MARCH 6, 2022

FLEX HOMEWORK
STRUCTURE AND LAYOUT

BOBAN SREZOVSKI
CODE ADACEMY
Street: Anton Popov no.33
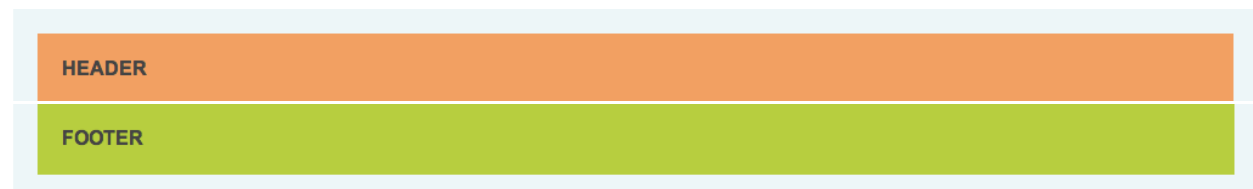
Table of Contents

FLEX SOLUTIONS

SOLUTION 01

This example has been done for you. It's a fairly common 2-column layout with a header and a footer.

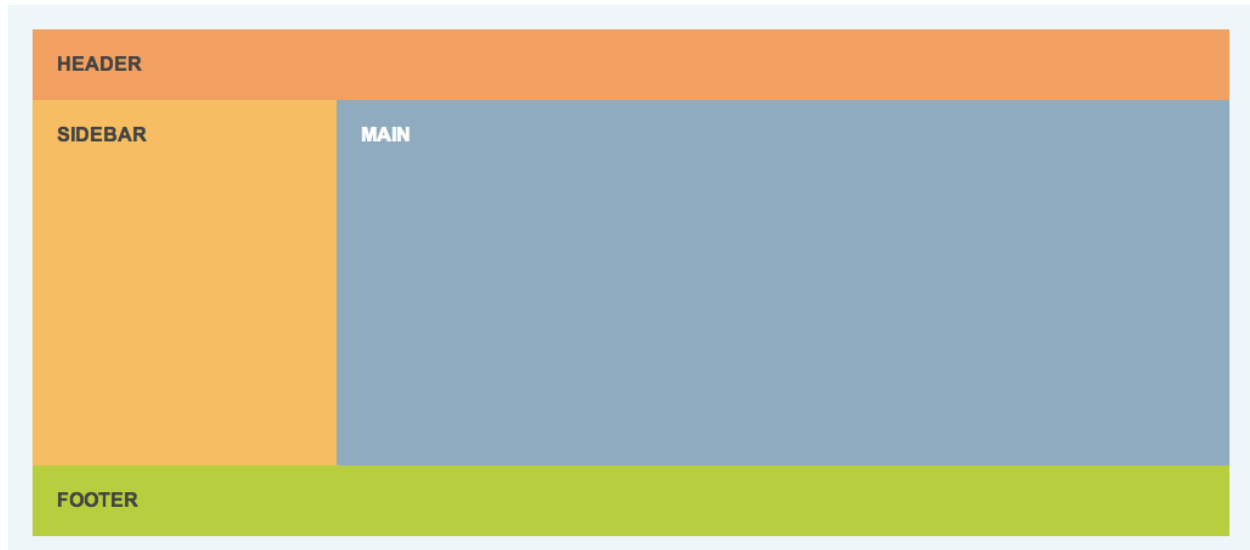
```
Example2 > <> example.html > html > body > header
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
7        <title>Document</title>
8        <link rel="stylesheet" href="./example.css">
9    </head>
10   <body>
11       <header>HEADER</header>
12       <aside>SIDEBAR</aside>
13       <main>MAIN</main>
14       <footer>FOOTER</footer>
15   </body>
16   </html>
```

```
Example1 > # example.css > header
1    header {
2        background-color: #f2a062;
3        padding: 15px;
4    }
5
6    footer {
7        background-color: #b7ce3f;
8        padding: 15px;
9    }
```

SOLUTION 02

Make me look like Example 01; a sidebar and main content floated next to each other with a cleared footer.


```
Example2 > <> example.html > @ html > @ body > @ header
 1    <!DOCTYPE html>
 2    <html lang="en">
 3    <head>
 4        <meta charset="UTF-8">
 5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
 6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
 7        <title>Document</title>
 8        <link rel="stylesheet" href="./example.css">
 9    </head>
10    <body>
11        <header>HEADER</header>
12        <aside>SIDEBAR</aside>
13        <main>MAIN</main>
14        <footer>FOOTER</footer>
15    </body>
16    </html>
```

```css
Example2 > # example.css > ...
  1   * {
  2       box-sizing: border-box;
  3       font-weight: bold;
  4       padding: 15px;
  5   }
  6
  7   body {
  8       background-color: #edf6f8;
  9       display: flex;
 10       flex-wrap: wrap;
 11   }
 12
 13   header {
 14       background-color: #f2a062;
 15       width: 100%;
 16   }
 17
 18   aside {
 19       background-color: #f6bd62;
 20       width: 20%;
 21       height: 400px;
 22   }
 23
 24   main {
 25       background-color: #8eabc0;
 26       color: white;
 27       width: 80%;
 28       height: 400px;
 29   }
 30
 31   footer {
 32       background-color: #b7ce3f;
 33       width: 100%;
 34   }
```

SOLUTION 03

Make me look like Example 01, but with the sidebar on the right.


```
Example3 > <> example.html > </> html
  1   <!DOCTYPE html>
  2   <html lang="en">
  3   <head>
  4       <meta charset="UTF-8">
  5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
  6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
  7       <title>Document</title>
  8       <link rel="stylesheet" href="./example.css">
  9   </head>
 10   <body>
 11       <header>HEADER</header>
 12       <main>MAIN</main>
 13       <aside>SIDEBAR</aside>
 14       <footer>FOOTER</footer>
 15   </body>
 16   </html>
```

```
Example3 > # example.css > aside
  1    * {
  2        box-sizing: border-box;
  3        font-weight: bold;
  4        padding: 15px;
  5    }
  6
  7    body {
  8        background-color: #edf6f8;
  9        display: flex;
 10        flex-wrap: wrap;
 11    }
 12
 13    header {
 14        background-color: #f2a062;
 15        width: 100%;
 16    }
 17
 18    aside {
 19        background-color: #f6bd62;
 20        width: 20%;
 21        height: 400px;
 22    }
 23
 24    main {
 25        background-color: #8eabc0;
 26        color: white;
 27        width: 80%;
 28        height: 400px;
 29    }
 30
 31    footer {
 32        background-color: #b7ce3f;
 33        width: 100%;
 34    }
 35
```

SOLUTION 04

Make me look like Example 01. Float the logo to the left of the header and navigation all the way to the right. Make sure the header contains them!


```
Example4 > <> example.html > ⊗ html > ⊗ body
  1   <!DOCTYPE html>
  2   <html lang="en">
  3   <head>
  4       <meta charset="UTF-8">
  5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
  6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
  7       <title>Document</title>
  8       <link rel="stylesheet" href="./example.css">
  9   </head>
 10   <body>
 11       <header>
 12           <section>LOGO</section>
 13           <nav>NAVIGATION</nav>
 14       </header>
 15       <aside>SIDEBAR</aside>
 16       <main>MAIN</main>
 17       <footer>FOOTER</footer>
 18   </body>
 19   </html>
```
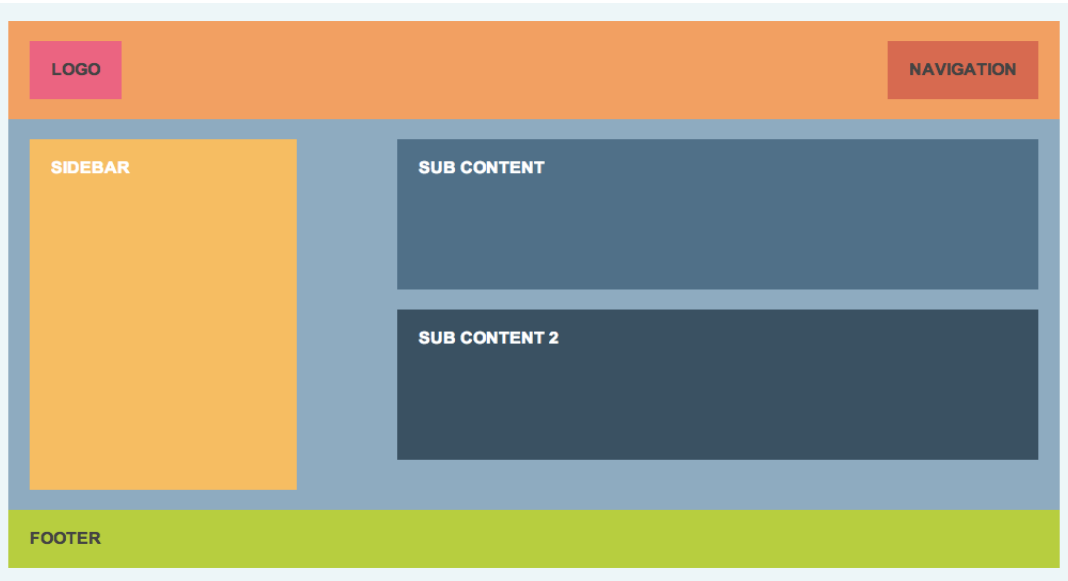
```
Example4 > # example.css > ...
  1    * {
  2        box-sizing: border-box;
  3        font-weight: bold;
  4        padding: 15px;
  5    }
  6
  7    body {
  8        background-color: #edf6f8;
  9        display: flex;
 10        flex-wrap: wrap;
 11    }
 12
 13    header {
 14        background-color: #f2a062;
 15        width: 100%;
 16        display: flex;
 17        justify-content: space-between;
 18    }
 19
 20    header section {
 21        background-color: #eb6481;
 22    }
 23
 24    header nav {
 25        background-color: #d76a50;
 26    }
 27
 28    aside {
 29        background-color: #f6bd62;
 30        width: 20%;
 31        height: 400px;
 32    }
 33
 34    main {
 35        background-color: #8eabc0;
 36        color: white;
 37        width: 80%;
 38        height: 400px;
 39    }
 40
 41    footer {
 42        background-color: #b7ce3f;
 43        width: 100%;
 44    }
```

SOLUTION 05

Float the logo left and nav right in the header. Then make the sidebar float to the left of the two sub content divs, which should stack on top of each other. The footer should clear.


```
Example5 > <> example.html > ...
  1   <!DOCTYPE html>
  2   <html lang="en">
  3
  4   <head>
  5       <meta charset="UTF-8">
  6       <meta http-equiv="X-UA-Compatible" content="IE=edge">
  7       <meta name="viewport" content="width=device-width, initial-scale=1.0">
  8       <title>Document</title>
  9       <link rel="stylesheet" href="./example.css">
 10   </head>
 11
 12   <body>
 13       <header>
 14           <section>LOGO</section>
 15           <nav>NAVIGATION</nav>
 16       </header>
 17
 18       <main>
 19           <aside>SIDEBAR</aside>
 20
 21           <section>
 22               <article>SUB CONTENT</article>
 23               <article>SUB CONTENT 2</article>
 24           </section>
 25       </main>
 26
 27       <footer>FOOTER</footer>
 28   </body>
 29
 30   </html>
```
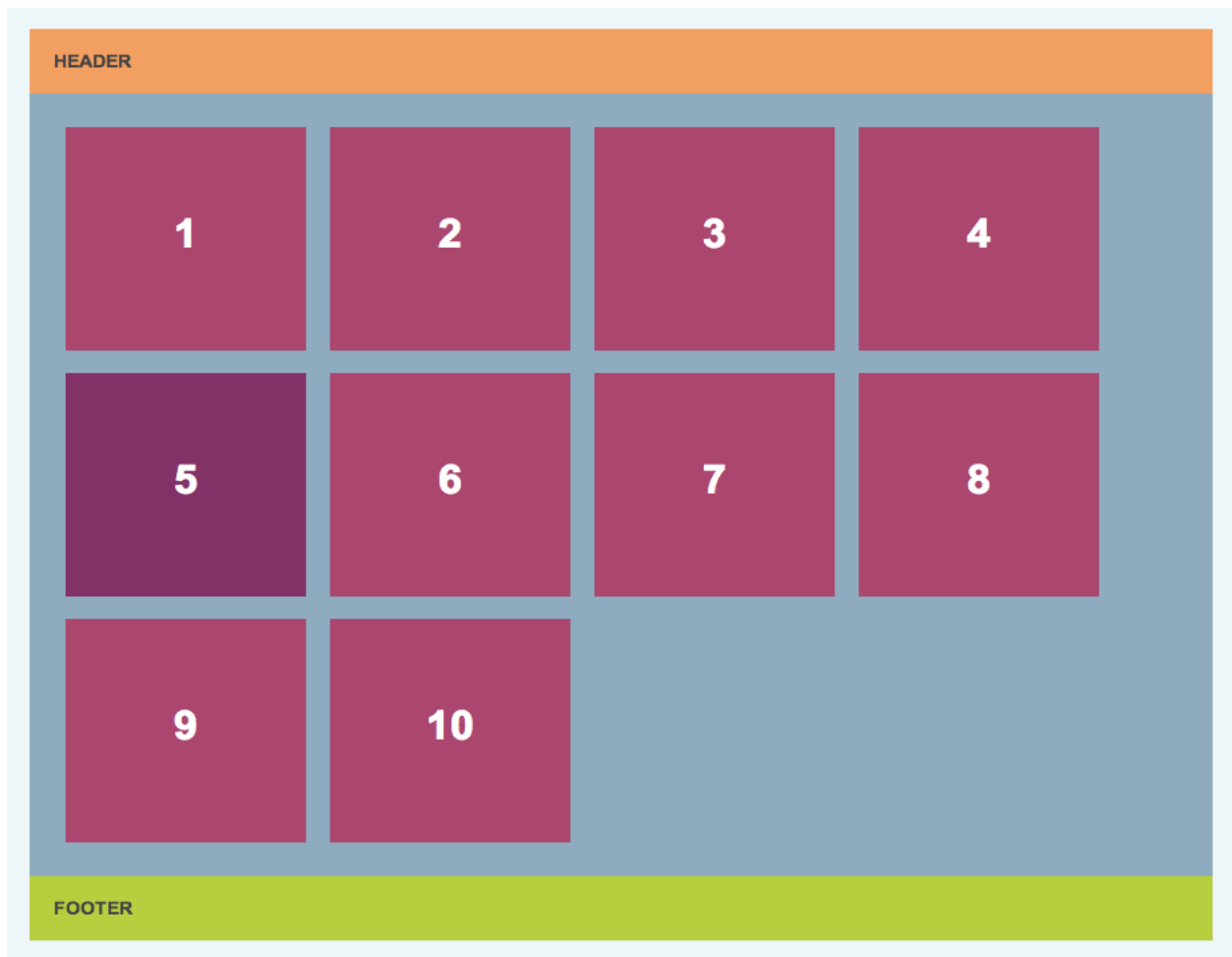
```
Example5 > # example.css > ...
  1    * {
  2      box-sizing: border-box;
  3      font-weight: bold;
  4      padding: 15px;
  5    }
  6
  7    body {
  8      background-color: #edf6f8;
  9      display: flex;
 10      flex-wrap: wrap;
 11    }
 12
 13    header {
 14      background-color: #f2a062;
 15      width: 100%;
 16      display: flex;
 17      justify-content: space-between;
 18    }
 19
 20    header section {
 21      background-color: #eb6481;
 22    }
 23
 24    header nav {
 25      background-color: #d76a50;
 26    }
 27
 28    main {
 29      background-color: #8eabc0;
 30      color: white;
 31      width: 100%;
 32      display: flex;
 33      justify-content: space-between;
 34    }
```

```
35
36     main aside {
37        background-color: ▇#f6bd62;
38        width: 20%;
39        height: 400px;
40     }
41
42     main section {
43        width: 70%;
44     }
45
46     main section article {
47        height: 170px;
48        margin-bottom: 15px;
49     }
50
51     main section article:first-child {
52        background-color: ▢#507088;
53     }
54
55     main section article:last-child {
56        background-color: ▢#3a5162;
57     }
58
59     footer {
60        background-color: ▇#b7ce3f;
61        width: 100%;
62     }
63
```

FLEX Homework

SOLUTION 06

```
Example6 > <> example.html > </> html > </> body > </> main > </> article
  1    <!DOCTYPE html>
  2    <html lang="en">
  3
  4    <head>
  5        <meta charset="UTF-8">
  6        <meta http-equiv="X-UA-Compatible" content="IE=edge">
  7        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  8        <title>Document</title>
  9        <link rel="stylesheet" href="./example.css">
 10    </head>
 11
 12    <body>
 13        <header>HEADER</header>
 14
 15        <main>
 16            <article>1</article>
 17            <article>2</article>
 18            <article>3</article>
 19            <article>4</article>
 20            <article class="selected">5</article>
 21            <article>6</article>
 22            <article>7</article>
 23            <article>8</article>
 24            <article>9</article>
 25            <article>10</article>
 26        </main>
 27
 28        <footer>FOOTER</footer>
 29    </body>
 30
 31    </html>
```
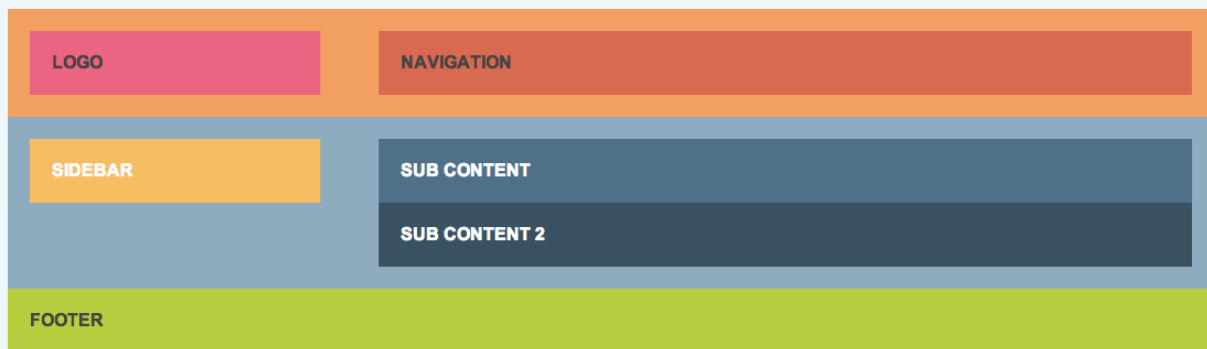
```
Example6 > # example.css > ...
  1    * {
  2        box-sizing: border-box;
  3        font-weight: bold;
  4        padding: 15px;
  5    }
  6
  7    body {
  8        background-color: #edf6f8;
  9        display: flex;
 10        flex-wrap: wrap;
 11    }
 12
 13    header {
 14        background-color: #f2a062;
 15        width: 100%;
 16    }
 17
 18    main {
 19        background-color: #8eabc0;
 20        color: white;
 21        width: 100%;
 22        display: flex;
 23        flex-wrap: wrap;
 24    }
 25
 26    main article {
 27        background-color: #ab476f;
 28        box-sizing: border-box;
 29        width: 20%;
 30        text-align: center;
 31        font-size: 32px;
 32        padding: 100px;
 33        margin: 15px;
 34    }
 35
 36    main .selected {
 37        background-color: #823267;
 38    }
 39
 40    footer {
 41        background-color: #b7ce3f;
 42        width: 100%;
 43    }
```

SOLUTION 07

Make me look like Example 05, with the stacked sub-content divs floated beside the sidebar. This time, use fluid percentage widths instead of pixel values! See what happens when you resize your browser window. Where does it break?


```
Example7 > <> example.html > ⊘ html > ⊘ body > ⊘ header > ⊘ section
  1    <!DOCTYPE html>
  2  ∨ <html lang="en">
  3
  4  ∨ <head>
  5        <meta charset="UTF-8">
  6        <meta http-equiv="X-UA-Compatible" content="IE=edge">
  7        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  8        <title>Document</title>
  9        <link rel="stylesheet" href="./example.css">
 10    </head>
 11
 12  ∨ <body>
 13  ∨    <header>
 14          <section>LOGO</section>
 15          <nav>NAVIGATION</nav>
 16      </header>
 17
 18  ∨    <main>
 19          <aside>SIDEBAR</aside>
 20
 21  ∨        <section>
 22              <article>SUB CONTENT</article>
 23              <article>SUB CONTENT 2</article>
 24          </section>
 25      </main>
 26
 27      <footer>FOOTER</footer>
 28    </body>
 29
 30    </html>
```
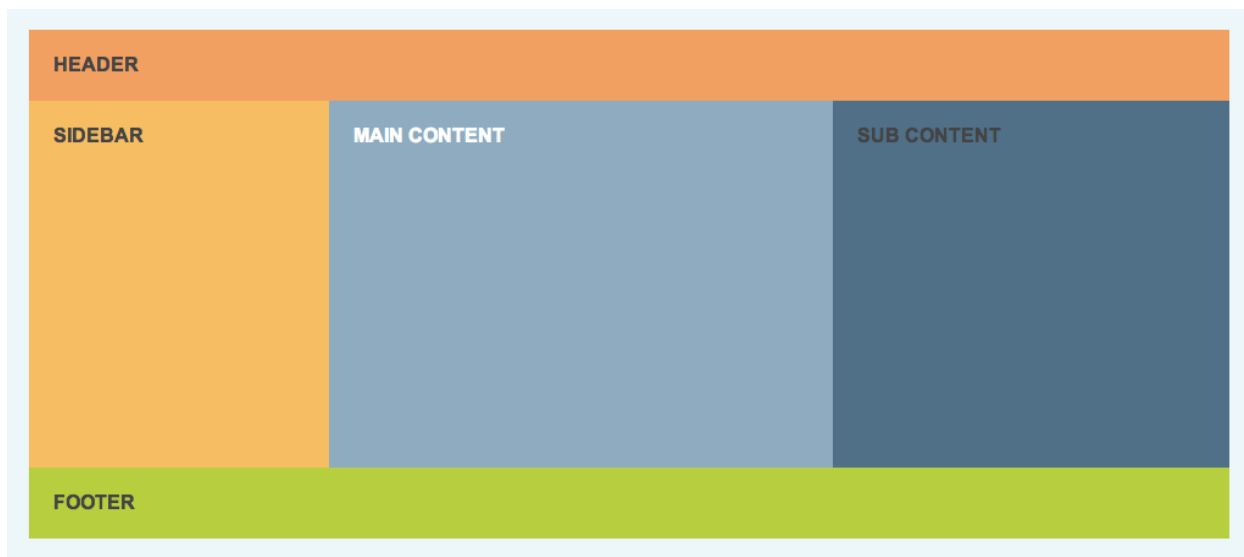
```
Example7 > # example.css > ⌗ main section article:last-child
  1    * {
  2        box-sizing: border-box;
  3        font-weight: bold;
  4        padding: 15px;
  5    }
  6
  7    body {
  8        background-color: ■#edf6f8;
  9        display: flex;
 10        flex-wrap: wrap;
 11    }
 12
 13    header {
 14        background-color: ■#f2a062;
 15        width: 100%;
 16        display: flex;
 17        justify-content: space-between;
 18    }
 19
 20    header section {
 21        background-color: ■#eb6481;
 22        width: 20%;
 23    }
 24
 25    header nav {
 26        background-color: ■#d76a50;
 27        width: 70%;
 28    }
 29
 30    main {
 31        background-color: ■#8eabc0;
 32        color: ■white;
 33        width: 100%;
 34        display: flex;
 35        justify-content: space-between;
 36    }
```

```
37
38  ⌄     main aside {
39            background-color: ⬜#f6bd62;
40            width: 20%;
41            height: fit-content;
42         }
43
44  ⌄     main section {
45            width: 70%;
46            padding: 0;
47         }
48
49  ⌄     main section article:first-child {
50            background-color: ⬜#507088;
51         }
52
53  ⌄     main section article:last-child {
54            background-color: ⬜#3a5162;
55         }
56
57  ⌄     footer {
58            background-color: ⬜#b7ce3f;
59            width: 100%;
60         }
61
```

SOLUTION 08

Make a 3 column layout.


```
Example8 > <> example.html > ⊘ html
  1    <!DOCTYPE html>
  2  ∨ <html lang="en">
  3  ∨ <head>
  4        <meta charset="UTF-8">
  5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
  6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  7        <title>Document</title>
  8        <link rel="stylesheet" href="./example.css">
  9    </head>
 10  ∨ <body>
 11        <header>HEADER</header>
 12        <aside>SIDEBAR</aside>
 13        <main>MAIN</main>
 14        <article>SUB CONTENT</article>
 15        <footer>FOOTER</footer>
 16    </body>
 17    </html>
```
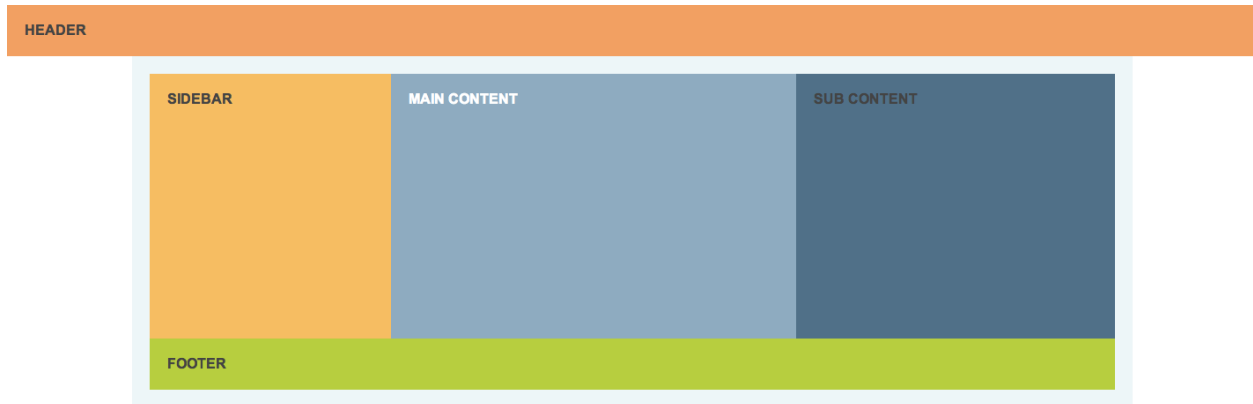
```css
Example8 > # example.css > ...
  1   * {
  2       box-sizing: border-box;
  3       font-weight: bold;
  4       padding: 15px;
  5   }
  6
  7   body {
  8       background-color: #edf6f8;
  9       display: flex;
 10       flex-wrap: wrap;
 11   }
 12
 13   header {
 14       background-color: #f2a062;
 15       width: 100%;
 16   }
 17
 18   aside {
 19       background-color: #f6bd62;
 20       width: 20%;
 21       height: 400px;
 22   }
 23
 24   main {
 25       background-color: #8eabc0;
 26       color: white;
 27       width: 50%;
 28       height: 400px;
 29   }
 30
 31   article {
 32       background-color: #3a5162;
 33       width: 30%;
 34       height: 400px;
 35   }
 36
 37   footer {
 38       background-color: #b7ce3f;
 39       width: 100%;
 40   }
```

SOLUTION 09

Make a 3 column layout like Example 08, but make the header the full width of the browser, not just the container div. This one will require writing and deleting some HTML, too!


```
Example9 > <> example.html > ⊗ html
 1    <!DOCTYPE html>
 2    <html lang="en">
 3
 4    <head>
 5        <meta charset="UTF-8">
 6        <meta http-equiv="X-UA-Compatible" content="IE=edge">
 7        <meta name="viewport" content="width=device-width, initial-scale=1.0">
 8        <title>Document</title>
 9        <link rel="stylesheet" href="./example.css">
10    </head>
11
12    <body>
13        <header>HEADER</header>
14
15        <section>
16            <aside>SIDEBAR</aside>
17            <main>MAIN</main>
18            <article>SUB CONTENT</article>
19            <footer>FOOTER</footer>
20        </section>
21
22
23    </body>
24
25    </html>
```

```
Example9 > # example.css > ...
  1    * {
  2        box-sizing: border-box;
  3        font-weight: bold;
  4        padding: 15px;
  5    }
  6
  7    body {
  8        background-color: #edf6f8;
  9        display: flex;
 10        flex-wrap: wrap;
 11    }
 12
 13    header {
 14        background-color: #f2a062;
 15        width: 100%;
 16    }
 17
 18    section {
 19        width: 80%;
 20        margin: 0 auto;
 21        display: flex;
 22        flex-wrap: wrap;
 23    }
 24
 25    section aside {
 26        background-color: #f6bd62;
 27        width: 20%;
 28        height: 400px;
 29    }
 30
 31    section main {
 32        background-color: #8eabc0;
 33        color: white;
 34        width: 50%;
 35        height: 400px;
 36    }
 37
 38    section article {
 39        background-color: #3a5162;
 40        width: 30%;
 41        height: 400px;
 42    }
 43
 44    section footer {
 45        background-color: #b7ce3f;
 46        width: 100%;
 47    }
```

SOLUTION 10

Make the header *and* footer the full page width, but keep the sidebar and content divs constrained.


```
Example10 > <> example.html > ⊘ html > ⊘ body > ⊘ section
   1    <!DOCTYPE html>
   2    <html lang="en">
   3
   4    <head>
   5        <meta charset="UTF-8">
   6        <meta http-equiv="X-UA-Compatible" content="IE=edge">
   7        <meta name="viewport" content="width=device-width, initial-scale=1.0">
   8        <title>Document</title>
   9        <link rel="stylesheet" href="./example.css">
  10    </head>
  11
  12    <body>
  13        <header>HEADER</header>
  14
  15        <section>
  16            <aside>SIDEBAR</aside>
  17            <main>MAIN</main>
  18        </section>
  19
  20        <footer>FOOTER</footer>
  21
  22    </body>
  23
  24    </html>
```
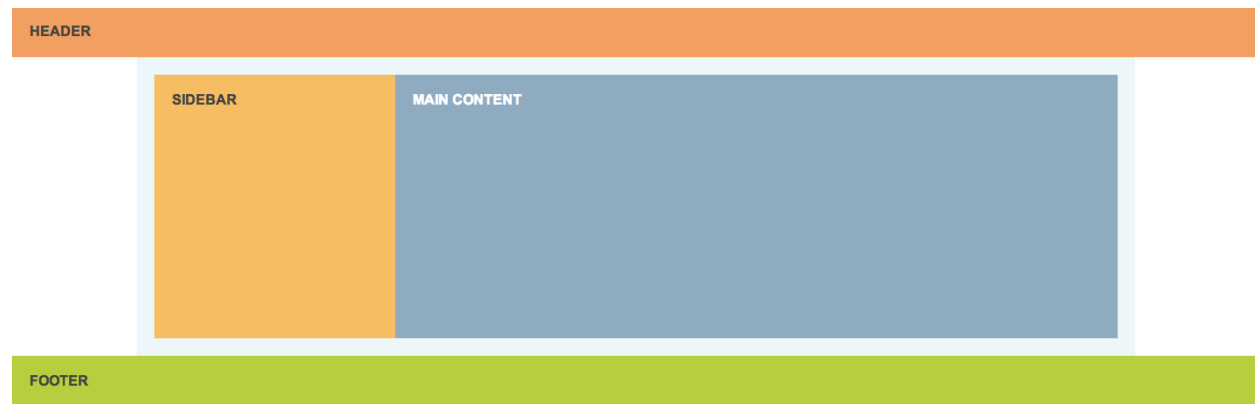
```
Example10 > # example.css > ...
  1    * {
  2      box-sizing: border-box;
  3      font-weight: bold;
  4      padding: 15px;
  5    }
  6
  7    body {
  8      background-color: #edf6f8;
  9      display: flex;
 10      flex-wrap: wrap;
 11    }
 12
 13    header {
 14      background-color: #f2a062;
 15      width: 100%;
 16    }
 17
 18    section {
 19      width: 80%;
 20      margin: 0 auto;
 21      display: flex;
 22      flex-wrap: wrap;
 23    }
 24
 25    section aside {
 26      background-color: #f6bd62;
 27      width: 20%;
 28      height: 400px;
 29    }
 30
 31    section main {
 32      background-color: #8eabc0;
 33      color: white;
 34      width: 80%;
 35      height: 400px;
 36    }
 37
 38    footer {
 39      background-color: #b7ce3f;
 40      width: 100%;
 41    }
```

Boban Srezovski

SOLUTION 11

Make a blog-like layout with a header, and a set of blog posts that are an image and a paragraph floated next to each other.

```
Example11 > <> example.html > ⬡ html > ⬡ body > ⬡ header > ⬡ nav
1    <!DOCTYPE html>
2    <html lang="en">
3
4    <head>
5        <meta charset="UTF-8">
6        <meta http-equiv="X-UA-Compatible" content="IE=edge">
7        <meta name="viewport" content="width=device-width, initial-scale=1.0">
8        <title>Document</title>
9        <link rel="stylesheet" href="./example.css">
10   </head>
11
12   <body>
13       <header>
14           <div id="logo">LOGO</div>
15           <nav>NAVIGATION</nav>
16       </header>
17
18       <main>
19           <section class="subContent">
20               <h2>POST TITLE</h2>
21               <img src="https://picsum.photos/150" alt="post image">
22               <p>
23                   Lorem ipsum dolor sit amet consectetur adipisicing elit. Sunt pariatur laboriosam quaerat doloribus
24                   consectetur! Quia ratione molestiae, quibusdam sit animi, error, quam odit nobis distinctio repellat
25                   rem. Ducimus, nulla fuga.
26               </p>
27           </section>
28           <section class="subContent">
29               <h2>POST TITLE</h2>
30               <img src="https://picsum.photos/150" alt="post image">
31               <p>
32                   Lorem ipsum dolor sit amet consectetur adipisicing elit. Sunt pariatur laboriosam quaerat doloribus
33                   consectetur! Quia ratione molestiae, quibusdam sit animi, error, quam odit nobis distinctio repellat
34                   rem. Ducimus, nulla fuga.
35               </p>
36           </section>
37           <section class="subContent">
38               <h2>POST TITLE</h2>
39               <img src="https://picsum.photos/150" alt="post image">
40               <p>
41                   Lorem ipsum dolor sit amet consectetur adipisicing elit. Sunt pariatur laboriosam quaerat doloribus
42                   consectetur! Quia ratione molestiae, quibusdam sit animi, error, quam odit nobis distinctio repellat
43                   rem. Ducimus, nulla fuga.
44               </p>
45           </section>
46           <section class="subContent">
47               <h2>POST TITLE</h2>
48               <img src="https://picsum.photos/150" alt="post image">
49               <p>
50                   Lorem ipsum dolor sit amet consectetur adipisicing elit. Sunt pariatur laboriosam quaerat doloribus
51                   consectetur! Quia ratione molestiae, quibusdam sit animi, error, quam odit nobis distinctio repellat
52                   rem. Ducimus, nulla fuga.
53               </p>
54           </section>
55       </main>
56
57       <footer>FOOTER</footer>
58   </body>
```

```css
Example11 > # example.css > ⚷ header
   1  * {
   2      box-sizing: border-box;
   3      font-weight: bold;
   4      padding: 15px;
   5  }
   6
   7  body {
   8      background-color: #edf6f8;
   9      display: flex;
  10      flex-wrap: wrap;
  11  }
  12
  13  header {
  14      background-color: #f2a062;
  15      width: 100%;
  16      display: flex;
  17      justify-content: space-between;
  18  }
  19
  20  #logo {
  21      background-color: #eb6481;
  22  }
  23
  24  nav {
  25      background-color: #d76a50;
  26  }
  27
  28  main {
  29      background-color: #8eabc0;
  30  }
  31
  32  .subContent {
  33      background-color: #b7ce3f;
  34      color: white;
  35      margin-bottom: 15px;
  36      display: flex;
  37      flex-wrap: wrap;
  38  }
  39
  40  .subContent h2 {
  41      width: 100%;
  42  }
  43
  44  .subContent p {
  45      background-color: rgba(0, 0, 0, 0.4);
  46      width: 80%;
  47      margin-left: 5%;
  48      height: fit-content;
  49  }
  50
  51  footer {
  52      background-color: #b7ce3f;
  53  }
```