CSS GRID + WRITING-MODE =

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WHAT IS CSS GRID?

Grid Layout is a new layout model for CSS that has powerful abilities to control the sizing and positioning of boxes and their contents.

Unlike Flexible Box Layout, which is single-axis-oriented, Grid Layout is optimized for 2-dimensional layouts.

Source: CSS Grid Layout Module Level 1

WHEN IS CSS GRID SUPPORTED?

Gecko: intent to ship in Firefox 52 (7 March, 2017)

Blink: intent to ship in Chrome 57 (14 March, 2017)

Webkit: ships in Safari 10.1 (release date March/April-ish)

Edge: on the backlog with High priority

ENABLE CSS GRID LAYOUT



CHROME

Enable the flag called **Enable experimental Web Platform features** going to:

chrome://flags/#enable-experimental-web-

chrome://flags/#enable-experimental-webplatform-features



FIREFOX

Enable the flag called layout.css.grid.enabled going to: about:config



IE / EDGE

Enabled by default since IE10 (old syntax).

Prefixed -ms



OPERA

Enable the flag called **Enable experimental Web Platform features** going to:

opera://flags/#enable-experimental-webplatform-features



WEBKIT

In Safari Technology Preview and WebKit
Nightly Builds you can enable the
experimental feature called **CSS Grid** using
the menu: Develop > Expermiental Features
> CSS Grid



EPIPHANY

Set the environment variable WEBKITGTK_EXPERIMENTAL_FEATURES:

\$ export WEBKITGTK_EXPERIMENTAL_FEATURES:

Source: Igalia

SO I BUILT SOMETHING THE OTHER DAY...



WHAT IS CSS WRITING-MODE?

CSS Writing Modes Level 3 defines CSS features to support for various international writing modes, such as left-to-right (e.g. Latin or Indic), right-to-left (e.g. Hebrew or Arabic), bidirectional (e.g. mixed Latin and Arabic) and vertical (e.g. Asian scripts).

WHAT IS CSS WRITING-MODE?

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to-left. Or make it read from right-

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literally turn on its from left-to-right. You can make your browser side

DIFFERENT BUT SAME

Centring things is no fun

```
EDIT ON
         SCSS
                                                                                             body {
 writing-mode: vertical-rl;
 background: navajowhite;
 font-family: sans-serif;
div {
 background: palegreen;
 height: 30vmin;
 width: 30vmin;
// Transform method
```

TODAY WE LEARNT

Centre along vertical axis using:

```
margin-top: auto;
margin-bottom: auto;
```

- Sideways equivalent of vertical centring is
- Flexbox no like writing-mode on Firefox (for now)
- Browsers are very inconsistent at the moment 🐸

CAN I USE? CAN.

Browser support: CSS Writing Mode



CSS LOGICAL PROPERTIES LEVEL 1

Introduces logical properties and values that provide the author with the ability to control layout through logical, rather than physical, direction and dimension mappings.

Source: CSSWG

start and end vs. left and right

CAN I USE? CANNOT.

Browser support: CSS Logical Properties



Disclaimer: If you're reading this from the future, maybe can.

BUT, WE HAVE CSS GRID

Disclaimer: you cannot learn CSS grid overnight.

bù shì yī fān hán chè gǔ zěn de méi huā pū bí xiāng 不是一番寒彻骨 怎得梅花扑鼻香

It'd be nice if you read the specification

Grid container

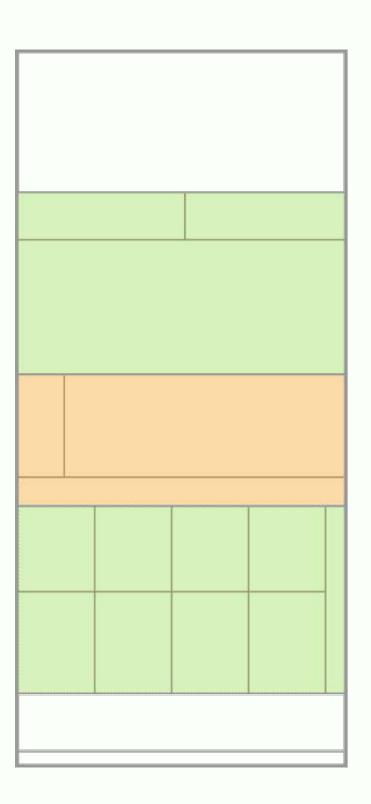
- display: grid;
- grid-template-columns
- grid-template-rows
- grid-column-gap
- grid-row-gap

Grid item

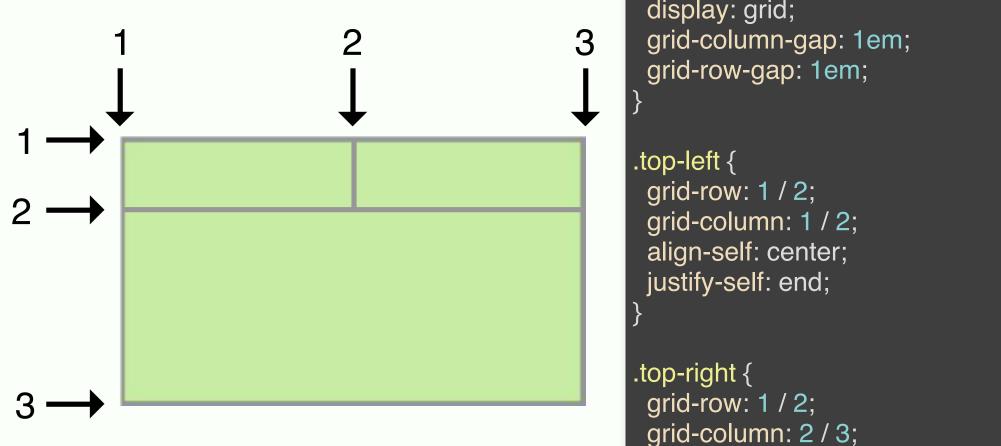
- grid-row
- grid-column
- align-self
- justify-self

SWITCHING TO GRID





SIMPLE GRID

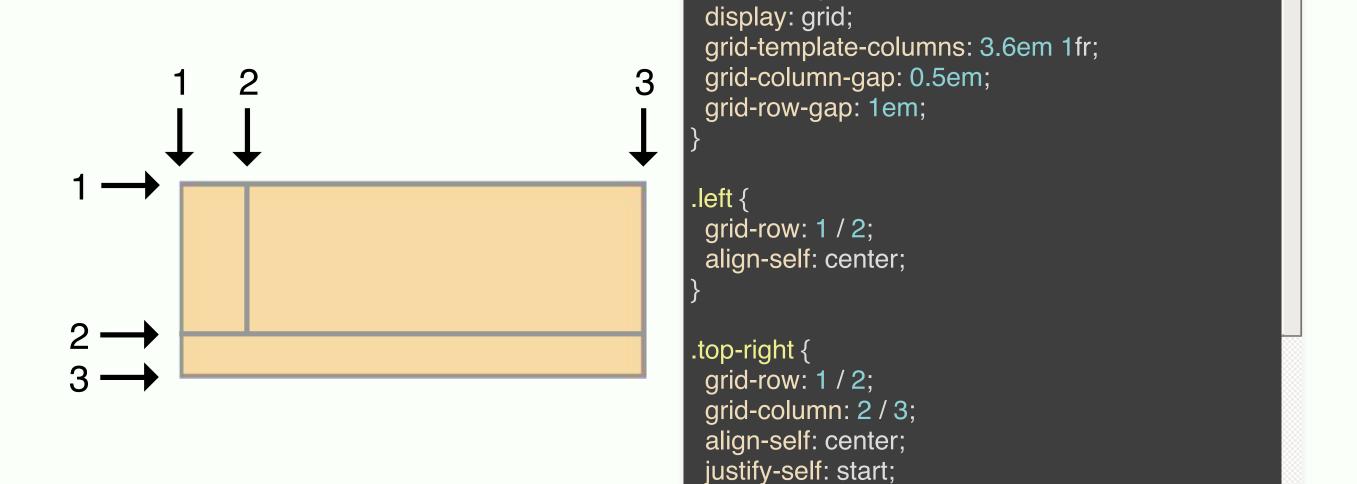


```
.container {
display: grid;
grid-column: 2 / 3;
 align-self: center;
iustify-self: start:
```

ANOTHER SIMPLE GRID

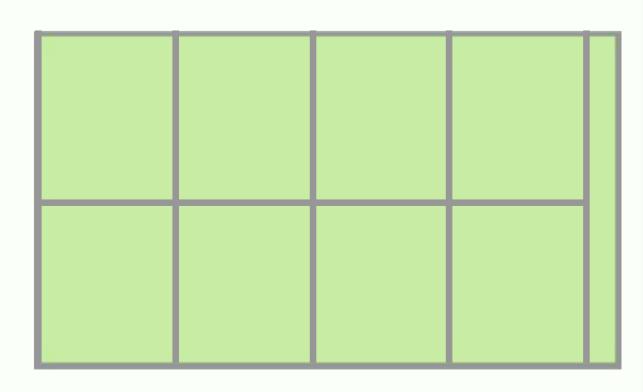
fr → represents a fraction of the free space in the grid container.

.container {



MODERATE GRID

repeat() → represents a repeated fragment of the track list



```
.outer-container {
display: grid;
grid-template-columns: 1fr 2em;
.inner-container {
grid-column: 1 / 2;
grid-row: 1 / 2;
display: grid;
grid-column-gap: 0.5em;
grid-row-gap: 1em;
 @media all and (max-width: 719px) {
  grid-template-columns: repeat(2, 1fr);
```

FURTHER READING

- CSS Grid Layout Module Level 1
- Grid by Example by Rachel Andrew
- CSS Grid Layout Examples by Igalia
- A Complete Guide to Grid by Chris House

THE END

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