

CSS Grid

Grids are but one a means of arranging block-level elements alongside one another. This is an essential technique as it allows you to create columned layouts (whereas, you have only been able to produce vertically-stacked arrangements up to this point).

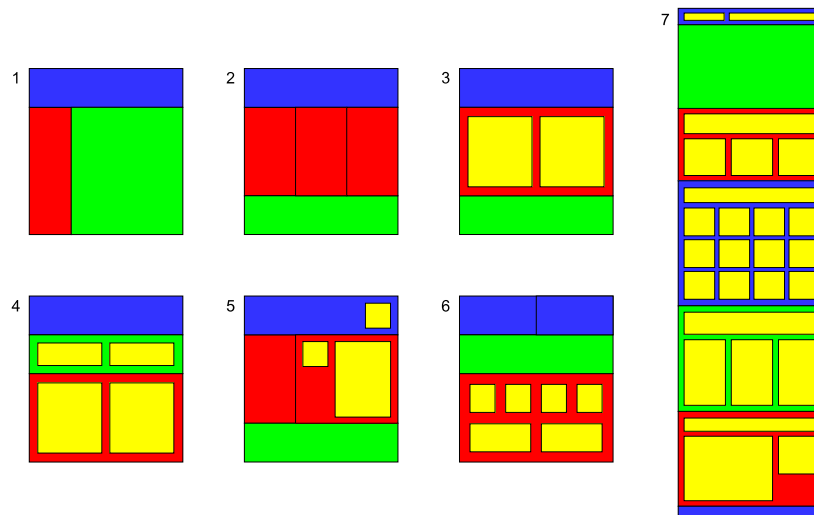
Your lecturer/tutor will run you through a bunch of examples. If you miss the lesson or need further info, refer to the following website:

<https://learncssgrid.com/>

Layouts

Begin by creating a new directory in your 289.101 repo, named "css_layouts". As you work, code then save each of your layouts in this directory. As each layout is a single HTML document there is no need to bother with external stylesheets; you are likely to find internal stylesheets simpler and more appropriate in this instance.

Your lecturer/tutor will run you through layouts 1, 2, and 3; then leave you to tackle layout 4, 5, 6, and 7.



Before we begin layout 1, here are a few pointers:

- Each layout is 800 pixels wide and centre-aligned.
- Each layout is 800 pixels high -- except for layout 7, which is far taller.
- Use a black outline on all of your elements to help visualise them:

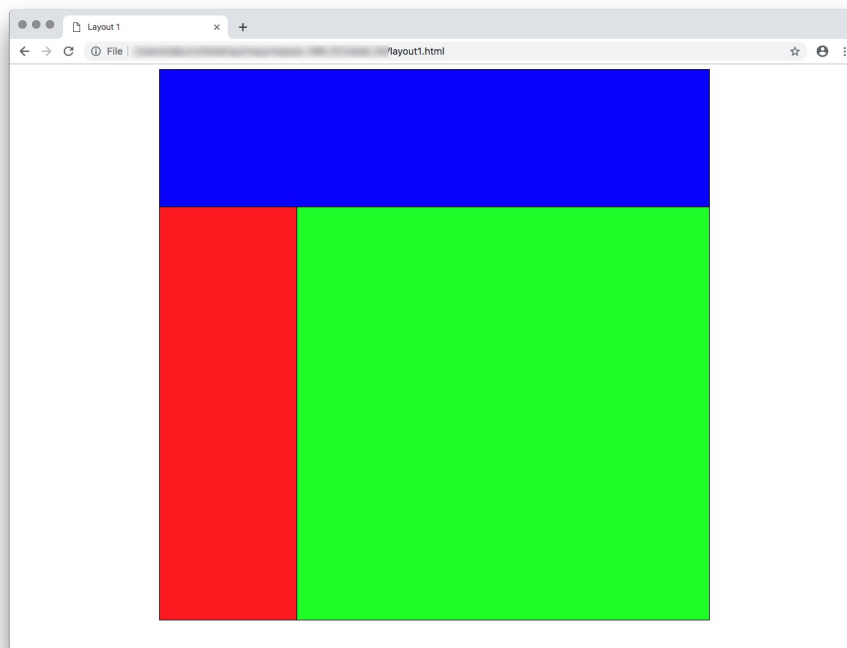
```
div { outline: 1px solid black; }
```

- To prevent having to scroll up and down through your code, consider collapsing sections of it using your editor:



Layout 1

Create a new file named "layout1.html". An image of the completed version and accompanying follow.



```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <title>Layout 1</title>
  <style>
    div {
      outline: 1px solid black;
```

```

    }

    #container {

        display: grid;

        grid-template-columns: 1fr 1fr 1fr 1fr;

        margin: auto;

        max-width: 800px;

    }

    #blue {

        background-color: blue;

        grid-column: 1/5;

        height: 200px;

    }

    #red {

        background-color: red;

        height: 600px;

    }

    #green {

        background-color: lime;

        grid-column: 2/5

    }

</style>
</head>

<body>

    <div id="container">

        <div id="blue"></div>

        <div id="red"></div>

        <div id="green"></div>

    </div>

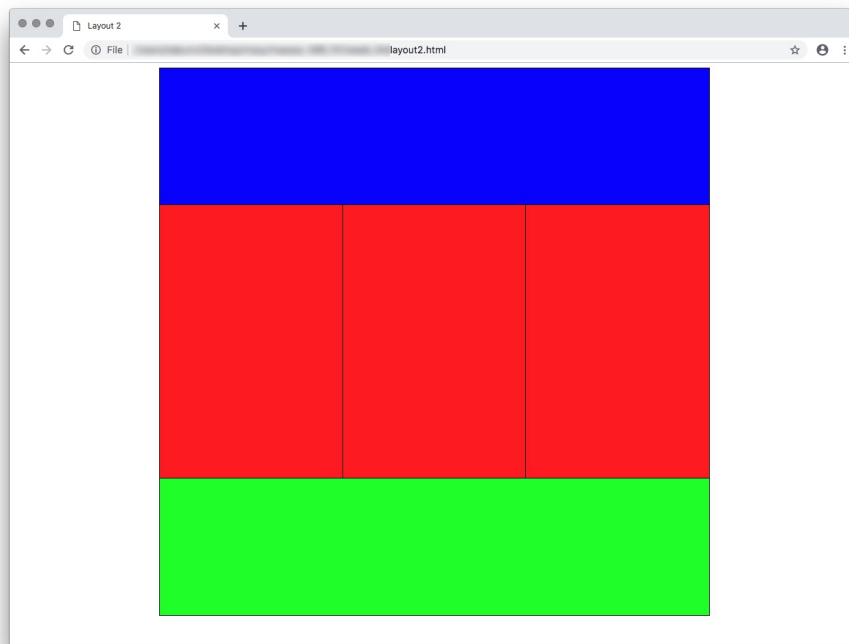
</body>

</html>

```

Layout 2

Create a new file named "layout2.html". The completed version is depicted below along with the code to produce it.



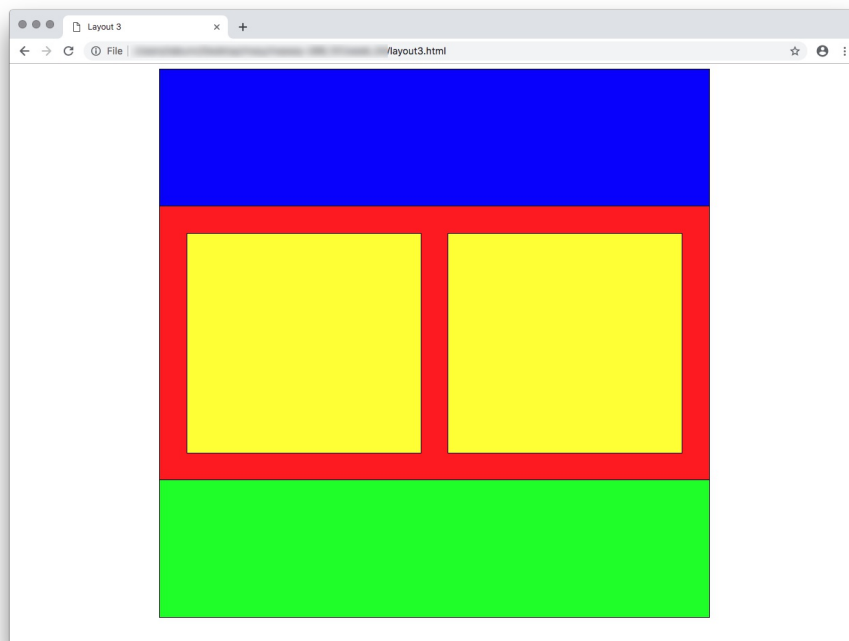
```
div {
  outline: 1px solid black;
}
#container {
  display: grid;
  grid-template-columns: 1fr 1fr 1fr;
  margin: auto;
  max-width: 800px;
}
#blue {
  background-color: blue;
  grid-column: 1/4;
  height: 200px;
}
.red {
  background-color: red;
  height: 400px;
}
#green {
  background-color: lime;
  grid-column: 1/4;
  height: 200px;
}
```

...

```
<div id="container">
  <div id="blue"></div>
  <div class="red"></div>
  <div class="red"></div>
  <div class="red"></div>
  <div id="green"></div>
</div>
```

Layout 3

Create a new file named "layout3.html". The completed version is depicted below along with the code to produce it.



```
div {
  outline: 1px solid black;
}
#container {
  margin: auto;
  max-width: 800px;
}
#blue {
  background-color: blue;
  height: 200px;
}
#red {
  display: grid;
```

```

        background-color: red;
        grid-template-columns: 50% 50%;
        height: 400px;
        padding: 20px;
    }
    .yellow {
        background-color: yellow;
        margin: 20px;
    }
    #green {
        background-color: lime;
        grid-column: 1/3;
        height: 200px;
    }

    ...

    <div id="container">
        <div id="blue"></div>
        <div id="red">
            <div class="yellow"></div>
            <div class="yellow"></div>
        </div>
        <div id="green"></div>
    </div>

```

Remaining Layouts

Now complete layouts 4, 5, and 6. Your lecturer/tutor will assist you should you need any help.

Layout 7 is your homework task.

end