

# Exercise Sheet 4

## Exercise 1

In this exercise, you'll lay out grid items using only the implicit grid, without defining any explicit rows or columns. You can only do this for layouts with a single row or column because the grid will simply keep adding the items in horizontal or vertical direction, depending on its **auto-flow**.

Use the implicit to design a simple menu bar in which all items, no matter how many, are automatically same size:



Can you define the grid layout in one line (excluding **grid-gap** and **display: grid**)?

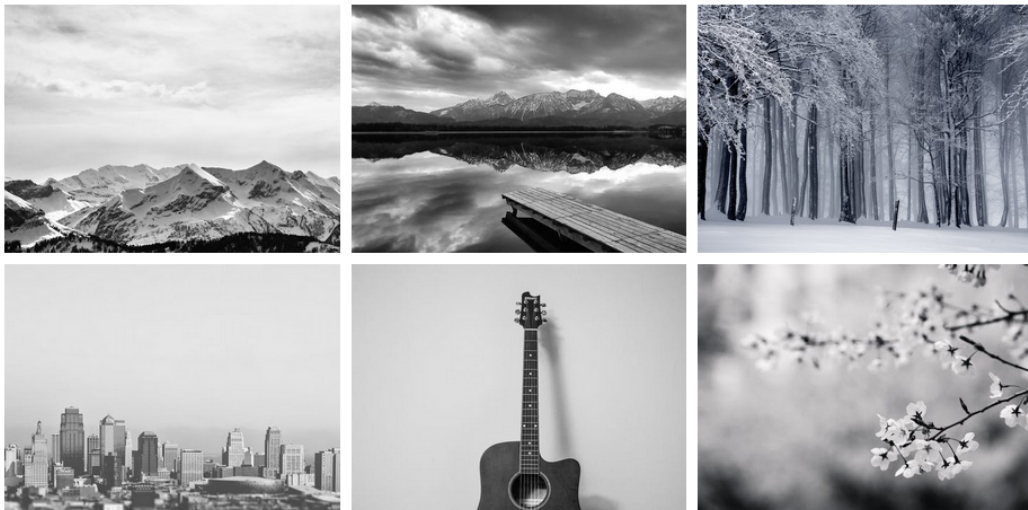
**Hints:** You can use the **grid** property along with the **auto-flow** value on column-side for the one-liner. Recap the last lecture from the section if needed.

**Solution:** [View solution on GitHub](#)

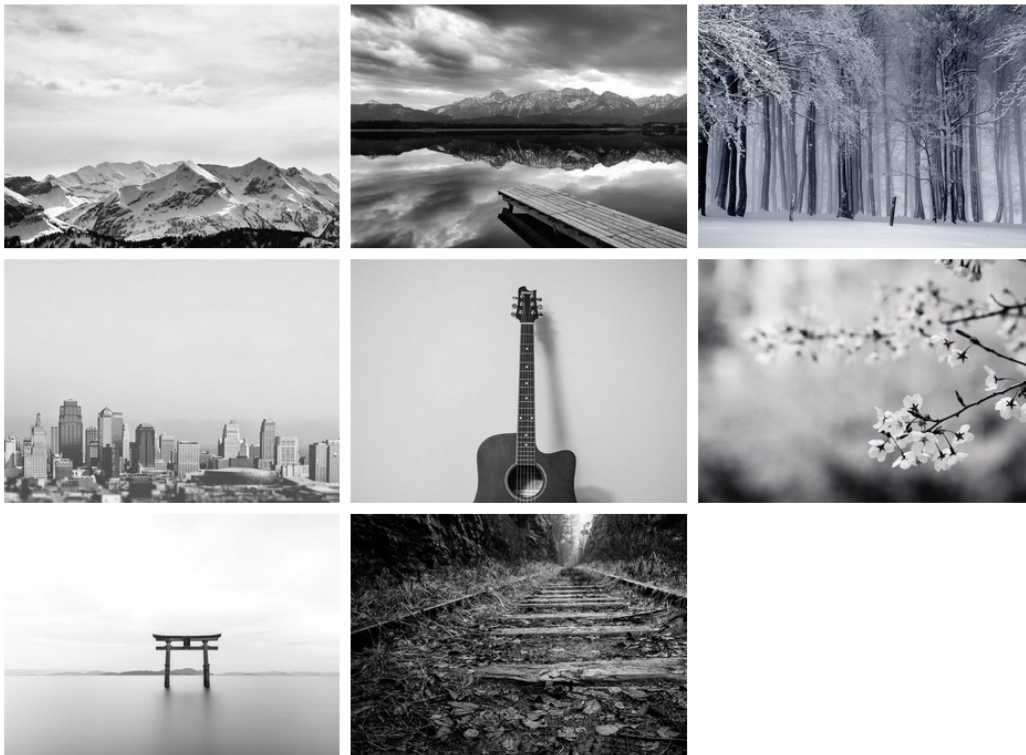
## Exercise 2

Imagine you have an image gallery that is dynamically filled with elements. You don't know how many so you don't know how many rows you'll need either. The gallery should have 3 columns, and each row should be 200px high.

Now you'll design such an image gallery with a consistent look for all items, meaning that any implicit rows must look the same way as the rest of the gallery – all images are equally important. With six images, the gallery might look something like this, with all images having the same size:



With eight images and therefore two implicit rows, it your gallery should look similar to this:



**Hints:** Only one row should be explicitly defined (as a baseline), all implicitly generated rows should then look the same way. You can download the images I used from *GitHub* if you want to use the same ones.

**Solution:** [View solution on GitHub](#)