CSS GRID + WRITING-MODE = 🎉

By Chen Hui Jing / @hj_chen

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-platform-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

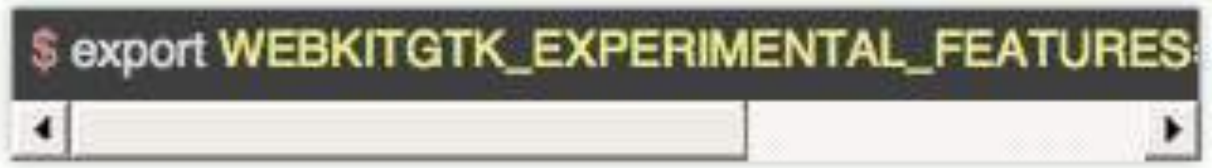
Enable the flag called **Enable experimental Web Platform features** going to: opera://flags/#enable-experimental-web-platform-features

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

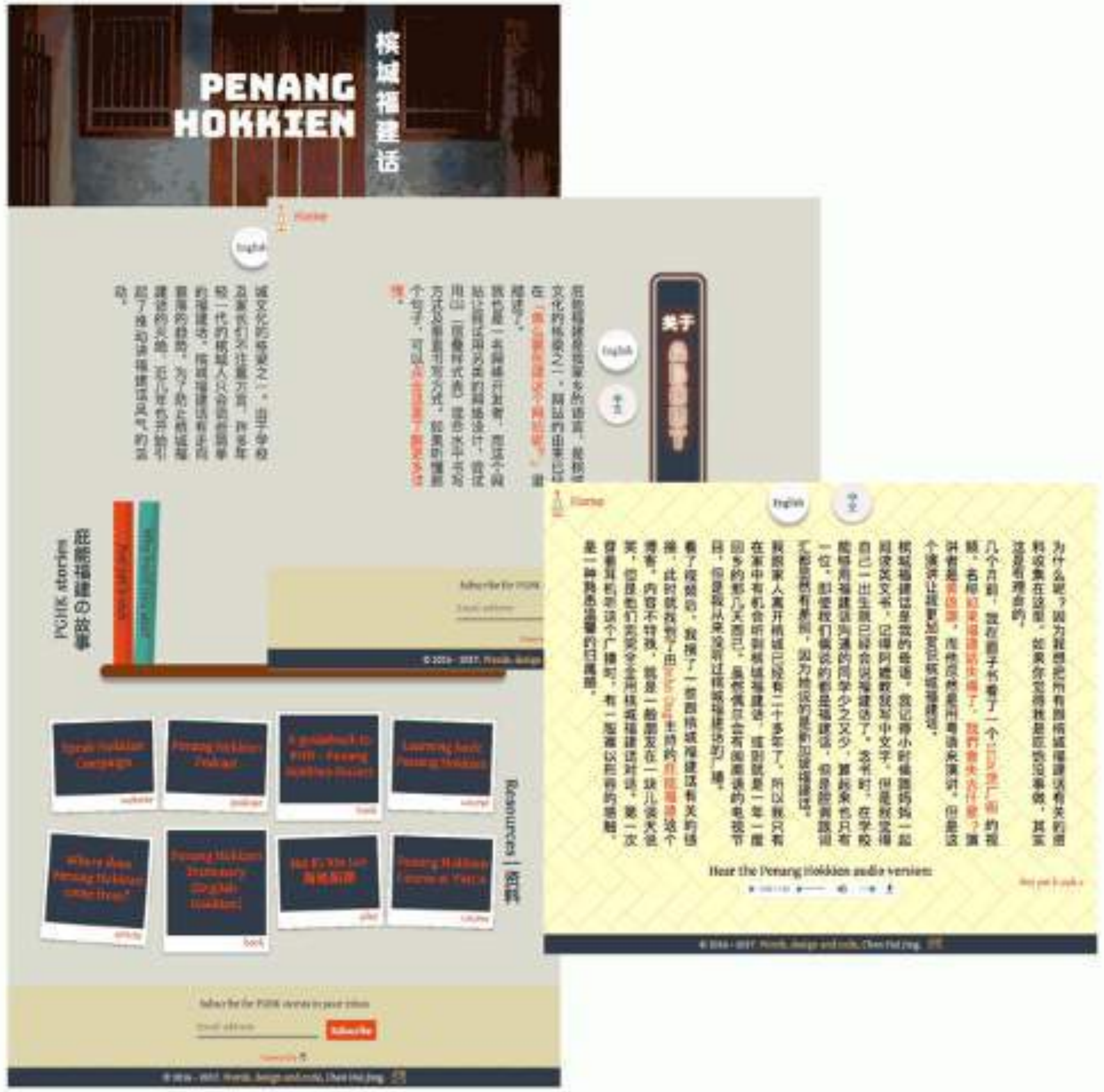
Set the environment variable WEBKITGTK_EXPERIMENTAL_FEATURES:



```
$ export WEBKITGTK_EXPERIMENTAL_FEATURES
```

Source: Igalia

SO I BUILT SOMETHING THE OTHER DAY…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WHAT IS CSS WRITING-MODE?

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?

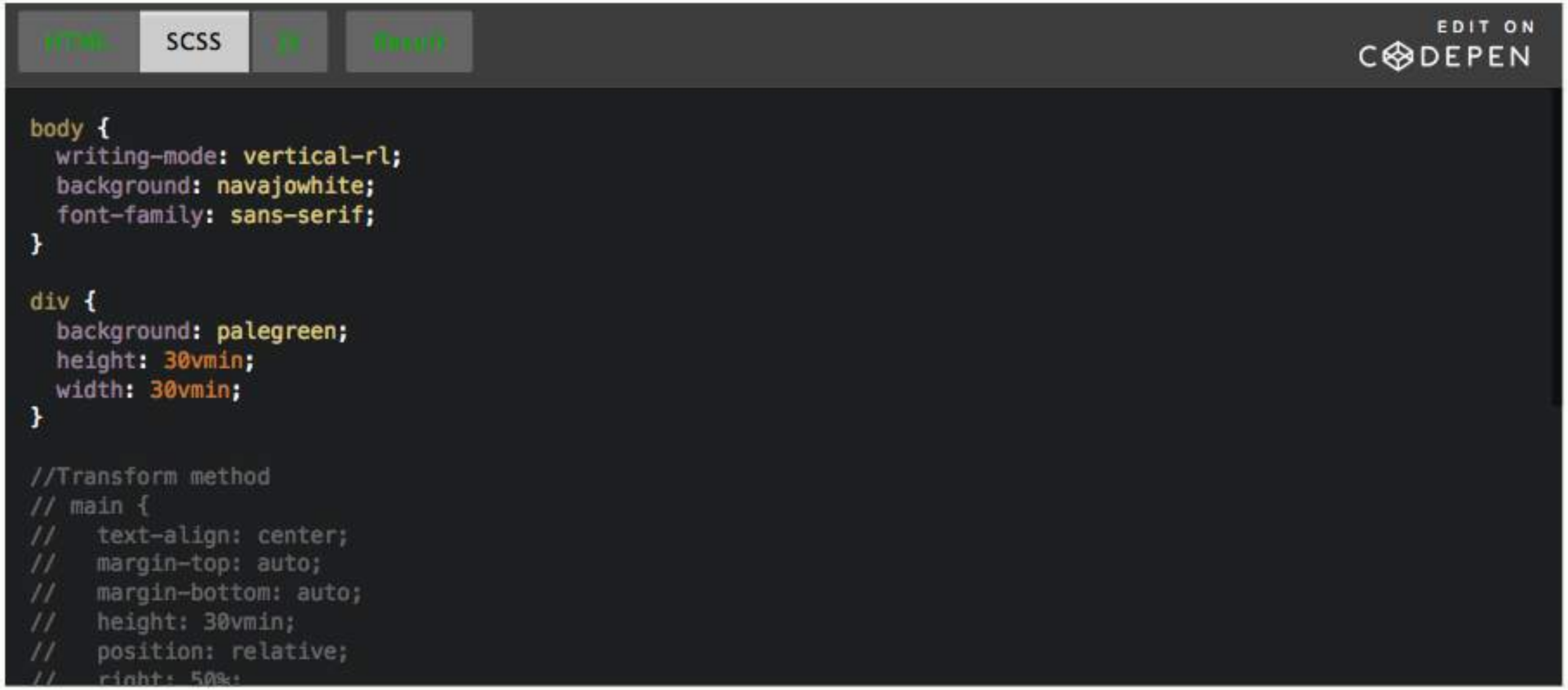
Vertical text is fun! 🙂

Or make it read from right-to-left. 🙃

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

DIFFERENT BUT SAME

Centring things is no fun



```
body {
  writing-mode: vertical-rl;
  background: navajowhite;
  font-family: sans-serif;
}

div {
  background: palegreen;
  height: 30vmin;
  width: 30vmin;
}

//Transform method
// main {
//   text-align: center;
//   margin-top: auto;
//   margin-bottom: auto;
//   height: 30vmin;
//   position: relative;
//   right: 50%;
```

TODAY WE LEARNT

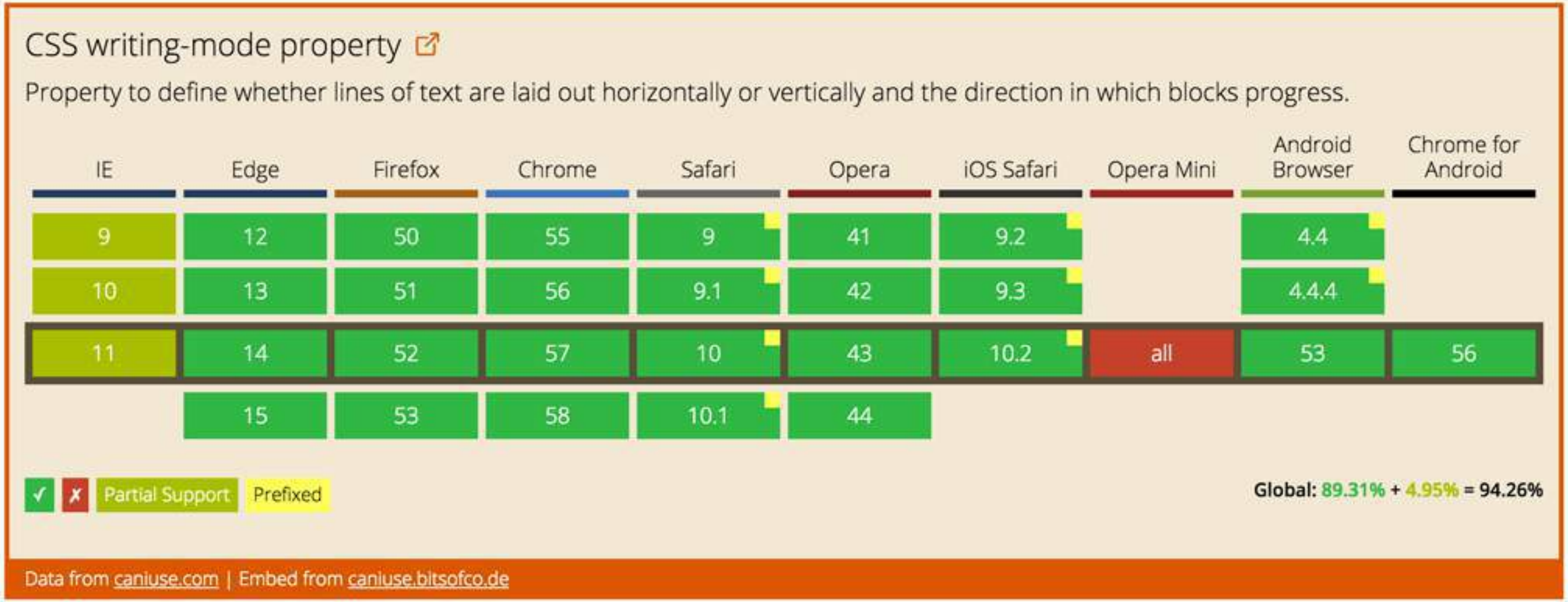
- Centre along vertical axis using:

```
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 writing-mode property

Property to define whether lines of text are laid out horizontally or vertically and the direction in which blocks progress.

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
9	12	50	55	9	41	9.2		4.4	
10	13	51	56	9.1	42	9.3		4.4.4	
11	14	52	57	10	43	10.2	all	53	56
	15	53	58	10.1	44				

✓ ✗ Partial Support Prefixed

Global: 89.31% + 4.95% = 94.26%

Data from caniuse.com | Embed from caniuse.bitsofco.de

CSS LOGICAL PROPERTIES LEVEL 1

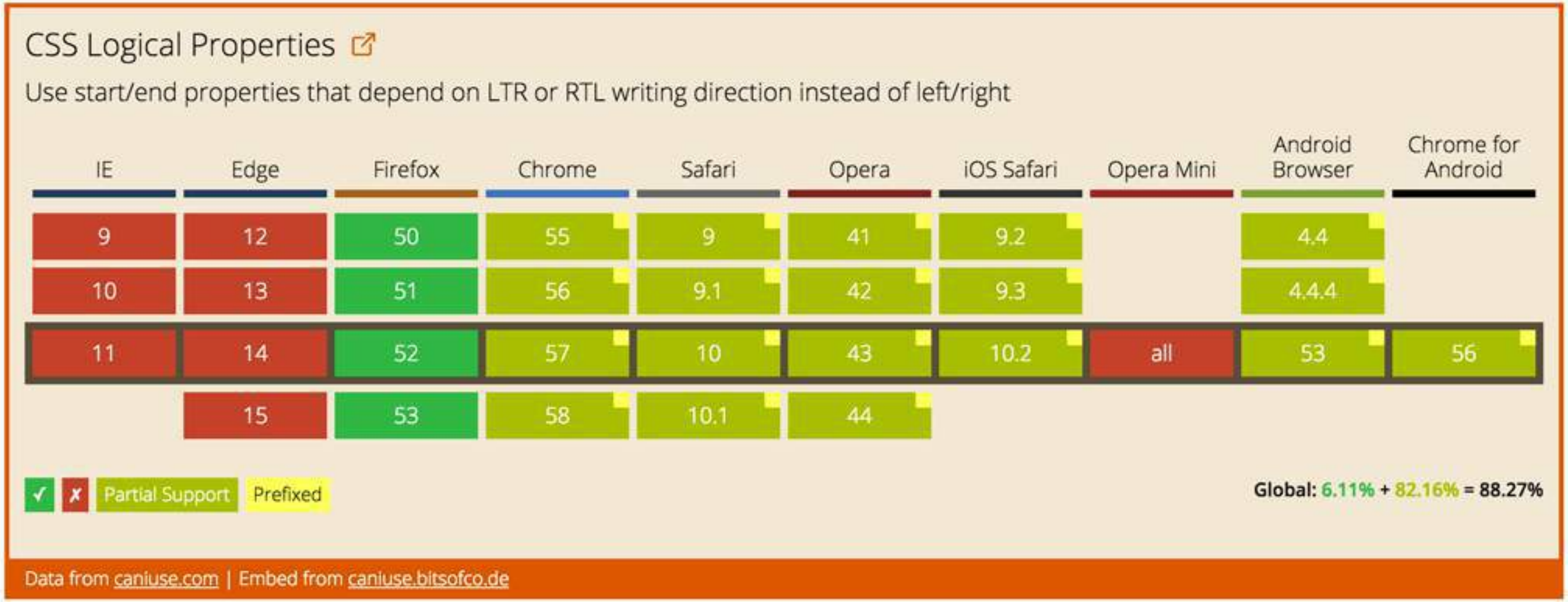
Introduces logical properties and values that provide the author with the ability to control layout through logical, rather than physical, direction and dimension mappings.

Source: CSSWG

start and end vs. left and right

CAN I USE? CANNOT.

Browser support: CSS Logical Properties



CSS Logical Properties

Use start/end properties that depend on LTR or RTL writing direction instead of left/right

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
9	12	50	55	9	41	9.2		4.4	
10	13	51	56	9.1	42	9.3		4.4.4	
11	14	52	57	10	43	10.2	all	53	56
	15	53	58	10.1	44				

✓ ✗ Partial Support Prefixed

Global: 6.11% + 82.16% = 88.27%

Data from caniuse.com | Embed from caniuse.bitsofco.de

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 🤓

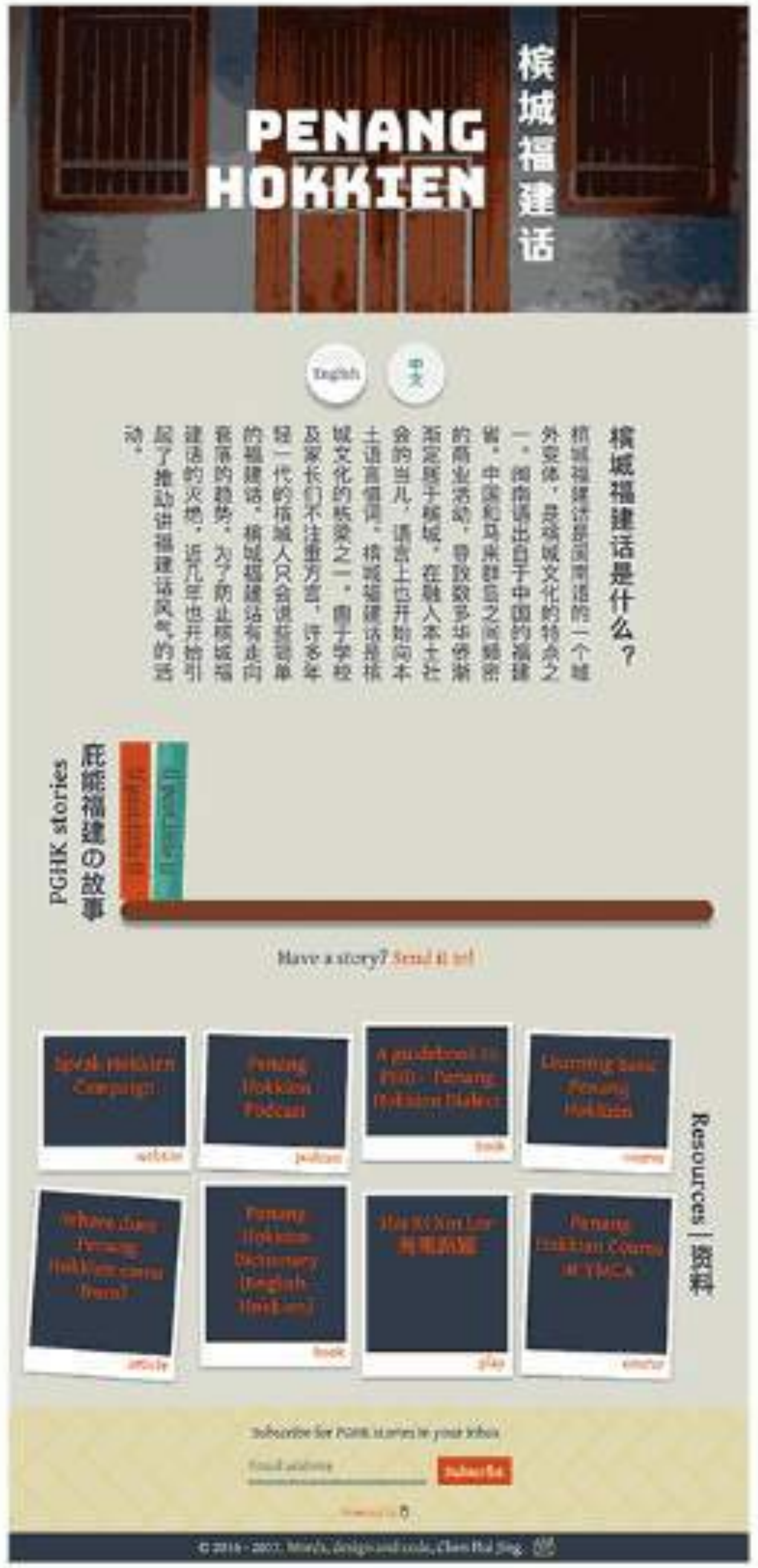
Grid container

- 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



PENANG HOKKIEN

槟城福建话

English 中文

槟城福建话是什么？

槟城福建话是闽南语的一个域外变体，是槟城文化的特点之一。闽南语出自于中国的福建省。中国和马来群岛之间频密的商业活动，导致数多华侨渐渐定居于槟城，在融入本土社会的当儿，语言上也开始向本土语言借词。槟城福建话是槟城文化的标志之一。由于学校及家长们不注重方言，许多年轻一代的槟城人只会讲些简单的福建话。槟城福建话有走向衰落的趋势。为了防止槟城福建话的火熄，近几年也开始引起了推动讲福建话风气的活动。

PGHK stories 庇能福建の故事

Have a story? Send it in!

Speak Hokkien Campaign — website

Penang Hokkien Podcast — podcast

A guidebook to PHD - Penang Hokkien Dialect — book

Learning basic Penang Hokkien — course

Where does Penang Hokkien come from? — article

Penang Hokkien Dictionary (English-Hokkien) — book

Hai Ki Kim Lor [illegible] — play

Penang Hokkien Course @ YMCA — course

Resources｜资料

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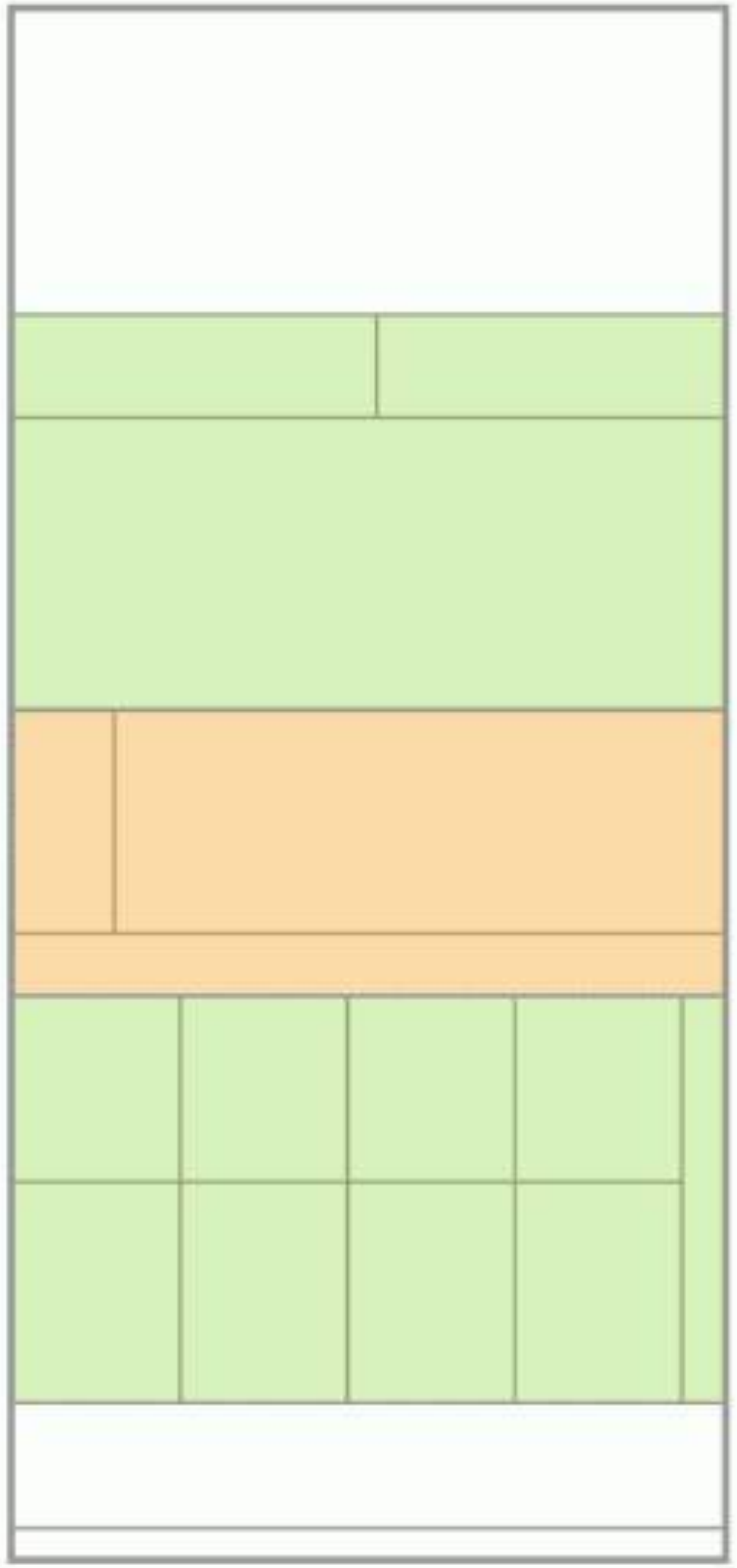
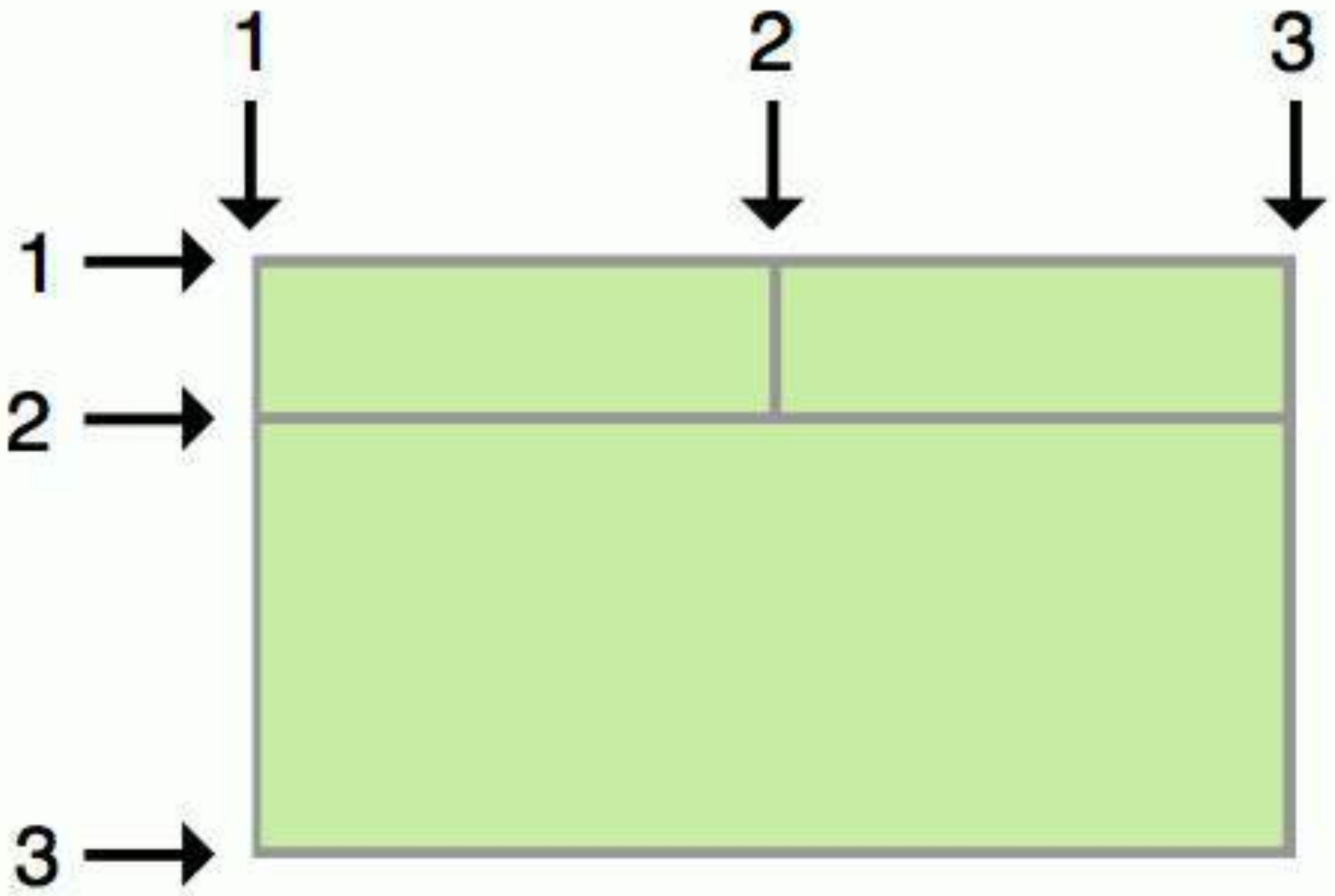
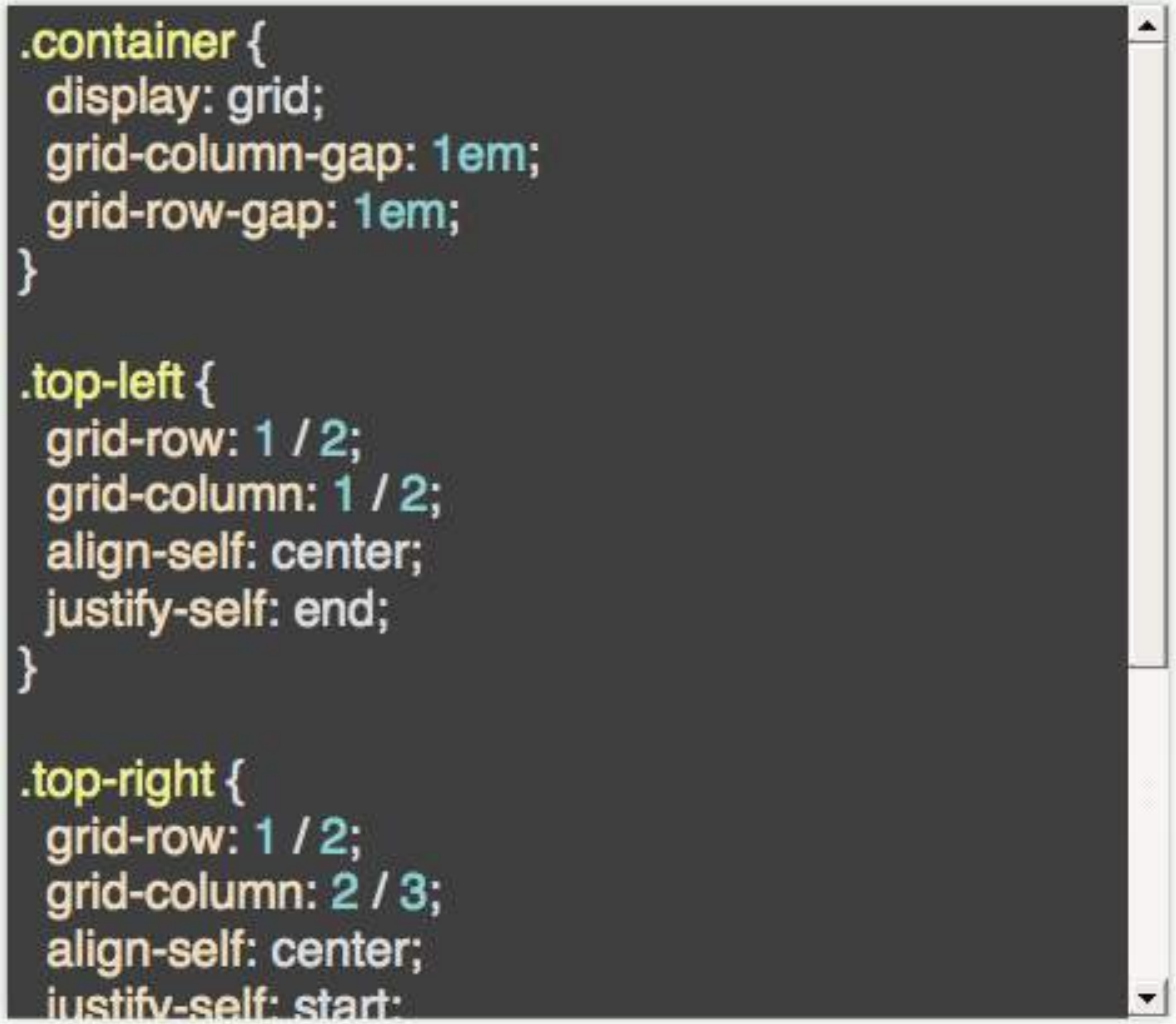


SIMPLE GRID

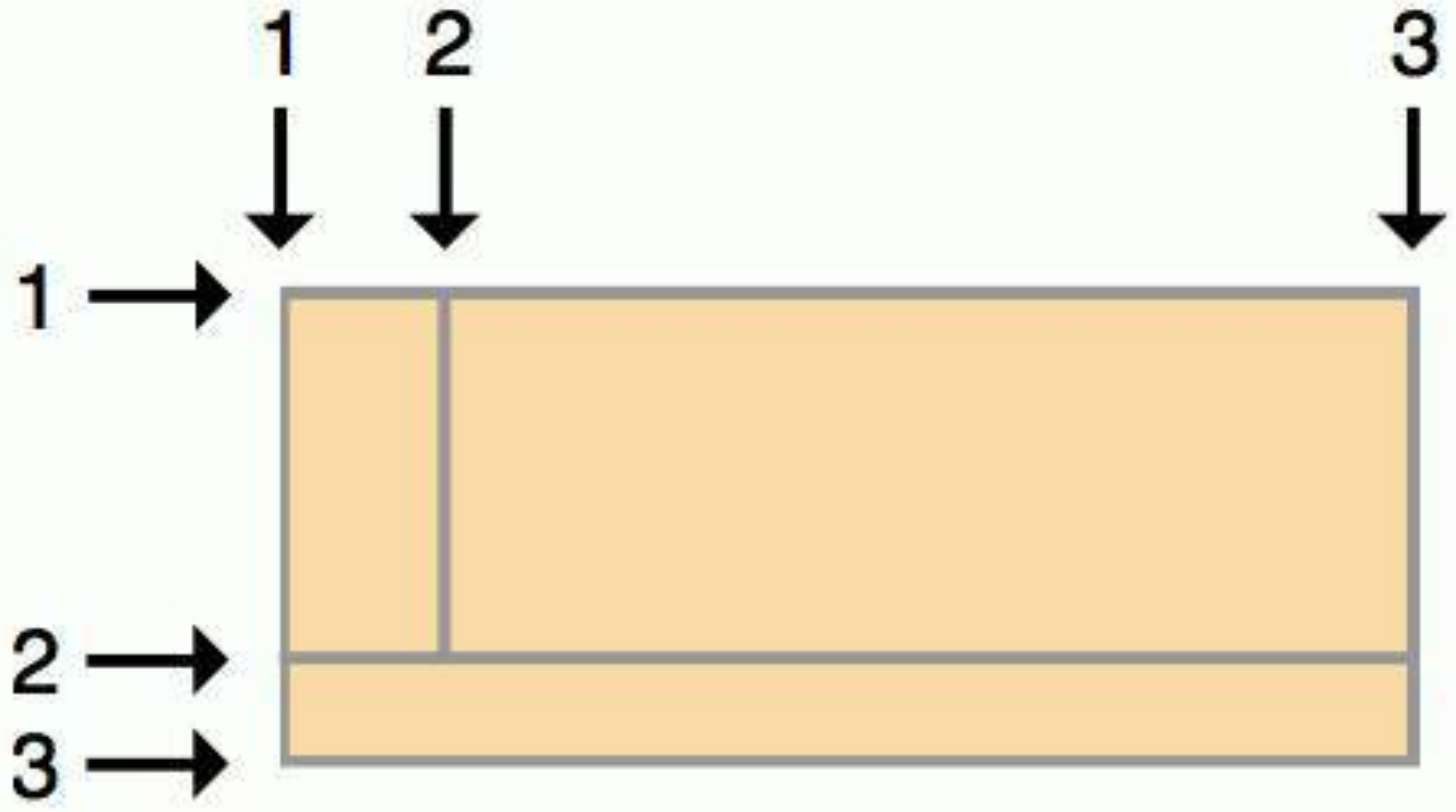


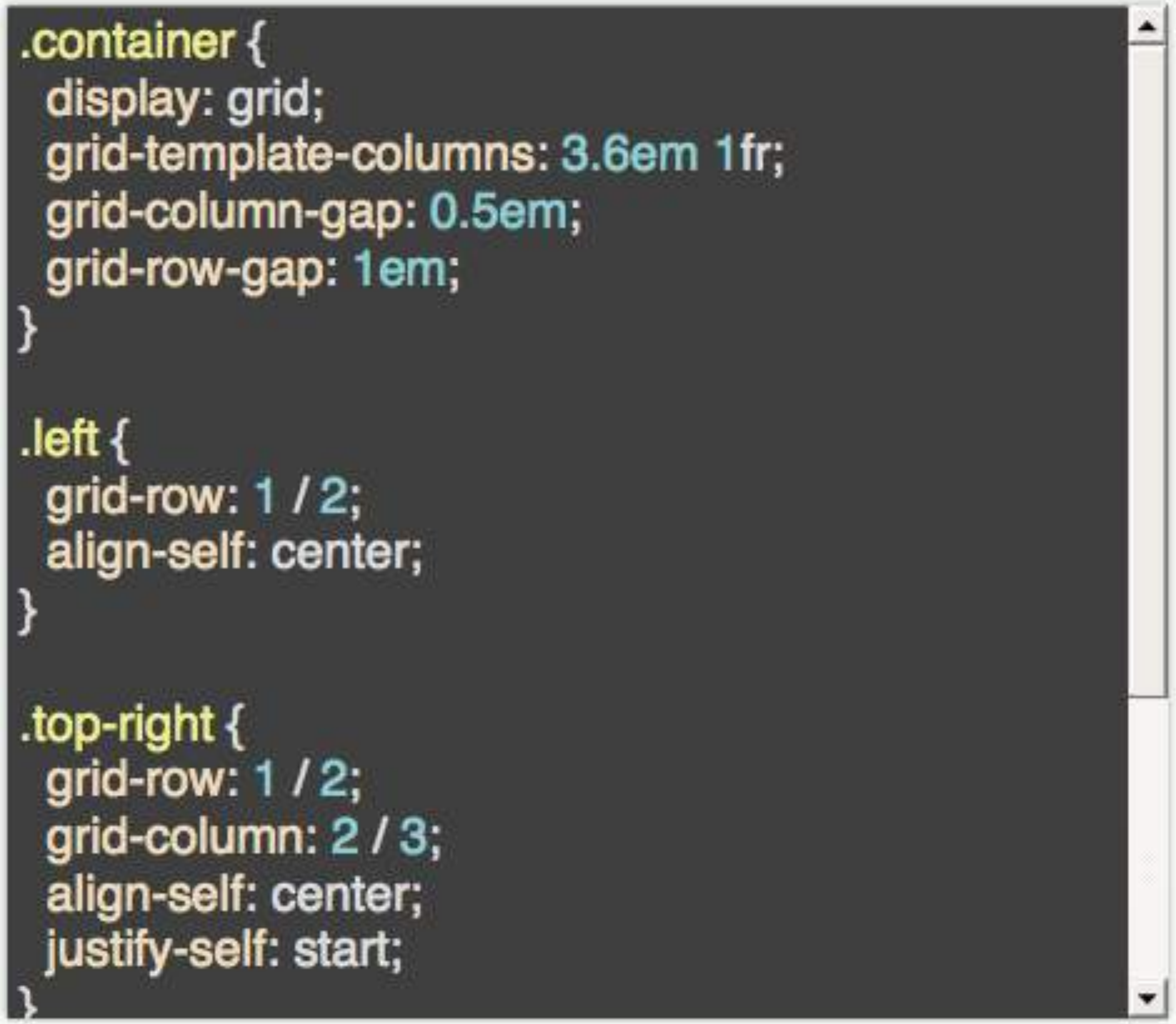


```
.container {
  display: grid;
  grid-column-gap: 1em;
  grid-row-gap: 1em;
}

.top-left {
  grid-row: 1 / 2;
  grid-column: 1 / 2;
  align-self: center;
  justify-self: end;
}

.top-right {
  grid-row: 1 / 2;
  grid-column: 2 / 3;
  align-self: center;
  justify-self: start;
```

ANOTHER SIMPLE GRID

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

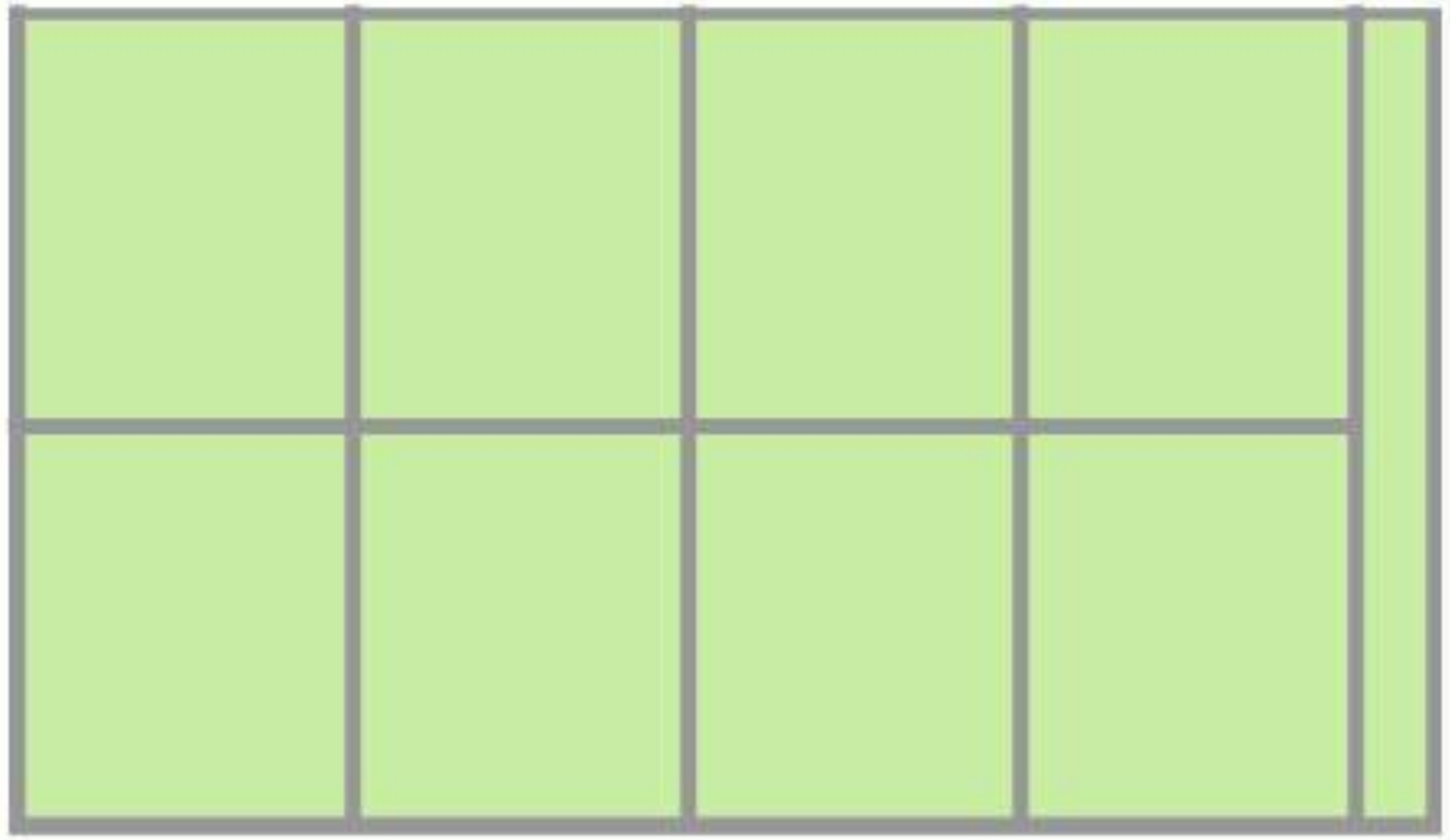


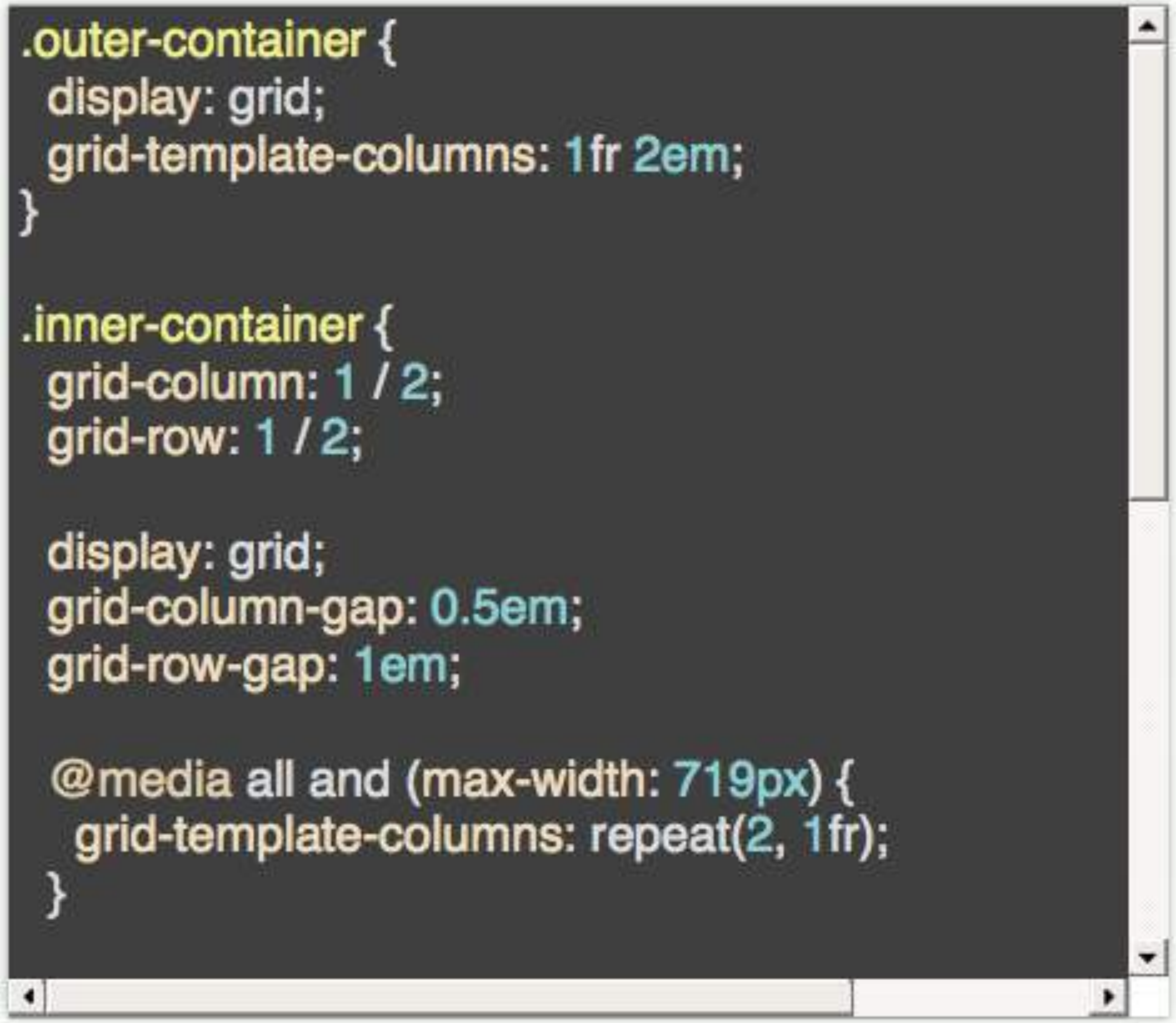


```
.container {
  display: grid;
  grid-template-columns: 3.6em 1fr;
  grid-column-gap: 0.5em;
  grid-row-gap: 1em;
}

.left {
  grid-row: 1 / 2;
  align-self: center;
}

.top-right {
  grid-row: 1 / 2;
  grid-column: 2 / 3;
  align-self: center;
  justify-self: start;
}
```

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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