

CSS Grid Layout

New Core Technology from the W3C

March 2017

- New CSS properties for Grid Layout
 - 18 new properties
 - Three new functions
 - Full support
 - Chrome
 - Firefox
 - Safari
 - iOS Safari
 - Android Browser
 - Chrome for Android
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- Edge (soon)
 - IE (unknown)

CSS properties

`grid-template-columns`

`grid-template-rows`

`grid-template-areas`

`grid-template`

`grid-auto-columns`

`grid-auto-rows`

`grid-auto-flow`

`grid`

`grid-row-start`

`grid-column-start`

`grid-row-end`

`grid-column-end`

`grid-row`

`grid-column`

`grid-area`

`grid-row-gap`

`grid-column-gap`

`grid-gap`

CSS function

`repeat()`

`minmax()`

`fit-content()`

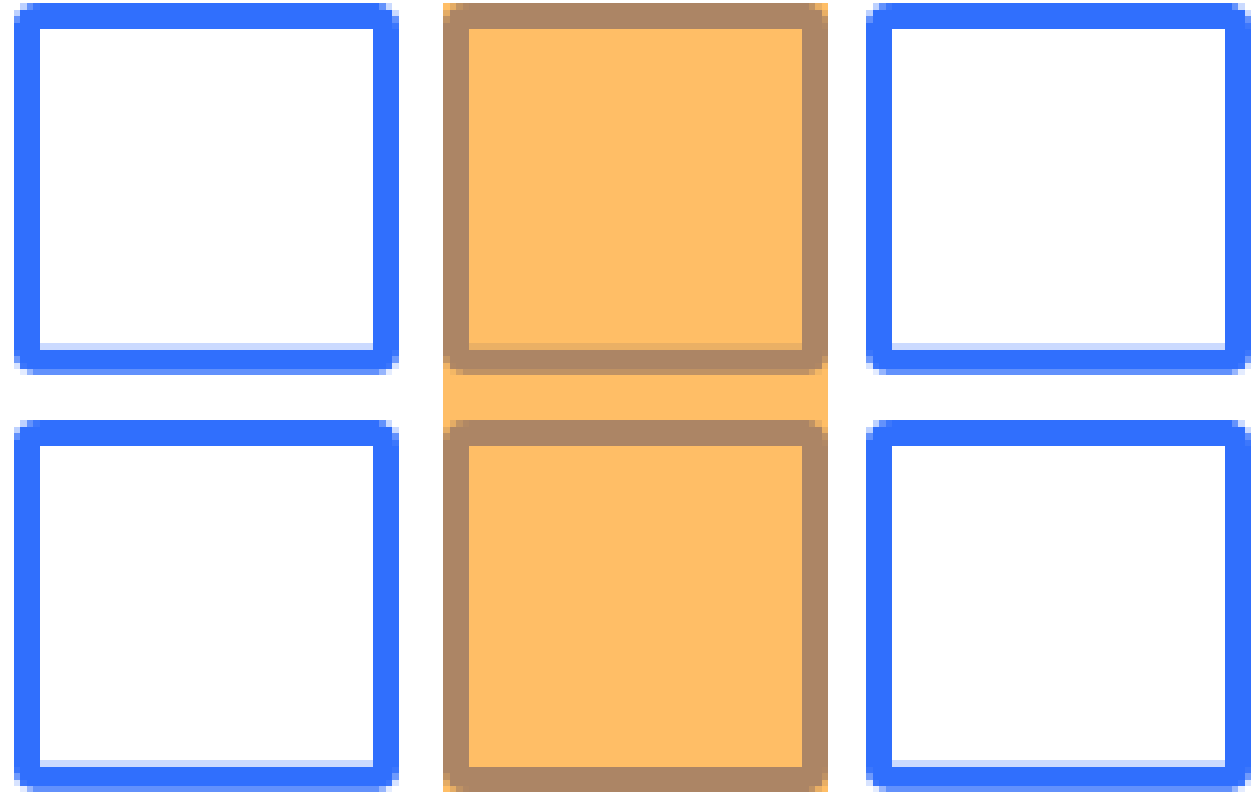
New Terminology and Concepts

Grid Track

The space between two grid lines.
This space can be horizontal or vertical

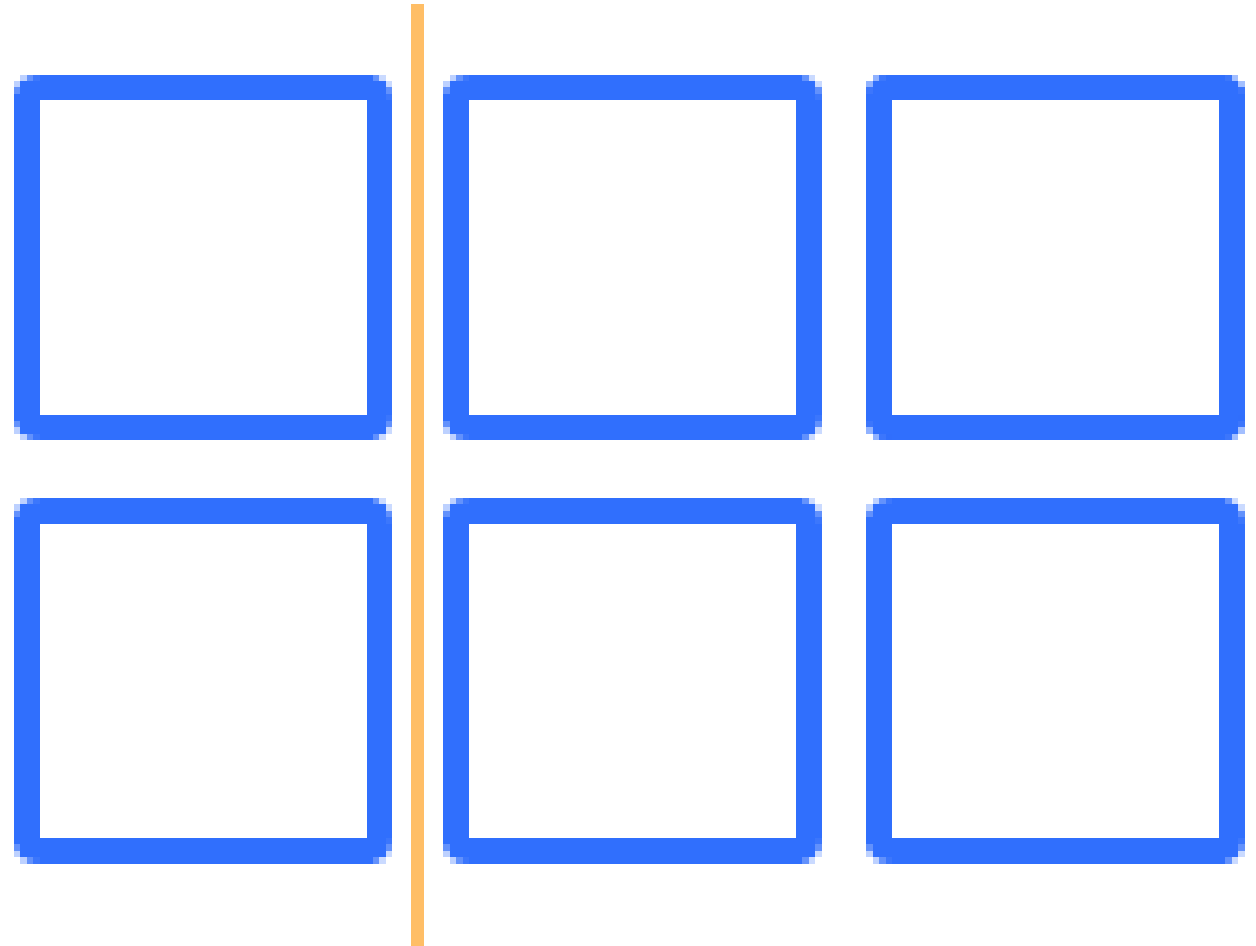
Grid column: a vertical track

Grid row: a horizontal track



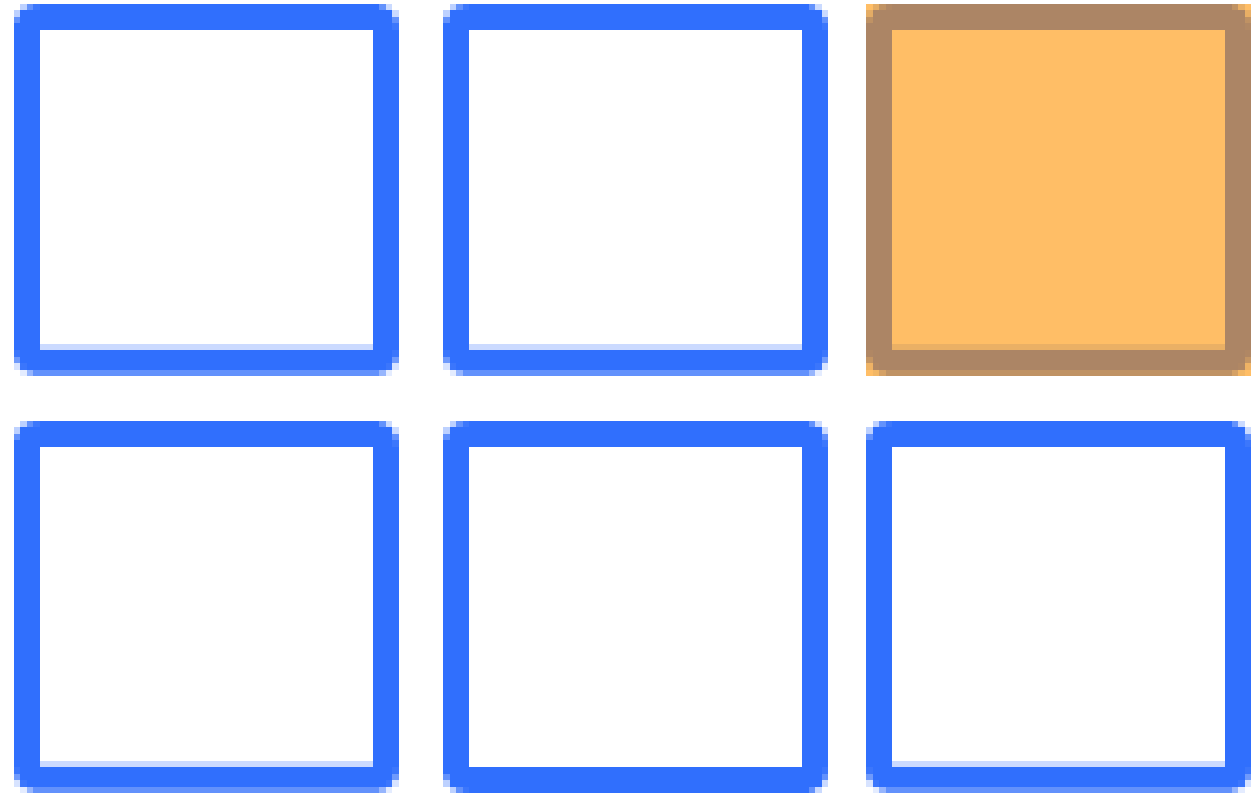
Grid Lines

The vertical and horizontal lines that divide the grid and separate the columns and rows



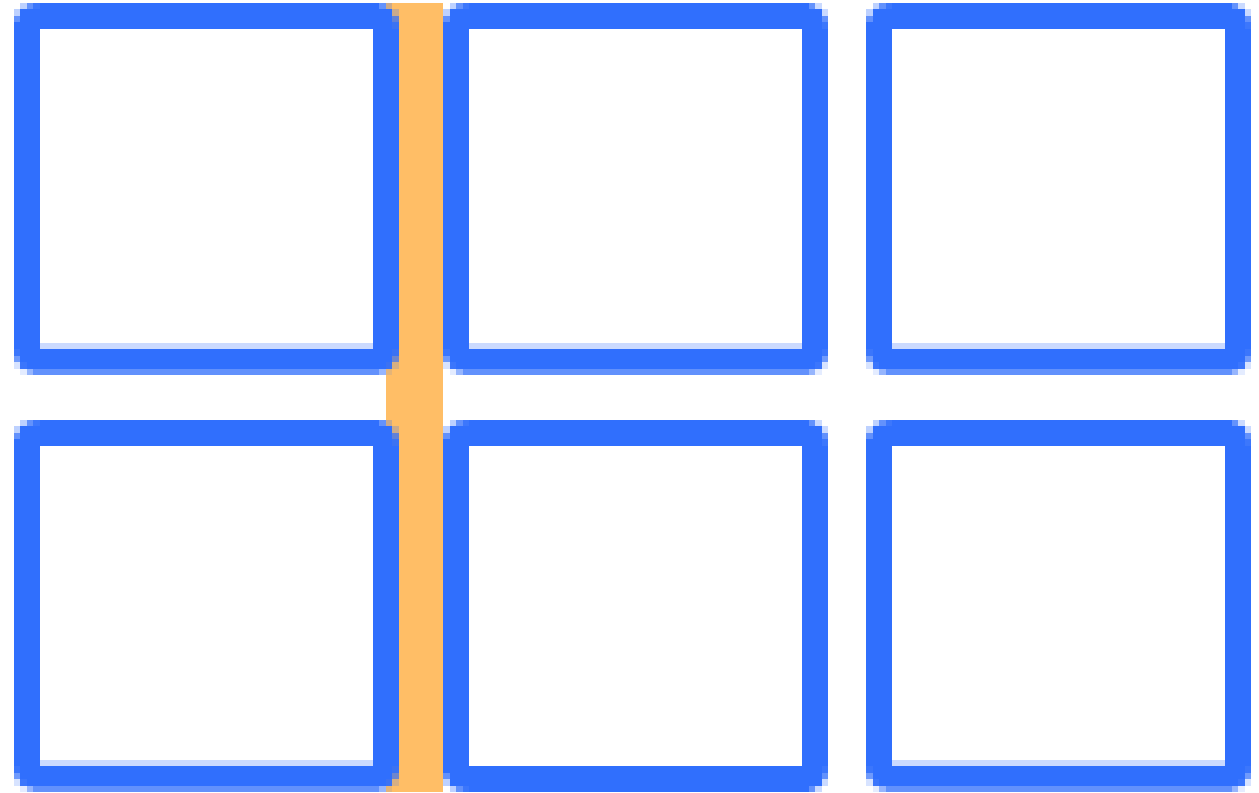
Grid Cell

A single unit of a CSS grid



Grid Gutter

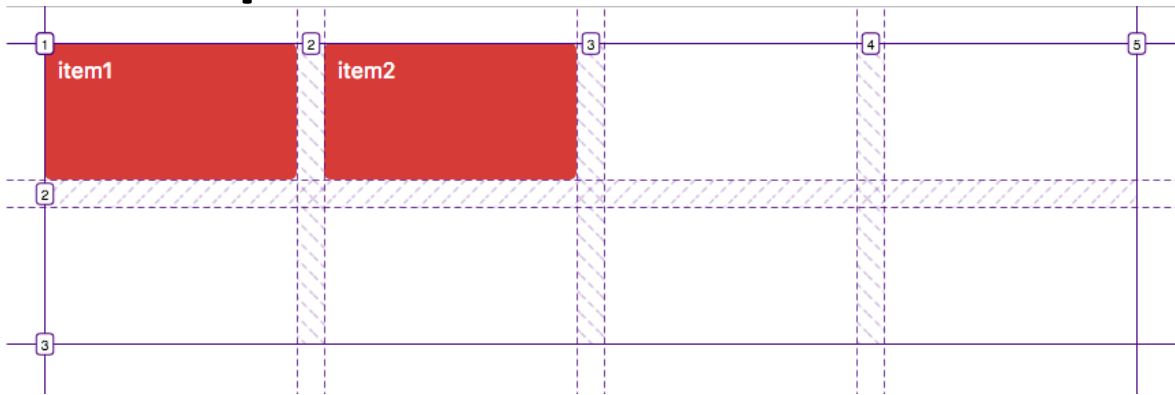
The optional space between rows and columns in a grid



The explicit and implicit grid

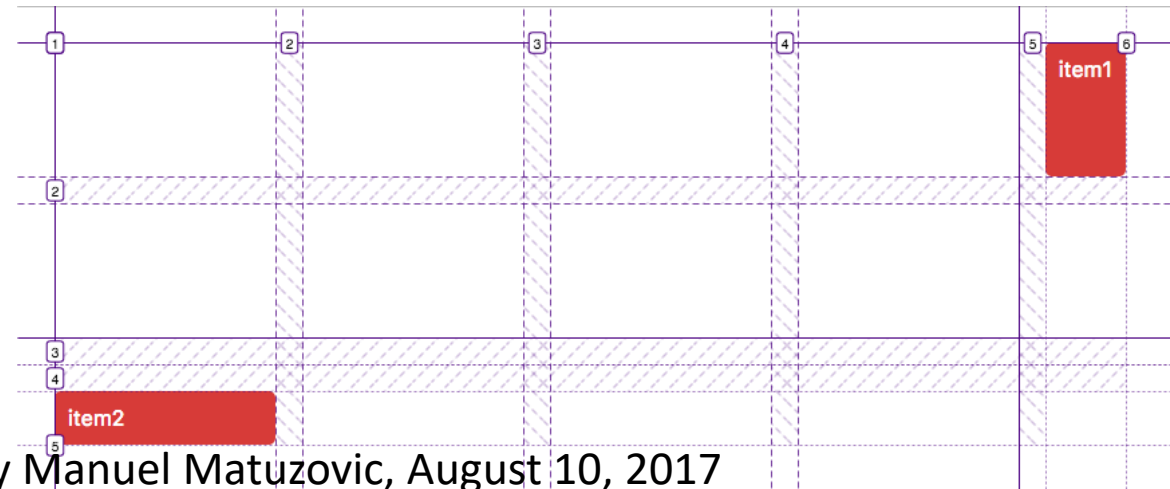
Explicit Grid

- When you use:
grid-template-columns and
grid-template-rows
- Everything you setup *within* the column and row tracks are **explicit**



Implicit Grid

- When you use:
grid-auto-columns and
grid-auto-rows
everything is "implicit"



Using the Grid Lines for Positioning

- Use **grid-column-start** and **grid-column-end**, or **grid-row-start** and **grid-row-end** ...to have cells *span* tracks
- Or use their shortcut counterparts: **grid-column** and **grid-row**
e.g.
`grid-column: 1 / 4;`
`grid-row: 1 / 3;`

