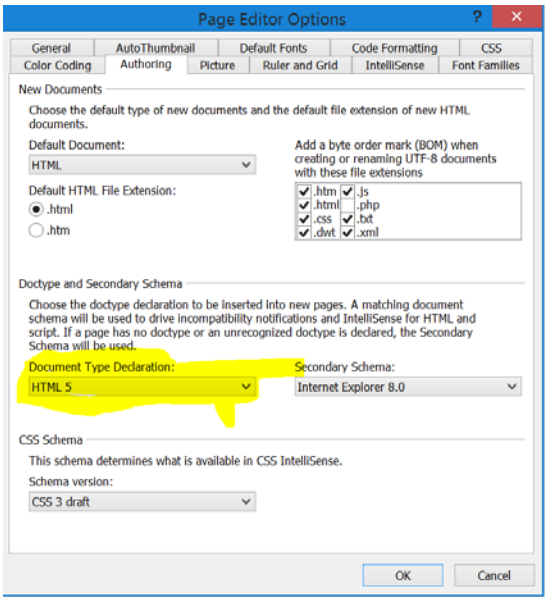
Botostrap

Today we will have a play with a very popular responsive web framework called bootstrap.

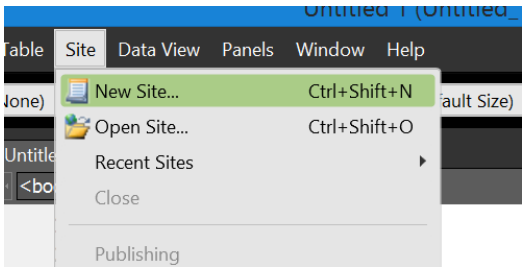
So, to start with open up expression web, and set up the configuration: tools -> Page editor Options

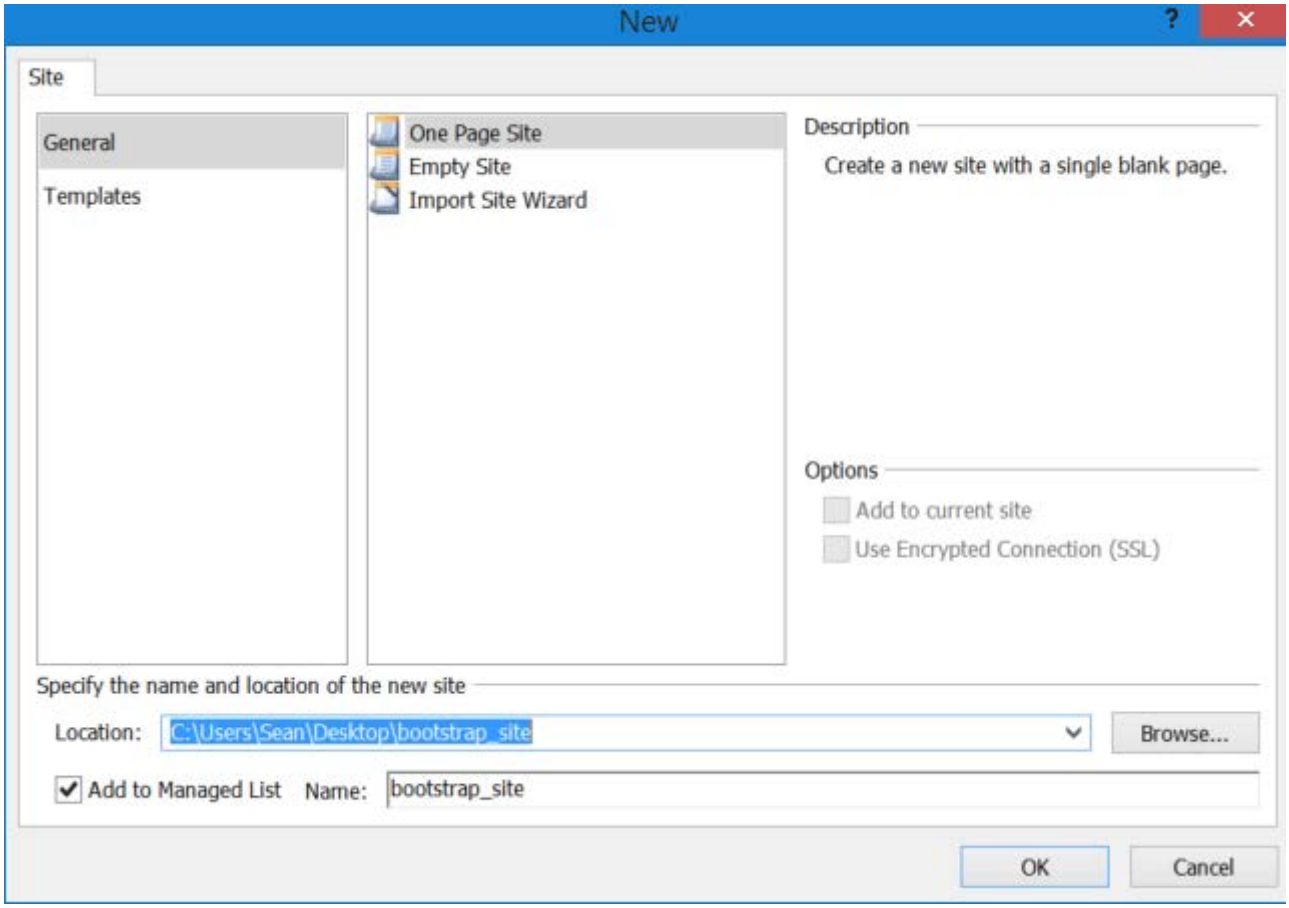




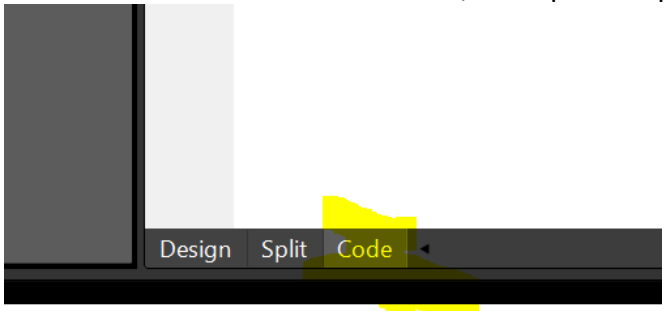


From here, then start a new site





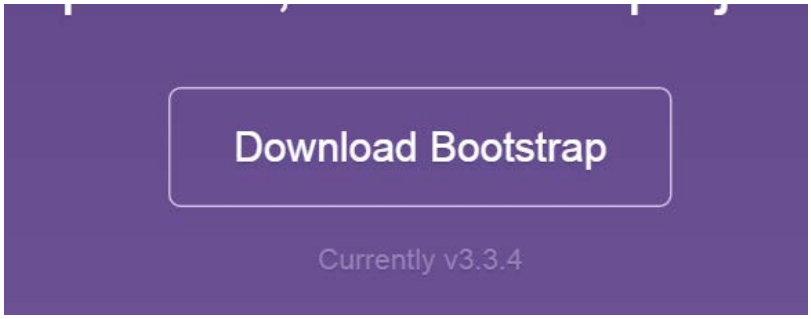
Rename default.html to index.html, and open the page up in code mode

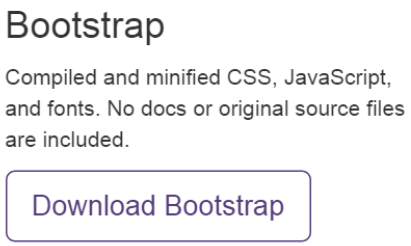


To start off with we need to download the bootstrap files.

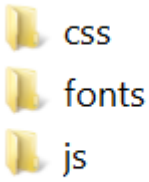
Go here: http://getbootstrap.com/

Click on the download button

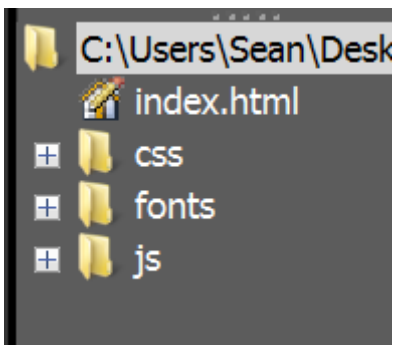




Save the files to your desktop. Once the zip is down, extract the files, you should see a folder called bootstrap with the following folders in it:

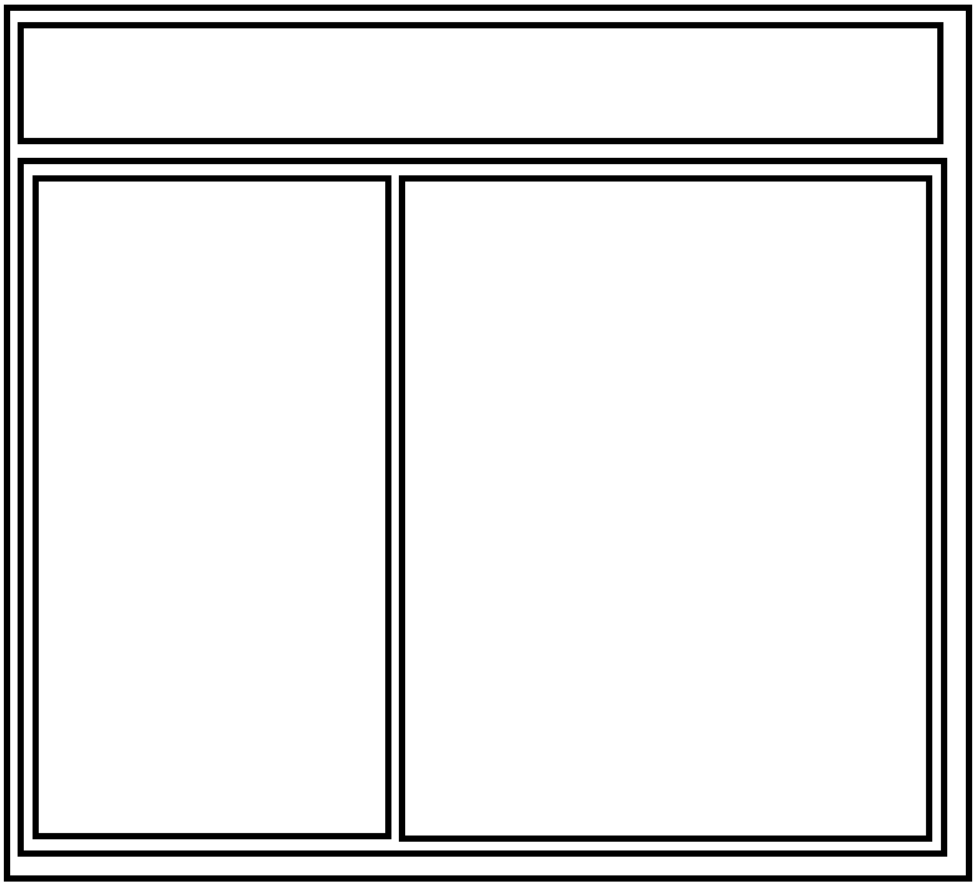


Copy these folders into your website.



Now we need to link the aspects of bootstrap that we need. Like all frameworks we add the link to the javascript and css. In the case of bootstrap, we will also link in an additional css theme.

So, when dealing with bootstrap, it's best to think of your site in a 12 grid format. So let's look at a simple design.



Now, add the following skeleton with inline styles

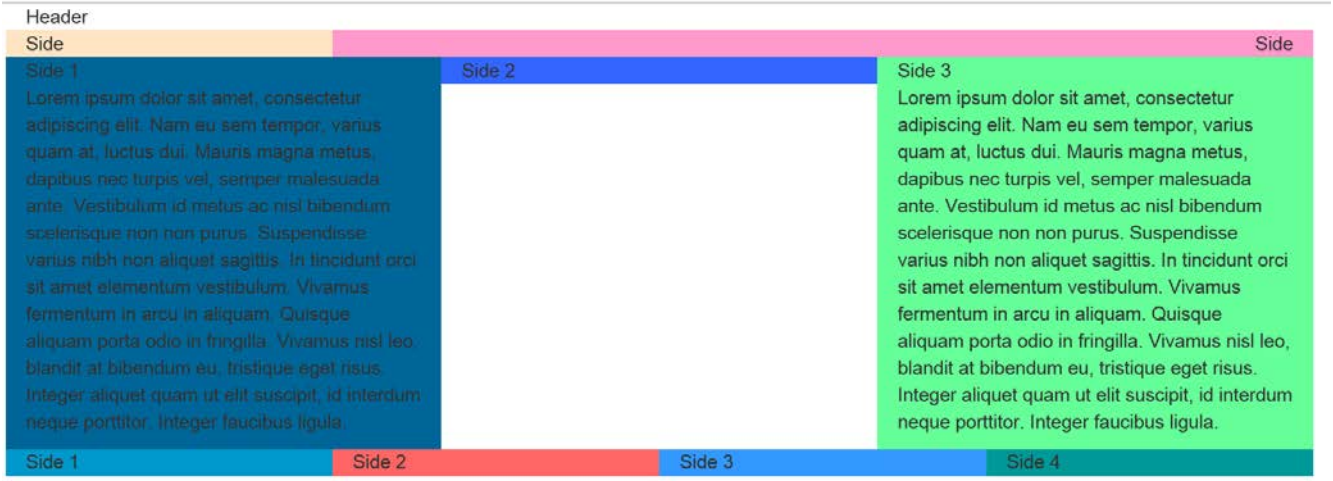
```
<body>
 <div class="container" style="background-color:lime;">
     <div class="row" style="background-color:aqua;" >
        <div class="col-xs-12">Header</div>
     </div>
    <div class="row" style="background-color:aqua;" >
        <div class="col-xs-3" style="background-color:bisque;">Side</div>
        <div class="col-xs-9" style="background-color:#FF99CC; text-align:right">Side</div>
    </div><!-- eo row -->
 </div>
</body>
```

Run this up and you should see:

Resize the browser, drag it to full screen to small size and watch what the containers do.
So, here we have a simple design. Let's add a few more rows to it and some text.

```
<div class="container">
    <div class="row">
        <div class="col-xs-12">Header</div>
    </div>
    <div class="row" >
        <div class="col-xs-3" style="background-color:bisque;">Side</div>
        <div class="col-xs-9" style="background-color:#FF99CC; text-align:right">Side</div>
    </div><!-- eo row -->
    <div class="row">
        <div class="col-xs-4" style="background-color:#006699;">Side 1
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam eu sem tempor, varius quam at, luctus dui. Mauris magna metus, dapibus nec turpis vel, semper malesuada ante. Vestibulum id metus ac nisl bibendum scelerisque non non purus. Suspendisse varius nibh non aliquet sagittis. In tincidunt orci sit amet elementum vestibulum. Vivamus fermentum in arcu in aliquam. Quisque aliquam porta odio in fringilla. Vivamus nisl leo, blandit at bibendum eu, tristique eget risus. Integer aliquet quam ut elit suscipit, id interdum neque porttitor. Integer faucibus ligula.</p>
        </div>
        <div class="col-xs-4" style="background-color:#3366FF;">Side 2</div>
        <div class="col-xs-4" style="background-color:#66FF99;">Side 3
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam eu sem tempor, varius quam at, luctus dui. Mauris magna metus, dapibus nec turpis vel, semper malesuada ante. Vestibulum id metus ac nisl bibendum scelerisque non non purus. Suspendisse varius nibh non aliquet sagittis. In tincidunt orci sit amet elementum vestibulum. Vivamus fermentum in arcu in aliquam. Quisque aliquam porta odio in fringilla. Vivamus nisl leo, blandit at bibendum eu, tristique eget risus. Integer aliquet quam ut elit suscipit, id interdum neque porttitor. Integer faucibus ligula.</p>
        </div>
    </div><!-- eo row -->
    <div class="row">
        <div class="col-xs-3" style="background-color:#0099CC;">Side 1</div>
        <div class="col-xs-3" style="background-color:#FF6666;">Side 2</div>
        <div class="col-xs-3" style="background-color:#3399FF;">Side 3</div>
        <div class="col-xs-3" style="background-color:#009999;">Side 4</div>

    </div><!-- eo row -->

</div>
```

This will produce this:

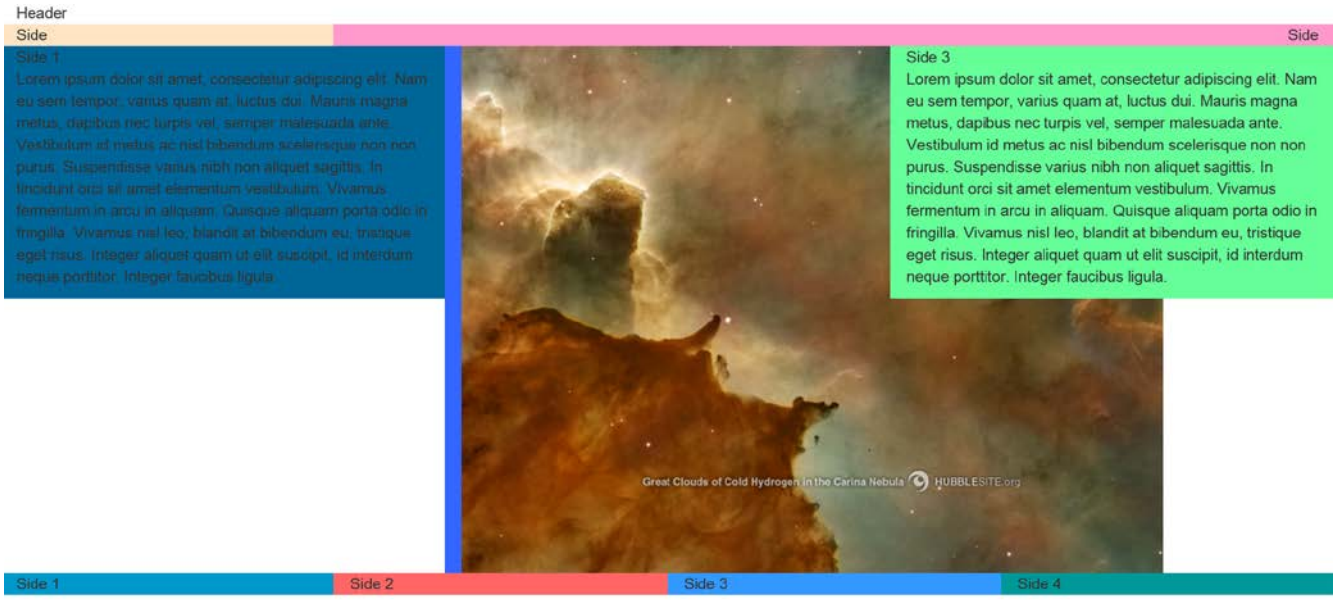


As you can see, the code is making it really simple to build sections in columns.
If you wanted to make the page full width, you would modify the to

Now, go grab an image and put it in the center div.

```
21      </div><!-- eo row -->
22      <div class="row">
23          <div class="col-xs-4" style="background-color:#006699;">Side 1
24  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam eu sem tempor, varius quam at, luctus dui. Mauris magna
    malesuada ante. Vestibulum id metus ac nisl bibendum scelerisque non non purus. Suspendisse varius nibh non aliquet sag
    elementum vestibulum. Vivamus fermentum in arcu in aliquam. Quisque aliquam porta odio in fringilla. Vivamus nisl leo,
    risus. Integer aliquet quam ut elit suscipit, id interdum neque porttitor. Integer faucibus ligula.</p>
25          </div>
26          <div class="col-xs-4" style="background-color:#3366FF;"><img src="images/gallery3.jpg" alt="Hubble pic"></div>
27          <div class="col-xs-4" style="background-color:#66FF99;">Side 3
28  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam eu sem tempor, varius quam at, luctus dui. Mauris magna
    malesuada ante. Vestibulum id metus ac nisl bibendum scelerisque non non purus. Suspendisse varius nibh non aliquet sag
    elementum vestibulum. Vivamus fermentum in arcu in aliquam. Quisque aliquam porta odio in fringilla. Vivamus nisl leo,
    risus. Integer aliquet quam ut elit suscipit, id interdum neque porttitor. Integer faucibus ligula.</p>
29          </div>
30      </div><!-- eo row -->
31      <div class="row">
```

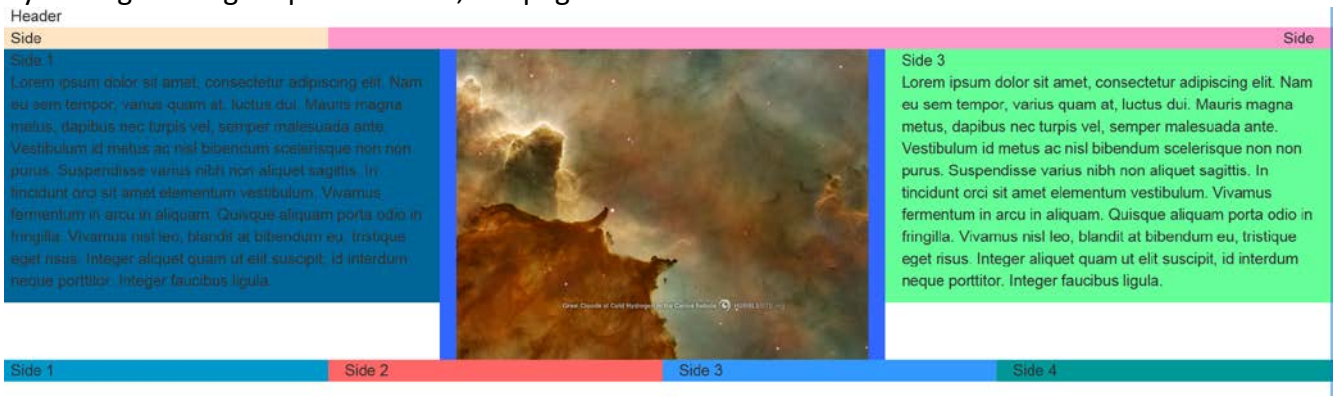
If you run this up, you will see that the image doesn’t conform to the design.



To make the image behave in a manner that we want, change the img line like so:

```
</div>
<div class="col-xs-4" style="background-color:#3366FF;"><img src="images/gallery3.jpg" alt="Hubble pic" class="img-responsive"></div>
<div class="col-xs-4" style="background-color:#66FF99;">Side 3
```

By adding the img-responsive class, the page should now look like this:



There are a lot more different parts that are modified, go to http://getbootstrap.com/css/ and take a look through the potential changes that you can make.

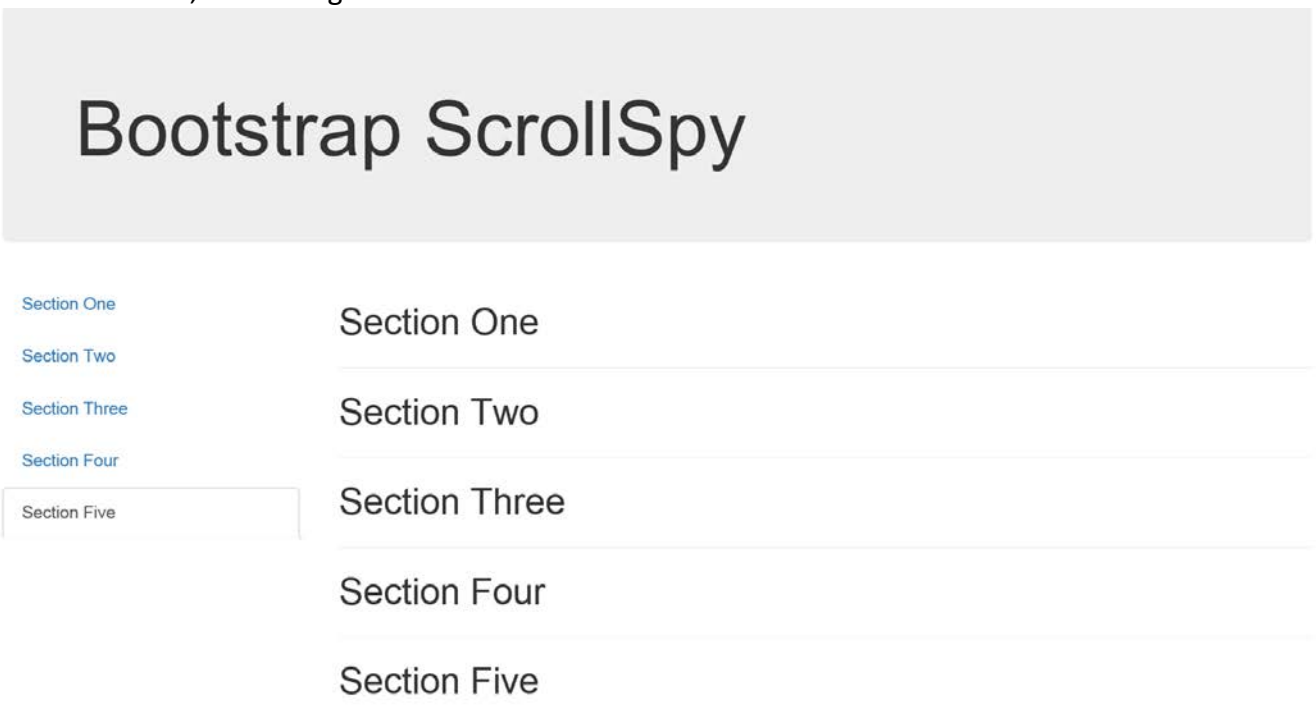
Now, let's start again, make a new page and put in the following code to link up the bootstrap files and grab yourself about 4 images to play with.

```
<!DOCTYPE html>
<html>

<head>
<meta content="text/html; charset=utf-8" http-equiv="Content-Type">
<link rel="stylesheet" href="css/bootstrap.min.css">
<link rel="stylesheet" href="css/bootstrap-theme.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/jquery.min.js"></script>
<script src="js/bootstrap.min.js"></script>

</head>

<body>
</body>

</html>

```

Once you have that, add the following and run it up:

```
<body data-spy="scroll" data-target="#myScrollspy">
<div class="container-fluid">
    <div class="jumbotron">
        <h1>Bootstrap ScrollSpy</h1>
    </div>
    <div class="row">
        <div class="col-xs-3" id="myScrollspy">
            <ul class="nav nav-tabs nav-stacked affix-top" data-spy="affix" data-offset-top="125">
                <li class="active"><a href="#section-1">Section One</a></li>
                <li><a href="#section-2">Section Two</a></li>
                <li><a href="#section-3">Section Three</a></li>
                <li><a href="#section-4">Section Four</a></li>
                <li><a href="#section-5">Section Five</a></li>
            </ul>
        </div>
        <div class="col-xs-9">
            <h2 id="section-1">Section One</h2>
            <hr>
            <h2 id="section-2">Section Two</h2>
            <hr>
            <h2 id="section-3">Section Three</h2>
            <hr>
            <h2 id="section-4">Section Four</h2>
            <hr>
            <h2 id="section-5">Section Five</h2>
        </div>
    </div>
</div>
</body>
```

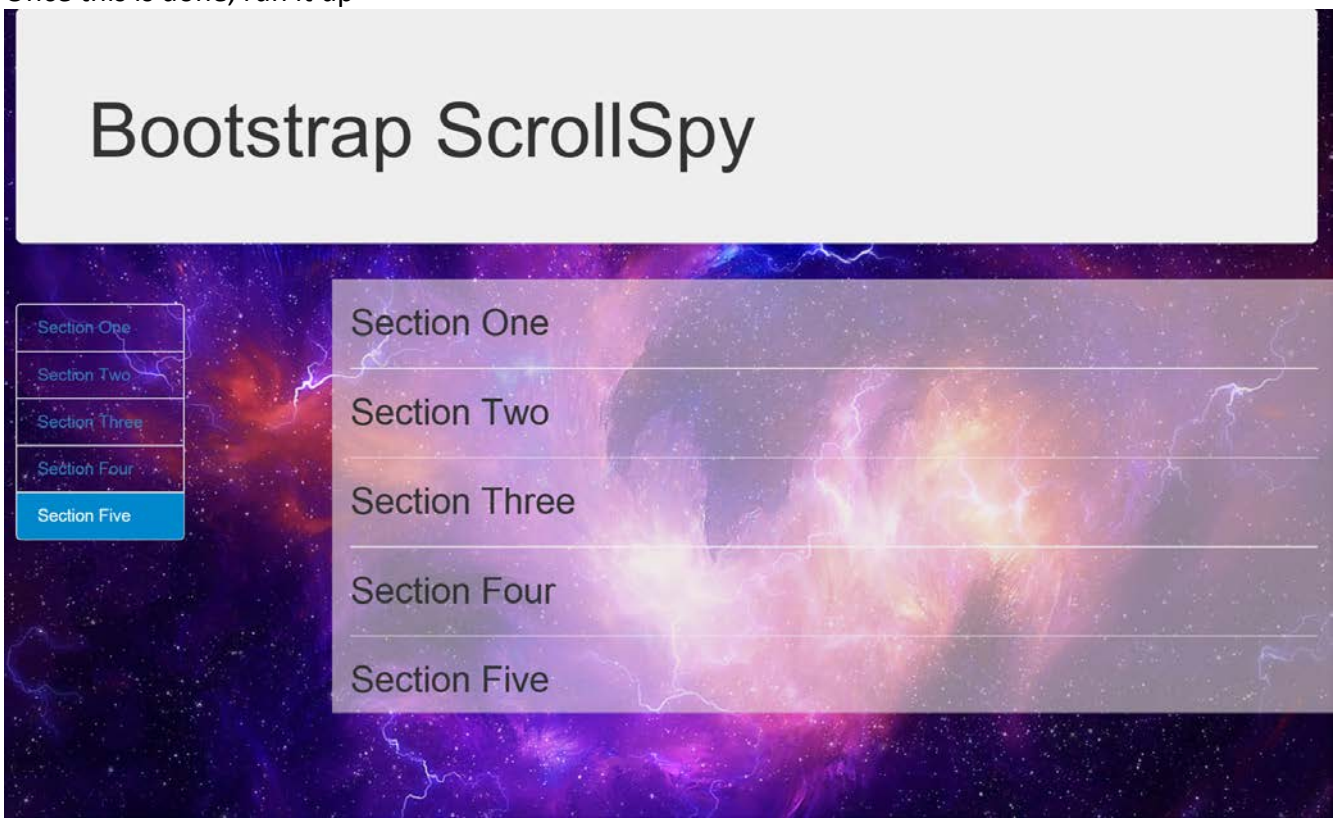
You should see, something like this:



Now we will add a little bit of styling to it:

```
<style type="text/css">
/* Custom Styles */
ul.nav-tabs {width: 140px;margin-top: 20px;border-radius: 4px;border: 1px solid #ddd;box-shadow: 0 1px 4px rgba(0, 0, 0, 0.067);}
ul.nav-tabs li {margin: 0;border-top: 1px solid #ddd;}
ul.nav-tabs li:first-child {border-top: none;}
ul.nav-tabs li a {margin: 0;padding: 8px 16px;border-radius: 0;}
ul.nav-tabs li.active a, ul.nav-tabs li.active a:hover {color: #fff;background: #0088cc;border: 1px solid #0088cc;}
ul.nav-tabs li:first-child a {border-radius: 4px 4px 0 0;}
ul.nav-tabs li:last-child a {border-radius: 0 0 4px 4px;}
ul.nav-tabs.affix {top: 30px; /* Set the top position of pinned element */}
body {background-image: url('images/background.jpg'); background-attachment: fixed; background-position: center center; background-size: cover;}
.col-xs-9{background-color: rgba(228, 217, 217, 0.60);}
</style>
</head>
```

Once this is done, run it up



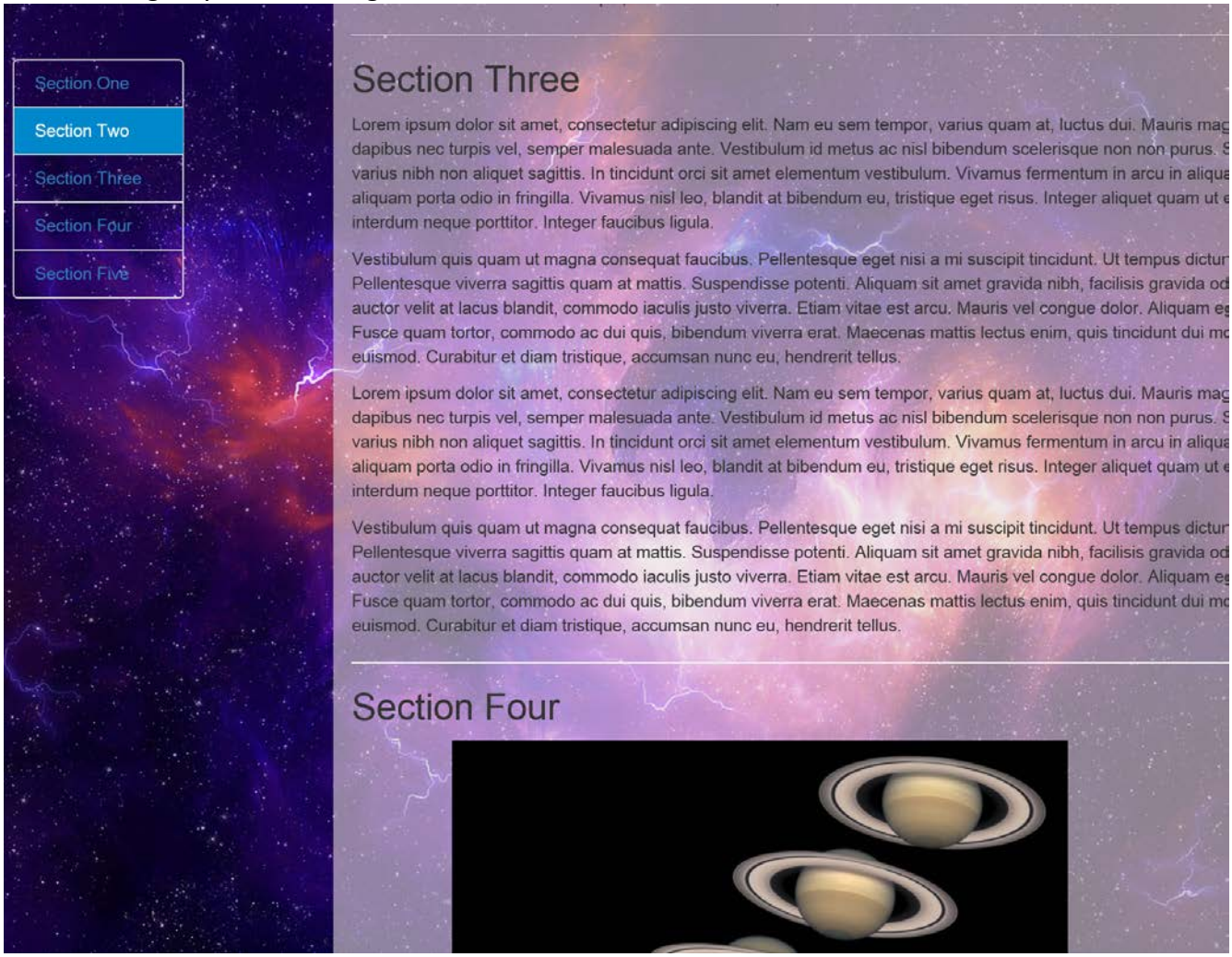
From here add some content to see it in action.

Sections 1,2,3,5 just put in a couple of paragraphs of lorem ipsum text. And in section 4, add some images.

Here's the code for section 3& 4, duplicate 3 for 1,2 and 5

```
54          <hr>
55          <h2 id="section-3">Section Three</h2>
56 <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam eu sem tempor, varius quam at, luctus dui. Mauris magna metus, dapibus nec turpis vel, semper malesuada ante. Vestibulum id metus ac nisl bibendum scelerisque non non purus. Suspendisse varius nibh non aliquet sagittis. In tincidunt orci sit amet elementum vestibulum. Vivamus fermentum in arcu in aliquam. Quisque aliquam porta odio in fringilla. Vivamus nisl leo, blandit at bibendum eu, tristique eget risus. Integer aliquet quam ut elit suscipit, id interdum neque porttitor. Integer faucibus ligula.</p>
57          <p>Vestibulum quis quam ut magna consequat faucibus. Pellentesque eget nisi a mi suscipit tincidunt. Ut tempus dictum risus. Pellentesque viverra sagittis quam at mattis. Suspendisse potenti. Aliquam sit amet gravida nibh, facilisis gravida odio. Phasellus auctor velit at lacus blandit, commodo iaculis justo viverra. Etiam vitae est arcu. Mauris vel congue dolor. Aliquam eget mi mi. Fusce quam tortor, commodo ac dui quis, bibendum viverra erat. Maecenas mattis lectus enim, quis tincidunt dui molestie euismod. Curabitur et diam tristique, accumsan nunc eu, hendrerit tellus.</p>
58 <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam eu sem tempor, varius quam at, luctus dui. Mauris magna metus, dapibus nec turpis vel, semper malesuada ante. Vestibulum id metus ac nisl bibendum scelerisque non non purus. Suspendisse varius nibh non aliquet sagittis. In tincidunt orci sit amet elementum vestibulum. Vivamus fermentum in arcu in aliquam. Quisque aliquam porta odio in fringilla. Vivamus nisl leo, blandit at bibendum eu, tristique eget risus. Integer aliquet quam ut elit suscipit, id interdum neque porttitor. Integer faucibus ligula.</p>
59          <p>Vestibulum quis quam ut magna consequat faucibus. Pellentesque eget nisi a mi suscipit tincidunt. Ut tempus dictum risus. Pellentesque viverra sagittis quam at mattis. Suspendisse potenti. Aliquam sit amet gravida nibh, facilisis gravida odio. Phasellus auctor velit at lacus blandit, commodo iaculis justo viverra. Etiam vitae est arcu. Mauris vel congue dolor. Aliquam eget mi mi. Fusce quam tortor, commodo ac dui quis, bibendum viverra erat. Maecenas mattis lectus enim, quis tincidunt dui molestie euismod. Curabitur et diam tristique, accumsan nunc eu, hendrerit tellus.</p>
60
61          <hr>
62          <h2 id="section-4">Section Four</h2>
63          <img src="images/gallery1.jpg" class="img-responsive col-xs-8 col-xs-offset-1" alt="Gallery">
64          <div style="clear: both; height: 10px; width: 100%;"></div>
65          <img src="images/gallery2.jpg" class="img-responsive col-xs-8 col-xs-offset-1" alt="Gallery">
66          <div style="clear: both; height: 10px; width: 100%;"></div>
67          <img src="images/gallery3.jpg" class="img-responsive col-xs-8 col-xs-offset-1" alt="Gallery">
68          <div style="clear: both;"></div>
69          <hr>
70          <h2 id="section-5">Section Five</h2>
```

This should give you something like this:



From here, you can either play with bootstrap more, or work on your assessments.