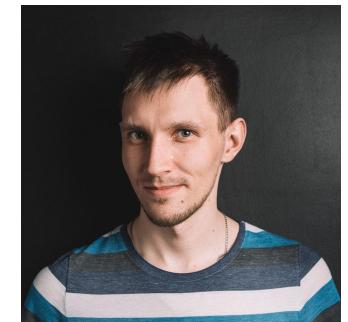
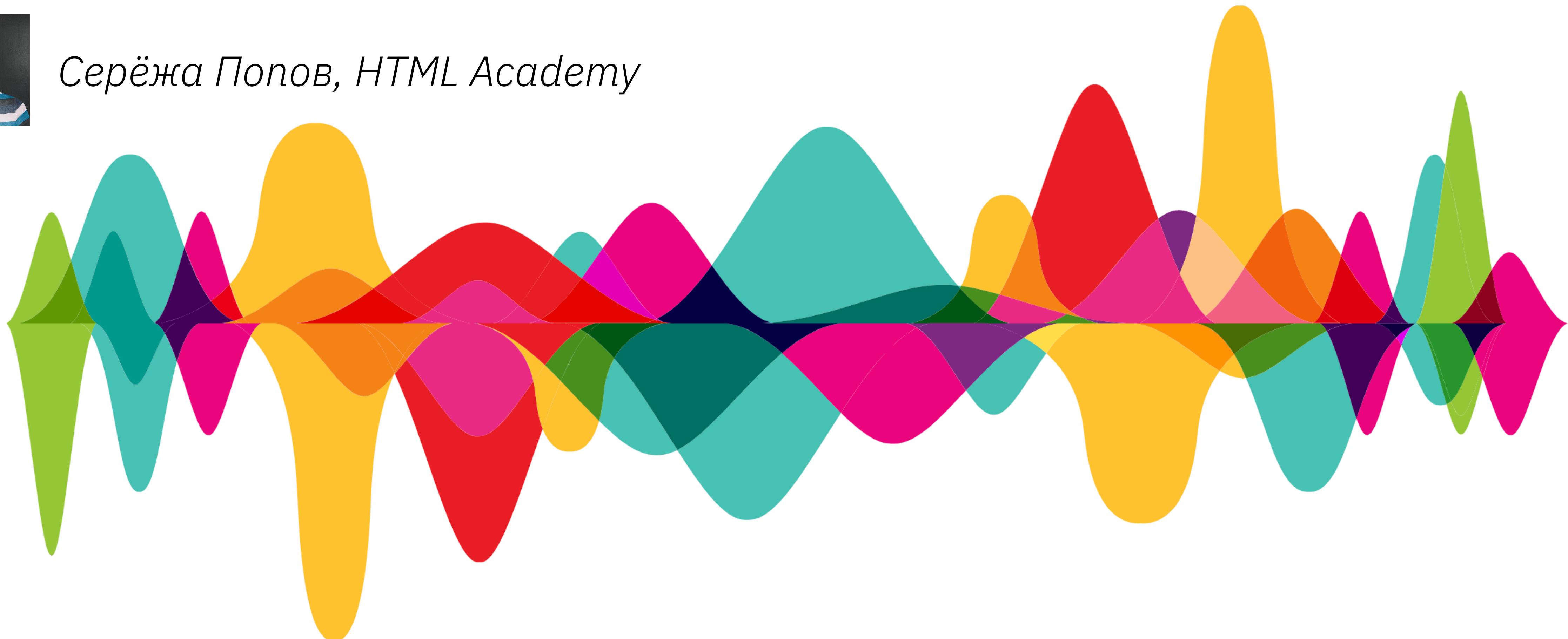


Пора начинать фыркать!



Серёжа Попов, HTML Academy





ЛИГА
ФРОНТЕНД
АУТСОРС



html
academy

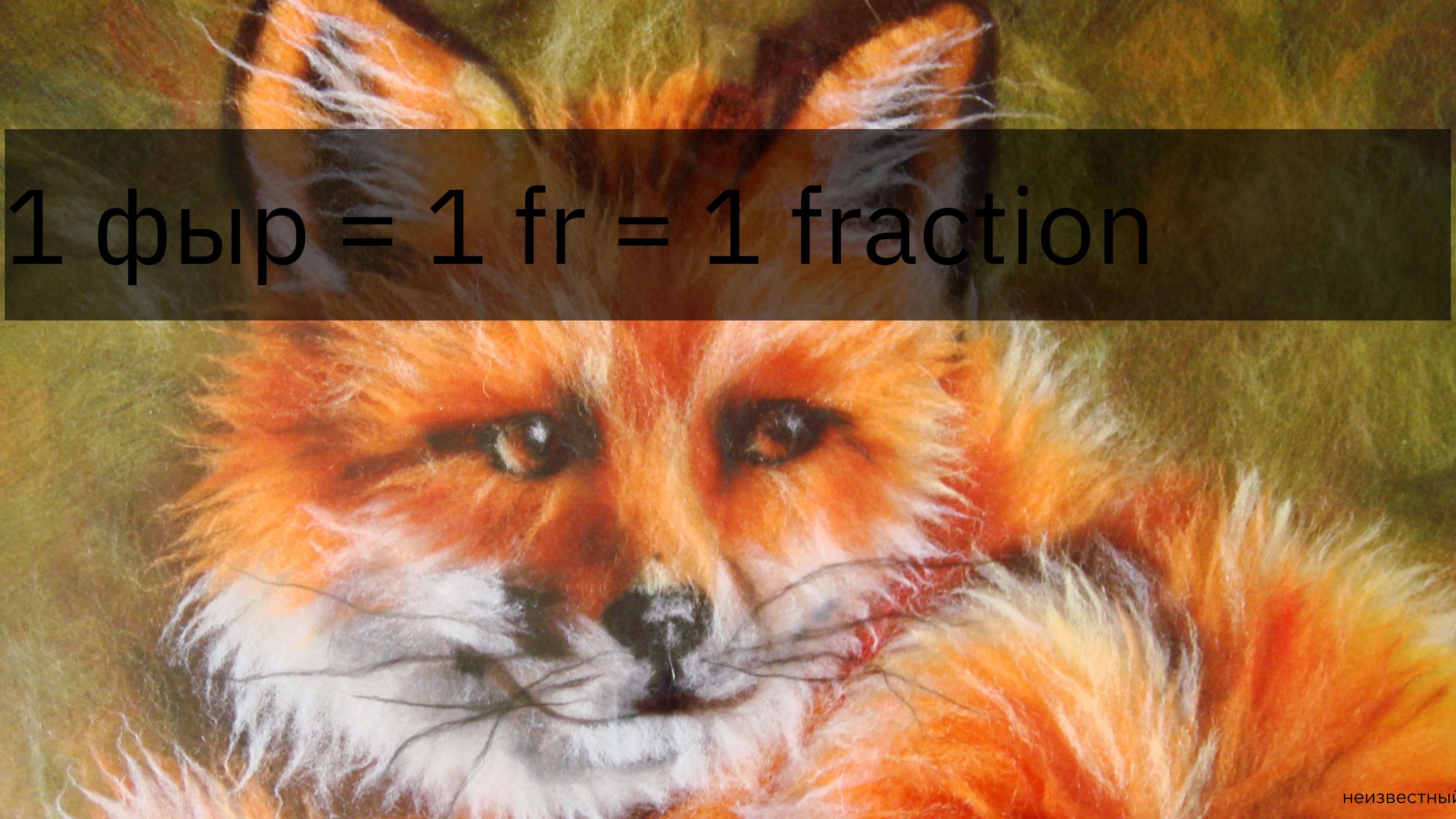
интерактивные
онлайн-курсы



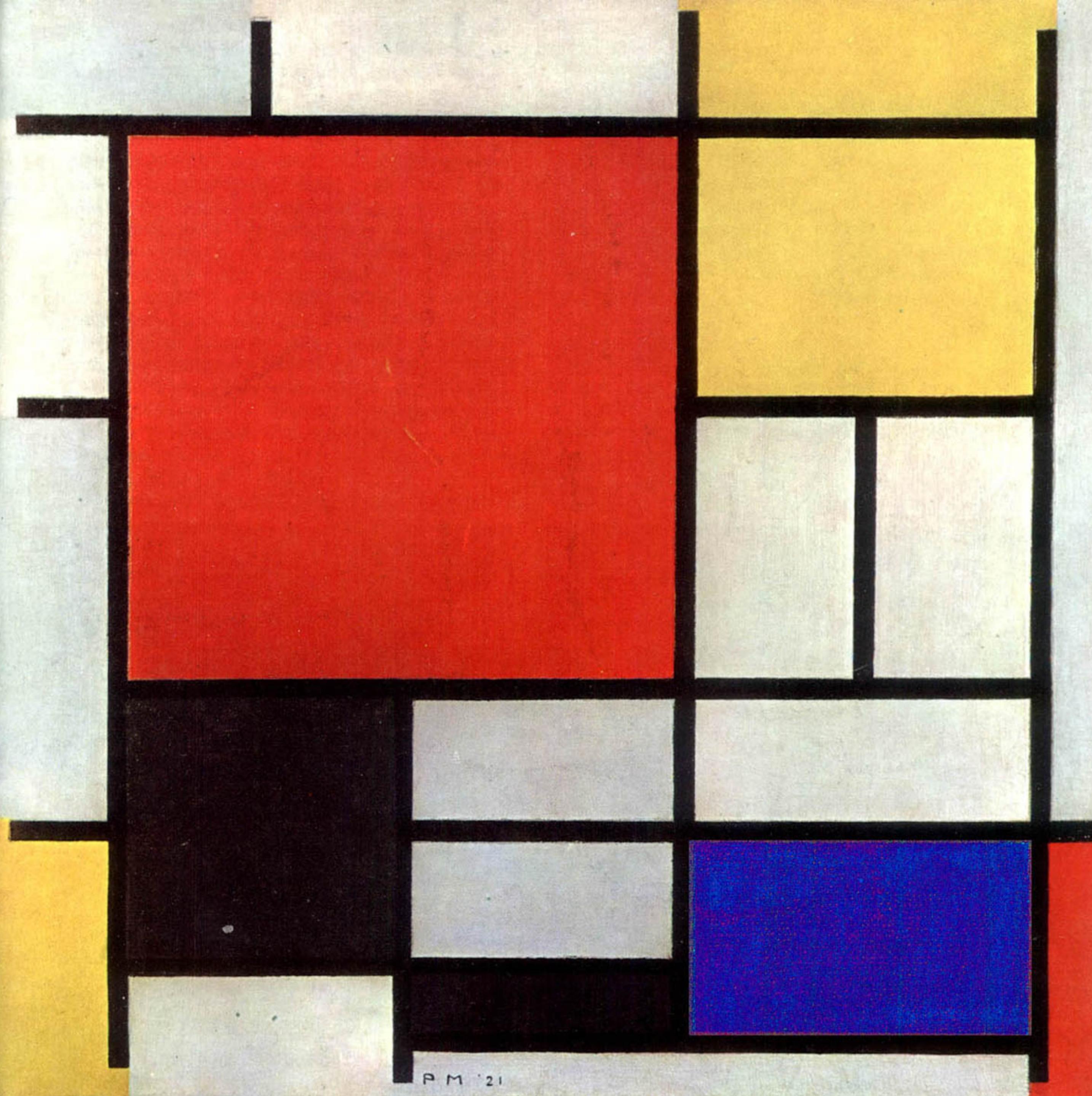
★
CSS

Пора начинать

сыркать*



1 фыр = 1 fr = 1 fraction

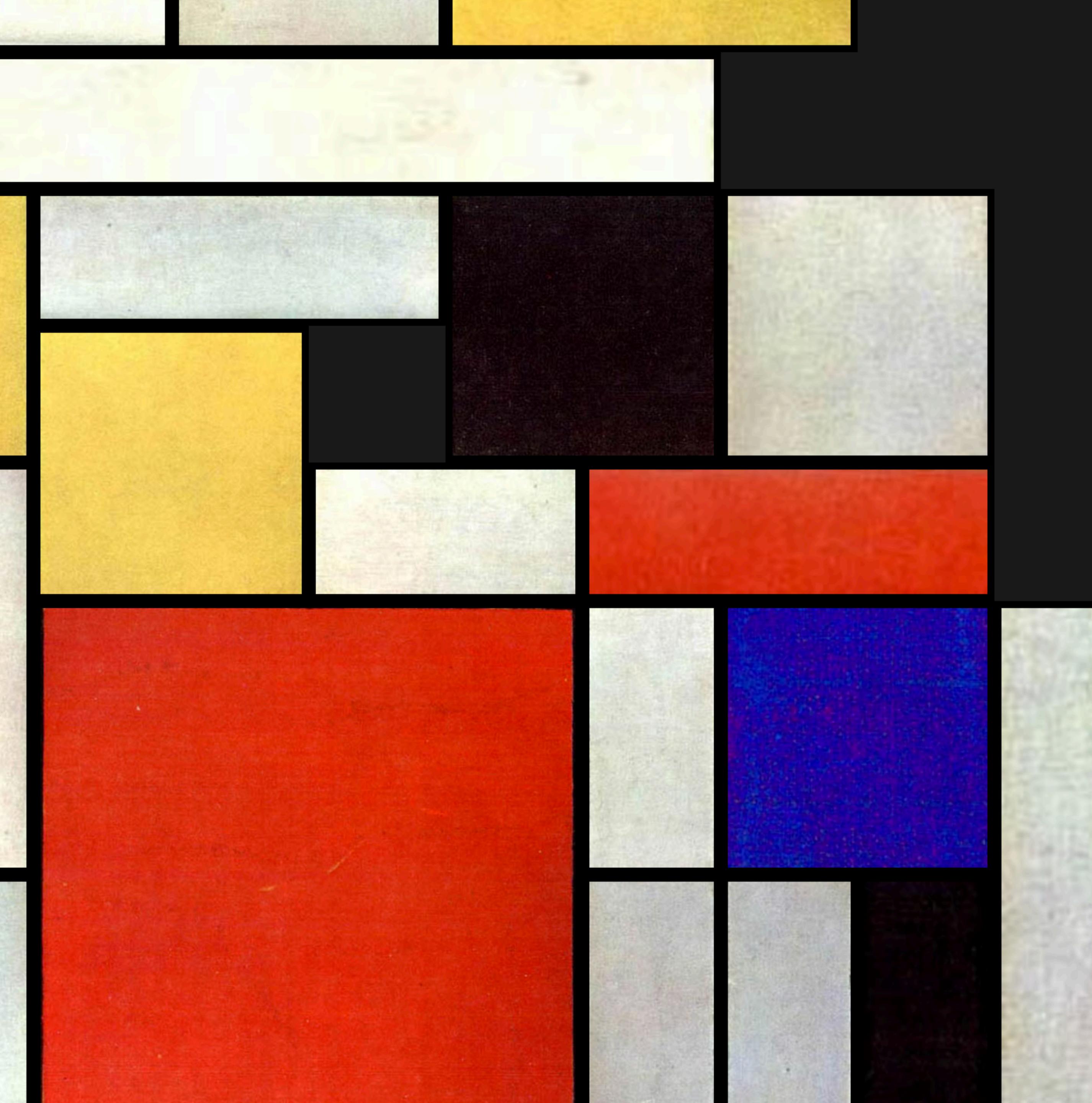


Piet Mondrian –
Composition with Large
Blue Plane, Red, Black,
Yellow, and Gray

1921 год – Холст, масло

Jen Simmons –
Responsive Mondrian

2017 год – HTML, CSS



План

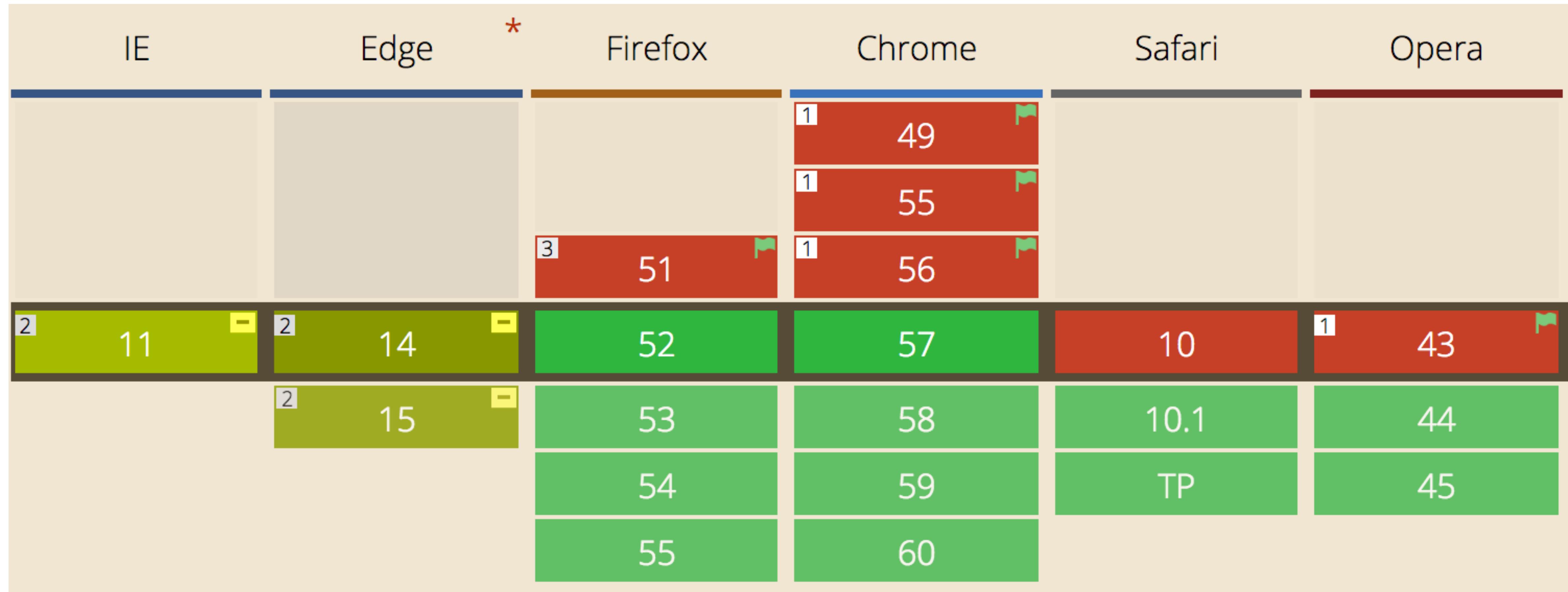
- Почему Grid Layout?
- Самое интересное

Почему вообще Grid Layout?

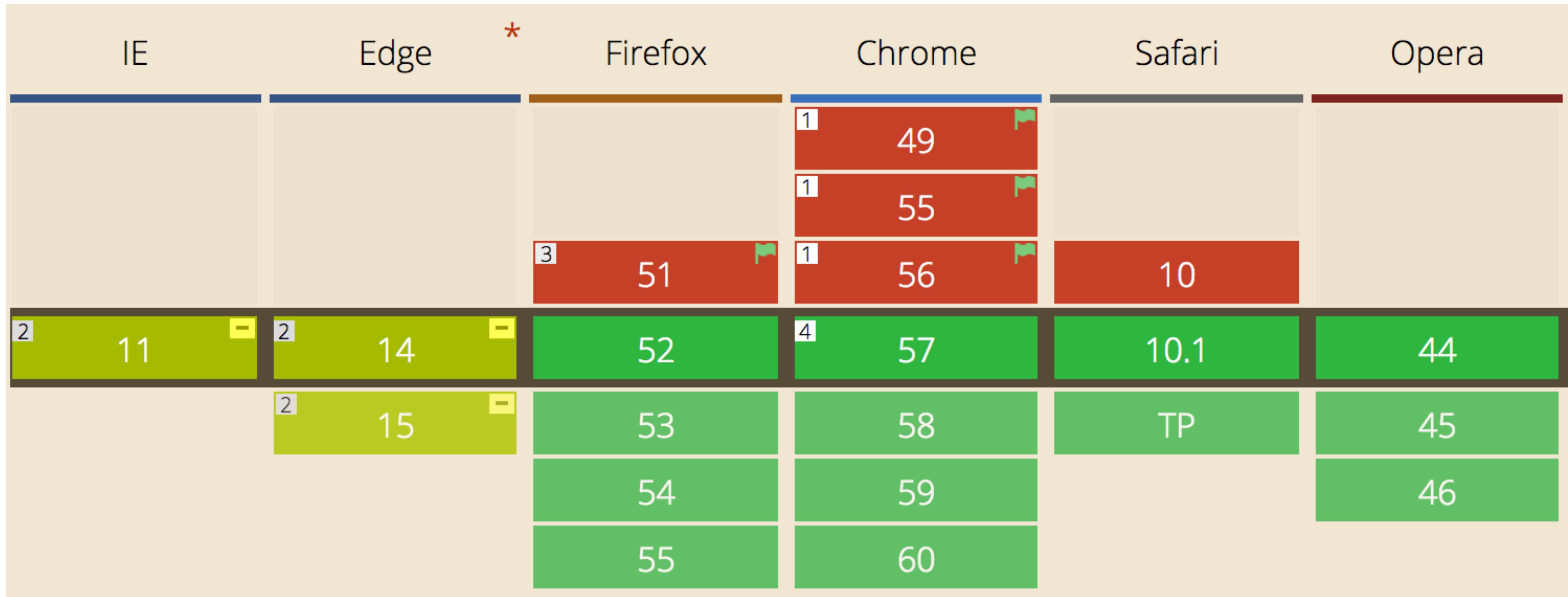


Почему сейчас?

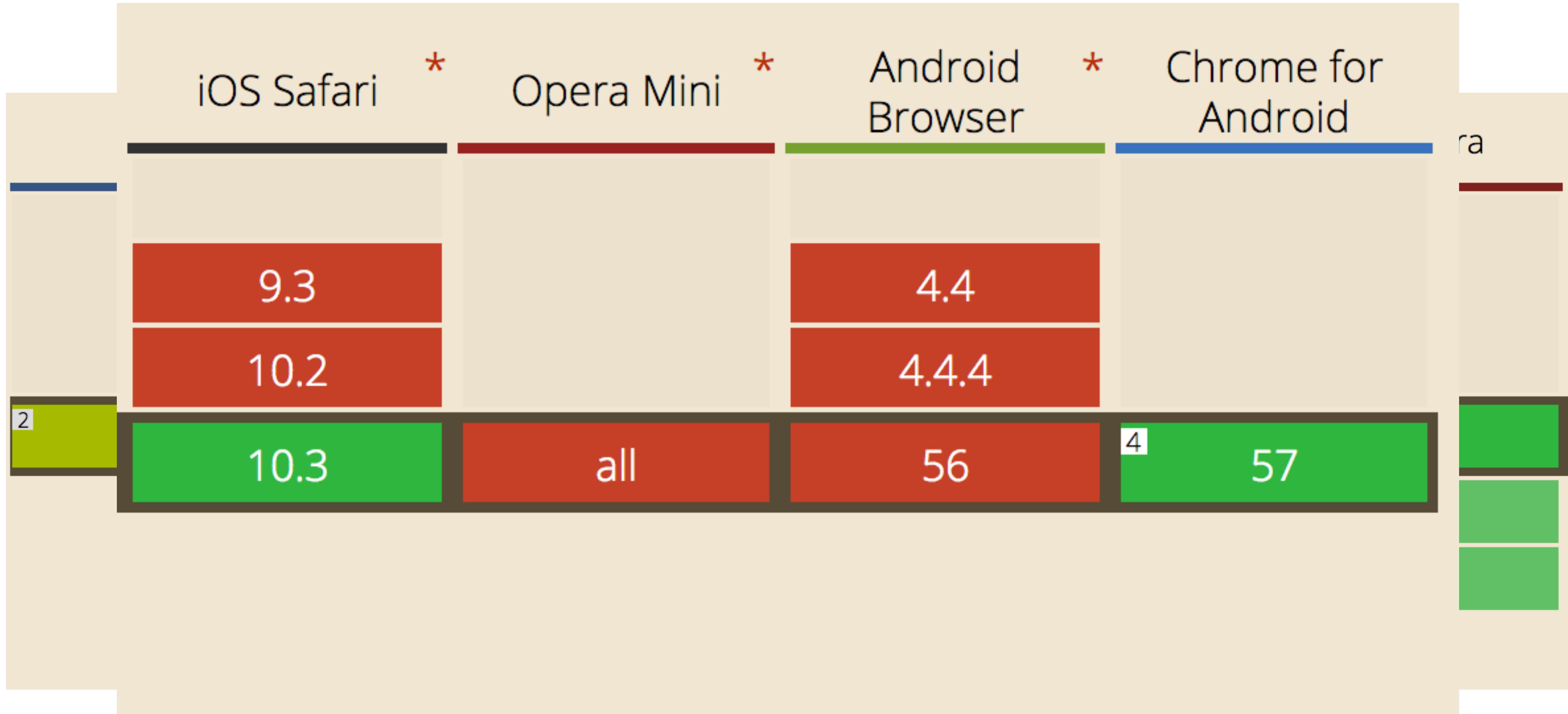
Они уже здесь - март



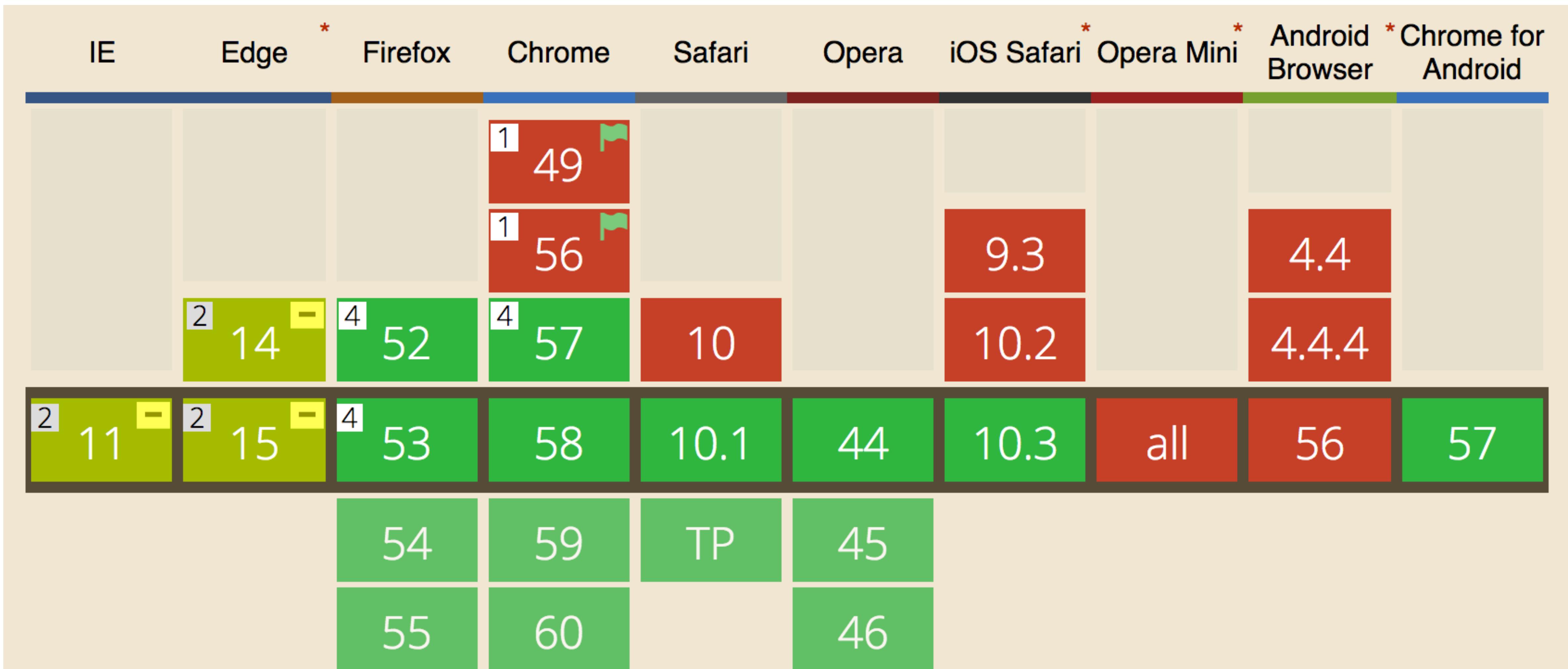
Они уже здесь – май



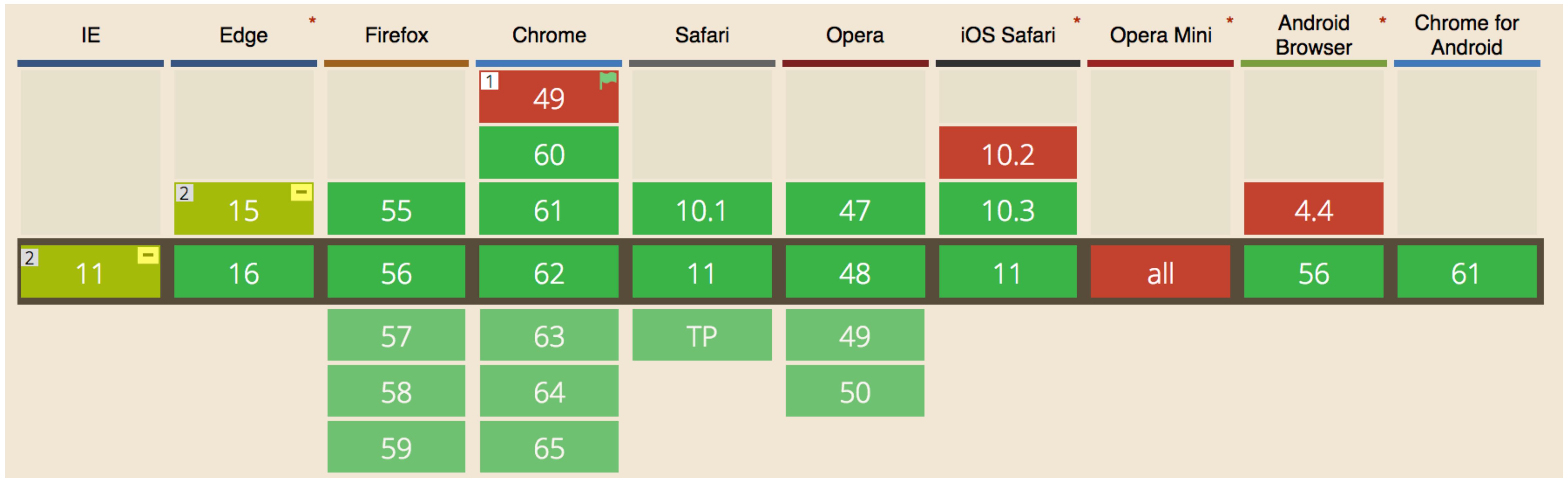
Они уже здесь – май



Они уже здесь – июнь



Они уже здесь – октябрь



5.1	Establishing Grid Containers: the ' grid ', ' inline-grid ', and ' subgrid ' ' display ' values
5.2	Sizing Grid Containers
5.3	Clamping Overly Large Grids
6	Grid Items
6.1	Grid Item Display
6.2	Grid Item Sizing
6.3	Reordered Grid Items: the ' order ' property
6.4	Grid Item Margins and Paddings
6.5	Z-axis Ordering: the ' z-index ' property
6.6	Implied Minimum Size of Grid Items
7	Defining the Grid
7.1	The Explicit Grid
7.2	Explicit Track Sizing: the ' grid-template-rows ' and ' grid-template-columns ' properties
7.2.1	Implicit Grid Lines: the ' [<custom-ident>*] ' syntax
7.2.2	Repeating Rows and Columns: the ' repeat() ' notation
7.2.2.1	Syntax of ' repeat() '
7.2.2.2	Repeat-to-fill: ' auto-fill ' and ' auto-fit ' repetitions
7.2.3	Flexible Lengths: the ' fr ' unit
7.2.4	Resolved Values
7.3	Named Areas: the ' grid-template-areas ' property
7.3.1	Implicit Named Lines
7.3.2	Implicit Named Areas
7.4	Explicit Grid Shorthand: the

Начните использовать

хватит читать!

```
grid-template-rows: 10px repeat(2, 1fr auto minmax(30%, 1fr));
grid-template-rows: calc(4em - 5px);
```

Note: The size of the grid is not purely the sum of the track sizes, as '[grid-row-gap](#)', '[grid-column-gap](#)' and '[justify-content](#)', '[align-content](#)' can add additional space between tracks.

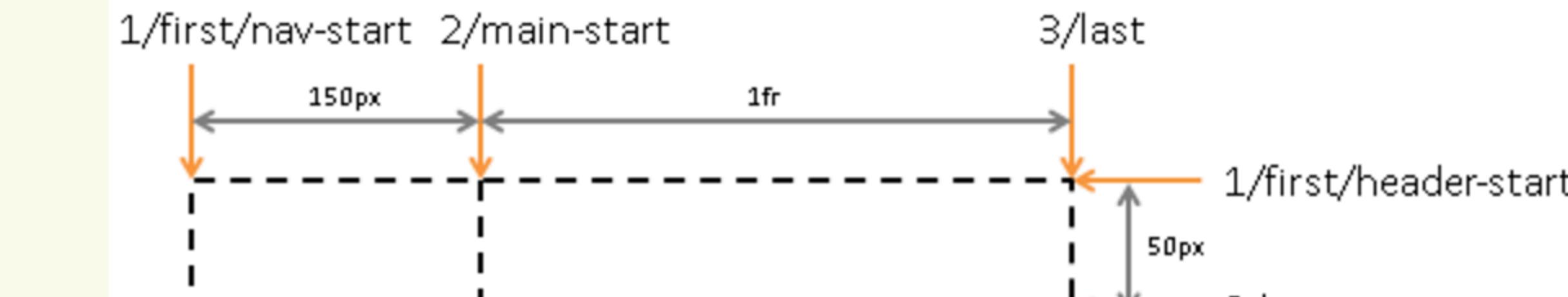
§ 7.2.1. Named Grid Lines: the '[\[<custom-ident>*\]](#)' syntax

While grid lines can always be referred to by their numerical index, **named lines** can make the grid-placement properties easier to understand and maintain. Lines can be explicitly named in the '[grid-template-rows](#)' and '[grid-template-columns](#)' properties, or implicitly named by referring to named grid areas with the '[grid-template-areas](#)' property.

EXAMPLE 16

For example, the following code gives meaningful names to all of the lines in the grid. Note that some of the lines have multiple names.

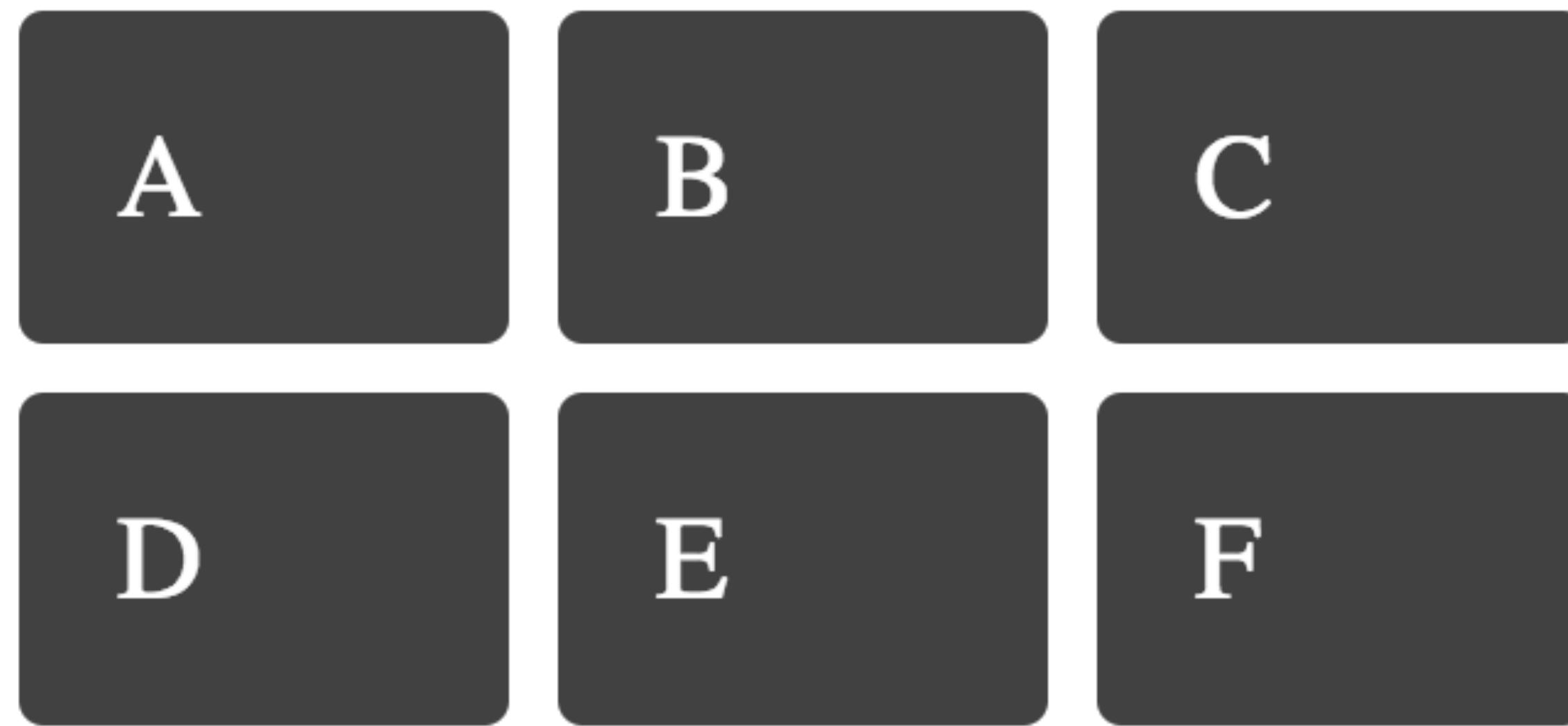
```
grid {
  display: grid;
  grid-template-columns: [first nav-start] 150px [main-start] 1fr [last];
  grid-template-rows: [first header-start] 50px [main-start] 1fr [footer-start] 50px [last];
}
```



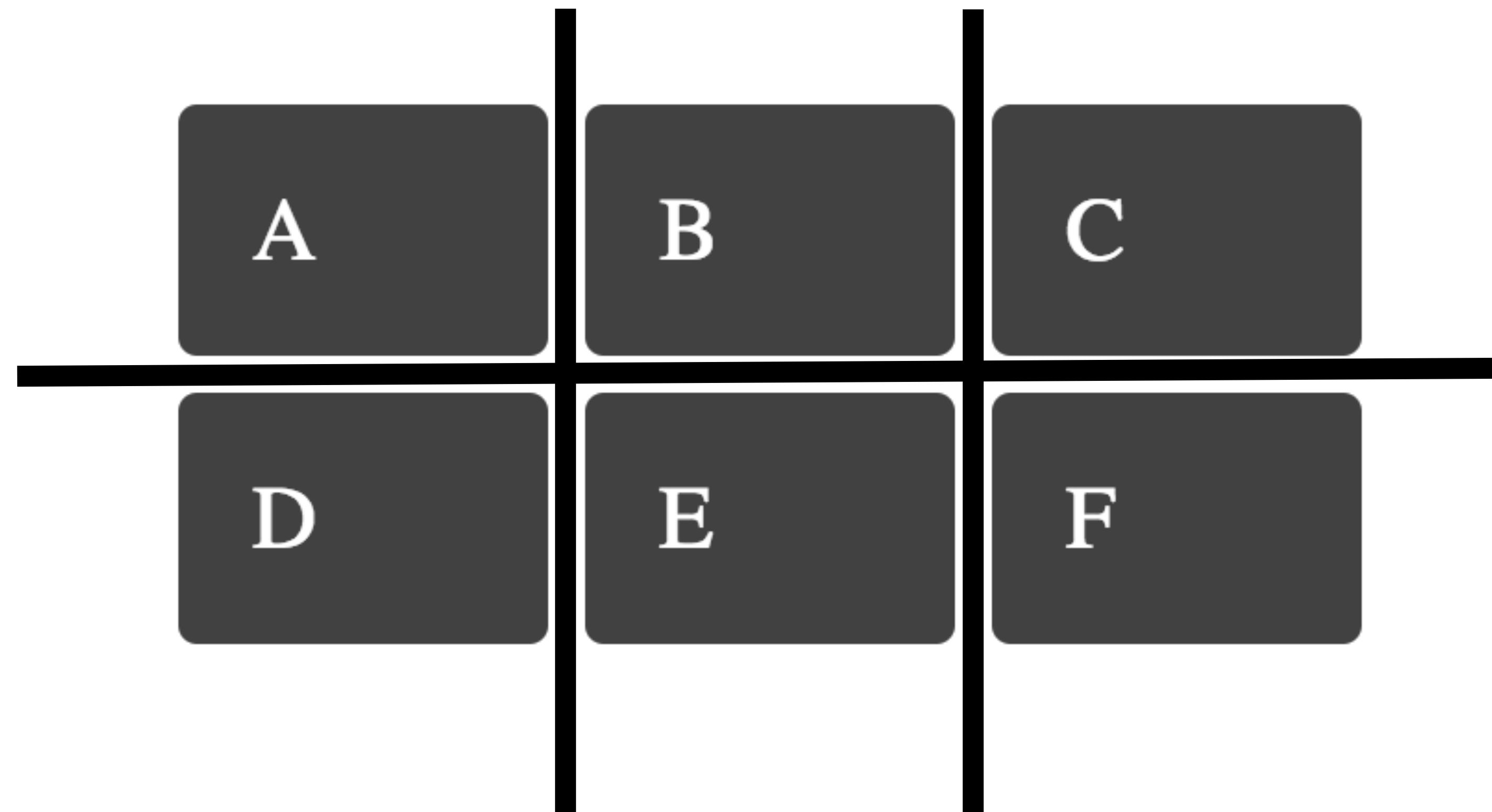
Самое интересное!

- Grid Blocks
- Grid Template Areas
- Grid auto-flow

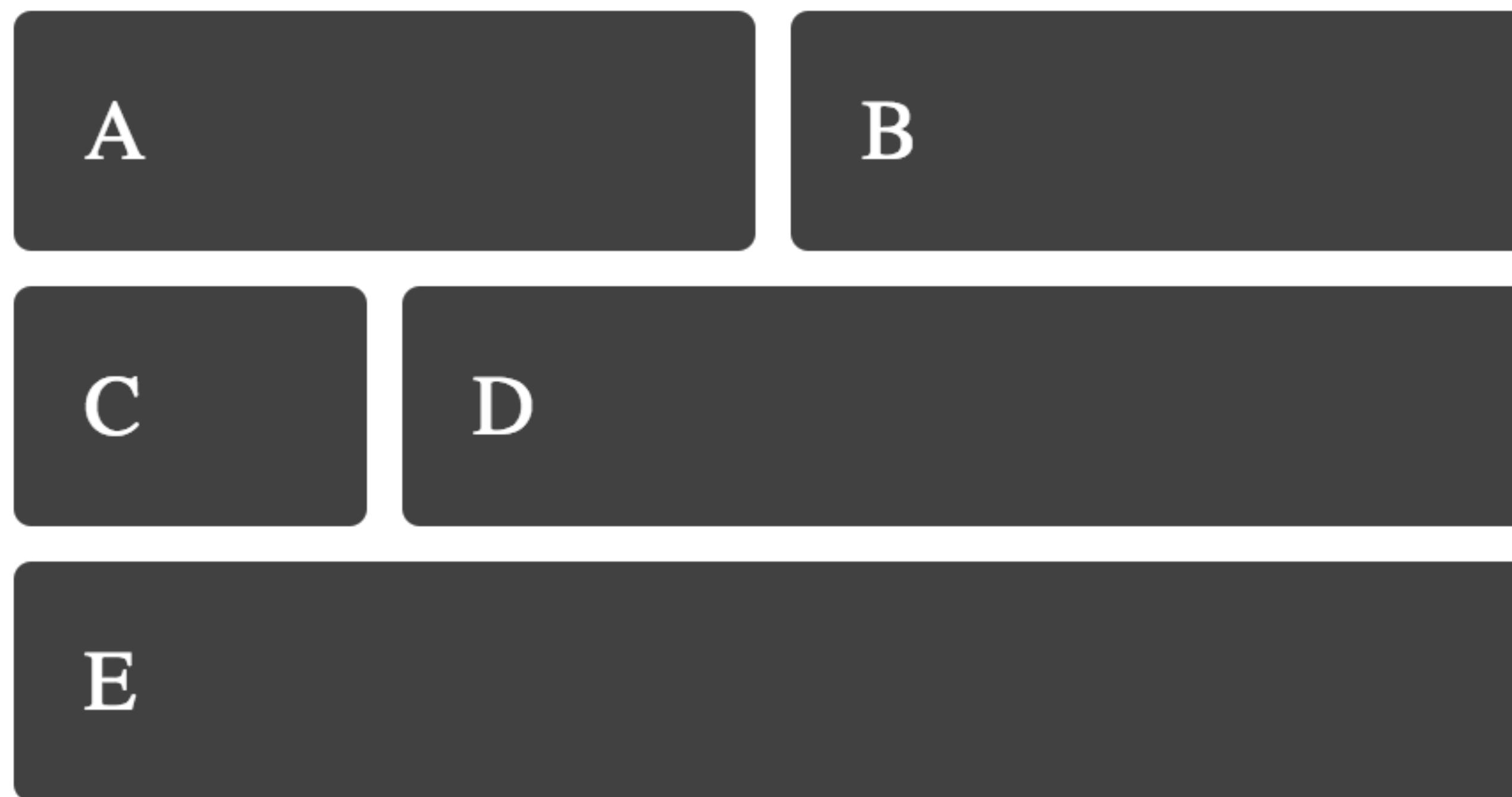
Grid Blocks



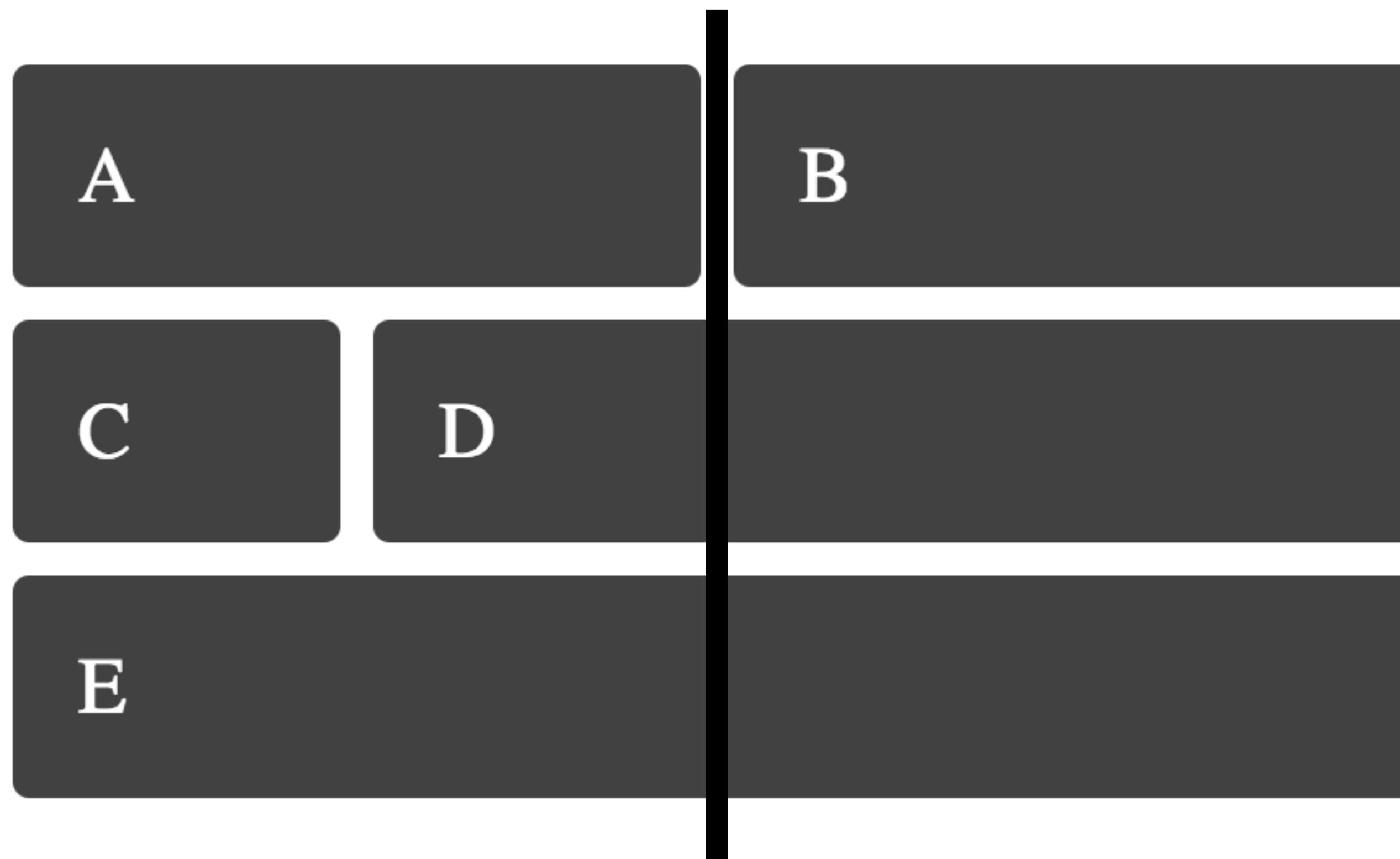
Grid Blocks



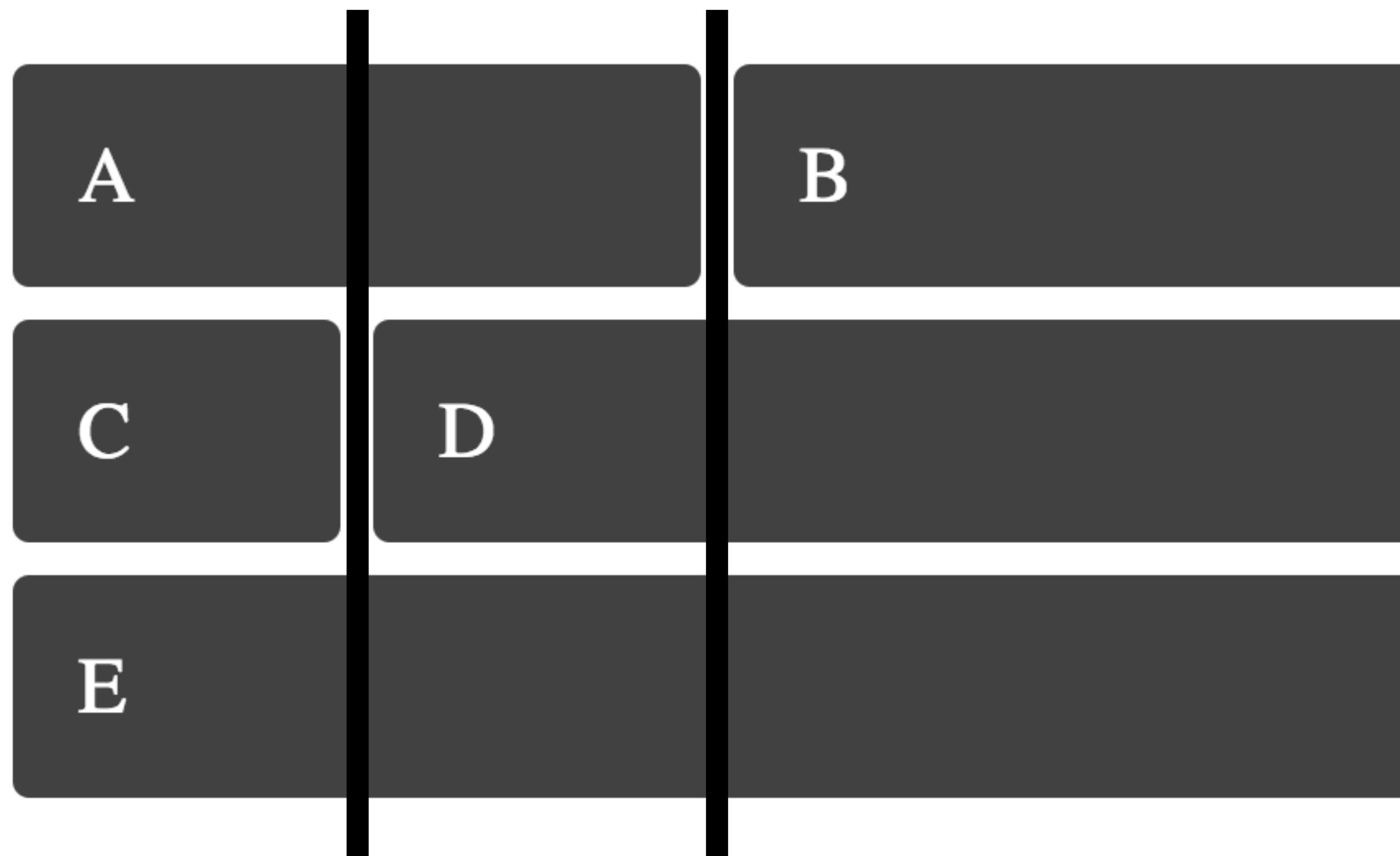
Grid Blocks



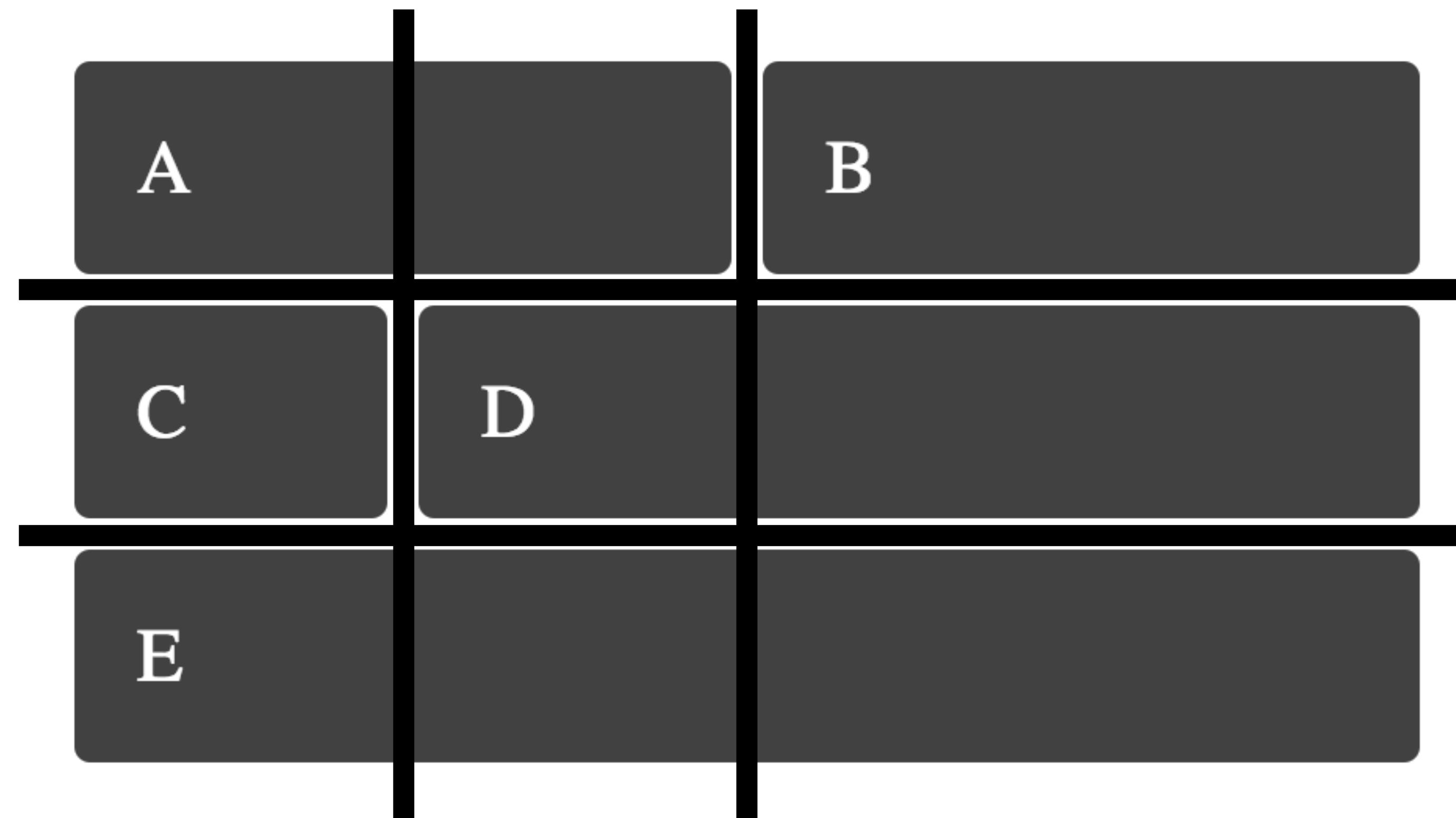
Grid Blocks



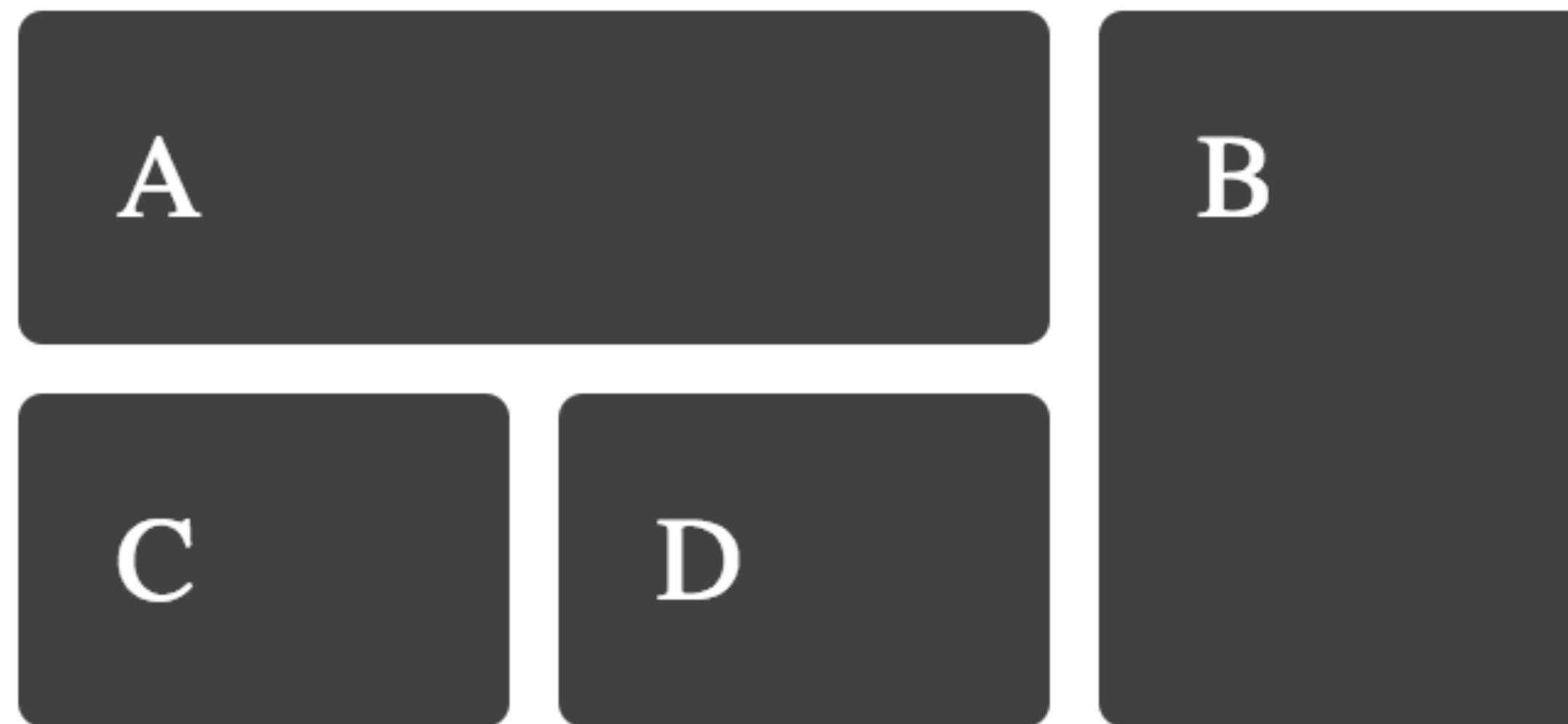
Grid Blocks



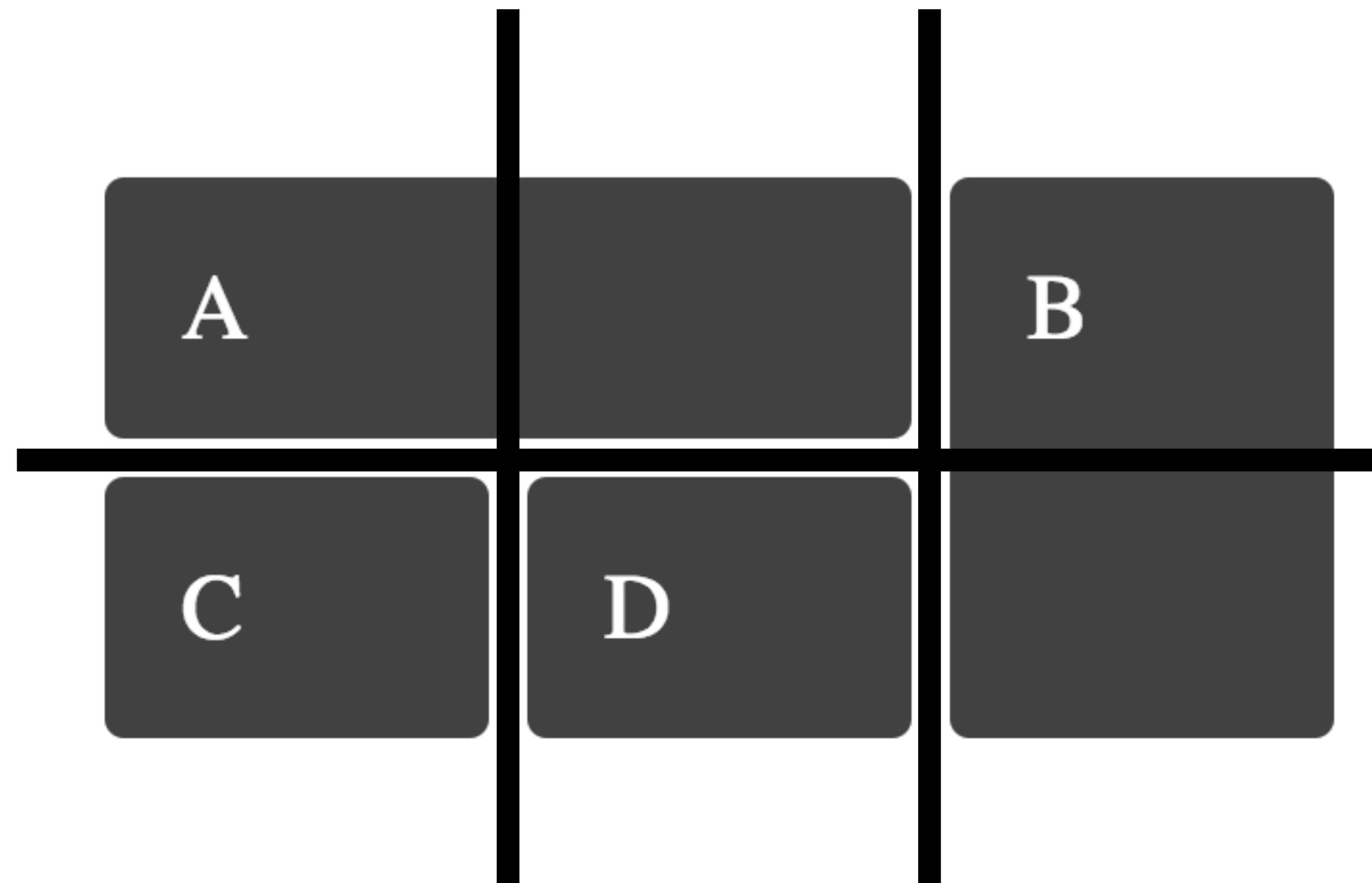
Grid Blocks



Grid Blocks



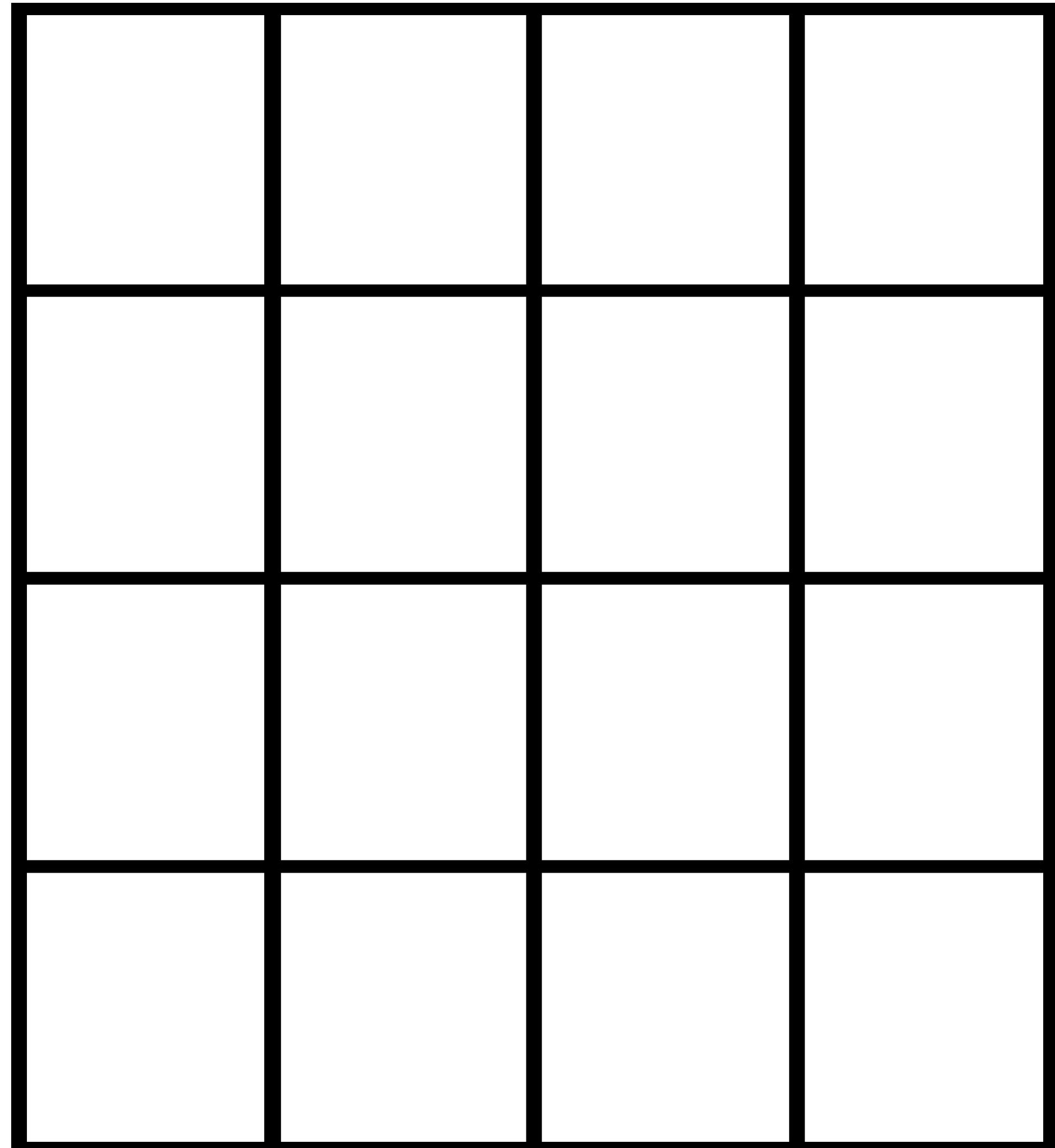
Grid Blocks



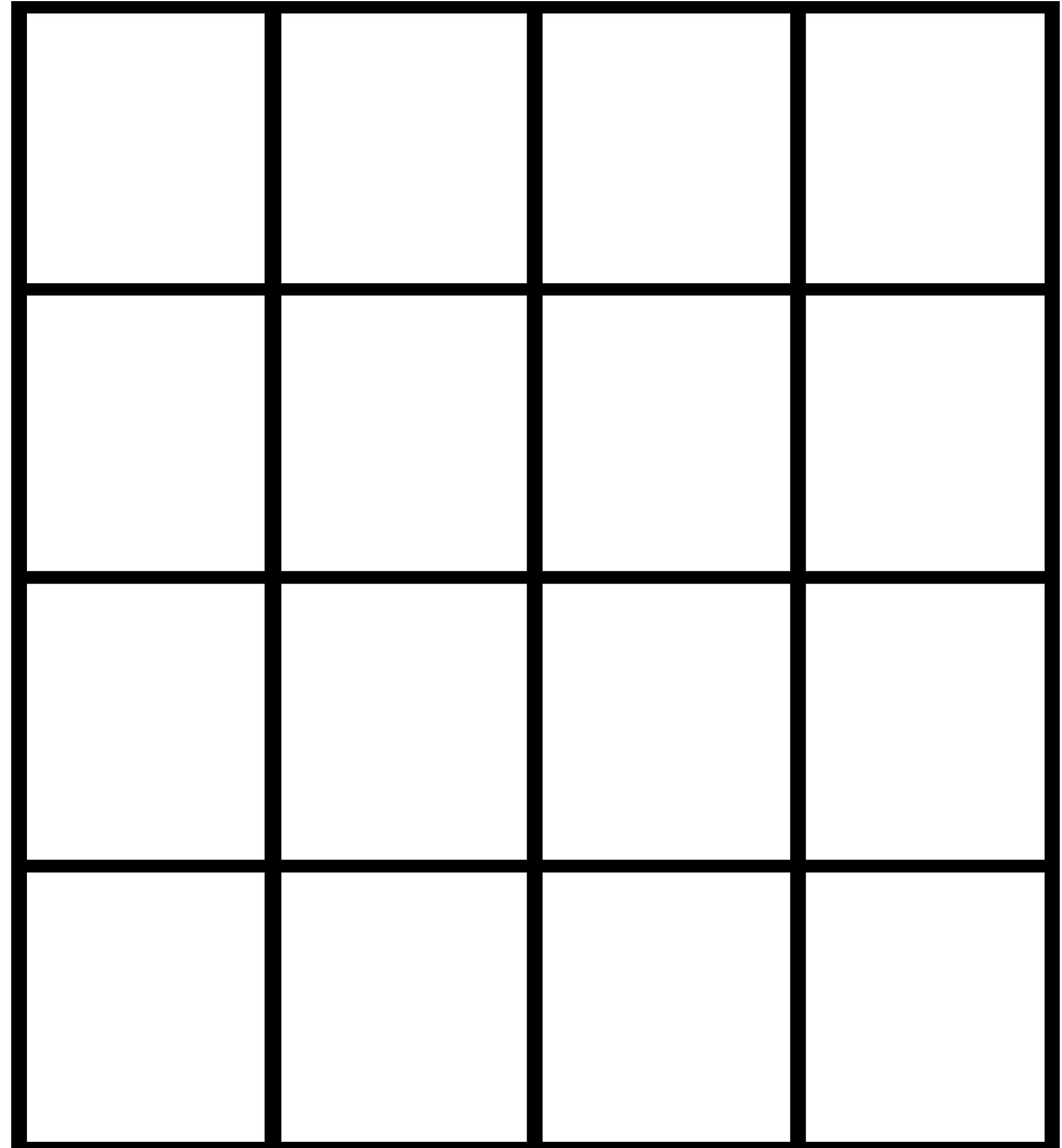
делаем

Илья Репин - Бурлак

Grid Template Areas



Grid Template Areas



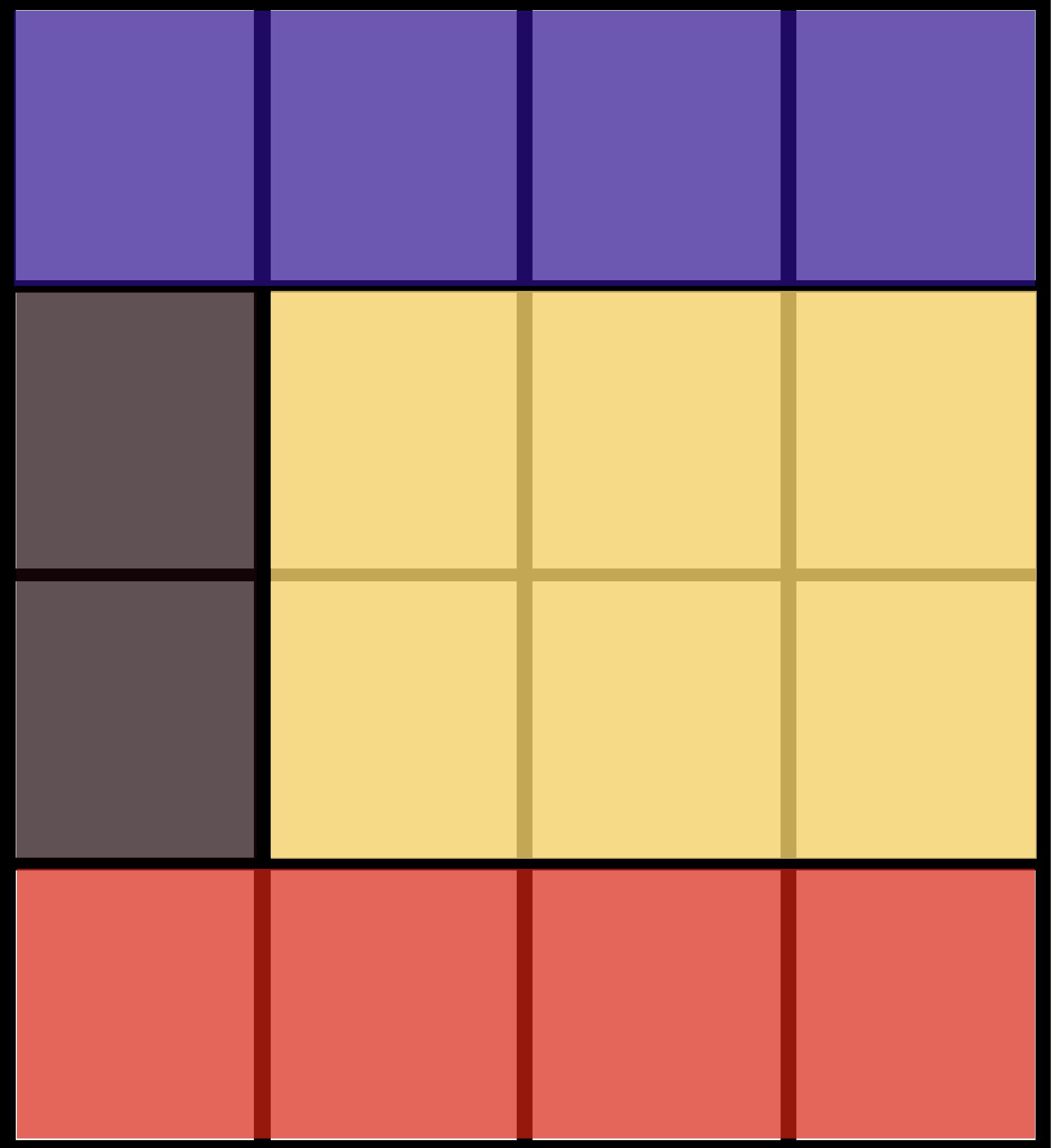
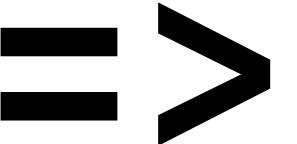
Grid Template Areas

header

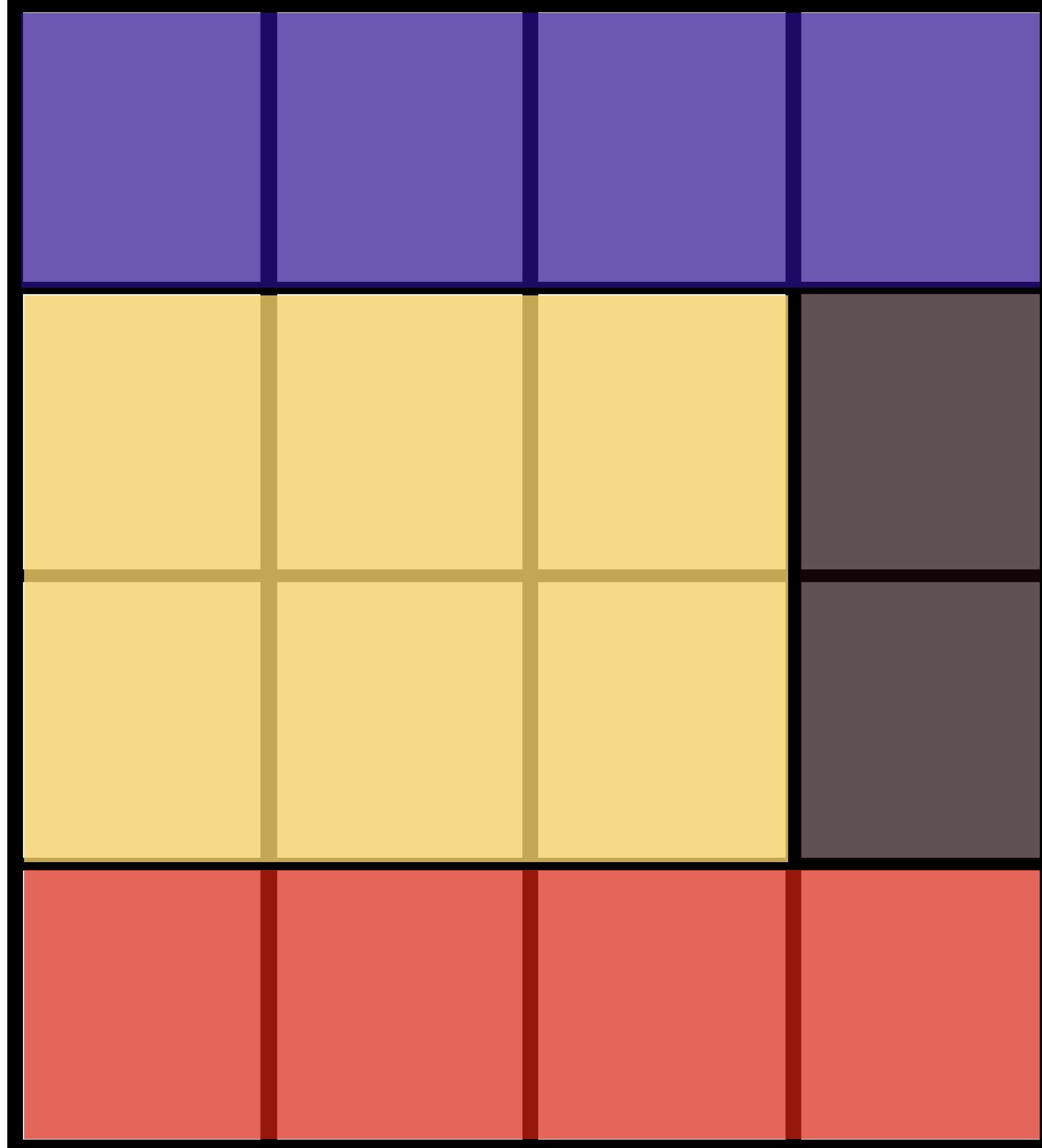
sidebar

content

footer

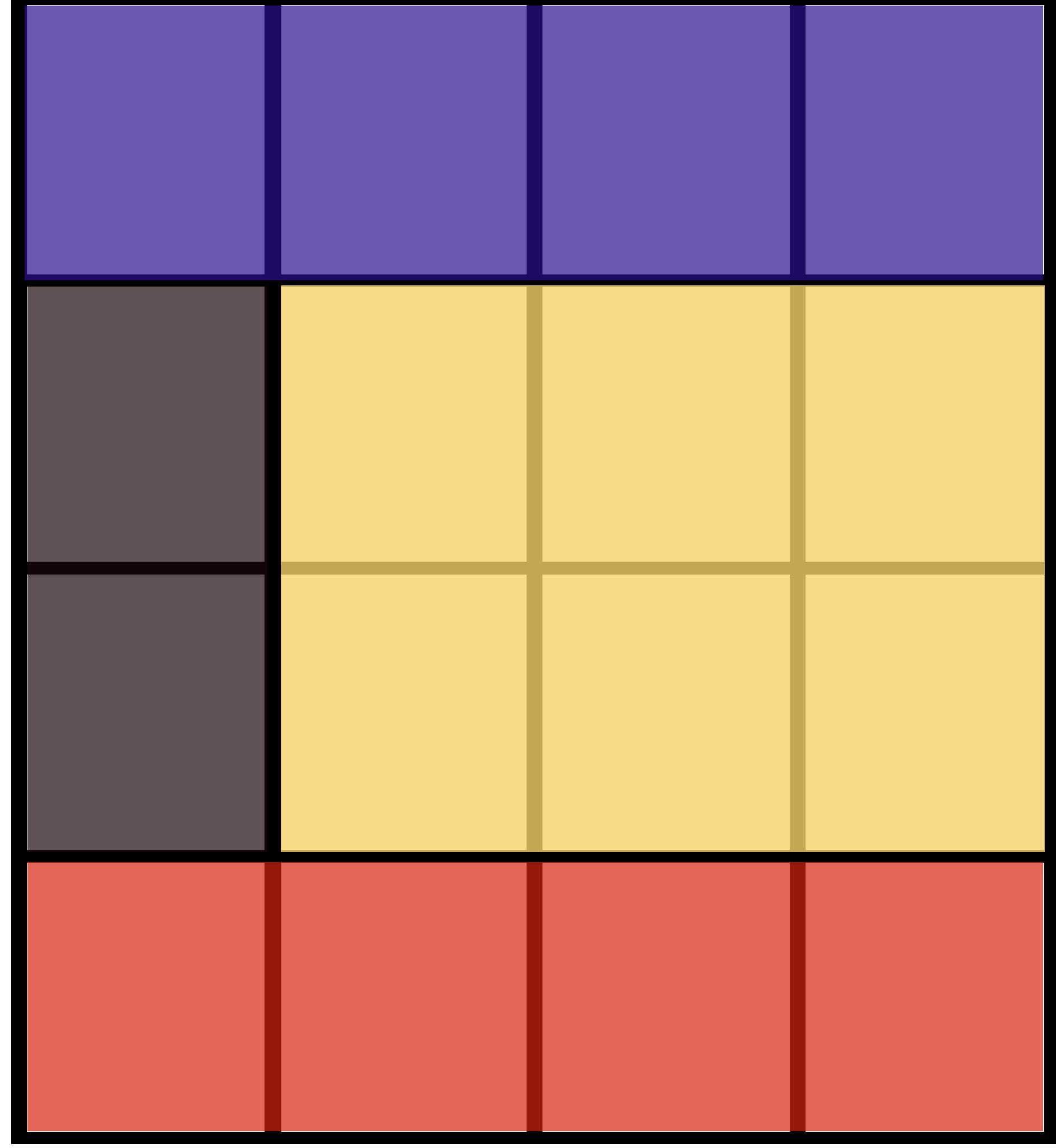


Grid Template Areas



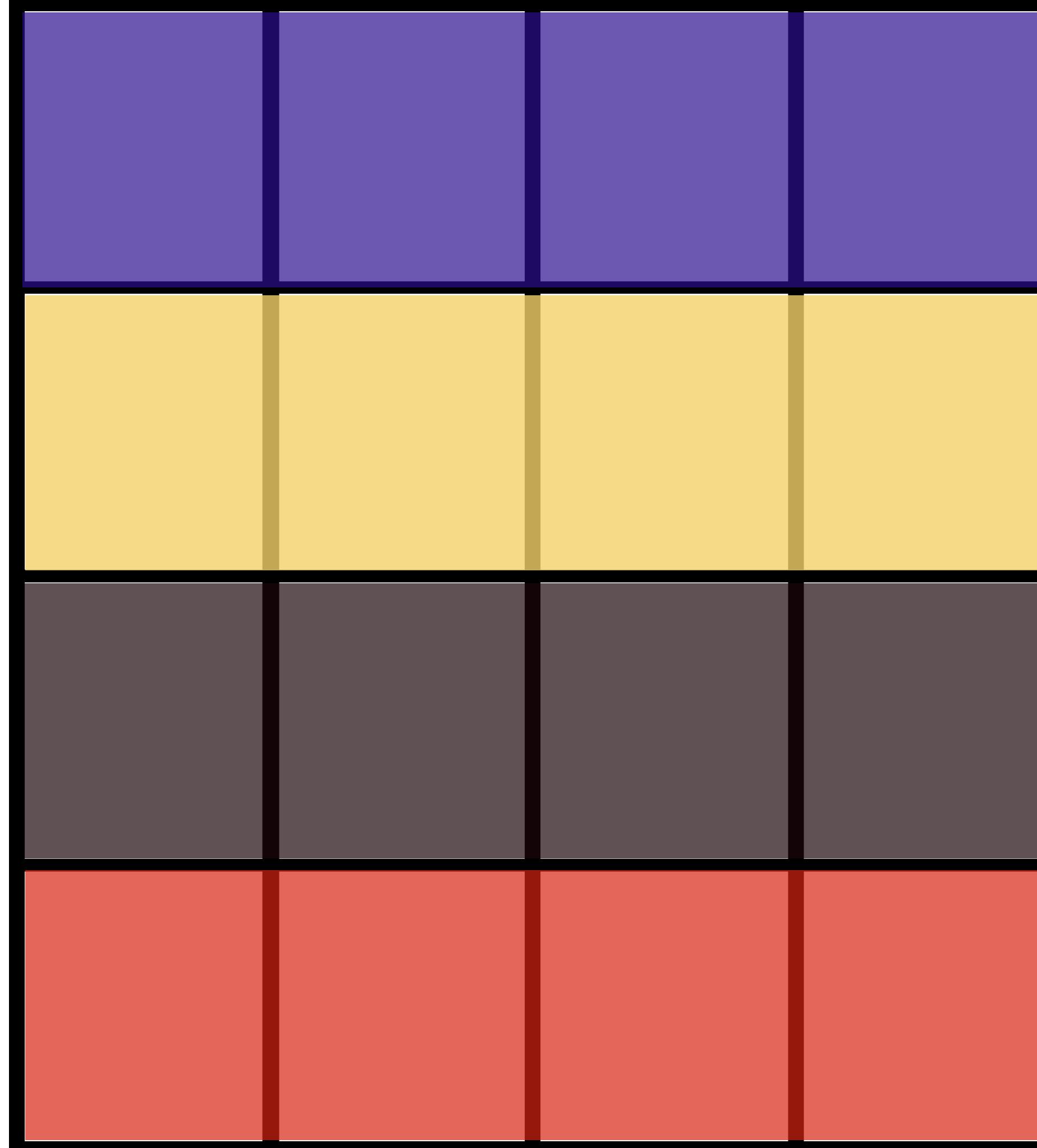
< 940px

\leq



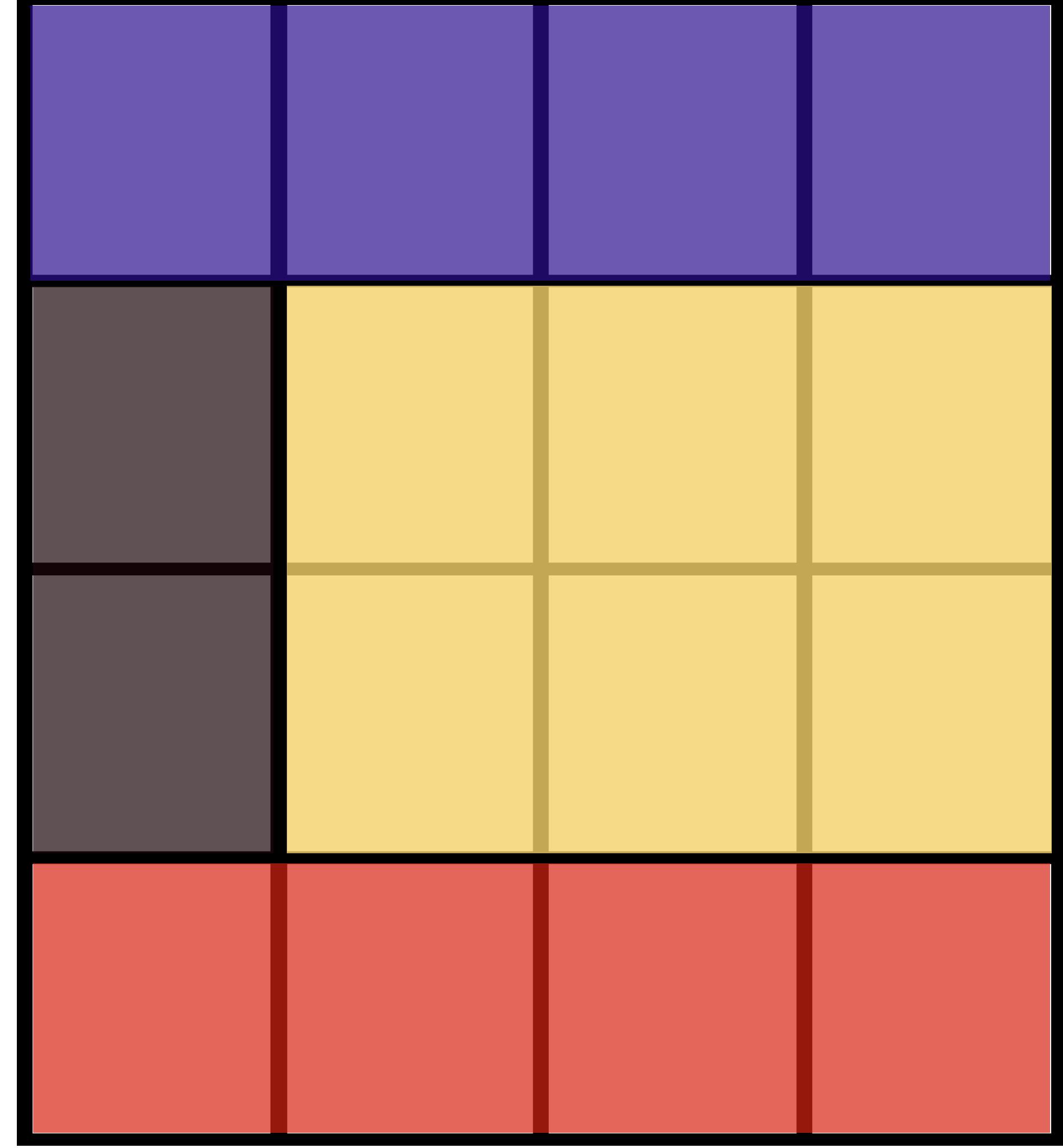
> 940px

Grid Template Areas



< 640px

\leq



> 940px

делаем

Илья Репин - Бурлак

Grid auto-flow

Grid auto-flow

grid-template-columns:

1fr 1fr 1fr 1fr 1fr;

grid-template-rows:

auto;

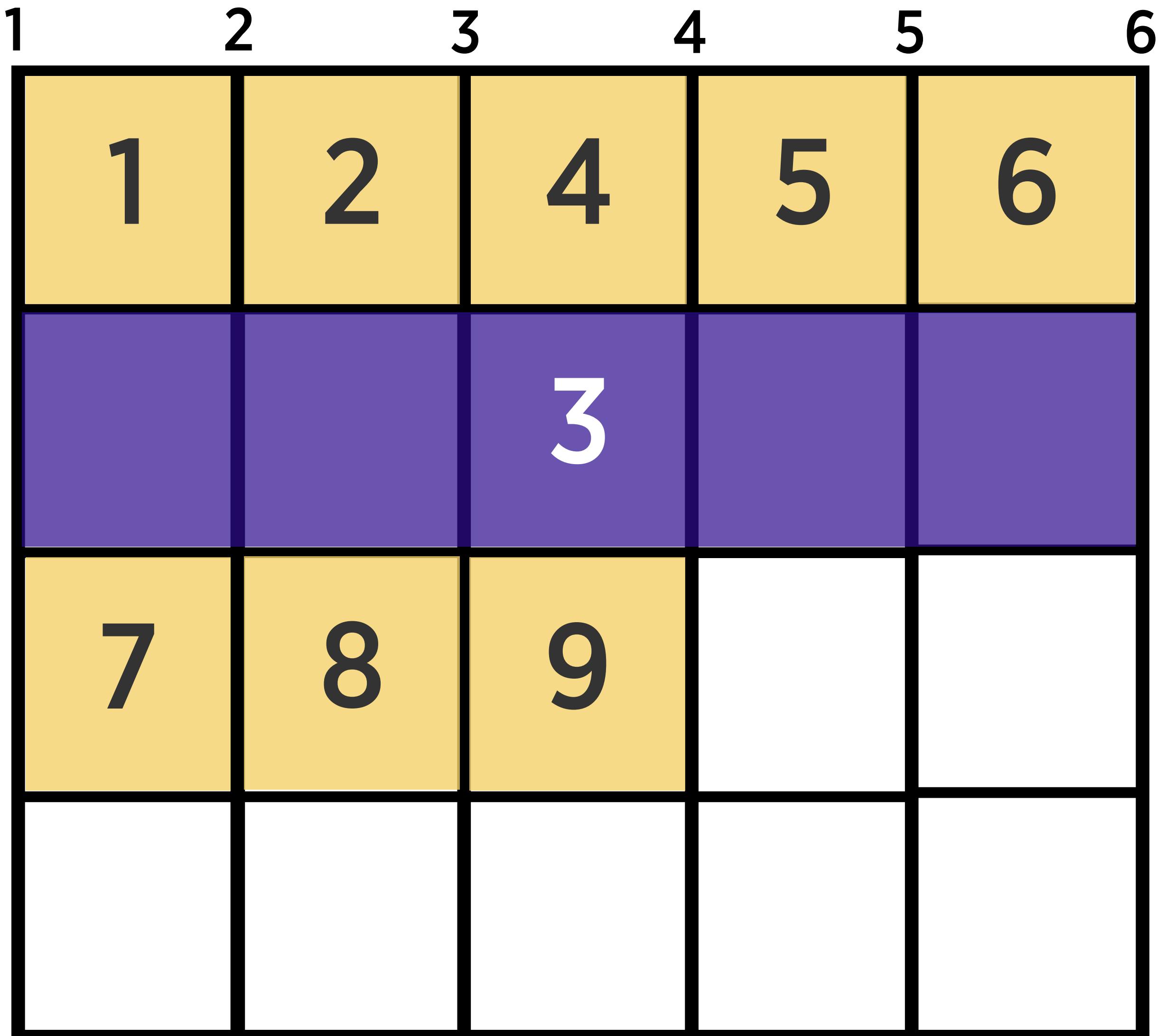
grid-auto-flow:

dense;

1	2	3	4	5	6
1	2	3	4	5	
6	7	8	9		

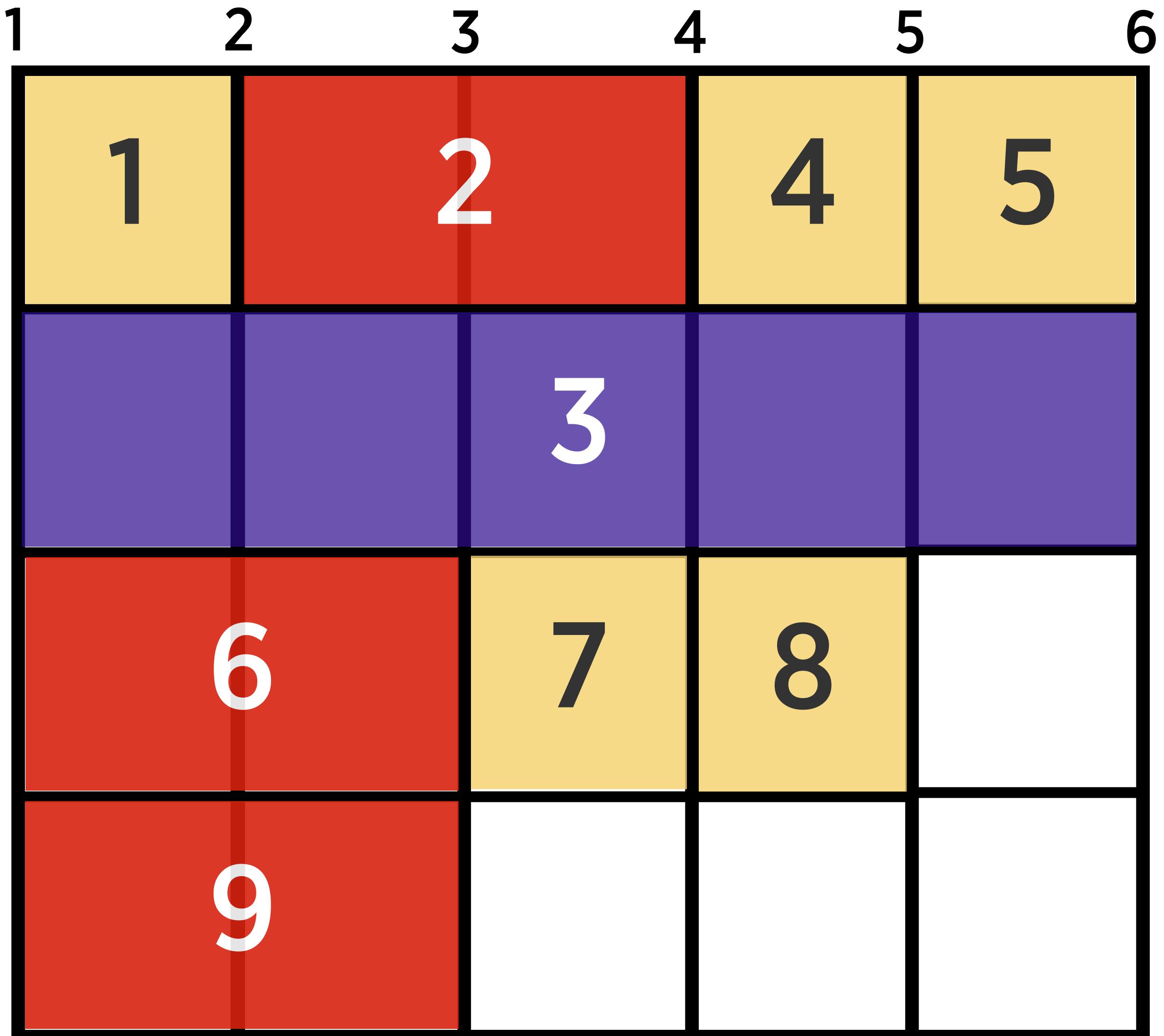
Grid auto-flow

```
nth-child(3) {  
  grid-column: 1 / 6;  
}
```



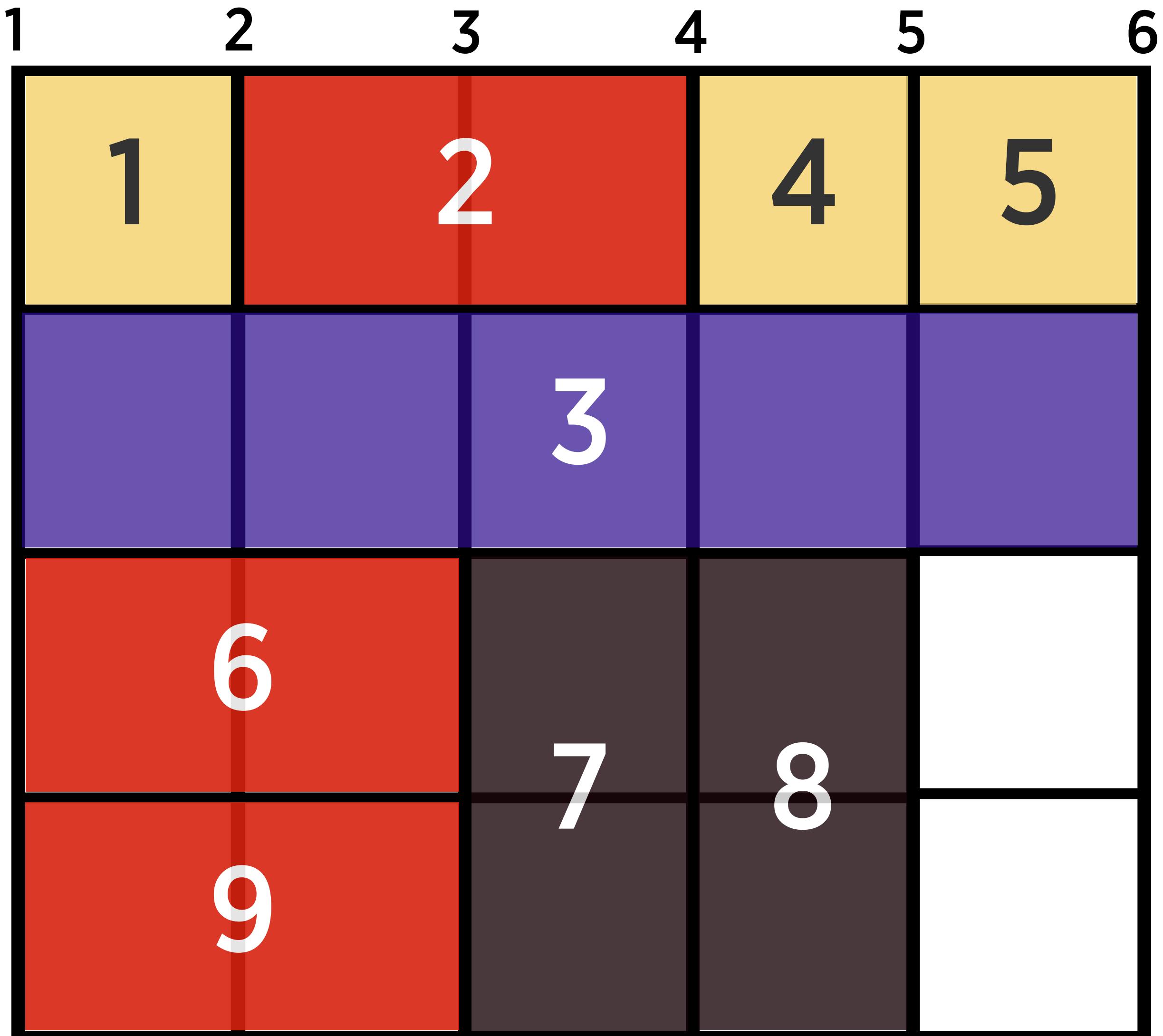
Grid auto-flow

```
nth-child(2, 6, 9) {  
  grid-column:  
    auto / span 2;  
}
```



Grid auto-flow

```
nth-child(7, 8) {  
  grid-row:  
    auto / span 2;  
}
```





делаем

Но проблемы-то есть?

- Баги
- Спецификация
- Мобильные браузеры
- Десктопные браузеры



**или динозавры -
или Гриды**

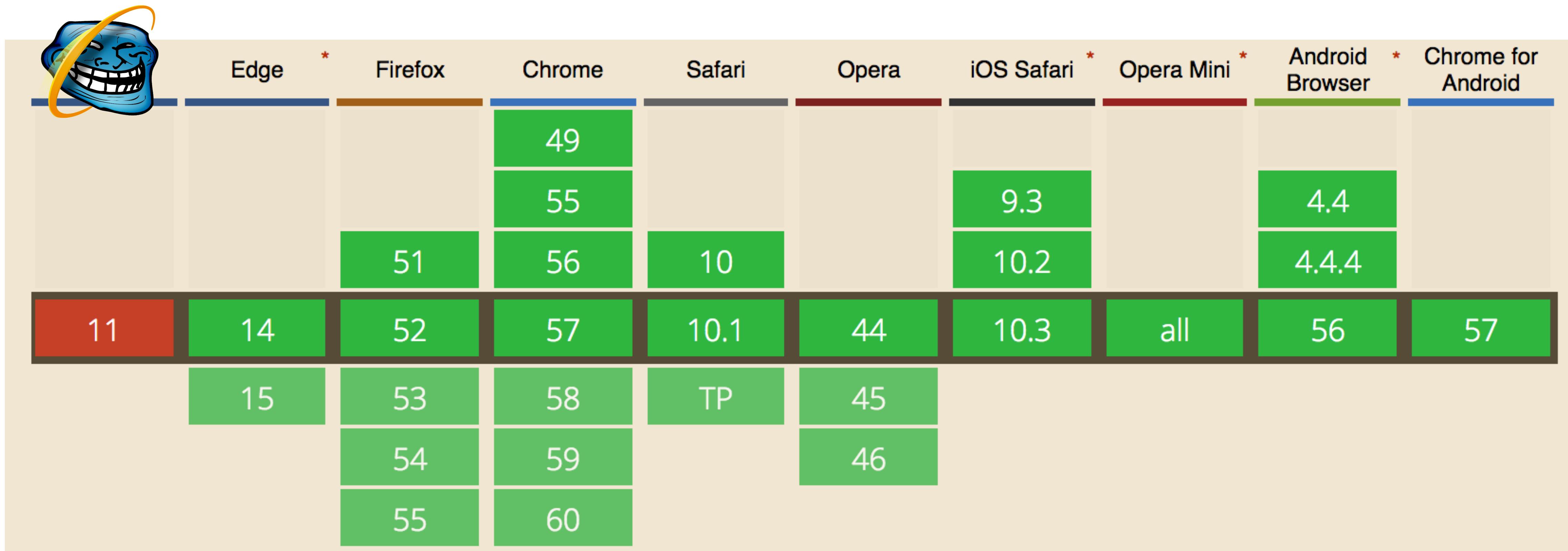


или

```
@supports (display: grid) {  
  .grid { display: grid; }  
}
```

```
@supports not (display: grid) {  
  .grid { display: flex; }  
}
```

Support of supports()





Если и этого вам
кажется мало

A photograph of a red fishing float hanging from a thin line against a background of green and blue water ripples.

float вам
в руки

«...чтобы сделать первые шаги в Grid

Layout, достаточно знать лишь

часть» –

Chris Wright

Спасибо за внимание!

<http://sergeyopopov.site/>

Ловите меня на конференции!

Говорю про вёрстку, современный CSS,
ванильный CSS, Grid Layout, наставничество,
менторов, обучение