

# **Хватит врать про Grid Layout**

Серёжа Попов

# Меня зовут Серёжа



- Начальник аутсорса по фронтенду  
в HTML Academy
- Верстальщик
- Участник сообщества

# Сообщество

Кто считает себя частью  
сообщества?



# Сообщество раздражает



Не разбираетесь –  
не советуйте

При чём тут  
Grid Layout?

# Grid Layout ❤

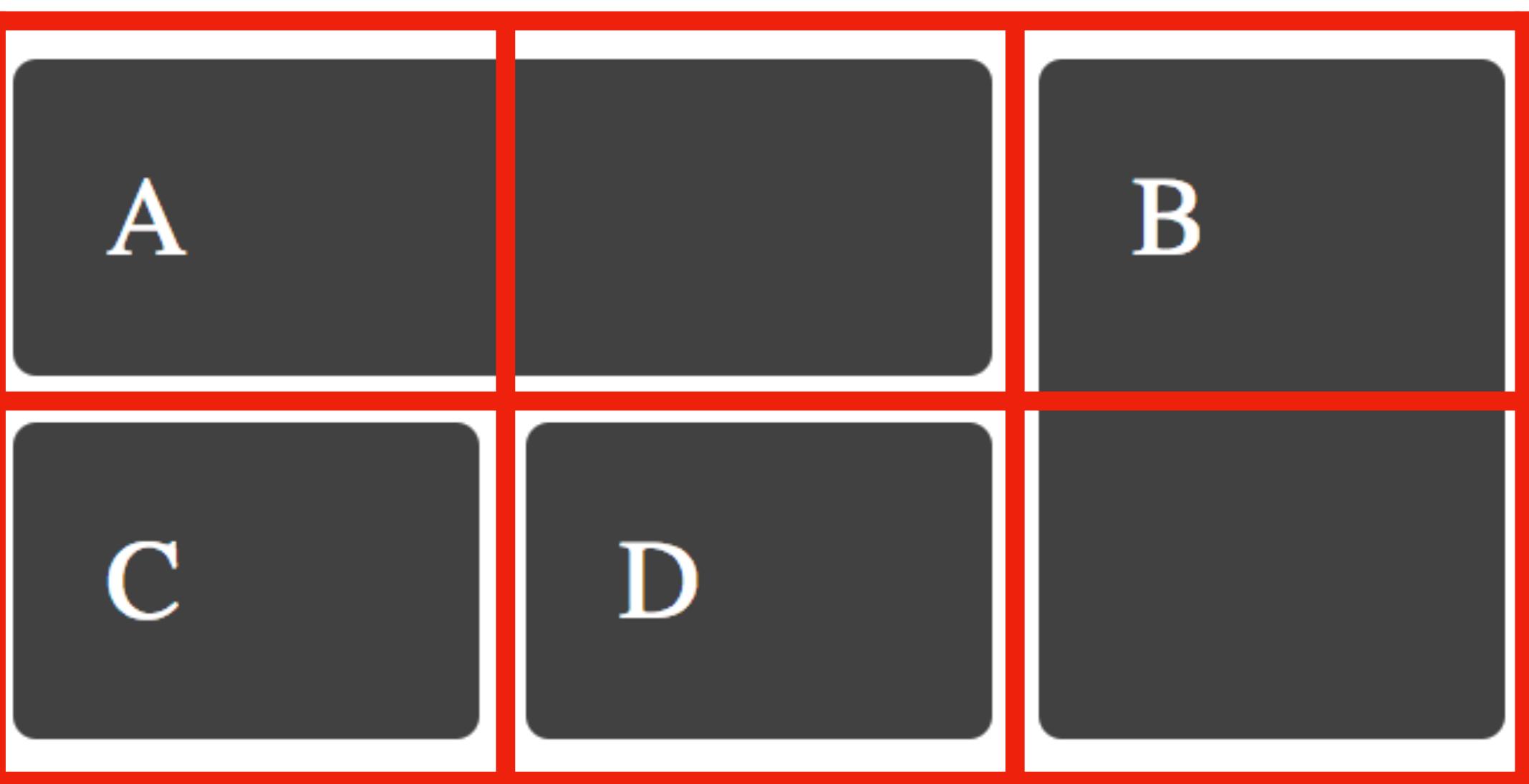
- Начал изучать в **2016 году**
- К моменту релиза умел использовать
- Рассказывал **обзорный доклад** весной 2017 года
- Планирую **доклад о практической стороне** осенью 2018 года
- Использую **Grid Layout** в проектах

# Что такое Grid Layout?

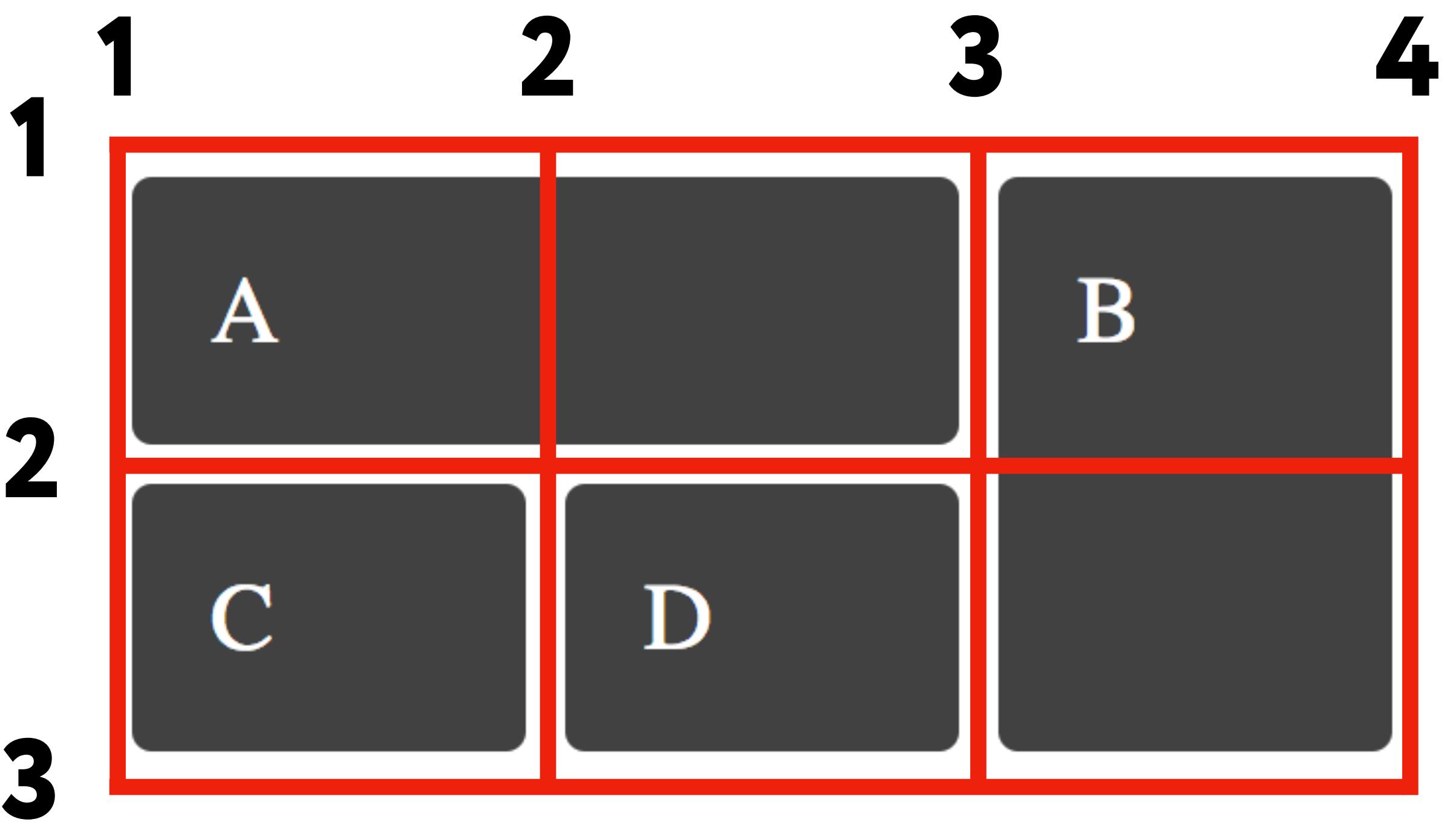
```
.wrapper {  
  display: grid;  
  grid-template-columns: 100px 100px 100px;  
}  
  
.a {  
  grid-column: 1 / 3;  
  grid-row: 1;  
}  
  
.b {  
  grid-column: 3 ;  
  grid-row: 1 / 3;  
}
```



```
.wrapper {  
  display: grid;  
  grid-template-columns: 100px 100px 100px;  
}  
  
.a {  
  grid-column: 1 / 3;  
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.b {  
  grid-column: 3 ;  
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```



```
.wrapper {  
  display: grid;  
  grid-template-columns: 100px 100px 100px;  
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.a {  
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  grid-row: 1;  
}  
  
.b {  
  grid-column: 3 ;  
  grid-row: 1 / 3;  
}
```



ясно?

Если нет –

<https://youtu.be/UrsI0EGjskY>



14



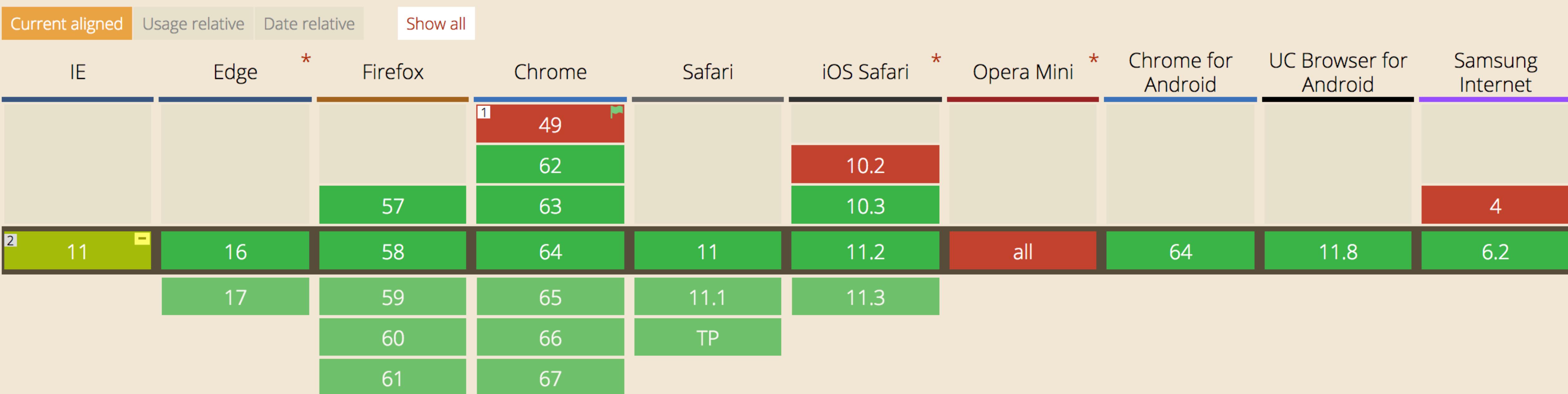
## **Миф #1**

**Grid Layout не поддерживается  
браузерами**

# CSS Grid Layout - CR

Usage  
Global  
unprefixed:  
% of all users  
 $82.8\% + 3.79\% = 86.59\%$   
82.8%

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors.  
Includes support for all `grid-*` properties and the `fr` unit.



Notes

Known issues (2)

Resources (13)

Feedback

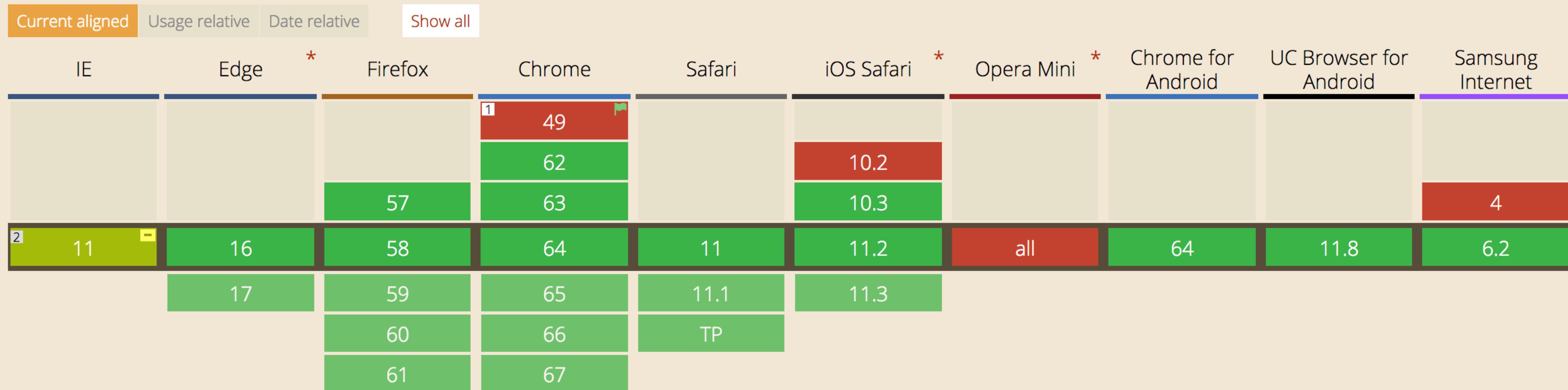
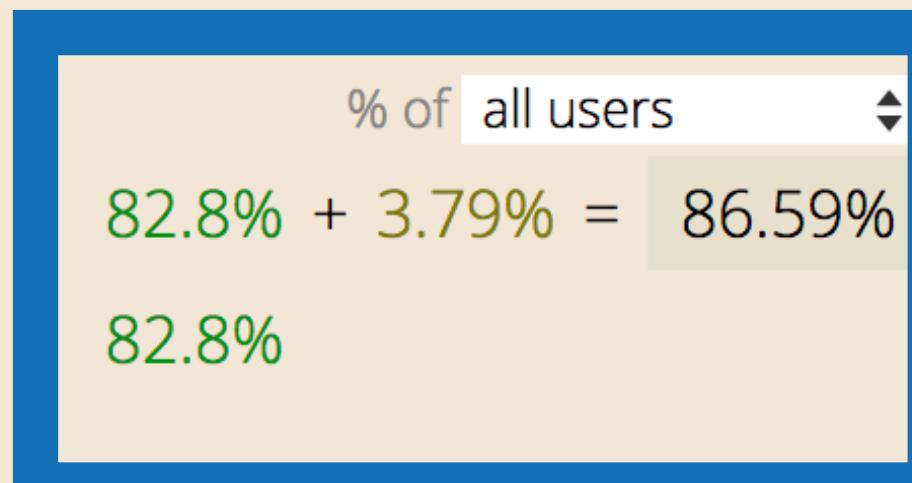
<sup>1</sup> Enabled in Chrome through the "experimental Web Platform features" flag in chrome://flags

<sup>2</sup> Partial support in IE refers to supporting an older version of the specification.

# CSS Grid Layout

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors. Includes support for all `grid-*` properties and the `fr` unit.

Usage  
Global  
unprefixed:



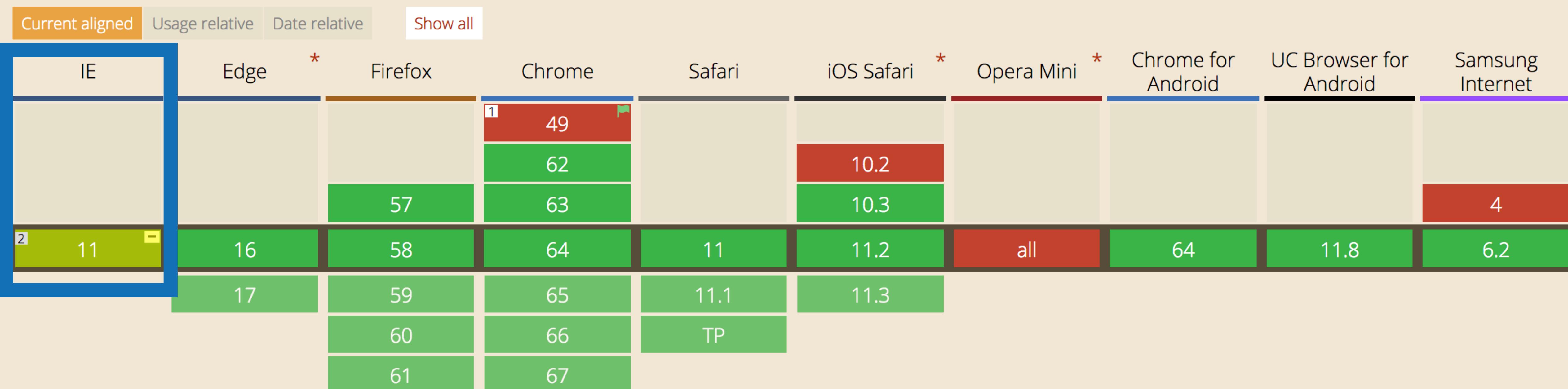
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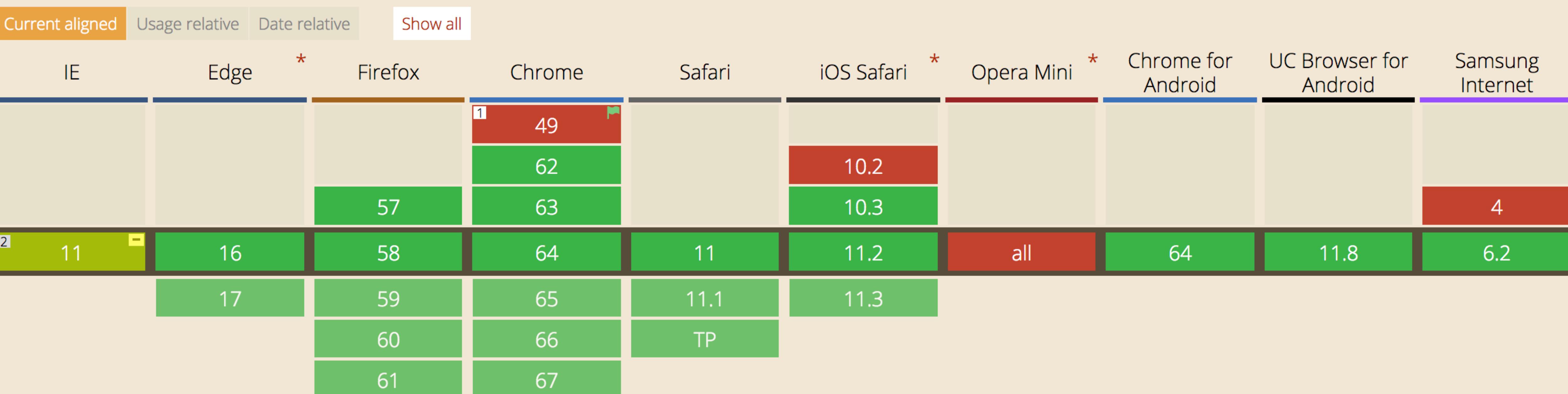
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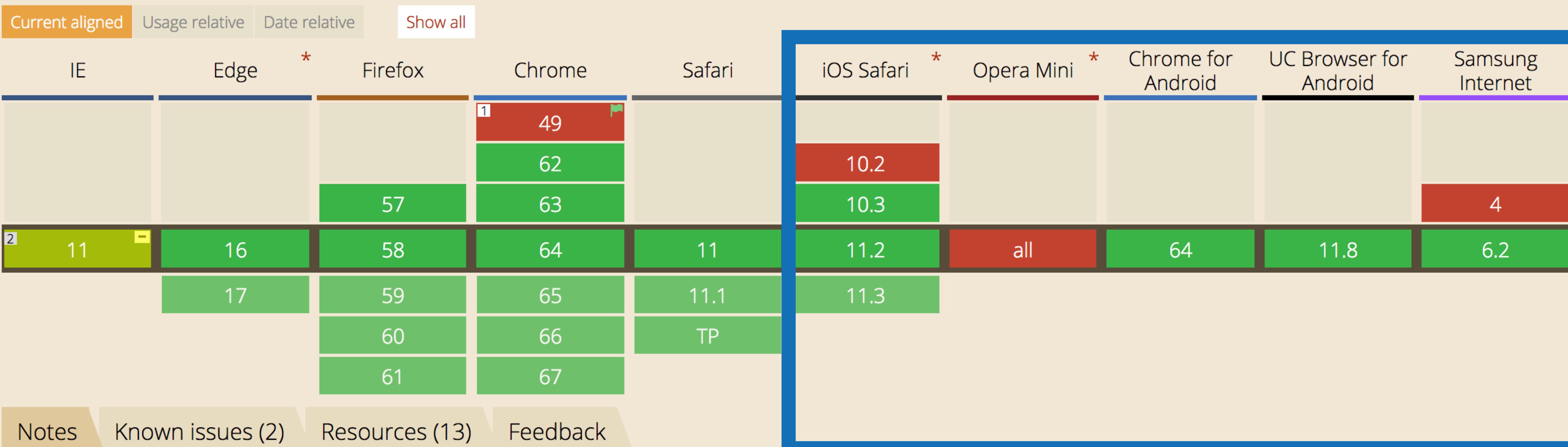
12 января убит Internet Explorer  
Снова

[https://support.microsoft.com/en-us/help/  
13853/windows-lifecycle-fact-sheet](https://support.microsoft.com/en-us/help/13853/windows-lifecycle-fact-sheet)

# CSS Grid Layout - CR

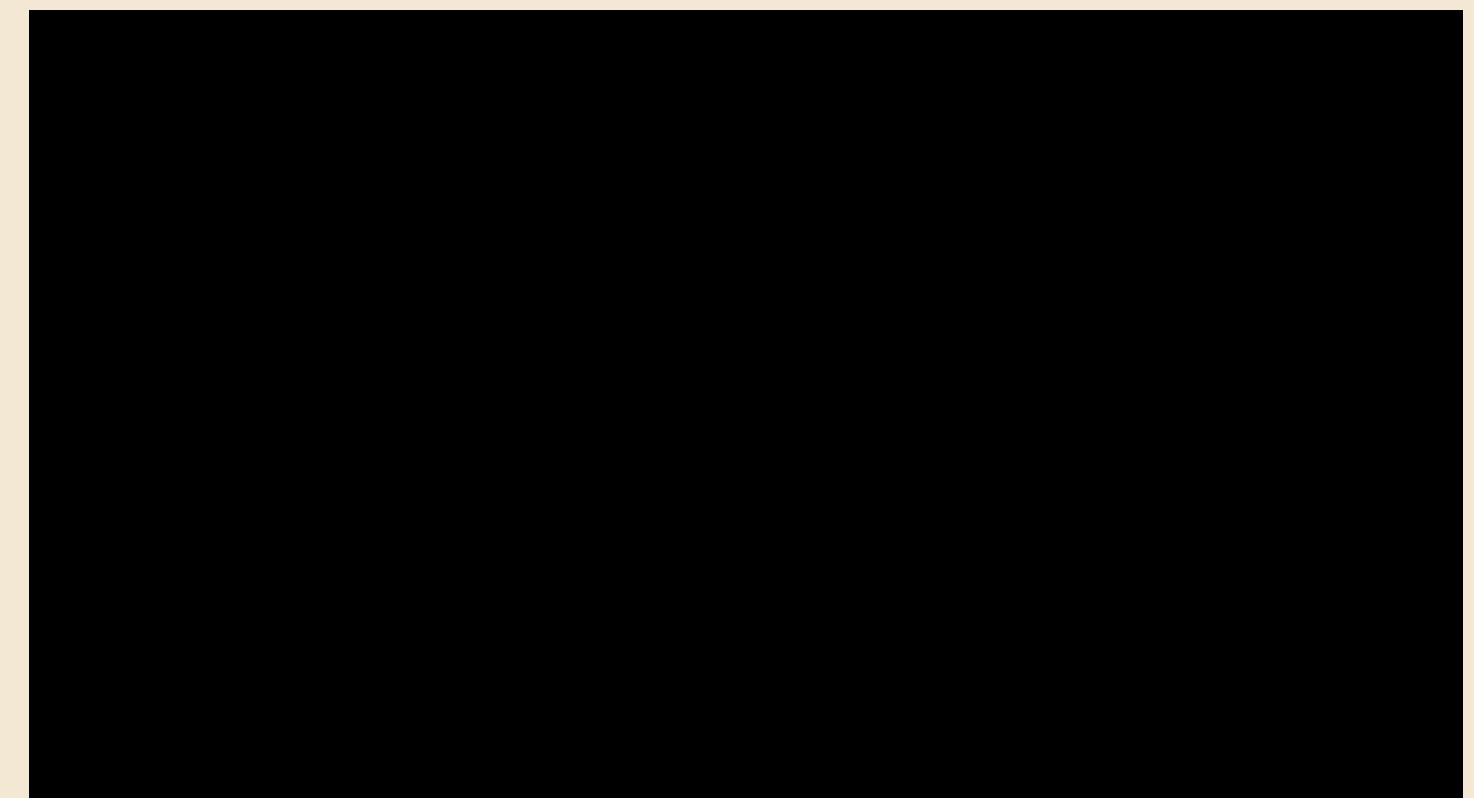
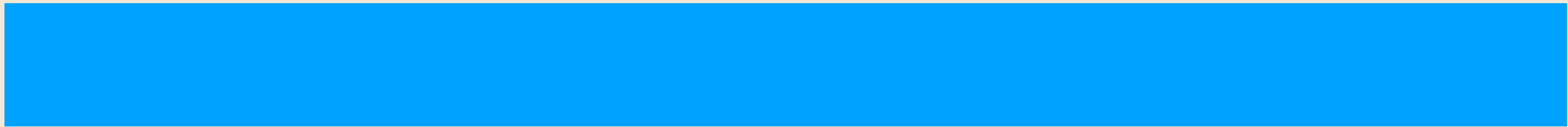
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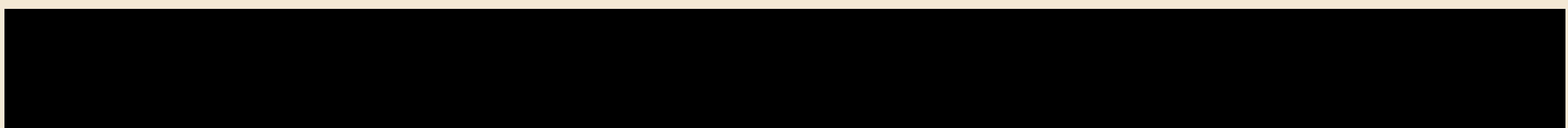
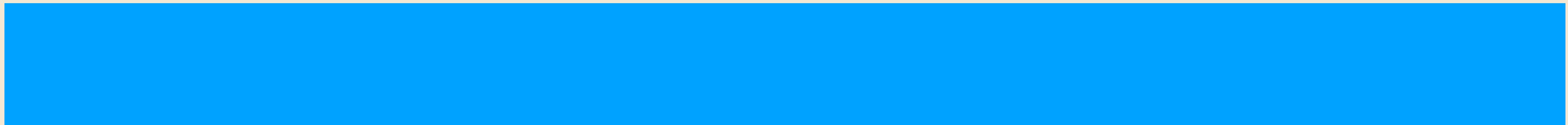
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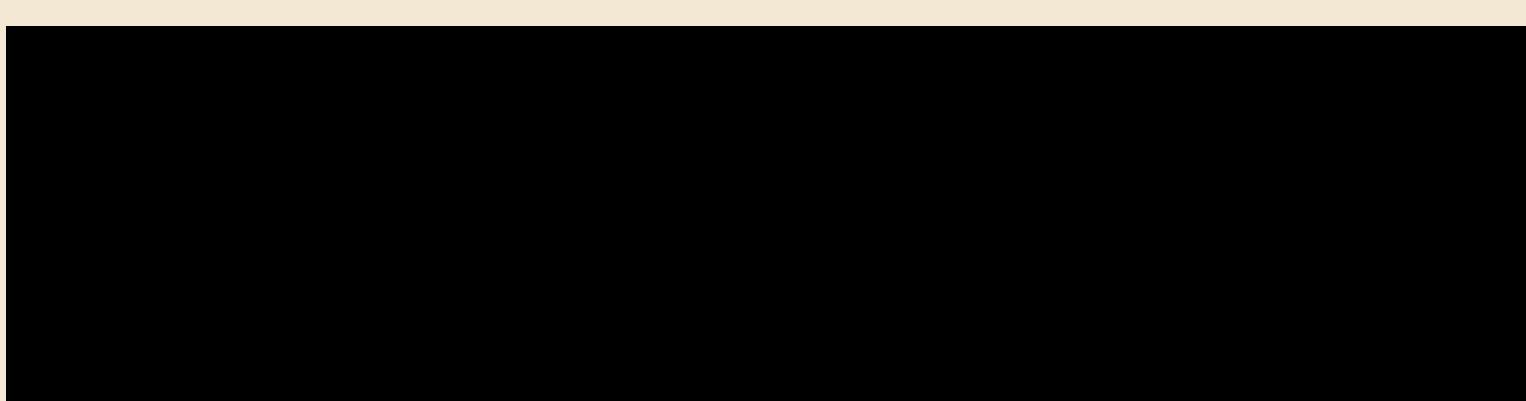
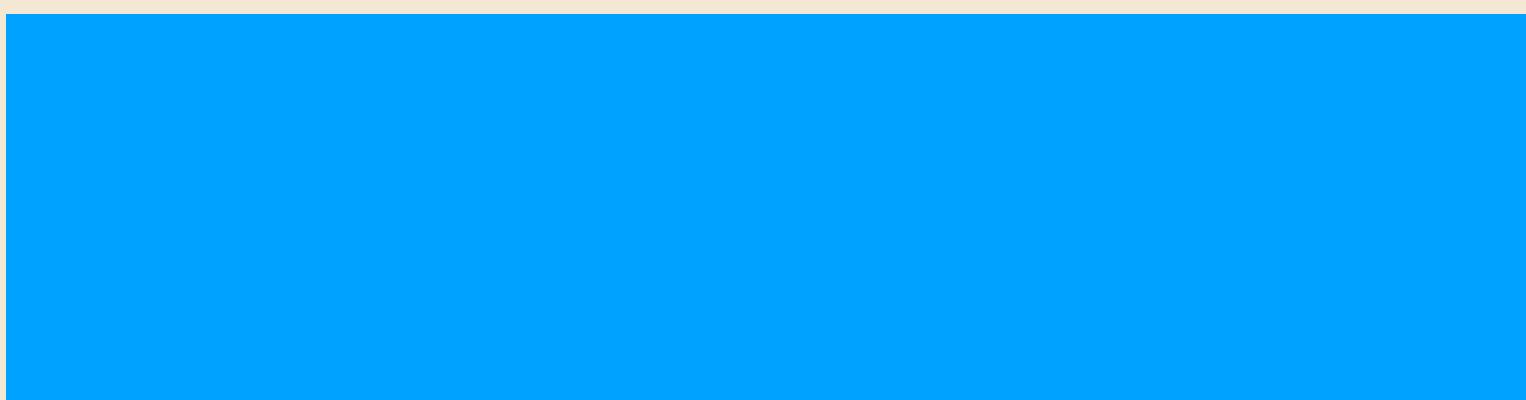


<sup>1</sup> Enabled in Chrome through the "experimental Web Platform features" flag in chrome://flags

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## **Миф #2**

**Grid Layout нельзя использовать  
по полной**

Grid Layout – очень  
большая спецификация

# Grid Layout состоит из:

- Grid Template columns/rows
- Grid Template Areas
- Grid Auto Flow
- Grid Functions (minmax, repeat)
- Grid Alignment

# Grid Layout состоит из:

- Grid Template columns/rows
- Grid Template Areas
- **Grid Auto Flow**
- **Grid Functions (minmax, repeat)**
- **Grid Alignment**

# Адаптивная сетка без @media

[https://codepen.io/rachelandrew/  
pen/GZQYQa](https://codepen.io/rachelandrew/pen/GZQYQa)

# Grid Layout состоит из:

- **Grid Template columns/rows**
- **Grid Template Areas**
- Grid Auto Flow
- Grid Functions (minmax, repeat)
- Grid Alignment

PLATE SUB

# **Миф #3**

**В Grid Layout много багов**

А у FlexBox не было  
багов?

**А в CSS нет багов?**

[https://github.com/  
rachelandrew/gridbugs](https://github.com/rachelandrew/gridbugs)

# The bugs

---

1. `grid-auto-rows` and `grid-auto-columns` should accept a track listing
2. Repeat notation should accept a track listing
3. Fragmentation support
4. Sizing of items with an intrinsic size inside fixed size grid tracks
5. Items with an intrinsic aspect ratio should align start
6. The `grid-gap` property should accept percentage values
7. Grid gaps should behave as auto-sized tracks?
8. Setting max-height to a percentage should scale down a larger image inside a grid track
9. `min-content` and `max-content` in track listings
10. Some HTML elements can't be grid containers
11. A textarea that is a grid item collapses to zero width
12. Space distributed to empty tracks spanned by an item with content
13. Inconsistency with percentage padding and margins
14. `fit-content` is stretching

# The bugs

---

1. `grid-auto-rows` and `grid-auto-columns` should accept a track listing
2. Repeat notation should accept a track listing
3. Fragmentation support
4. Sizing of items with an intrinsic size inside fixed size grid tracks
- ~~5. Items with an intrinsic aspect ratio should align start~~
- ~~6. The `grid-gap` property should accept percentage values~~
7. Grid gaps should behave as auto-sized tracks?
8. Setting max-height to a percentage should scale down a larger image inside a grid track
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12. Space distributed to empty tracks spanned by an item with content
13. Inconsistency with percentage padding and margins
14. `fit-content` is stretching



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## **Миф #4**

**Grid Layout сложно изучить**

# Grid Layout состоит из:

- Grid Template columns/rows
- Grid Template Areas
- Grid Auto Flow
- Grid Functions (minmax, repeat)
- Grid Alignment

Header

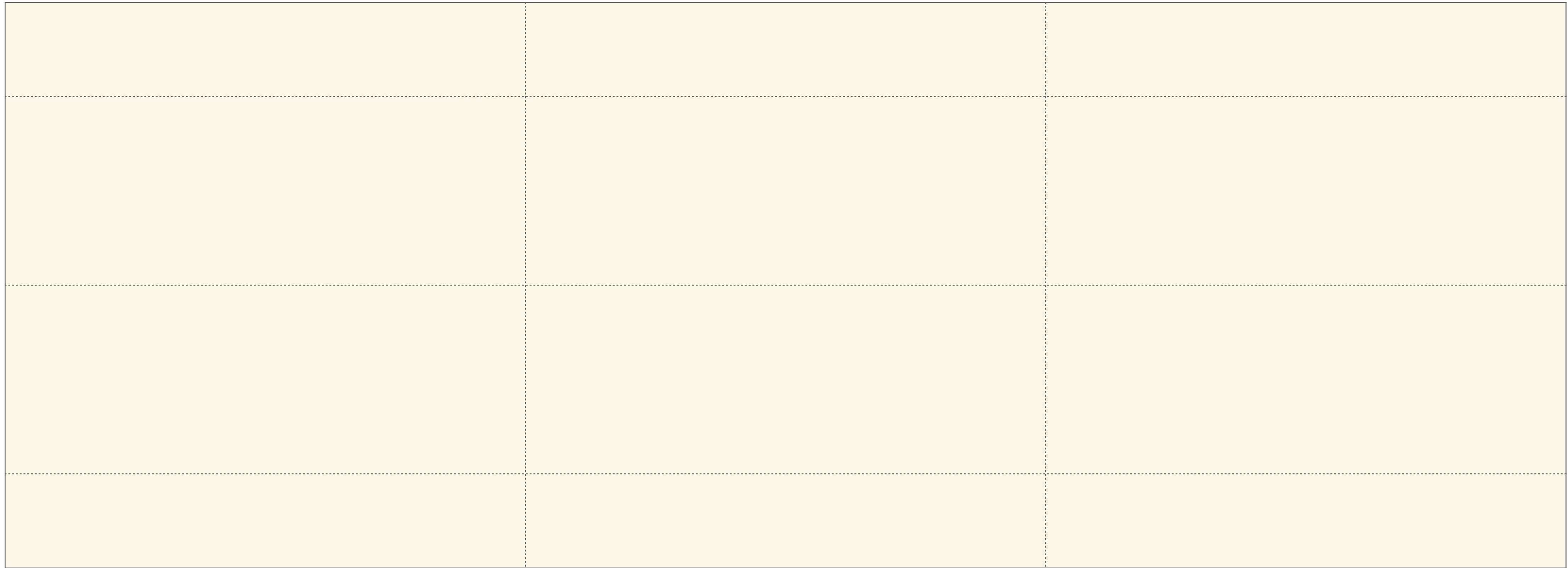
Sidebar 1

Content

Footer

```
<div class="page">
  <header class="header">Header</header>
  <aside class="sidebar">Sidebar 1</aside>
  <div class="content">Content</div>
  <footer class="footer">Footer</footer>
</div>
```

```
.page {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr;  
  grid-template-rows: 100px 200px 200px 100px;  
  grid-gap: 40px;  
}
```



<b>33.333333% / 100px</b>	<b>33.333333% / 100px</b>	<b>33.333333% / 100px</b>
<b>33.333333% / 200px</b>	<b>33.333333% / 200px</b>	<b>33.333333% / 200px</b>
<b>33.333333% / 200px</b>	<b>33.333333% / 200px</b>	<b>33.333333% / 200px</b>
<b>33.333333% / 100px</b>	<b>33.333333% / 100px</b>	<b>33.333333% / 100px</b>

**HEADER**

**SIDE BAR 1**

**CONTENT**

**FOOTER**

Header

Sidebar 1

Content

Footer

```
.header {  
    grid-column: span 3;  
}
```

```
.footer {  
    grid-column: span 3;  
}
```

<b>HEADER</b>	<b>HEADER</b>	<b>HEADER</b>
<b>SIDE BAR 1</b>	<b>CONTENT</b>	
<b>FOOTER</b>	<b>FOOTER</b>	<b>FOOTER</b>

Header

Sidebar 1

Content

Footer

```
.sidebar {  
    grid-row: span 2;  
}  
  
.content {  
    grid-column: auto / span 2;  
    grid-row: span 2;  
}
```

HEADER	HEADER	HEADER
SIDE BAR 1	CONTENT	CONTENT
SIDE BAR 1	CONTENT	CONTENT
FOOTER	FOOTER	FOOTER

Header

Sidebar 1

Content

Footer

# Итого:

- 5 минут работы
- 6 строчек HTML
- 23 строчки CSS для раскладки
- Ни одной лишней обёртки

Проще сделать,  
чем сказать

<https://gridbyexample.com/examples/>

<http://cssgridgarden.com/>



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# **Миф #5**

## **Grid Layout убьёт FlexBox**

Нет

**Grid Layout используется  
для раскладки сайта**

**Grid Layout меняет восприятие  
и подход к построению сеток**


FlexBox смотрит в масштабе  
строк и хорош для контента

**Grid Layout смотрит глобальнее  
на всю раскладку**

Будущее – это  
Grid Layout + FlexBox +  
CSS Box Alignment 4 level



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## **Миф #6**

**Subgrid всё ещё в разработке**

CONFIRMED

<https://www.w3.org/TR/css-grid-2/>

# Что такое subgrid?

```
<div class="grid">
  <div class="item">1</div>
  <div class="item">2</div>
  <ul class="item">
    <li class="sub-item">3</li>
    <li class="sub-item">4</li>
    <li class="sub-item">5</li>
    <li class="sub-item">6</li>
    <li class="sub-item">7</li>
    <li class="sub-item">8</li>
  </ul>
  <div class="item">9</div>
  <div class="item">10</div>
</div>
```

```
<div class="grid">
  <div class="item">1</div>
  <div class="item">2</div>
  <ul class="item">
    <li class="sub-item">3</li>
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    <li class="sub-item">7</li>
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  </ul>
  <div class="item">9</div>
  <div class="item">10</div>
</div>
```



```
<div class="grid">
  <div class="item">1</div>
  <div class="item">2</div>
  <ul class="item">
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    <li class="sub-item">4</li>
    <li class="sub-item">5</li>
    <li class="sub-item">6</li>
    <li class="sub-item">7</li>
    <li class="sub-item">8</li>
  </ul>
  <div class="item">9</div>
  <div class="item">10</div>
</div>
```

```
<div class="grid">
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    <li class="sub-item">5</li>
    <li class="sub-item">6</li>
    <li class="sub-item">7</li>
    <li class="sub-item">8</li>
  </ul>
  <div class="item">9</div>
  <div class="item">10</div>
</div>
```

```
ul {  
  display: subgrid;  
}
```

Или

```
ul {  
  display: grid;  
  grid: subgrid;  
}
```

- 
- 1
  - 2
  - 3
  - 4
  - 5
  - 6
  - 7
  - 8
  - 9
  - 10

## **Миф #7**

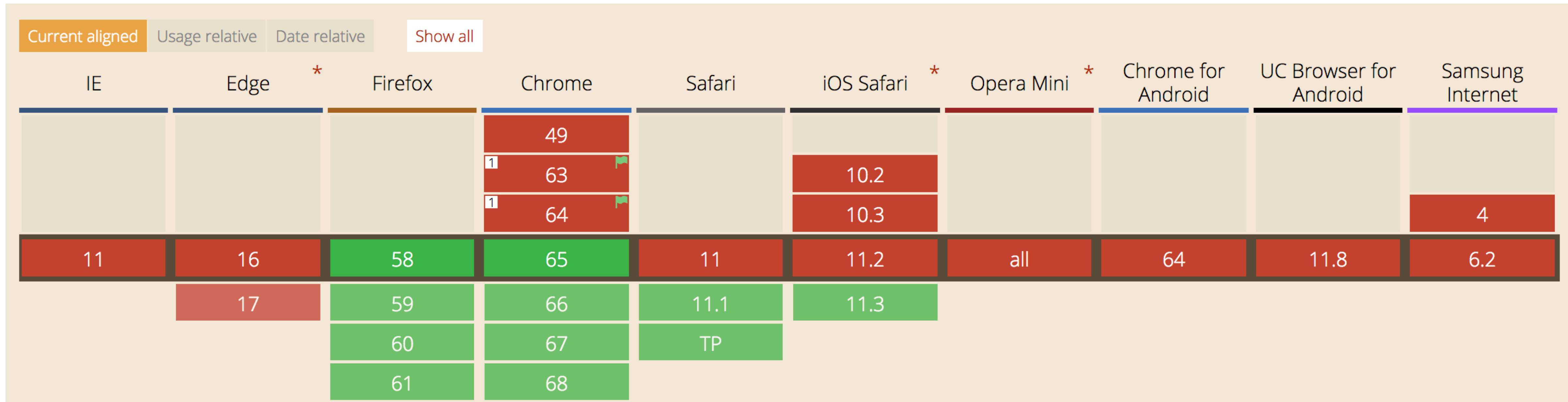
Без Subgrid Grid Layout  
бесполезен

Нет

**Subgrid не везде и нужен**

```
ul {  
    display: contents;  
}
```

- 
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10



<https://codepen.io/lautsevich/pen/NpYobE>



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## **Миф #8**

**Grid Layout невозможно  
применить к реальным проектам**

**Grid Layout меняет восприятие  
и подход к построению сеток**




is:starred

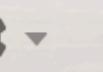
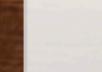


Mail ▾



More ▾

1–14 of 14



COMPOSE

Inbox (2)

Starred

Sent Mail

Drafts

More ▾



Сергей ▾



No recent chats

Start a new one

1.49 GB (4%) of 30 GB used  
[Manage](#)

[Program Policies](#)  
Powered by Google™

Last account activity: 2 hours ago  
[Details](#)



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## **Миф #9**

**Grid Layout не нужен,  
так как всё может FlexBox**

FlexBox смотрит в масштабе  
строк и хорош для контента

**Grid Layout смотрит глобальнее  
на всю раскладку**

Grid Layout может сделать задачу  
быстрее и с меньшим количеством  
обёрток

Зато есть вещи, которые можно  
сделать только на Grid Layout



## **Миф #1**

**Grid Layout не поддерживается  
браузерами**



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## **Миф #2**

**Grid Layout нельзя использовать  
по полной**

PLATE  
SUB

# **Миф #3**

## **В Grid Layout много багов**



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## **Миф #4**

# **Grid Layout сложно изучить**



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# **Миф #5**

## **Grid Layout убьёт FlexBox**



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## **Миф #6**

**Subgrid всё ещё в разработке**

**CONFIRMED**

# **Миф #7**

Без Subgrid Grid Layout  
бесполезен



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## **Миф #8**

**Grid Layout невозможно  
применить к реальным проектам**



## **Миф #9**

**Grid Layout не нужен,  
так как всё могут FlexBox**



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## **Миф #10**

Сейчас нет смысла изучать  
что-либо кроме Grid Layout для  
построения сеток



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# Все ссылки

- HTML Academy — <https://htmlacademy.ru/>
- Аутсорс по фронетнду — <https://htmlacademy.ru/production>
- Доклад **Пора начинать фыркать** — <https://youtu.be/UrsI0EGjskY>
- **Все сезоны Разрушителей Легенд** — <http://kino-filmi.net/1872-razrushiteli-legend-11-13-14-sezon.html>
- **Поддержка Grid Layout** — <https://caniuse.com/#feat=css-grid>
- **Спецификация Grid Layout** — <https://www.w3.org/TR/css-grid-1/>
- IE мёртв — <https://support.microsoft.com/en-us/help/13853/windows-lifecycle-fact-sheet>
- Почти полное **руководство по Grid Layout** — <https://css-tricks.com/snippets/css/complete-guide-grid/>
- **Примеры Grid Layout** — <https://gridbyexample.com/examples/>
- **Игрушка для познания** Grid Layout — <http://cssgridgarden.com/>
- **Спека Subgrid** — <https://www.w3.org/TR/css-grid-2/>
- Subgrid на кастомных свойствах — <https://codepen.io/lautsevich/pen/NpYobE>

**Спасибо за внимание**