CSS Grid

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Overview

- First adopted in March of 2017 as a standard by W3C
- Motivation:
  - Previous layout technologies not well suited for responsive and complex web applications
- CSS Grid creates an easy and effective mechanism to divide up a web page into a desired layout that works across browsers

IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
		[4] 52	[1] 49						
		55	60		10.2				
	[2] 15	56	61	10.1	10.3				4
[2] 11	16	57	62	11	11	all	62	11.4	5
	17	58	63	TP					
		59	64						
		60	65						

Compared to Bootstrap (and other frameworks)

Benefits

- Simpler Markup
- More flexible
- Not limited to 12 column layouts

Disadvantages

- Requires CSS

Quick Code Example

CSS


```css
.wrapper {
    display: grid;
    grid-template-columns: repeat(12, 1fr);
    grid-template-rows: 40px 100px 40px;
}


.header {
    grid-column: span 12;
}


.menu {
    grid-column: span 4;
}


.content {
    grid-column: span 8;
}


.footer {
    grid-column: span 12;
}
```
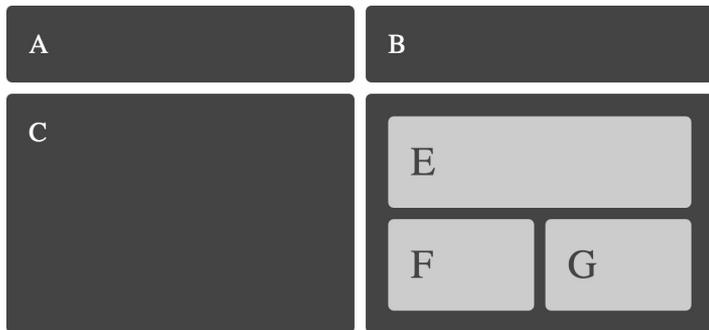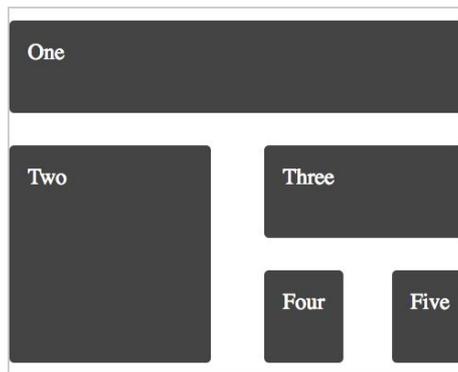
HTML

```html
<div class="wrapper">
    <div class="header">HEADER</div>
    <div class="menu">MENU</div>
    <div class="content">CONTENT</div>
    <div class="footer">FOOTER</div>
</div>
```
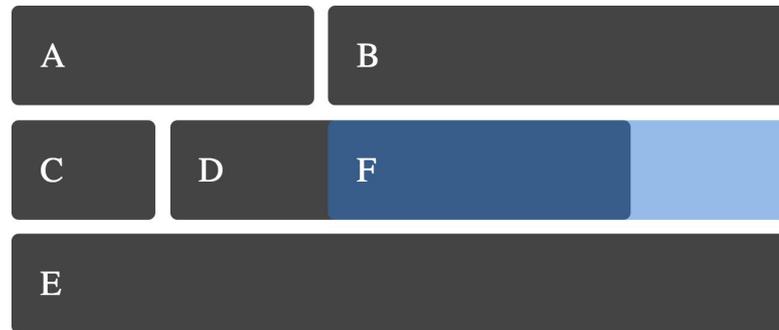
Visual Examples of CSS Grid Layouts

Nested Grids

A	B
C	E
	F G

Layering of Grid Items

A	B
C D F	
E	

One

Two   Three

Four   Five

Adjusting Space
Between Grid Items

Sources & Further Reading

- [Learn CSS Grid in 5 Minutes](#)
- [CSS Grid – W3 Schools](#)
- [Grid by Example](#)