



Kirsty's

Bill & Ted's

EXCELLENT adventure

In

CSS Grid



Kirsty's

Bill & Ted's

EXCELLENT adventure

In

CSS Grid

Layouts from hell... Tables

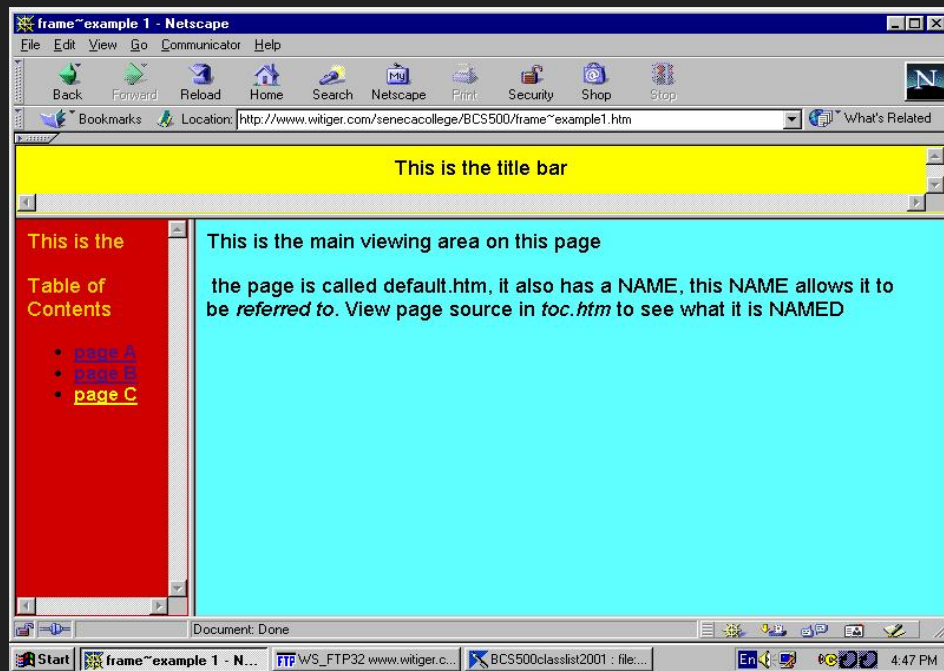
The screenshot shows a web editor interface with a code editor on the left and a design view on the right. The code editor displays the following HTML code:

```
<body> <table>  
6 <title>Untitled 1</title>  
7 </head>  
8  
9 <body style="margin: 0">  
10  
11 <table border="0" cellpadding="0" cellspacing="0" style="width: 955px; height: 600px">  
12 <!-- #TableType="layout" -->  
13 <t>
```

The design view shows a table with a width of 955px and a height of 600px. The table is divided into two columns and one row. The left column is 317px wide and the right column is 318px wide. The table is positioned 82px from the top and 463px from the bottom of the page. The right sidebar contains the 'Layout Tables' panel with the following options:

- Properties: Layout Tables
- New Tables and cells:
 - Insert Layout Table
 - Insert Layout Cell...
 - Show Layout Tool
- Table properties:
 - Width: 955 (955)
 - Height: 600 (600)
 - Alignment: [Left] [Center] [Right]
 - Auto-scale cells with table
 - Set Page Margins...
- Table layout: [Grid icons]

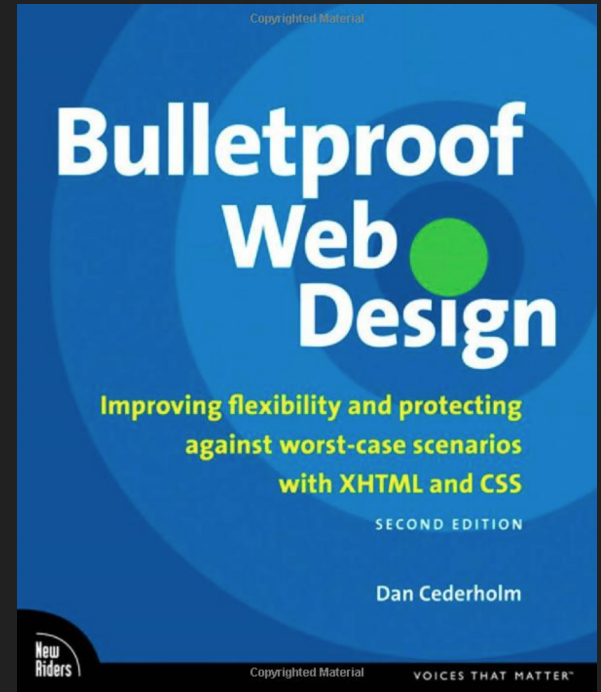
Layouts from hell... Frames



Bulletproof Web Design:

Improving flexibility and protecting against worst-case scenarios with XHTML and CSS

Published Aug 2007



There is a slightly newer version now:

Bulletproof Web Design: Improving flexibility and protecting against worst-case scenarios with HTML5 and CSS3. Published Dec 2011.

Zen Garden

The Beauty of CSS Design

*A demonstration of what
can be accomplished
through CSS-based design.
Select any style sheet from
the list to load it into this
page.*

*Download the example
[html file](#) and [css file](#)*

The Road to Enlightenment

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, broken CSS support, and abandoned browsers.

We must clear the mind of the past. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WaSP, and the major browser creators.

The CSS Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the time-honored techniques in new and invigorating fashion. Become one with the web.



select a design:

Depths by Greg Miles
Cohen

Mid Century Modern by
Andrew Lohman

Garments by Dan Mall

Steel by Steffen
Knoeller

Apothecary by Trent
Walton

Screen Filler by Elliot
Jay Stocks

CSS3

```
display: block;
```

```
display: flex;
```

```
display: grid;
```

CSS3

```
display: block;
```

100%

```
display: flex;
```

98.72%

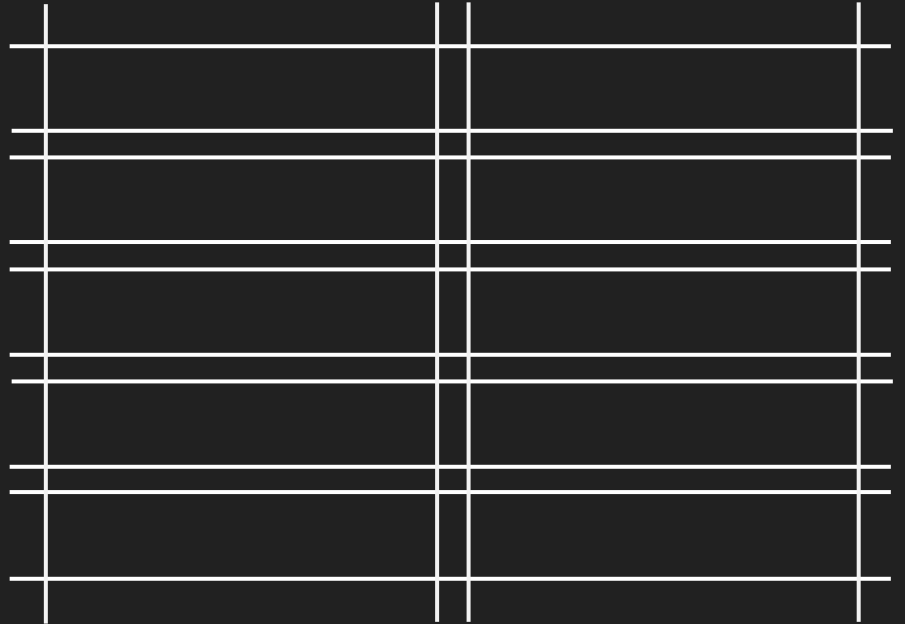
```
display: grid;
```

94.47%

CSS Grid.

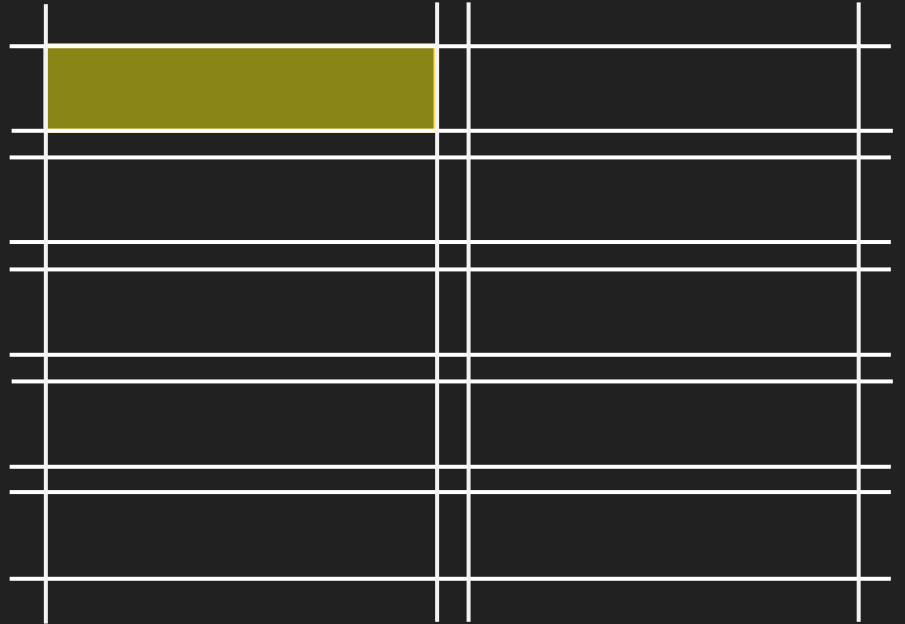
“A grid is an intersecting set of horizontal and vertical lines – one set defining columns, and the other, rows. Elements can be placed onto the grid, within these column and row lines.”

~ MDN Web Docs.



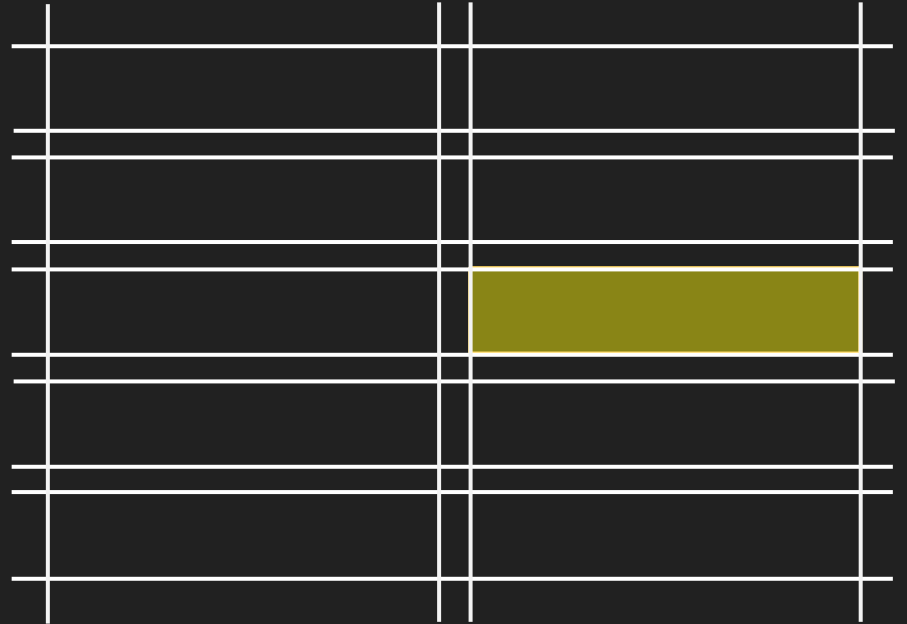
“A grid is an intersecting set of horizontal and vertical lines – one set defining columns, and the other, rows. Elements can be placed onto the grid, within these column and row lines.”

~ MDN Web Docs.



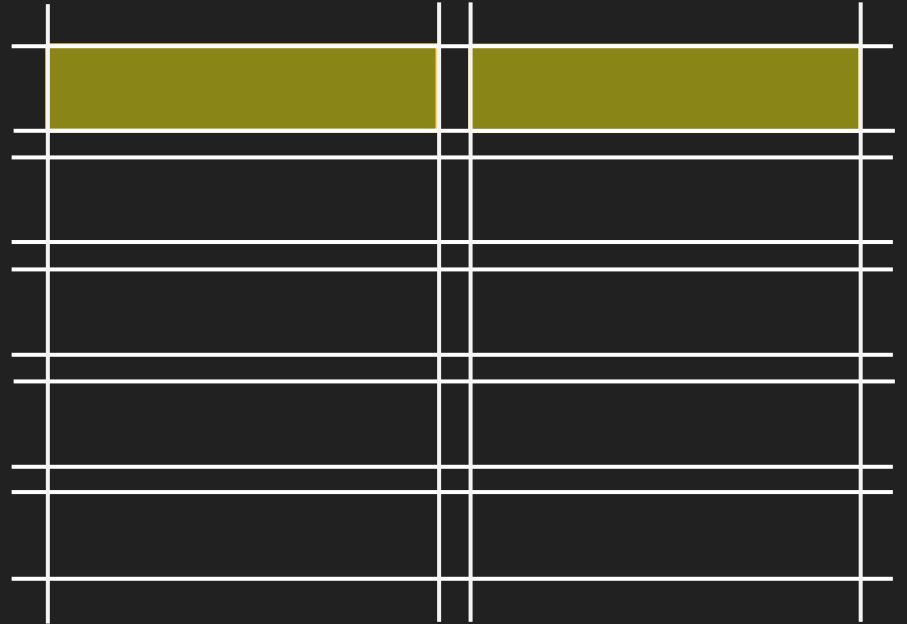
“A grid is an intersecting set of horizontal and vertical lines – one set defining columns, and the other, rows. Elements can be placed onto the grid, within these column and row lines.”

~ MDN Web Docs.



“A grid is an intersecting set of horizontal and vertical lines – one set defining columns, and the other, rows. Elements can be placed onto the grid, within these column and row lines.”

~ MDN Web Docs.



Implicit Grid.

Implicit grid

```
<div class="grid__container">
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
</div>
```

Implicit grid

```
<div class="grid__container">
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
</div>
```

```
.grid__container {
  display: grid;
  grid-gap: 10px;
}
```


Implicit grid

```
<div class="grid__container">
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
</div>
```

```
.grid__container {
  display: grid;
  grid-gap: 10px;
}
```



Implicit grid

```
<div class="grid__container">
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
</div>
```

```
.grid__container {
  display: grid;
  grid-gap: 10px;
}
```



Implicit grid

```
<div class="grid__container">
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
  <div class="grid__item"></div>
</div>
```

```
.grid__container {
  display: grid;
  grid-gap: 10px;
}
```



Explicit Grid.

Explicit grid -- Setting columns.

```
.grid__container {  
  display: grid;  
  grid-template-columns: 150px 150px;  
  grid-gap: 10px;  
}
```


Explicit grid -- Setting columns.

```
.grid__container {  
  display: grid;  
  grid-template-columns: 150px 150px;  
  grid-gap: 10px;  
}
```



Explicit grid -- Setting rows.

```
.grid__container {  
  display: grid;  
  grid-template-columns: 150px 150px;  
  grid-template-rows: 50px 100px 50px;  
  grid-gap: 10px;  
}
```



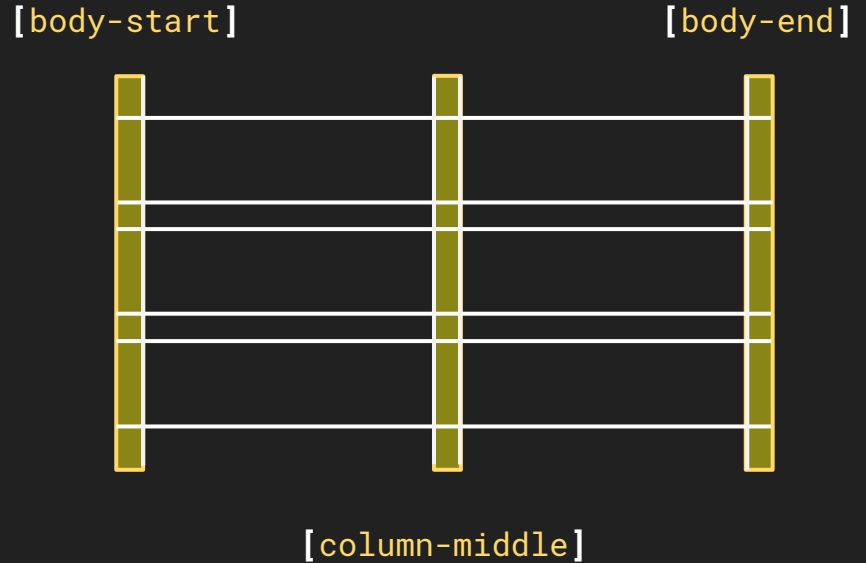
Explicit grid -- track lines.

```
.grid__container {  
  display: grid;  
  grid-template-columns:  
    [body-start]  
    150px  
    [column-middle]  
    150px  
    [body-end];  
  grid-gap: 10px;  
}
```



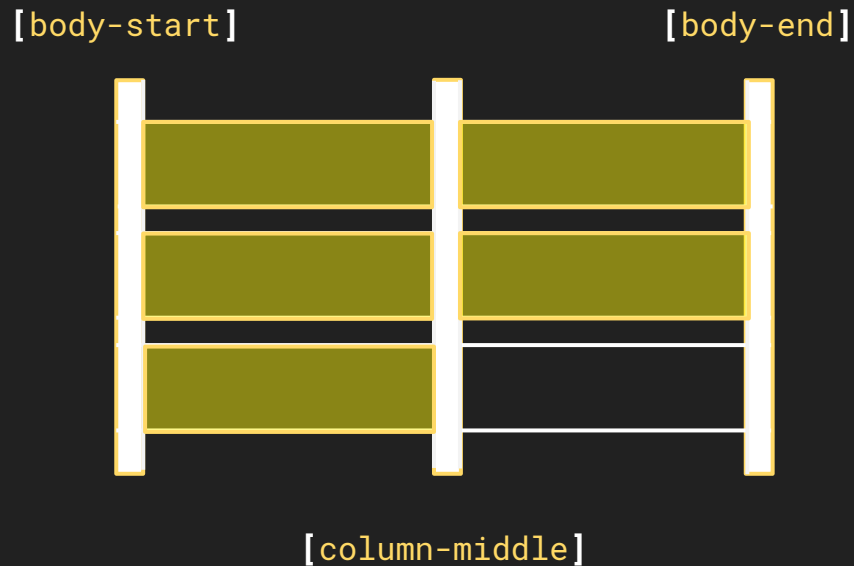
Explicit grid -- track lines.

```
.grid__container {  
  display: grid;  
  grid-template-columns:  
    [body-start]  
    150px  
    [column-middle]  
    150px  
    [body-end];  
  grid-gap: 10px;  
}
```



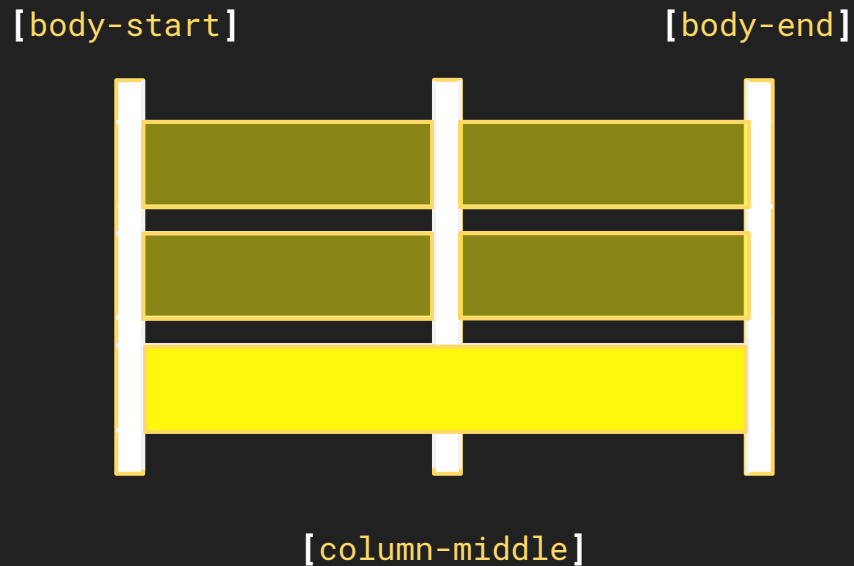
Explicit grid -- placement.

```
.grid__item:nth-child(odd) {  
  grid-column: [body-start] / [column-middle];  
}  
  
.grid__item:nth-child(even) {  
  grid-column: [column-middle] / [body-end];  
}
```



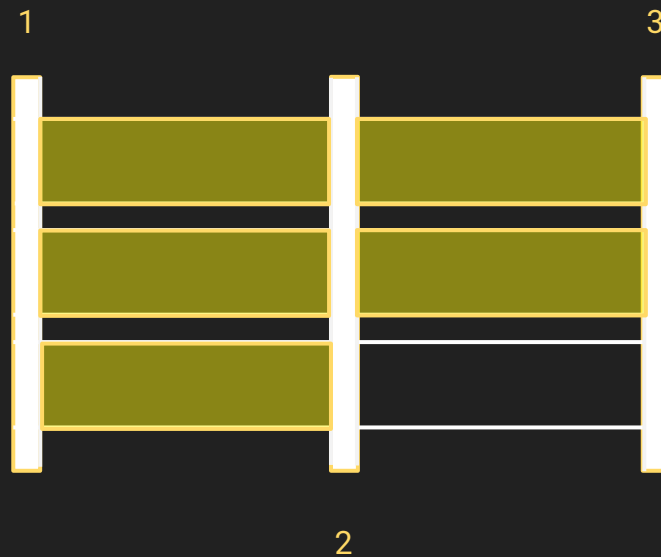
Explicit grid -- placement.

```
.grid__item:nth-child(5) {  
  grid-column: [body-start] / [body-end];  
}
```



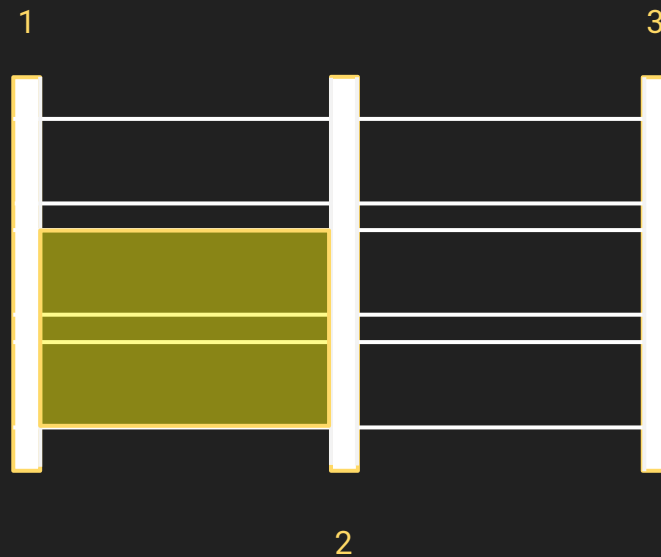
Explicit grid -- track lines.

```
.grid__item:nth-child(odd) {  
  grid-column: 1 / 2;  
}  
  
.grid__item:nth-child(even) {  
  grid-column: 2 / 3;  
}
```



Explicit grid -- track lines.

```
.grid__item {  
  grid-area: 2 / 1 / span 2 / span 1;  
}
```

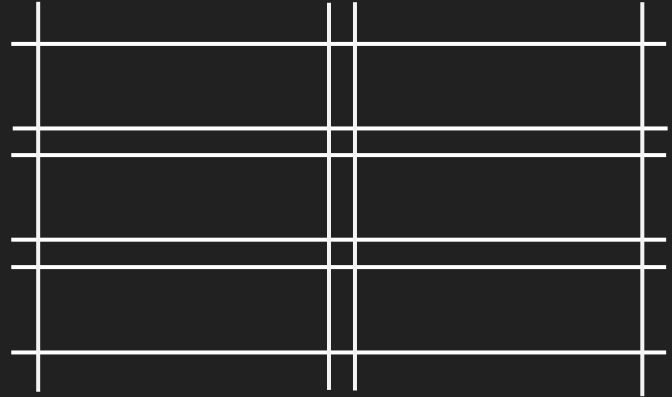


Getting started

Units & Functions.

The fr unit.

```
grid-template-columns: 1fr 1fr;
```



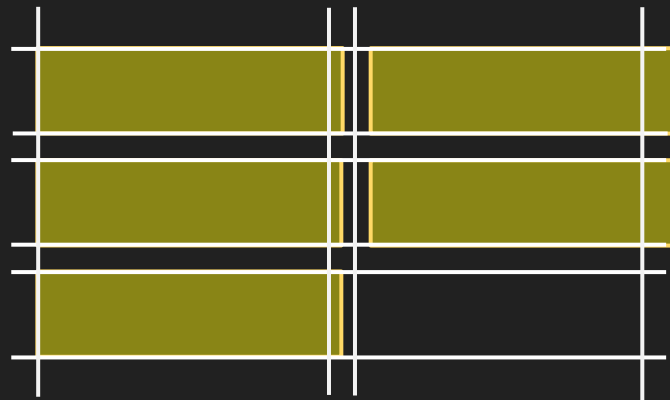
The fr unit.

```
.grid__container {  
  display: grid;  
  grid-template-columns: 150px 150px;  
  grid-gap: 10px;  
}
```



The fr unit.

`150px + 10px + 150px === 310px` 😞



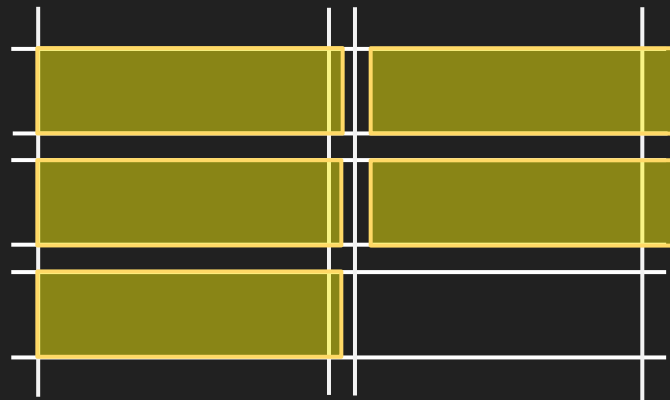
The fr unit.

```
.grid__container {  
  display: grid;  
  grid-template-columns: 50% 50%;  
  grid-gap: 10px;  
}
```



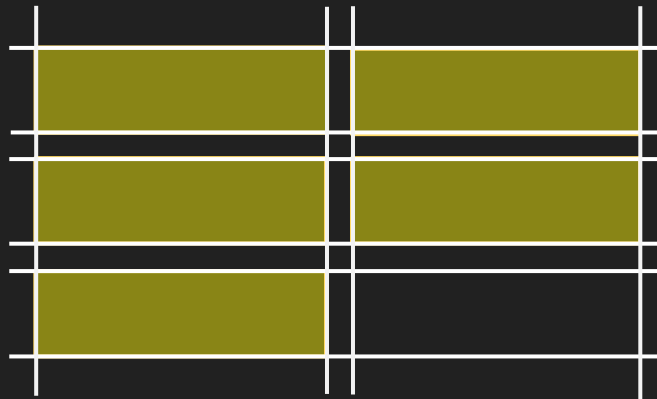
The fr unit.

`50% + 10px + 50%` === 🙄🙄🙄🙄



The fr unit.

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

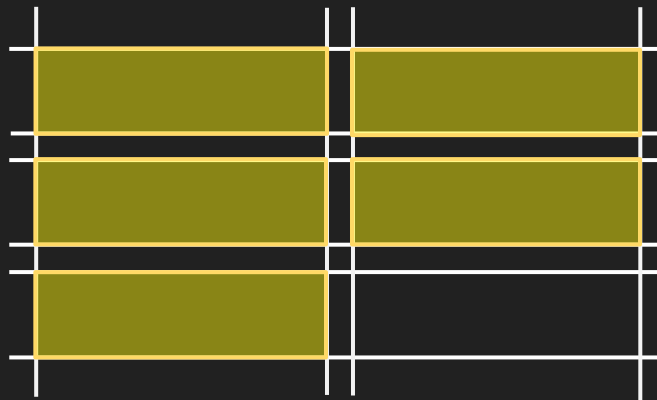


repeat()

```
grid-template-columns: repeat(2, 1fr);
```

repeat()

```
.grid__container {  
  display: grid;  
  grid-template-columns: repeat(2, 1fr);  
  grid-template-rows: repeat(3, 50px);  
  grid-gap: 10px;  
}
```



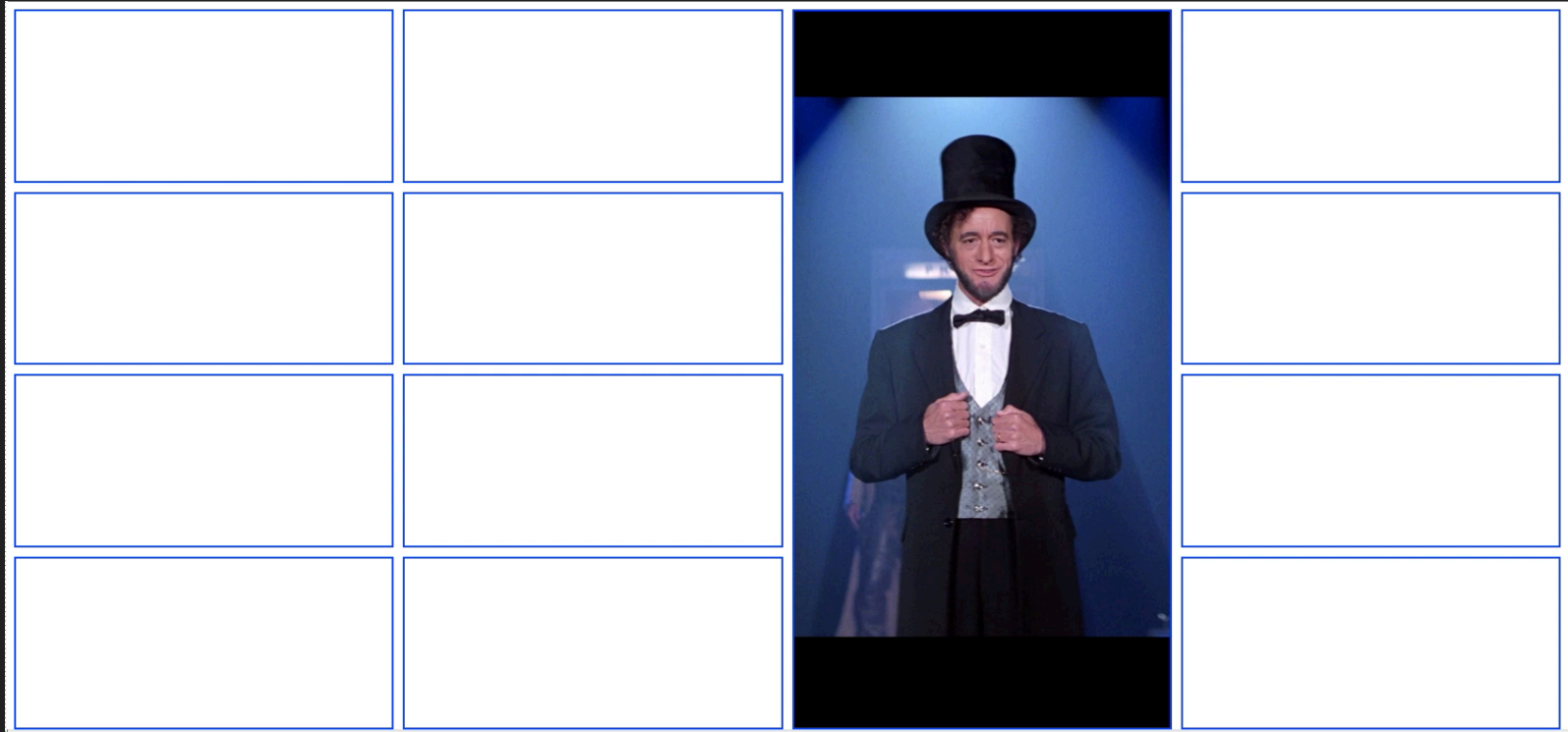
minmax()

```
grid-template-columns: repeat(2, minmax(20px, 1fr));
```

minmax()

```
.grid__container {  
  display: grid;  
  grid-template-columns: 1fr 1fr minmax(150px, 1fr) 1fr;  
  grid-template-rows: auto;  
  grid-gap: 10px;  
}
```

minmax()



Creating Truly Flexible Layouts.

The no breakpoints approach.

The no breakpoint approach.

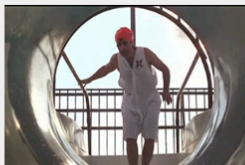
"If we were one of Europe's greatest leaders, and we were stranded in San Dimas for one day where would we go?"

Which of these popular San Dimas locations did Napoleon not visit?

San Dimas High?



Raging Waters Water Park?



Ted's House?



San Dimas Bowling Alley?



San Dimas Mall?



Zyggie's Ice Cream Parlour?



Circle-K?



Los Angeles Sherrif Department?



The no breakpoint approach.

```
.grid__container {  
  display: grid;  
  grid-template-columns:  
    repeat( auto-fill, minmax( 200px, 1fr ) );  
  grid-gap: 20px;  
}
```

The no breakpoint approach.

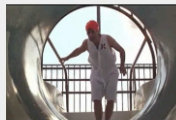
"If we were one of Europe's greatest leaders, and we were stranded in San Dimas for one day where would we go?"

Which of these popular San Dimas locations did Napoleon not visit?

San Dimas High?



Raging Waters Water Park?



Ted's House?



San Dimas Bowling Alley?



San Dimas Mall?



Zyggie's Ice Cream Parlour?



Circle-K?



Los Angeles Sherrif Department?



The no breakpoint approach.

```
// IE Fallbacks 🙄🗑️🔥  
  
.grid__container {  
  display: flex;  
  flex-flow: row wrap;  
}  
  
.grid__container > * {  
  margin: 10px;  
}
```

The no breakpoint approach.

```
// IE Fallbacks 🙄🗑️🔥

.grid__container {
  display: flex;
  flex-flow: row wrap;
}

.grid__container > * {
  margin: 10px;
}
```

```
// Fun Grid Stuff! 🥳🎉❤️

@supports ( display: grid ) {
  .grid__container {
    display: grid;
    grid-template-columns:
      repeat( auto-fill, minmax( 200px, 1fr ) );
    grid-gap: 20px;
  }

  .grid__container > * {
    margin: unset;
  }
}
```

The no `.wrapper` approach.

The no .wrapper approach.

```
.wrapper {  
  width: 100%;  
  max-width: 1024px;  
  margin: 0 auto;  
  padding: 0 5px;  
  
  @media ( min-width: 1024px ) {  
    padding: 0 10px;  
  }  
}
```

The no .wrapper approach.

```
.grid__container {  
  display: grid;  
  grid-template-columns:  
    [body-start]  
    minmax(10px, 1fr)  
    [container-start]  
    minmax(300px, 1280px)  
    [container-end]  
    minmax(10px, 1fr)  
    [body-end]  
  grid-template-rows: auto;  
  grid-gap: 10px;  
}
```

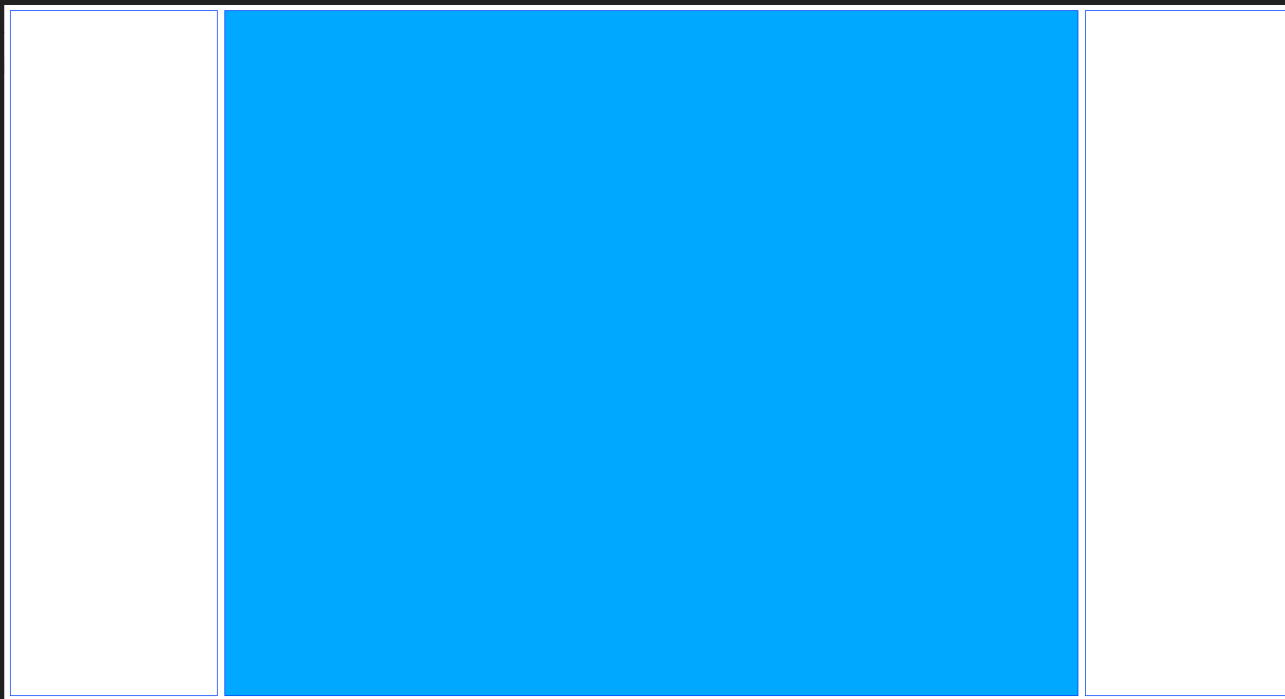
The no .wrapper approach.

```
.grid__container {  
  display: grid;  
  grid-template-columns:  
    [body-start]  
    minmax(10px, 1fr)  
    [container-start]  
    minmax(300px, 1280px)  
    [container-end]  
    minmax(10px, 1fr)  
    [body-end]  
  grid-template-rows: auto;  
  grid-gap: 10px;  
}
```


The no .wrapper approach.

[body-start]

[body-end]



[container-start]

[container-end]

The no .wrapper approach.



SAN DIMAS HISTORY REPORT EXTRAVAGANZA!

Curabitur blandit tempus porttitor. Etiam porta sem malesuada magna mollis euismod. Nullam quis risus eget urna mollis ornare vel eu leo. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Maecenas faucibus mollis interdum. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean lacinia bibendum nulla sed consectetur. Nullam id dolor id nibh ultricies vehicula ut id elit.

Cras mattis consectetur purus sit amet fermentum. Sed posuere consectetur est at lobortis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor.

Curabitur blandit tempus porttitor. Etiam porta sem malesuada magna mollis euismod. Nullam quis risus eget urna mollis ornare vel eu leo. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Maecenas faucibus mollis interdum. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean lacinia bibendum nulla sed consectetur. Nullam id dolor id nibh ultricies vehicula ut id elit.

Cras mattis consectetur purus sit amet fermentum. Sed posuere consectetur est at lobortis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor.

Curabitur blandit tempus porttitor. Etiam porta sem malesuada magna mollis euismod. Nullam quis risus eget urna mollis ornare vel eu leo. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Maecenas faucibus mollis interdum. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean lacinia bibendum nulla sed consectetur. Nullam id dolor id nibh ultricies vehicula ut id elit.

Cras mattis consectetur purus sit amet fermentum. Sed posuere consectetur est at lobortis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor.

SAN DIMAS HISTORY REPORT EXTRAUVAGANZA!



Curabitur blandit tempus porttitor. Etiam porta sem malesuada magna mollis euismod. Nullam quis risus eget urna mollis ornare vel eu leo. Vivamus sagittis lacus vel augue laoreet rutrum faucibus dolor auctor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Maecenas faucibus mollis interdum. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean lacinia bibendum nulla sed consectetur. Nullam id dolor id nibh ultricies vehicula ut id elit.

The no .wrapper approach.

```
// The old way 🙄🗑️🔥  
  
.fullwidth {  
  width: 100vw;  
  position: relative;  
  left: 50%;  
  right: 50%;  
  margin-left: -50vw;  
  margin-right: -50vw;  
}
```

The no .wrapper approach.


```
// The old way 🙄🗑️🔥  
  
.fullwidth {  
  width: 100vw;  
  position: relative;  
  left: 50%;  
  right: 50%;  
  margin-left: -50vw;  
  margin-right: -50vw;  
}
```

```
// Fun Grid Stuff! 😁🎉❤️  
  
.fullwidth {  
  grid-column: [body-start] / [body-end];  
}
```

The no .wrapper approach.

San Dimas High School

History Report Extravaganza!



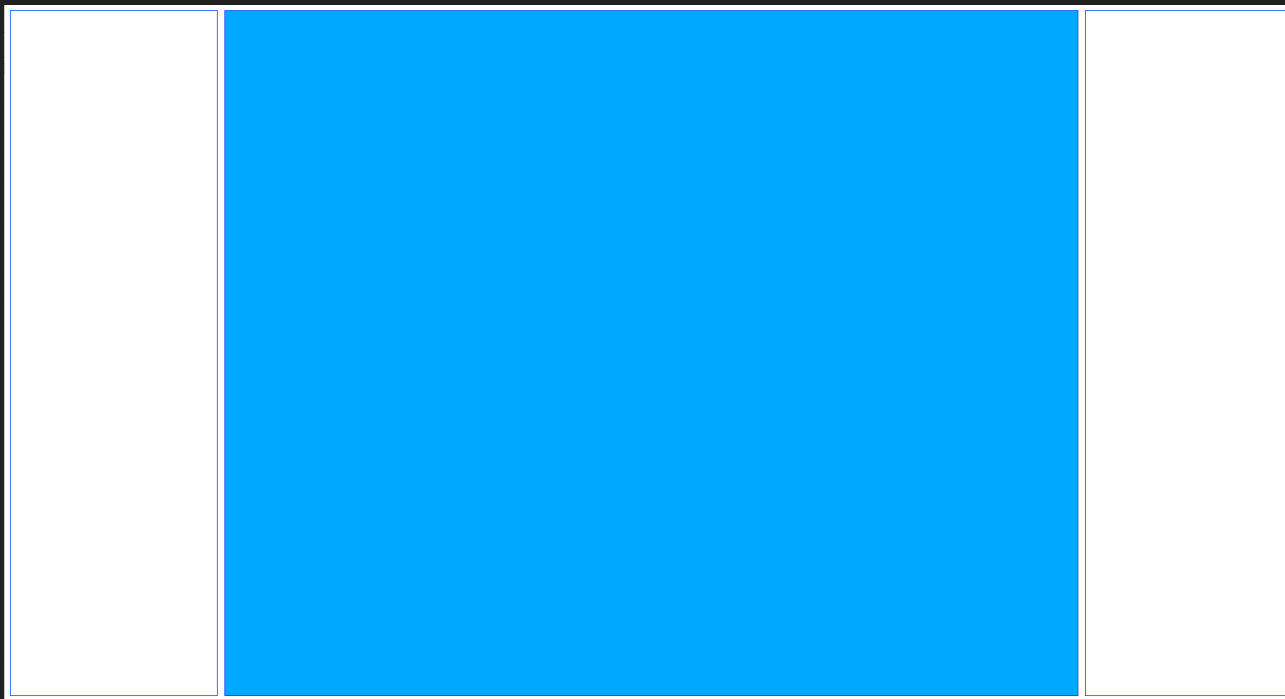
Be Excellent to each other.

Maecenas faucibus mollis interdum. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean lacinia bibendum nulla sed consectetur. Nullam id dolor id nibh ultricies vehicula ut id elit.

The no .wrapper approach.

[body-start]

[body-end]



[container-start]

[container-end]

The no .wrapper approach.

San Dimas High School

History Report Extravaganza!



Be Excellent to each other.

Maecenas faucibus mollis interdum. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Aenean lacinia bibendum nulla sed consectetur. Nullam id dolor id nibh ultricies vehicula ut id elit.

The no .wrapper approach.

```
.grid__container {  
  display: grid;  
  grid-template-columns:  
    [body-start]  
    minmax(10px, 1fr)  
    [container-start]  
    minmax(300px, 1280px)  
    [container-end]  
    minmax(10px, 1fr)  
    [body-end]  
  [...]
```

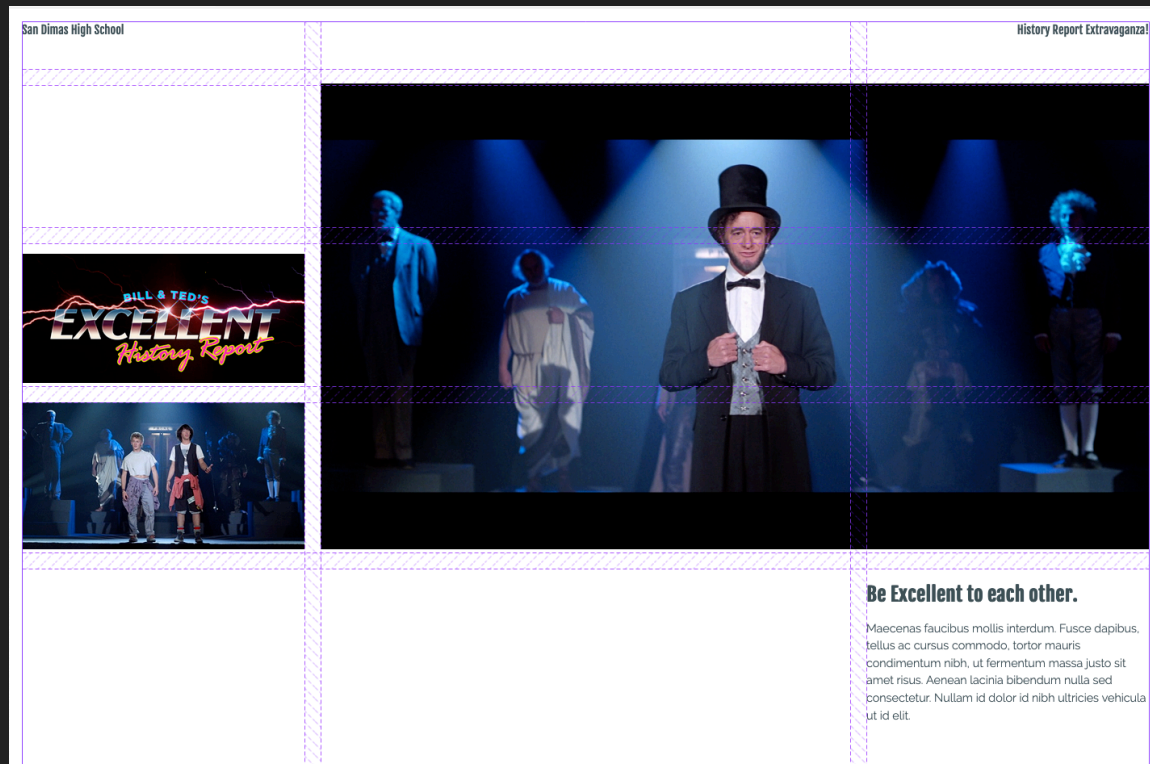
The no .wrapper approach.

```
.grid__container {  
  display: grid;  
  grid-template-columns:  
    [body-start]  
    minmax(10px, 1fr)  
    [container-start]  
    minmax(300px, 1280px)  
    [container-end]  
    minmax(10px, 1fr)  
    [body-end]  
}
```

[...]

```
[...]  
  grid-template-rows:  
    [page-start]  
    1fr  
    [content-start]  
    repeat( 3, 3fr )  
    [content-end]  
    5fr  
    [page-end]  
  grid-gap: 10px;  
}
```

The no .wrapper approach.



Creating Truly Flexible Layouts.

SUB Grid

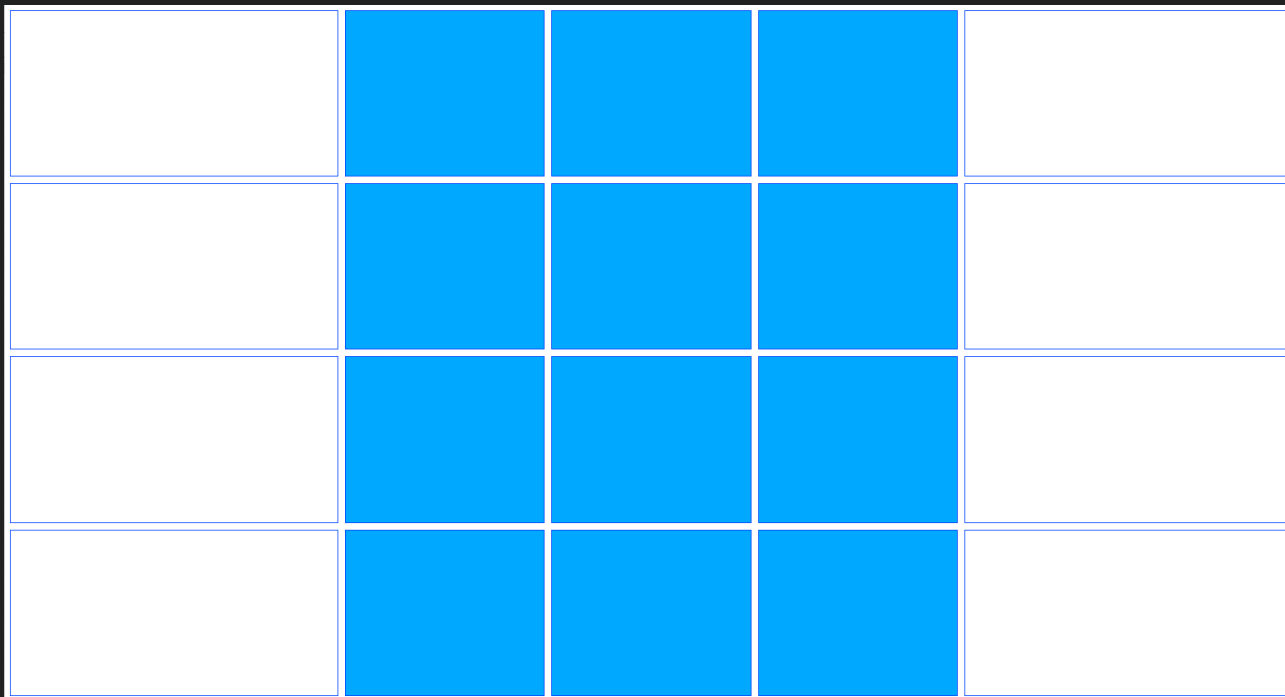
Sub Grid.

```
.grid__container {
  display: grid;
  grid-template-columns:
    [body-start]
    minmax(10px, 1fr)
    [container-start]
    repeat(3, minmax(0, 400px))
    [container-end]
    minmax(10px, 1fr)
    [body-end]
  grid-template-rows: auto;
  grid-gap: 10px;
}
```

Sub Grid.

[body-start]

[body-end]



[container-start]

[container-end]

Sub Grid.

```
.grid__item {  
  grid-column-end: span 3;  
  grid-column: 2 / 5;  
  @media ( min-width: 1024px ) {  
    grid-column-end: span 1;  
  }  
}
```

```
@media ( min-width: 1024px ) {  
  .grid__item:nth-child(3n + 1) {  
    grid-column: 2 / 3;  
  }  
  .grid__item:nth-child(3n + 2) {  
    grid-column: 3 / 4;  
  }  
  .grid__item:nth-child(3n + 3) {  
    grid-column: 4 / 5;  
  }  
}
```


"If we were one of Europe's greatest leaders, and we were stranded in San Dimas for one day where would we go?"

Which of these popular San Dimas locations did Napoleon not visit?

San Dimas High?



Raging Waters Water Park?



Ted's House?



San Dimas Bowling Alley?



San Dimas Mall?



Zyggie's Ice Cream Parlour?



Circle-K?



Los Angeles Sherrif Department?



Sub Grid.

```
.grid__container {  
  display: grid;  
  grid-template-columns:  
    [body-start]  
    minmax(10px, 1fr)  
    [container-start]  
    repeat(auto-fill, minmax(400px, 1fr))  
    [container-end]  
    minmax(10px, 1fr)  
    [body-end]  
  grid-template-rows: auto;  
  grid-gap: 10px;  
}
```

Sub Grid.

```
// Fun Sub Grid Stuff! 🤪🎉❤️

.subgrid__container {
  grid-column: [container-start] / [container-end];
  display: grid;
  grid-template-columns: subgrid;
}
```

Bill & Ted's *EXCELLENT* adventure

HISTORY IS ABOUT TO BE RE-WRITTEN BY TWO GUYS WHO CAN'T SPELL



Sub Grid.

```
.grid__container {
  display: grid;
  grid-template-columns:
    [body-start]
    minmax(10px, 1fr)
    [container-start]
    repeat(auto-fill, minmax(400px, 1fr))
    [container-end]
    minmax(10px, 1fr)
    [body-end]
  grid-template-rows: auto;
  grid-gap: 10px;
}
```

```
// Fun Sub Grid Stuff! 🥳🎉❤️

.subgrid__container {
  grid-column: [container-start] / [container-end];
  display: grid;
  grid-template-columns: subgrid;
}
```

Bill & Ted's

BOGUS Journey

Avoiding the



Content ordering.

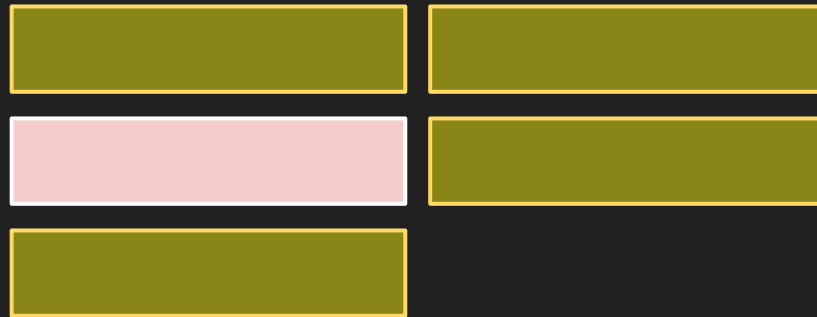
Gotcha's -- Content ordering

```
.grid__container {  
  display: grid;  
  grid-template-columns: repeat(2, 1fr);  
  grid-template-rows: repeat(3, 50px);  
  grid-gap: 10px;  
}
```



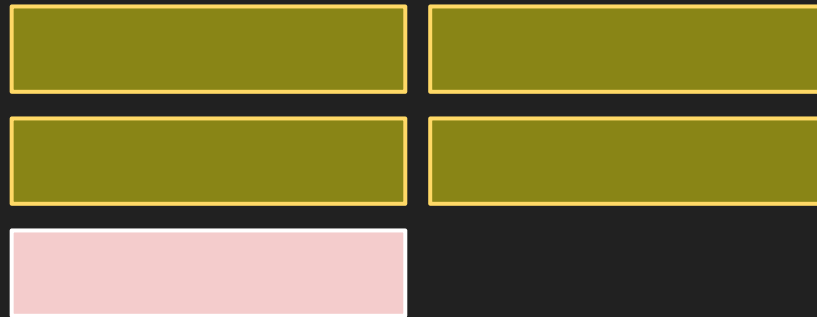
Gotcha's -- Content ordering

```
.grid__item:nth-child(3) {  
  
}
```



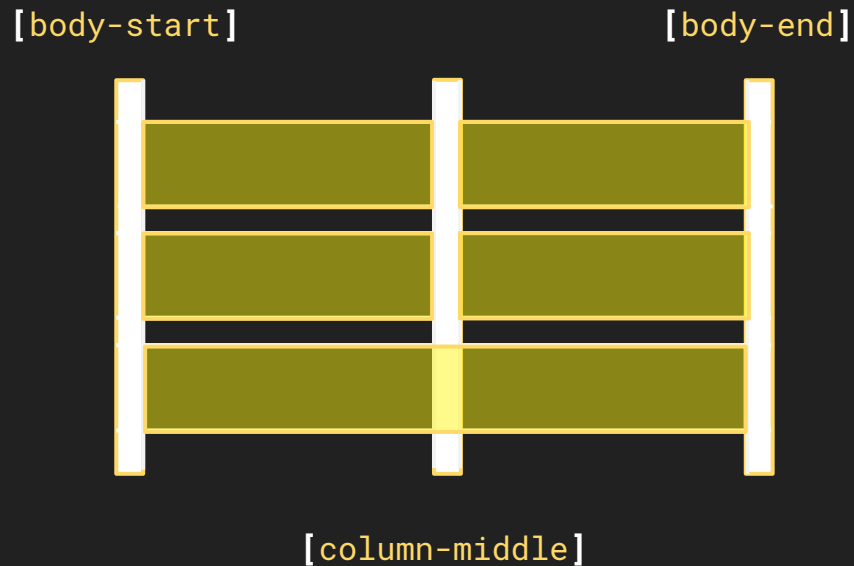
Gotcha's -- Content ordering.

```
.grid__item:nth-child(3) {  
  order: 5;  
}
```



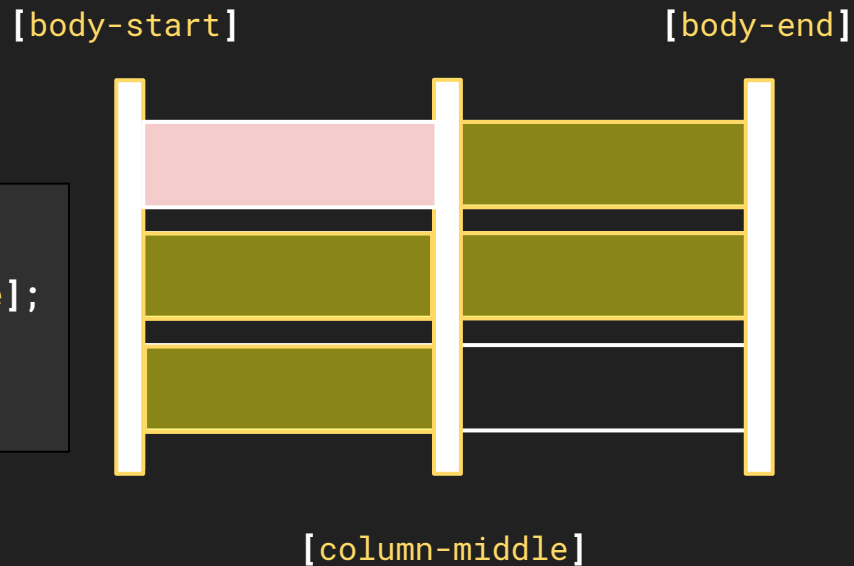
Gotcha's -- Content ordering and placement.

```
.grid__item:nth-child(5) {  
  grid-column: [body-start] / [body-end];  
}
```



Gotcha's -- Content ordering and placement.

```
.grid__item:nth-child(5) {  
  grid-column: [body-start] / [column-middle];  
  grid-row: 1 / 2;  
}
```



Internet Explorer...



Specification Properties and Values

Here is a table detailing the properties in the spec at CR, the IE10 properties and also whether they are prefixed by Autoprefixer as tested using the [online Autoprefixer tool](#).

CR Level 1 Property	IE10 Implementation	Autoprefixer	Note
grid-template-columns	-ms-grid-columns	Yes	
grid-template-rows	-ms-grid-rows	Yes	
grid-template-areas	-	No	
grid-template	-	No	Shorthand
grid-auto-columns	-	No	
grid-auto-rows	-	No	
grid-auto-flow	-	No	
grid	-	No	Shorthand
grid-row-start	-ms-grid-row	Yes	
grid-column-start	-ms-grid-column	Yes	
grid-row-end	-	No	Defined by the -ms-grid-row-span property
grid-column-end	-	No	Defined by the -ms-grid-column-span property
grid-row	-	Yes (only for start value)	Shorthand for setting start and end values together

Should I try to use the IE Implementation of CSS Grid.

<https://rachelandrew.co.uk>

Published November 2016

Should I try to use the IE version of Grid Layout?

Revisited for 2018.

<https://rachelandrew.co.uk>

Published July 2018

Should I try to use the IE version of Grid Layout? Revisited for 2018

Published on the 17 July 2018.

In November 2016, [I wrote an article in response to a question about Grid support in IE10 and 11](#). In that piece I wrote a quick rundown of what parts of the modern specification were supported in the older IE version. During a recent discussion onstage at An Event Apart, the issue of using the `-ms` prefixed version came up. As [Jeremy Keith has documented his thoughts on that discussion](#), I thought I would post mine as a response to his post and also as an update to my previous article.

Should I create a fallback version specifically for IE10 and 11?

It is possible to use the `-ms` prefixed version to create a fallback, although it misses some features of the modern specification. The question really is, is it worth you going to that trouble for a diminishing number of visitors, when you will also need to create a fallback version for browsers which do not have grid and are not IE10 and 11. That's three versions you are creating and, as Jeremy points out, it makes far more sense to make one fallback for everyone.

The only reason I would be considering using the `-ms` prefixed version at this point, would be in the following situation:

1. I need to do something which only grid can achieve.
2. And, the `-ms` prefixed version would be overwhelmingly better than a simpler fallback.
3. And, I have a large percentage of visitors in IE10/11.

If making your site look exactly the same in browsers which do not support grid as those which do support grid is that important, maybe *don't use Grid Layout*. This is still a valid choice. That way you can use legacy techniques which work in modern browsers as well as legacy browsers. If you want to do something that can only be done with grid however, then you need to think about non-grid supporting browsers. This includes IE10 and 11.

Prefixing

```
.grid__container {  
  display: grid;  
  grid-template-columns: repeat(2, 1fr);  
  grid-template-rows: repeat(3, 50px);  
  grid-gap: 10px;  
}
```


Prefixing 🙄🗑️🔥

```
.grid__container {  
  display: grid;  
  display: -ms-grid;  
  grid-template-columns: repeat(2, 1fr);  
  -ms-grid-columns: 1fr 1fr;  
  grid-template-rows: repeat(3, 50px);  
  -ms-grid-rows: 50px 50px 50px;  
  grid-gap: 10px;  
}
```

Gotcha's -- Internet Explorer

repeat()



```
grid-template-columns: repeat(2, 1fr);
```

```
-ms-grid-columns: 1fr 1fr;
```

Auto-placement

```
.grid__container {  
  display: grid;  
  display: -ms-grid;  
  grid-template-columns: repeat(2, 1fr);  
  -ms-grid-columns: 1fr 1fr;  
  grid-template-rows: repeat(3, 50px);  
  -ms-grid-rows: 50px 50px 50px;  
  grid-gap: 10px;  
}
```

Gotcha's -- Internet Explorer

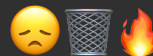
```
.grid__item:nth-child(1) {  
  -ms-grid-column: 1;  
  -ms-grid-column-span: 2;  
  -ms-grid-row: 1;  
  -ms-grid-row-span: 2;  
}
```



```
.grid__item:nth-child(2) {  
  -ms-grid-column: 2;  
  -ms-grid-column-span: 3;  
  -ms-grid-row: 1;  
  -ms-grid-row-span: 2;  
}
```

```
.grid__item:nth-child(3) {  
  -ms-grid-column: 1;  
  -ms-grid-column-span: 2;  
  -ms-grid-row: 2;  
  -ms-grid-row-span: 3;  
}
```

```
.grid__item:nth-child(4) {  
  -ms-grid-column: 2;  
  -ms-grid-column-span: 3;  
  -ms-grid-row: 2;  
  -ms-grid-row-span: 3;  
}
```



```
.grid__item:nth-child(5) {  
  -ms-grid-column: 1;  
  -ms-grid-column-span: 2;  
  -ms-grid-row: 3;  
  -ms-grid-row-span: 4;  
}
```

```
.grid__item:nth-child(6) {  
  -ms-grid-column: 2;  
  -ms-grid-column-span: 3;  
  -ms-grid-row: 3;  
  -ms-grid-row-span: 4;  
}
```

Grid child placement mixin. 🙄🗑️🔥

```
@mixin grid-child( $col-start, $col-end, $row-start, $row-end ) {  
  -ms-grid-column: $col-start;  
  -ms-grid-column-span: $col-end;  
  grid-column: #{ $col-start } / #{ $col-end };  
  -ms-grid-row: $row-start;  
  -ms-grid-row-span: $row-end;  
  grid-row: #{ $row-start } / #{ $row-end };  
}
```

Grid child placement mixin. 😞🗑️🔥

```
.grid__item:nth-child(1) {
  @include grid-child(1, 2, 1, 2);
}

.grid__item:nth-child(2) {
  @include grid-child(2, 3, 1, 2);
}

.grid__item:nth-child(3) {
  @include grid-child(1, 2, 2, 3);
}
```

```
.grid__item:nth-child(4) {
  @include grid-child(1, 2, 2, 3);
}

.grid__item:nth-child(5) {
  @include grid-child(2, 3, 2, 3);
}

.grid__item:nth-child(6) {
  @include grid-child(3, 4, 2, 3);
}
```

Gotcha's -- Internet Explorer

New Autoprefixer!

New Autoprefixer!

```
.grid__container {  
  display: grid;  
  display: -ms-grid;  
  grid-template-columns: repeat(2, 1fr);  
  -ms-grid-columns: 1fr 1fr;  
  grid-template-rows: repeat(3, 50px);  
  -ms-grid-rows: 50px 50px 50px;  
  grid-gap: 10px;  
}
```

```
.grid__item:nth-child(1) {  
  @include grid-child(1, 2, 1, 2);  
}  
  
.grid__item:nth-child(2) {  
  @include grid-child(2, 3, 1, 2);  
}  
  
.grid__item:nth-child(3) {  
  @include grid-child(1, 2, 2, 3);  
}
```


New Autoprefixer!

```
.grid__container {  
  display: grid;  
  display: -ms-grid;  
  grid-gap: 10px;  
  grid-template:  
    "a a a" 40px  
    "b c c" 40px  
    "b c c" 40px / 1fr 1fr 1fr;  
}  
  
.grid__item:nth-child(1) {  
  grid-area: a;  
}
```



New Autoprefixer!

```
.grid__container {  
  display: grid;  
  display: -ms-grid;  
  grid-gap: 10px;  
  -ms-grid-columns: 1fr 10px 1fr 10px 1fr;  
  -ms-grid-rows: 40px 10px 40px 10px 40px;  
  grid-template:  
    "a a a" 40px  
    "b c c" 40px  
    "b c c" 40px / 1fr 1fr 1fr;  
}
```

```
.grid__item:nth-child(1) {  
  grid-area: a;  
  -ms-grid-column: 1;  
  -ms-grid-row: 1;  
}
```

New Autoprefixer!

```
.grid__container {  
  display: grid;  
  display: -ms-grid;  
  grid-gap: 10px;  
  -ms-grid-columns: 1fr 10px 1fr 10px 1fr;  
  -ms-grid-rows: 40px 10px 40px 10px 40px;  
  grid-template:  
    "a a a" 40px  
    "b c c" 40px  
    "b c c" 40px / 1fr 1fr 1fr;  
}
```

```
.grid__item:nth-child(1) {  
  grid-area: a;  
  -ms-grid-column: 1;  
  -ms-grid-column-span: 3;  
  -ms-grid-row: 1;  
}
```

Gotcha's -- Internet Explorer

```
// IE Fallbacks 🙄🗑️🔥  
  
.grid__container {  
  display: flex;  
  flex-flow: row wrap;  
}  
  
.grid__container > * {  
  margin: 10px;  
}
```

```
// Fun Grid Stuff! 😄🎉❤️  
  
@supports ( display: grid ) {  
  .grid__container {  
    display: grid;  
    grid-template-columns:  
      repeat( auto-fill, minmax( 200px, 1fr ) );  
    grid-gap: 20px;  
  }  
  
  .grid__container > * {  
    margin: unset;  
  }  
}
```

CSS Grid is 🌟😄🎉❤️

CSS Grid is 🌟😄🎉❤️

- Grid is a two dimensional layout system.
-

CSS Grid is 🌟🌟🌟🎉❤️

- Grid is a two dimensional layout system.
 - We can control entire page layouts with far less CSS and html markup.
-

CSS Grid is 🌟🎉❤️

- Grid is a two dimensional layout system.
 - We can control entire page layouts with far less CSS and html markup.
 - We can allow content to flow within a given space.
-

CSS Grid is 🌟🎉❤️

- Grid is a two dimensional layout system.
- We can control entire page layouts with far less CSS and html markup.
- We can allow content to flow within a given space.
- CSS Grid is supported by 94.47% of browsers

CSS Grid is 🌟🎉❤️

- Grid is a two dimensional layout system.
 - We can control entire page layouts with far less CSS and html markup.
 - We can allow content to flow within a given space.
 - CSS Grid is supported by 91.89% of browsers
 - Internet Explorer should not be a reason to avoid using grid anymore.
-

CSS Grid is

- Grid is a two dimensional layout system.
 - We can control entire page layouts with far less CSS and html markup.
 - We can allow content to flow within a given space.
 - CSS Grid is supported by 91.89% of browsers
 - Internet Explorer should not be a reason to avoid using grid anymore.
 - Sub Grid will be even more awesome
-

CSS Grid is

- Grid is a two dimensional layout system.
 - We can control entire page layouts with far less CSS and html markup.
 - We can allow content to flow within a given space.
 - CSS Grid is supported by 91.89% of browsers
 - Internet Explorer should not be a reason to avoid using grid anymore.
 - Sub Grid will be even more awesome
-

A man in a black tuxedo, white shirt, black bow tie, and black top hat stands in the center of a stage. He is looking directly at the camera with a slight smile. The background is dark with blue spotlights illuminating him and two other figures in the background. The text "Thanks for listening." is overlaid in large white font.

Thanks for listening.

All of the examples shown can be found in a CodePen collection here:
codepen.io/collection/AvJKoR

WP Hooked 2021 - @kirstyburgoine - kirstyburgoine.co.uk