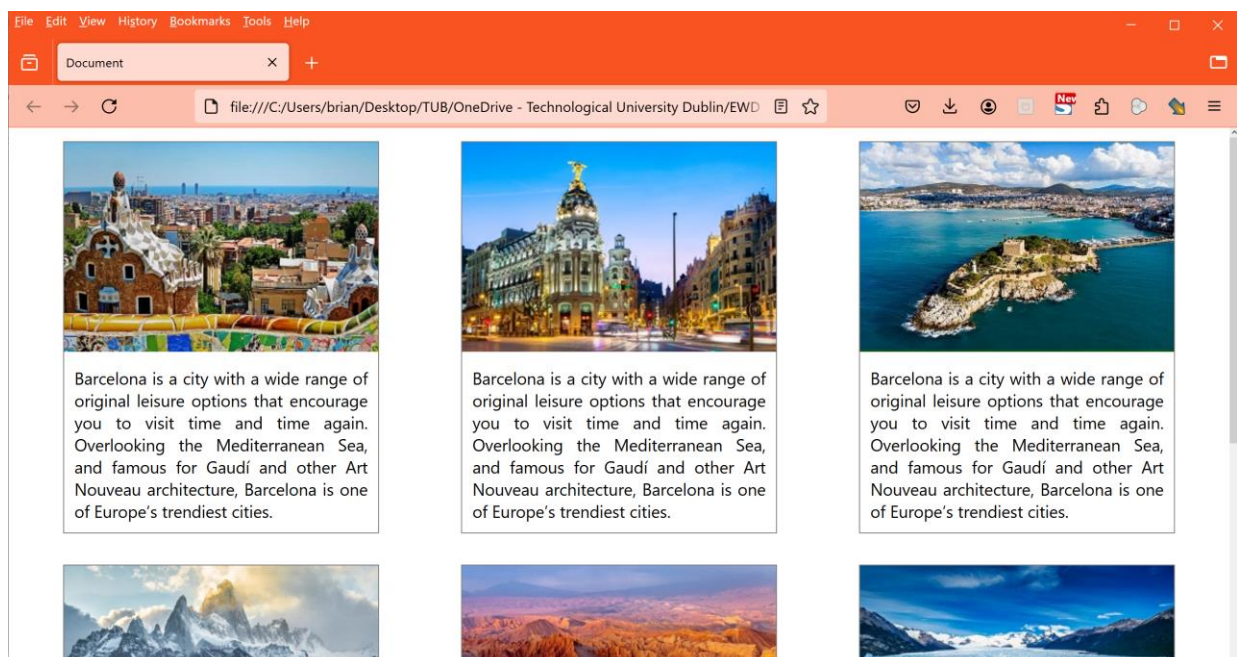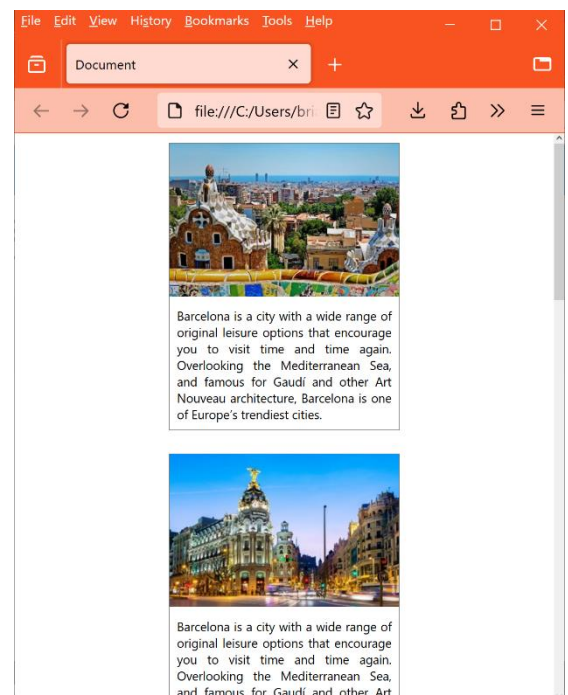Author: Brian Webberley
Last updated: 2025.09.29

Interactive Web Design

Lab 3, Part 2: Responsive CSS Grid

Objective:

In Lab 3, Part 1, we looked at a creating a gallery using a CSS Grid. In this part 2, we will create a responsive image gallery page containing six gallery cards, that has four layouts.

The first layout, suitable for a mobile device, will look like the webpage to the right. The second layout, suitable for larger screens will look like the below web page, just like we had in Lab 3, Part 1.
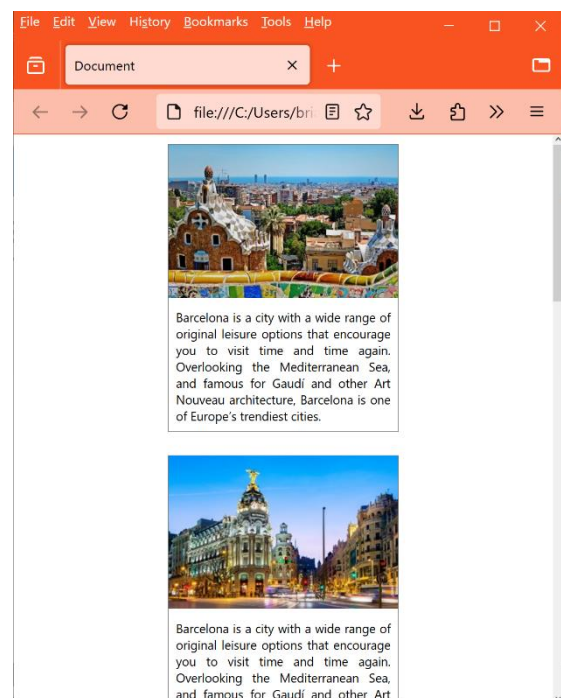
Step 1: Create the Default, Mobile Layout

In your CSS file, change the number of columns to be one by only using one *auto*

```css
.grid-container {
    display: grid;
    grid-template-columns: auto;
    gap: 50px;
    justify-content: center;
    background-color: #fafcff;
}
```

After you save your files, your webpage should look like this when your browser is narrow:

Step 2: Make the Images Responsive on screens larger than a mobile

We will create a media query that is activated when the viewport size is at least 768 pixels wide. Inside this media query, create a rule that makes each gallery card grid item align so that your 6 gallery cards are align in two rows, with each row having 3 gallery cards, just like they were previously in part 1, i.e.,

☐☐☐
☐☐☐

The below code tells the CSS code inside the media query to change based on the parameters the media query specifies (i.e. when the viewport width reaches 768 pixels wide). The CSS code that will change any HTML elements inside the class of *.grid-container*.

```
@media only screen and (min-width: 768px) {

    .grid-container {
        grid-template-columns: auto auto auto;
    }

}
```
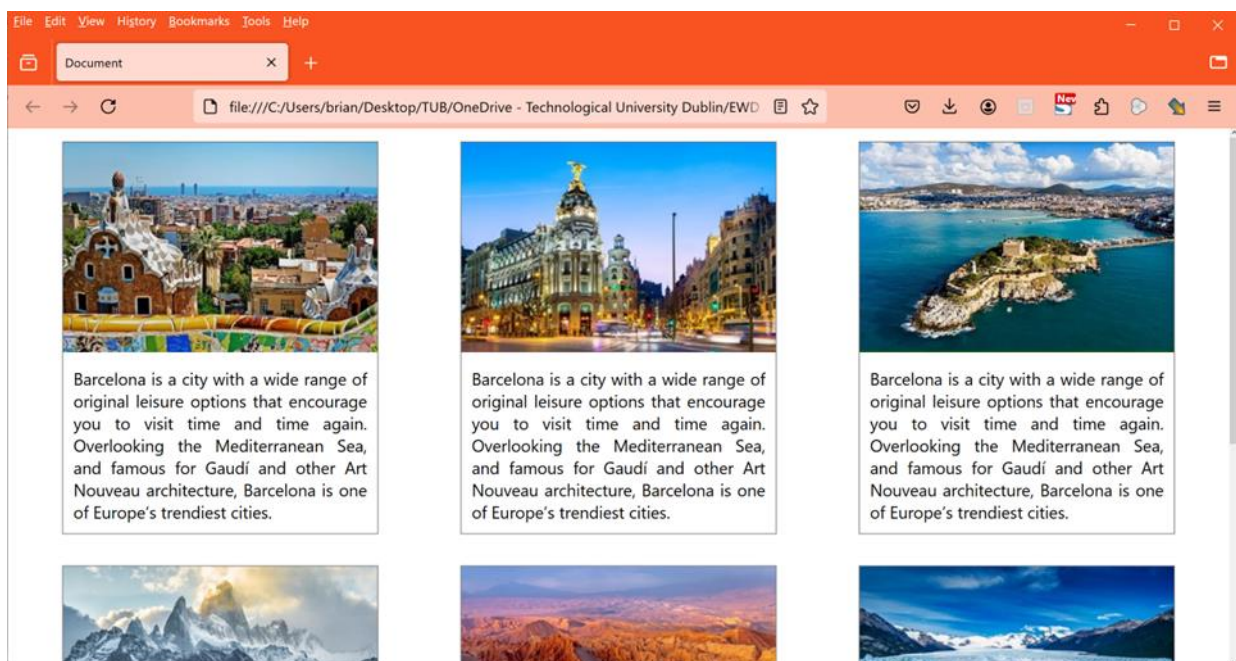
When the webpage is viewed from a larger screen, that is at least 768px wide, the CSS code is changing from the default we set earlier of:

```
grid-template-columns: auto;
```

to:

```
grid-template-columns: auto auto auto;
```
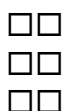
As you widen your browser window, your webpage should switch to a 3x2 layout as shown below.

Step 3: Make the images responsive on tablets in portrait mode

Use the same method to create a media query so that when the viewport width reaches:

576 pixels wide, the webpage will display a grid of 2 images across.

□□
□□
□□

Step 4: Create an 8 image Responsive gallery, suitable for large monitors.

Create two more image cards and use the same method to create a media query so that when the viewport width reaches:

992 pixels wide, the webpage will display a grid of 4 images across.

□□□□
□□□□

Checklist / Marking Rubic

Task #	Does the webpage have...	Viewport pixel width	Marks	Complete?
1	6 images vertically stacked	< 768	2.5	
3	3 columns, 2 rows image grid	>= 768	2.5	
4	2 columns x 3 rows image grid	>= 576	2.5	
5	4 columns x 2 rows image grid	>= 992	2.5	
		Total:	/10	