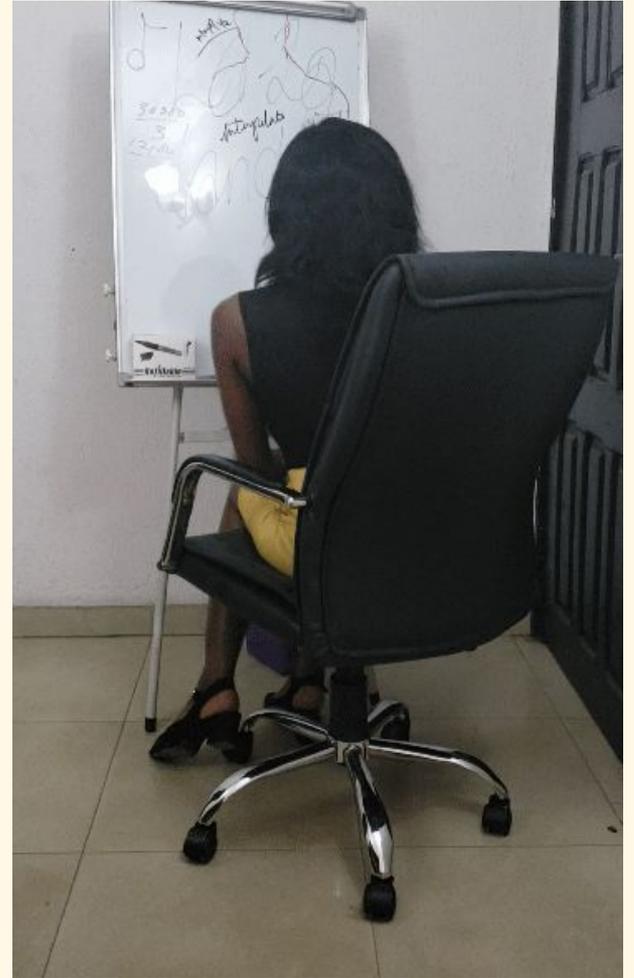


CSS GRID:

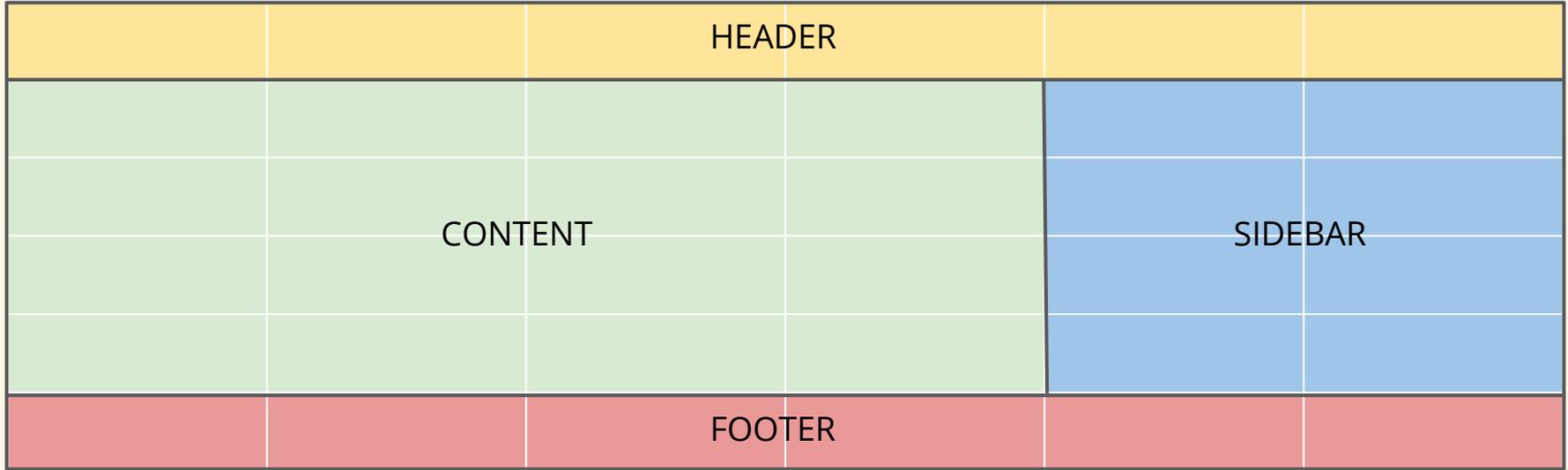
A How-To Guide

Who? Me?

- Jemima Abu
- Front end developer.
- Nerd.
- Aspiring cat lady.



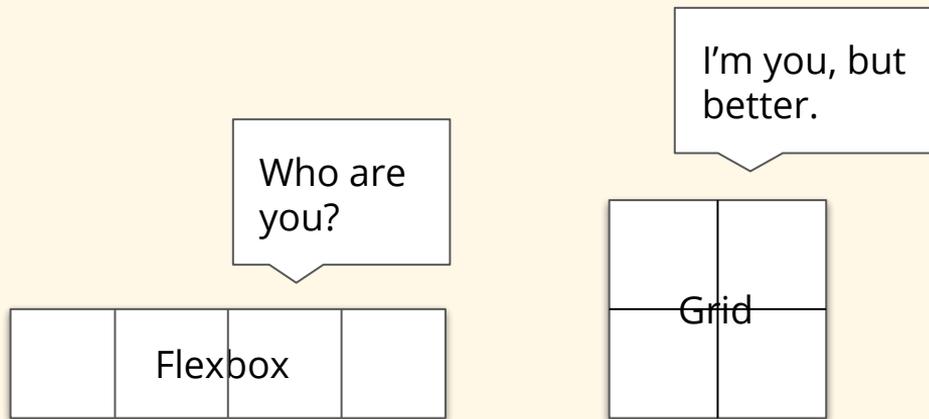
What's CSS Grid?



Basically this.

Okay but really,
what is CSS Grid?

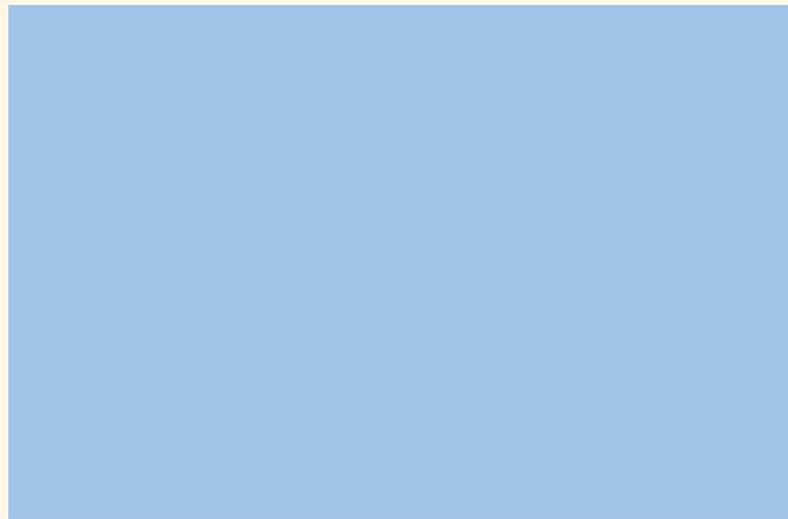
- A 2-dimensional layout system
- Created specifically for layouts
- Allows both rows and columns
- Basically, flexbox but better



Sounds good,
how does it work?

Grid is applied to parent element:

```
.parent {  
  display: grid;  
}
```



Rows and columns are specified using the following properties:

```
.parent {  
  display: grid;  
  grid-template-columns: 100px 100px 100px;  
  grid-template-rows: 100px 100px;  
}
```



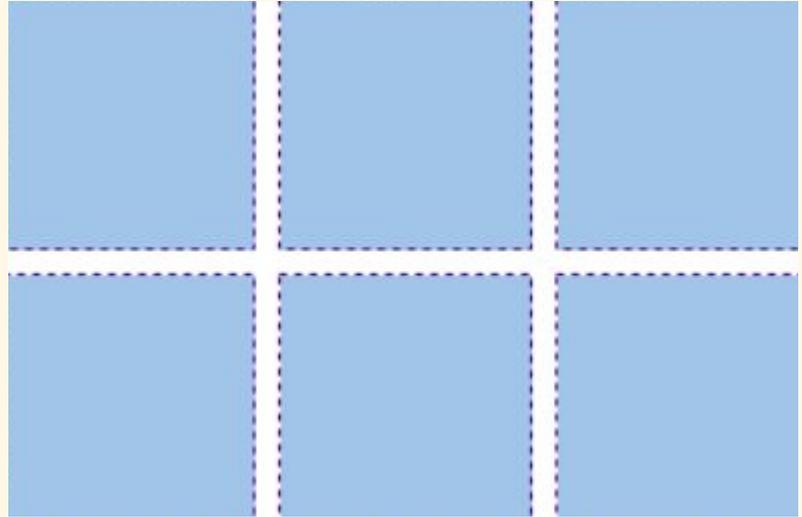
The repeat property is used to simplify repetitive layout:

```
.parent {  
  display: grid;  
  grid-template-columns: repeat( 3, 100px );  
  grid-template-rows: repeat( 2, 100px );  
}
```



The gap property is used to space out elements in the grid:

```
.parent {  
  display: grid;  
  grid-template-columns: repeat( 3, 100px );  
  grid-template-rows: repeat( 2, 100px );  
  grid-gap: 10px;  
}
```



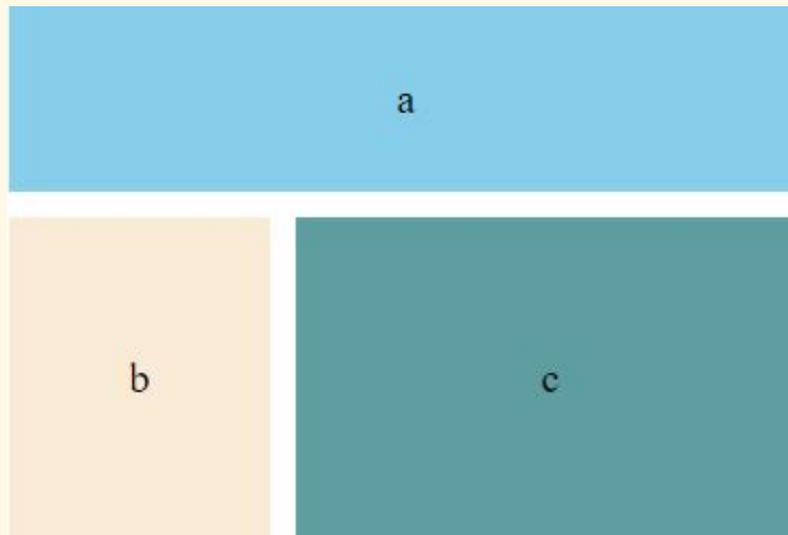
Oh okay cool...
is that all?

The awesomeness of CSS Grid

Grid-template-areas

```
.parent {  
  display: grid;  
  grid-template-areas:  
    "a a a"  
    "b c c"  
    "b c c";  
  grid-gap: 10px;  
}  
.a {  
  grid-area: a;  
}  
.b {  
  grid-area: b;  
}  
.c {  
  grid-area: c;  
}
```

Allows you to literally specify content placement



Grid-template-areas

```
.parent {  
  display: grid;  
  grid-template-areas:  
    "a a a"  
    "b c c"  
    "b c c";  
  grid-gap: 10px;  
}  
.a {  
  grid-area: a;  
}  
.b {  
  grid-area: b;  
}  
.c {  
  grid-area: c;  
}
```

Evenly spaces out elements and fits to specified width

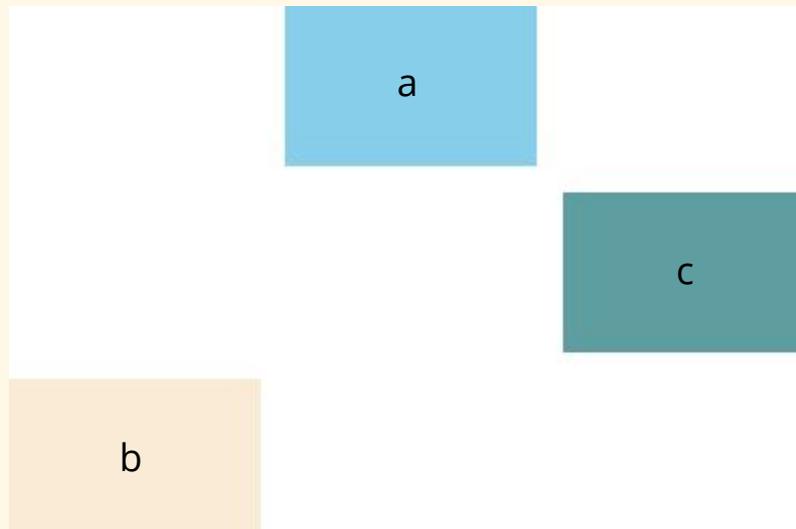


Grid-template-areas

Also allows for blank placement

```
.parent {  
  display: grid;  
  grid-template-areas:  
    ". a ."  
    ". . c"  
    "b . .";  
}
```

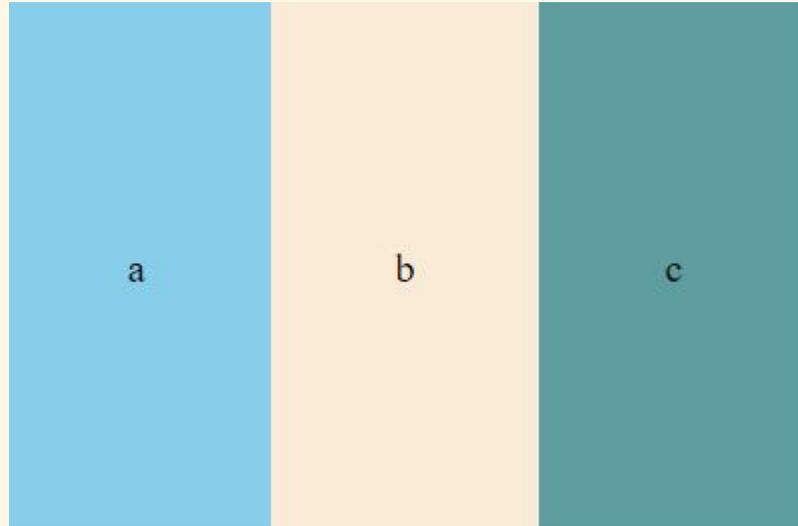
Use the full-stop character "." to specify an empty cell



'fr' unit

Fractional unit that fills up part of available space

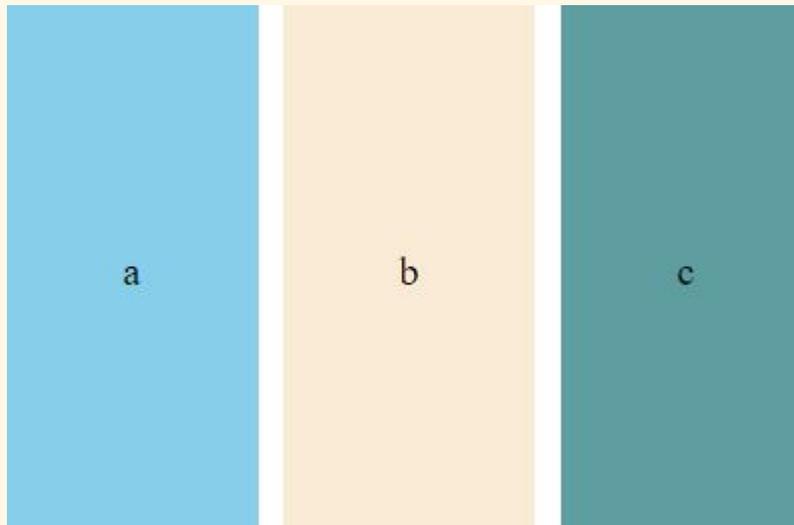
```
.parent {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr;  
}
```



'fr' unit

Works with grid-gap

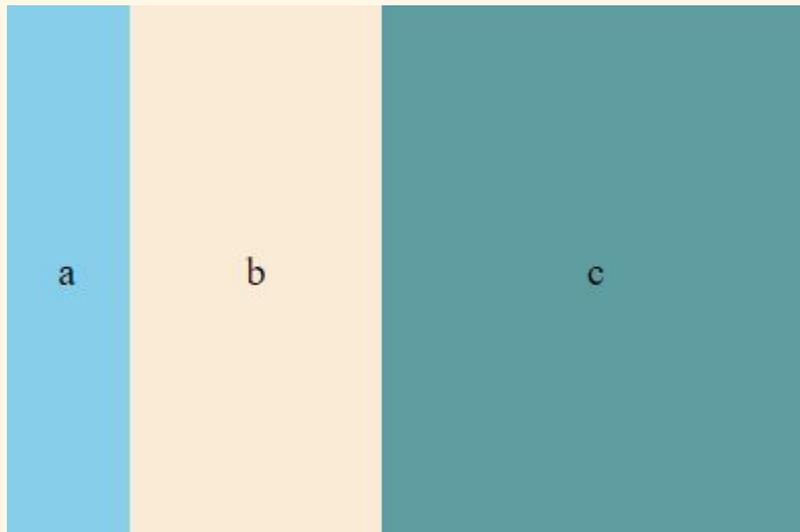
```
.parent {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr;  
  grid-gap: 10px;  
}
```



minmax()

Specifies range for minimum and maximum sizes of elements in a div

```
.parent {  
  display: grid;  
  grid-template-columns: minmax(25px,  
50px) minmax(50px, 100px) minmax(10px,  
1fr);  
}
```



minmax()

With a parent width of 600px



minmax()

With a parent width of 600px



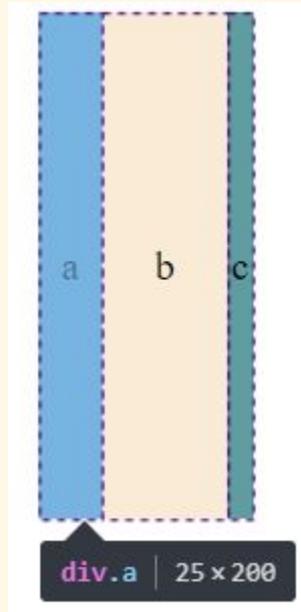
minmax()

With a parent width of 600px



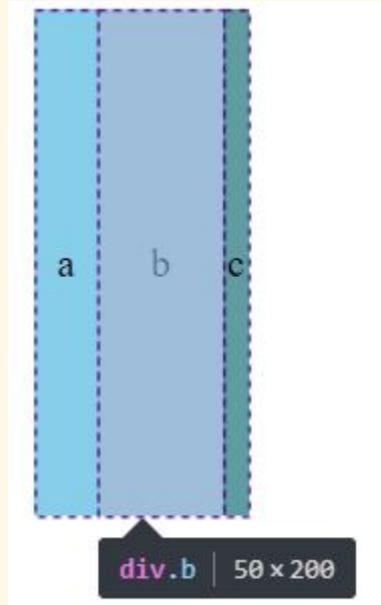
minmax()

With a parent width of 50px



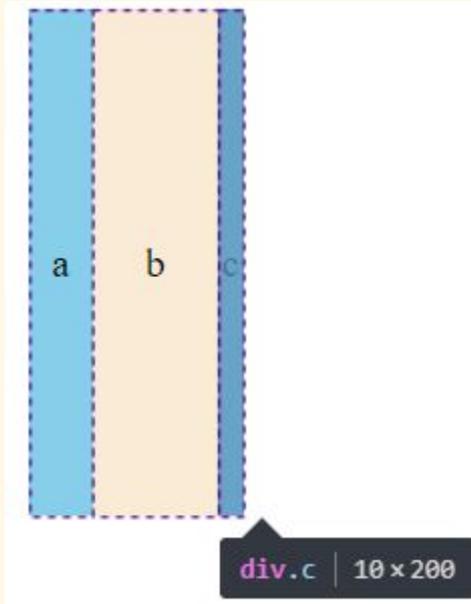
minmax()

With a parent width of 50px



minmax()

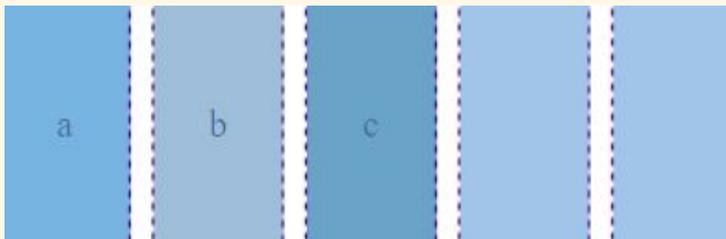
With a parent width of 50px



auto-fill

Fills row with as many columns as can fill the row, including empty columns (?)

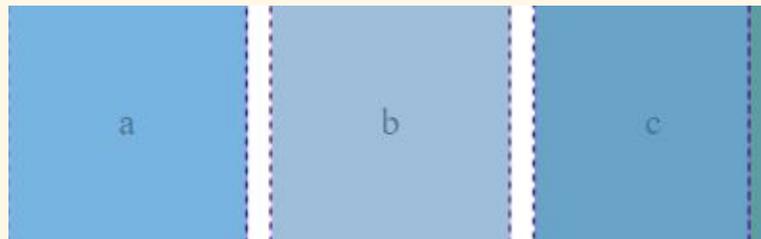
```
.parent {  
  display: grid;  
  grid-template-columns:  
  repeat(auto-fill,  
  minmax(50px, 1fr));  
}
```



auto-fit

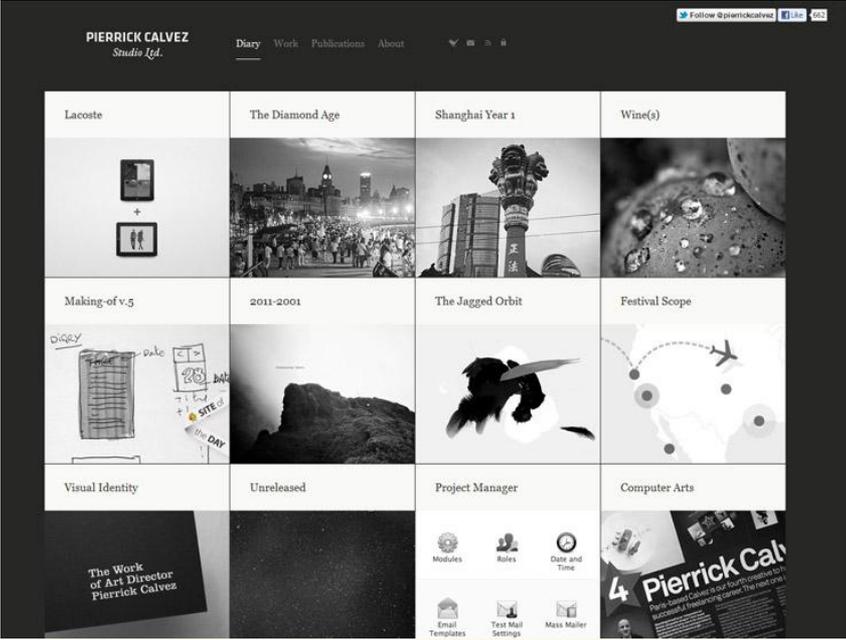
Fills row with existing columns and expands them to take up available space (?)

```
.parent {  
  display: grid;  
  grid-template-columns:  
  repeat(auto-fit,  
  minmax(50px, 1fr));  
}
```

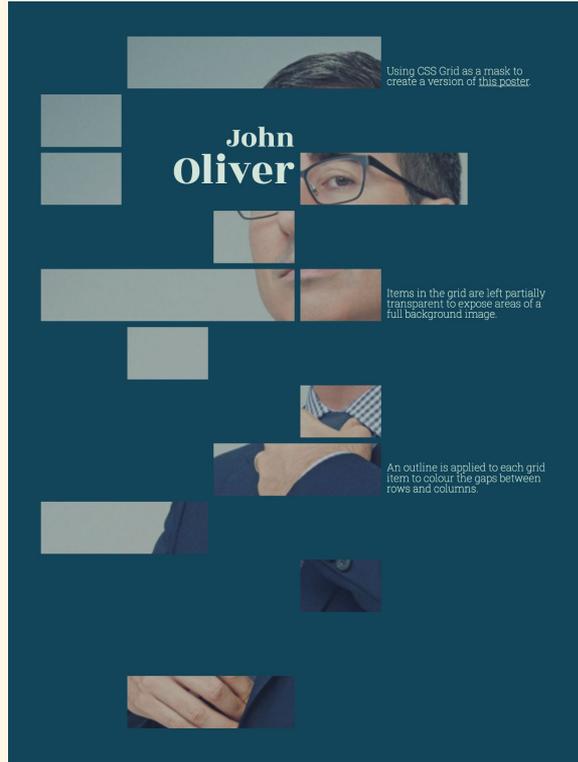


Wow, that's amazing.
So how can it be used?

Regular layouts



Irregular Layouts



“That’s CSS?!” Layout

CSS GRID POSTER

CSS GRIDS ARE COMING – THIS IS MY FIRST TAKE

INCEPTION

IF YOU DON'T SEE ANYTHING – PLEASE ENABLE
chrome://flags/#enable-experimental-web-platform-features
OR MAYBE TRY Firefox for developers (v.48)

POSTER DESIGN BY YUMI SIMONSON

The DAILY PROPHET

• THE WIZARD WORLD'S BEGUILING BROADSHEET OF CHOICE •

What are mugglers really like? Do mugglers dream of electric sheep? These and many more questions are discussed with the top authorites in the field of modern muggler studies. Is it possible that mugglers are not too different from ourselves? Can we in fact learn from the fate of our underdeveloped cousins?

Test the Daily Prophet Page 6

EXCLUSIVE INSIDE THE MIND of a MUGGLER

MARIA THREATENS QUDDITCH PLAYOFFS

HURRICANE

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati.

Upiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnia voluptas assumenda est, omnia dolor repellendus.

Temporibus autem quibdam et aut officis debitis aut erum necessitatibus saepe eveniat ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut recusanda voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

Veteran Captain Oliver Wood did not seem too anxious about the hurricane threat as he and some of his fellow crew met reporters in the lobby at player hotel this morning. At vero eos et accusamus et iusto.

Ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui.

WOOD NOT WORRIED

64 We're prepared for anything. Dealing with bad weather is not a problem. Quidditch is an outdoor sport, and as such, Nature is a part of the game. Playing in rough conditions is in fact something me and my crew are used to.

Harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnia voluptas assumenda est, omnia dolor repellendus.

Temporibus autem quibdam et aut officis debitis aut erum necessitatibus saepe eveniat ut et voluptates repudiandae sint et.

Corrupti quos dolores.

MINISTRY SECRETARY DENIES JOB CRISIS

SCANDAL

ALBUS SEVERUS POTTER

IN POLYJUICE

Potter was discovered trying to enter girls' dorm under the influence of polyjuice.

Albus Severus Potter was discovered trying to enter girls' dorm under the influence of polyjuice.

Hogwarts spokesperson says the incident will not be taken lightly since it was only a few months ago young Potter was involved in a similar incident. Parents of the Hufflepuff girls are now putting pressure on the school to assure the safety of their children.

Okay I'm convinced,
CSS Grid is awesome.
Now let's see some code!

Demo Time!

Yay, I was out of slide content

Demo Page:

<https://jemimaabu.github.io/css-grid>

Open Source:

<https://github.com/jemimaabu/css-grid>

Resources

- <https://css-tricks.com/snippets/css/complete-guide-grid/>
- <https://learncssgrid.com/>
- https://tympanus.net/codrops/css_reference/grid/
- <https://gridbyexample.com/examples/>
- <https://www.awwwards.com/30-grid-based-websites.html>
- <https://www.smashingmagazine.com/2017/10/css-grid-challenge-2017-winners/>
- <https://speckyboy.com/creative-examples-css-grid-layouts/>



www.jemimaabu.com
(Website)

@jemimaabu
(Everywhere else)