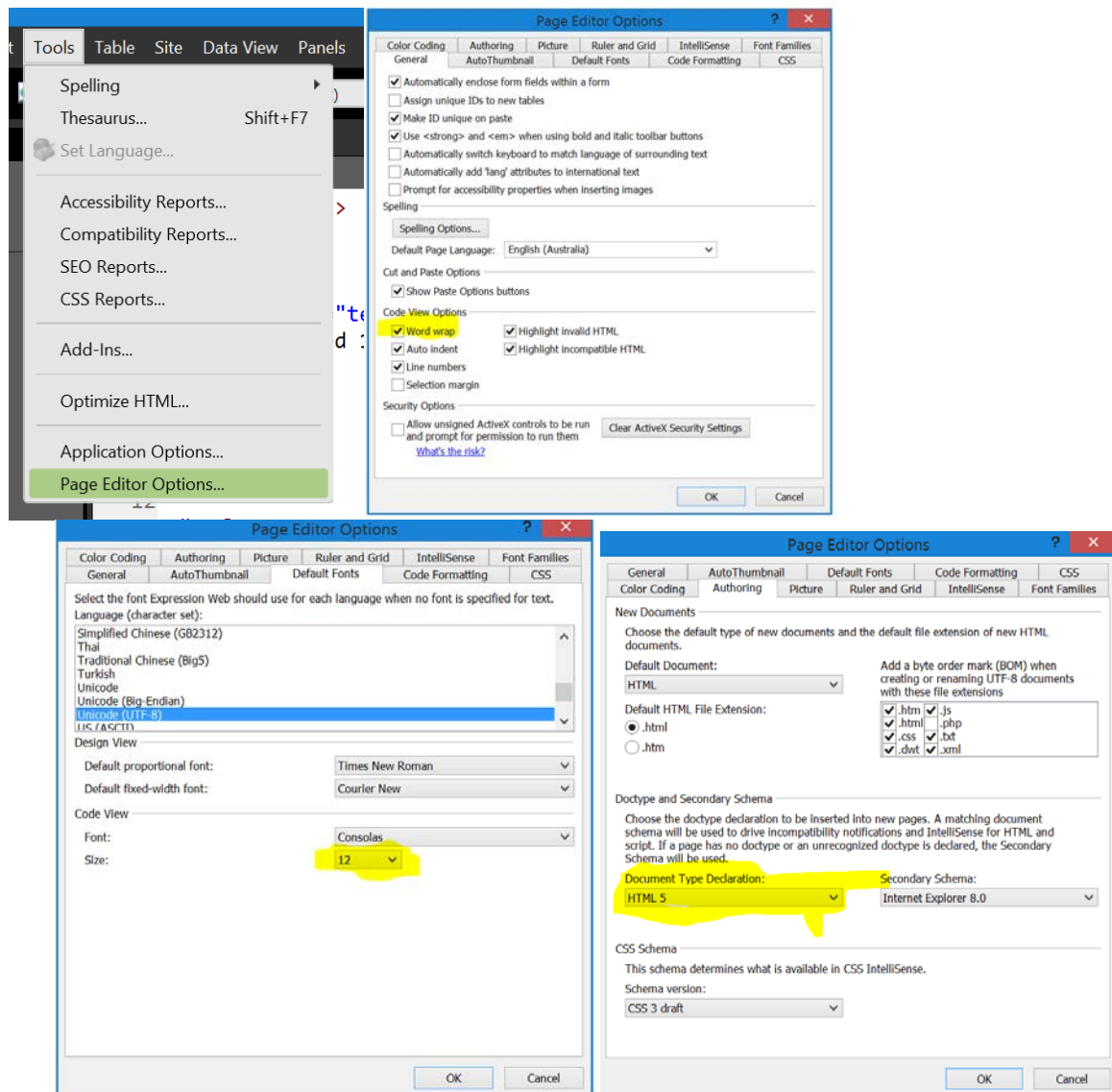# Parallax
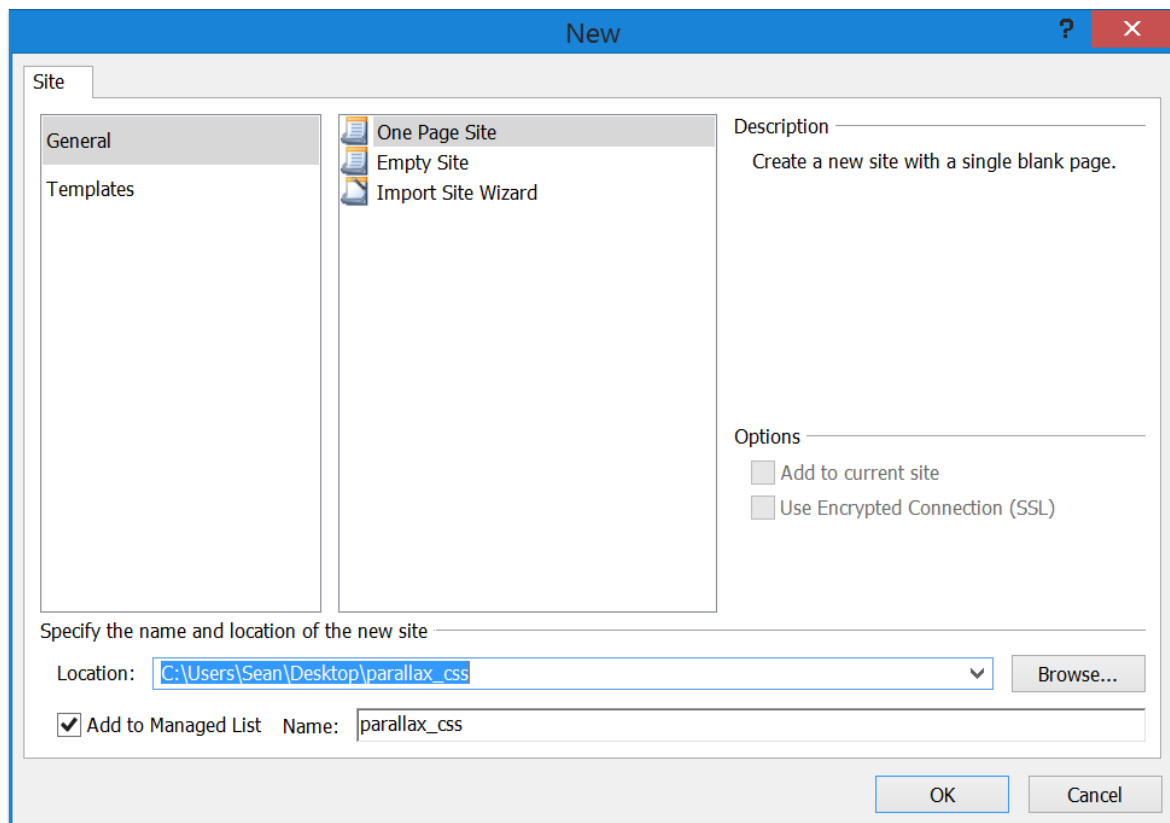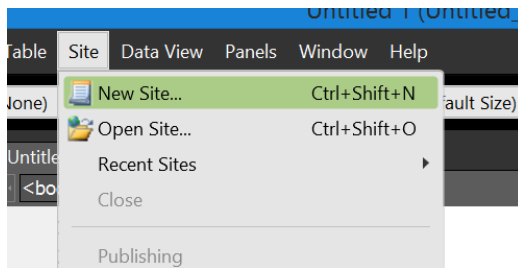
Today we are going to look at a single type of parallax website. The first one is designed by Keith Clark (http://keithclark.co.uk/articles/pure-css-parallax-websites/) this is a pure CSS parallax website. When modifying this, test it in all browsers, Internet Explorer, Chrome and firefox.
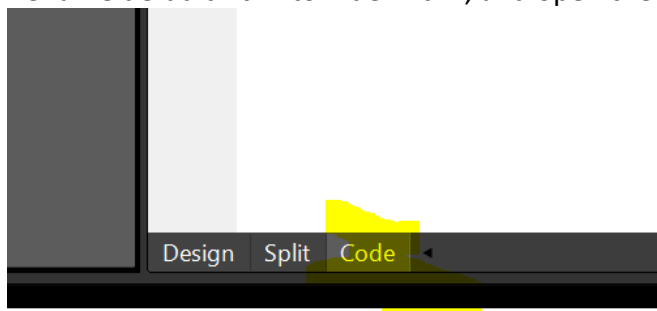
So, to start with open up expression web, and set up the configuration: tools -> Page editor Options

From here, then start a new site

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

From here, type in the following code

```html
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="utf-8">
5 <meta name="viewport" content="width=device-width">
6 <title>A grouped pure CSS parallax demo by Keith Clark</title>
7 <link href="css/parallax.css" type="text/css" rel="stylesheet">
8 </head>
9 <body>
10   <div class="parallax">
11     <div id="group1" class="parallax__group">
12       <div class="parallax__layer parallax__layer--base">
13         <div class="title">Base Layer</div>
14       </div>
15     </div>
16     <div id="group2" class="parallax__group">
17       <div class="parallax__layer parallax__layer--base">
18         <div class="title">Base Layer</div>
19       </div>
20       <div class="parallax__layer parallax__layer--back">
21         <div class="title">Background Layer</div>
22       </div>
23     </div>
24     <div id="group3" class="parallax__group">
25       <div class="parallax__layer parallax__layer--fore">
26         <div class="title">Foreground Layer</div>
27       </div>
28       <div class="parallax__layer parallax__layer--base">
29         <div class="title">Base Layer</div>
30       </div>
31     </div>
32     <div id="group4" class="parallax__group">
33       <div class="parallax__layer parallax__layer--base">
34         <div class="title">Base Layer</div>
35       </div>
36       <div class="parallax__layer parallax__layer--back">
37         <div class="title">Background Layer</div>
38       </div>
39       <div class="parallax__layer parallax__layer--deep">
40         <div class="title">Deep Background Layer</div>
41       </div>
42     </div>
43     <div id="group5" class="parallax__group">
44       <div class="parallax__layer parallax__layer--fore">
45         <div class="title">Foreground Layer</div>
46       </div>
47       <div class="parallax__layer parallax__layer--base">
48         <div class="title">Base Layer</div>
49       </div>
50     </div>
51     <div id="group6" class="parallax__group">
52       <div class="parallax__layer parallax__layer--back">
53         <div class="title">Background Layer</div>
54       </div>
55       <div class="parallax__layer parallax__layer--base">
56         <div class="title">Base Layer</div>
57       </div>
58     </div>
59     <div id="group7" class="parallax__group">
60       <div class="parallax__layer parallax__layer--base">
61         <div class="title">Base Layer</div>
62       </div>
63     </div>
64   </div>
```
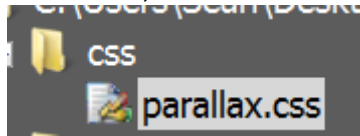
        <- Note that lines 62,64 and 64 have been duplicated, don't do that just add the

</body></html>

From here, create css folder and then a blank css file called parallax.css

Now type in the following code

```css
/* Parallax base styles
   --------------------------------------------- */

.parallax {
  height: 500px; /* fallback for older browsers */
  height: 100vh;
  overflow-x: hidden;
  overflow-y: auto;
  -webkit-perspective: 300px;
  perspective: 300px;
}

.parallax__group {
  position: relative;
  height: 500px; /* fallback for older browsers */
  height: 100vh;
  -webkit-transform-style: preserve-3d;
  transform-style: preserve-3d;
}

.parallax__layer {
  position: absolute;
  top: 0;
  left: 0;
  right: 0;
  bottom: 0;
}

.parallax__layer--fore {
  -webkit-transform: translateZ(90px) scale(.7);
  transform: translateZ(90px) scale(.7);
  z-index: 1;
}

.parallax__layer--base {
  -webkit-transform: translateZ(0);
  transform: translateZ(0);
  z-index: 4;
}

.parallax__layer--back {
  -webkit-transform: translateZ(-300px) scale(2);
  transform: translateZ(-300px) scale(2);
  z-index: 3;
}

.parallax__layer--deep {
  -webkit-transform: translateZ(-600px) scale(3);
  transform: translateZ(-600px) scale(3);
  z-index: 2;
}
```

```css
52

53
    /* Debugger styles - used to show the effect
54
    -------------------------------------------- */
55

56
    .debug {
57
      position: fixed;
58
      top: 0;
59
      left: .5em;
60
      z-index: 999;
61
      background: rgba(0,0,0,.85);
62
      color: #fff;
63
      padding: .5em;
64
      border-radius: 0 0 5px 5px;
65
    }
66
    .debug-on .parallax__group {
67
      -webkit-transform: translate3d(800px, 0, -800px) rotateY(30deg);
68
      transform: translate3d(700px, 0, -800px) rotateY(30deg);
69
    }
70
    .debug-on .parallax__layer {
71
      box-shadow: 0 0 0 2px #000;
72
      opacity: 0.9;
73
    }
74
    .parallax__group {
75
      -webkit-transition: -webkit-transform 0.5s;
76
      transition: transform 0.5s;
77
    }
78

79

80
    /* demo styles
81
    -------------------------------------------- */
82

83
    body, html {
84
      overflow: hidden;
85
    }
86

87
    body {
88
      font: 100% / 1.5 Arial;
89
    }
90

91
    * {
92
      margin:0;
93
      padding:0;
94
    }
95

96
    .parallax {
97
      font-size: 200%;
98
    }
99
100
```

```
100
101     /* centre the content in the parallax layers */
102     .title {
103       text-align: center;
104       position: absolute;
105       left: 50%;
106       top: 50%;
107       -webkit-transform: translate(-50%, -50%);
108       transform: translate(-50%, -50%);
109     }
110
111
112
113     /* style the groups
114     -------------------------------------------- */
115
116     #group1 {z-index: 5; /* slide over group 2 */}
117     #group1 .parallax__layer--base {background: rgb(102,204,102);}
118     #group2 {z-index: 3; /* slide under groups 1 and 3 */ }
119     #group2 .parallax__layer--back {background: rgb(123,210,102);}
120     #group3 {z-index: 4; /* slide over group 2 and 4 */}
121     #group3 .parallax__layer--base {background: rgb(153,216,101);}
122     #group4 {z-index: 2; /* slide under group 3 and 5 */}
123     #group4 .parallax__layer--deep {background: rgb(184,223,101);}
124     #group5 {z-index: 3; /* slide over group 4 and 6 */}
125     #group5 .parallax__layer--base {background: rgb(214,229,100);}
126     #group6 {z-index: 2; /* slide under group 5 and 7 */}
127     #group6 .parallax__layer--back { background: rgb(245,235,100);}
128     #group7 {z-index: 3; /* slide over group 7 */}
129     #group7 .parallax__layer--base {background: rgb(255,241,100);}
130
131
132     /* misc
133     -------------------------------------------- */
134     .demo__info {
135       position: absolute;
136       z-index:100;
137       bottom: 1vh;
138       top: auto;
139       font-size:80%;
140       text-align:center;
141       width: 100%;
142     }
```

Once this is done, run it up and test it.

Remember to check it in different browsers.

Now from here, we are going to add the images
Go to L@G ->Course content - > Tutorials -> Week 11
Download the images and extract them into the root folder so you can access them.

Don't read any further, look at the code and then place the images into the background positions. If you can't figure it out, continue on.

Now, make the following changes:

```
113  /* style the groups
114  ------------------------------------------- */
115
116  #group1 {z-index: 5; /* slide over group 2 */}
117  #group1 .parallax__layer--base {background: rgb(102,204,102); background-image:url('../dune.jpg'); background-size:cover;}
118  #group2 {z-index: 3; /* slide under groups 1 and 3 */ }
119  #group2 .parallax__layer--back {background: rgb(123,210,102);background-image:url('../leaf.jpg'); background-size:cover;}
120  #group3 {z-index: 4; /* slide over group 2 and 4 */}
121  #group3 .parallax__layer--base {background: rgb(153,216,101);background-image:url('../sunset.jpg'); background-size:cover;}
122  #group4 {z-index: 2; /* slide under group 3 and 5 */}
123  #group4 .parallax__layer--deep {background: rgb(184,223,101);background-image:url('../dune.jpg'); background-size:cover;}
124  #group5 {z-index: 3; /* slide over group 4 and 6 */}
125  #group5 .parallax__layer--base {background: rgb(214,229,100);background-image:url('../leaf.jpg'); background-size:cover;}
126  #group6 {z-index: 2; /* slide under group 5 and 7 */}
127  #group6 .parallax__layer--back { background: rgb(245,235,100);background-image:url('../sunset.jpg'); background-size:cover;}
128  #group7 {z-index: 3; /* slide over group 7 */}
129  #group7 .parallax__layer--base {background: rgb(255,241,100);background-image:url('../dune.jpg'); background-size:cover;}
130
```

When you are playing with this, you will probably find that firefox is the best browser.

From here, play with the divs that contain content or work on your assessments.