FLEXBOX 15 BOSS

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PHP Dorset Feb 2017
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About this talk

This talk assumes a knowledge of how CSS is written and the basics of how to use it.

If you don't know how to write CSS... don't feel bad, I'm the one who's turned up to a PHP meetup talking about CSS.

I hope this talk inspires you to check out Flexbox and learn more.

What we'll be looking at

What Flexbox fixes about CSS layouts

What supports it

How to use it

Learning more

Real world examples

Dealing with older browsers

What's next for CSS?

block layout for laying out documents

inline layout for laying out text

table layout for laying 2D tabular data

positioned layout for explicit positioning

block layout for laying out documents

inline layout for laying out text

table layout for laying 2D tabular data

positioned layout for explicit positioning

FLOATS



block layout for laying out documents

inline layout for laying out text

table layout for laying 2D tabular data

positioned layout for explicit positioning

FLOATS

block layout for laying out documents

inline layout for laying out text

table layout for laying 2D tabular data

positioned layout for explicit positioning

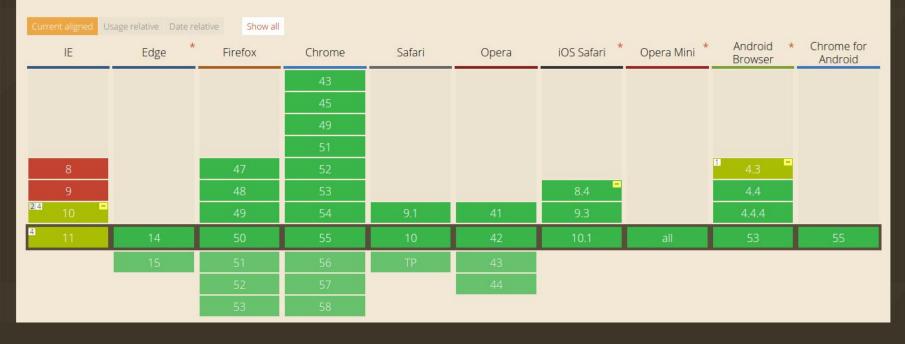
flex layout for distributed layouts

Flexible Box Layout Module B-CR

Method of positioning elements in horizontal or vertical stacks. Support includes the support for the all properties prefixed with flex as well as display: flex, display: inline-flex, align-content, align-items, align-self, justify-content and order.

Global 82.83% + 14.55% = 97.38% unprefixed: 82.05% + 3.66% = 85.71% U.K. 88.96% + 8.24% = 97.2% unprefixed: 87.58% + 6.02% = 93.6%

show more..



Getting started

Set up the flex container

Direction, wrapping, justifying content, centering, etc

Set up the flex children

Sizing, growing, ordering, position

Getting started

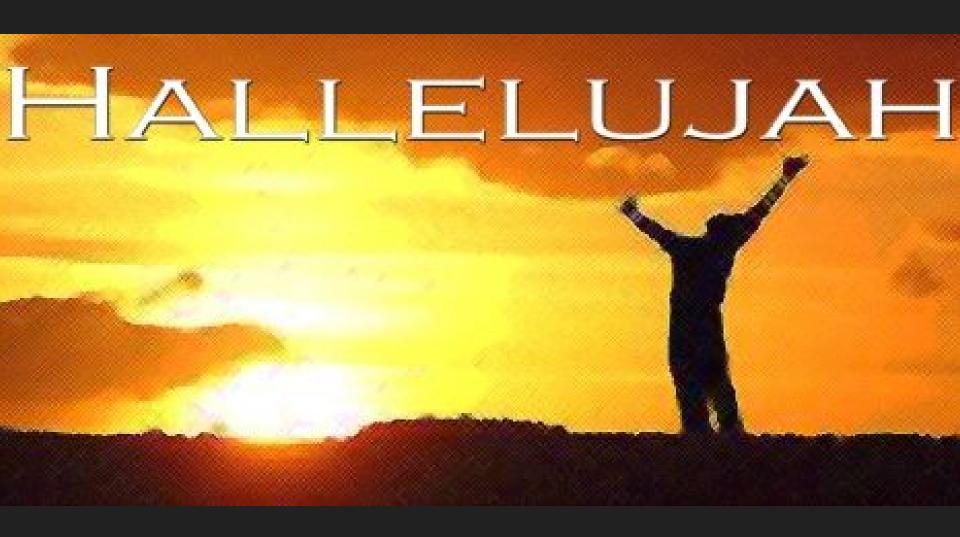
Set up the flex container

Direction, wrapping, justifying content, Centering, etc

Set up the flex children

Sizing, growing, ordering, position

Flexbox allows you to vertically align things





flexbox playground and code generator



the-echoplex.net/flexyboxes

Learning



flexboxfroggy.com

Real world examples

Fings wot Jon has used Flexbox for



My Location

to

Dolphin Shopping Centre

14:08 → 14:44

Depart now

Direct

 $13:51 \rightarrow 14:27$ 36 mins

36 mins

於 11 mins

13:59 → 14:36 **37 mins**Direct ★ 11 mins



My Location

Dolphin Shopping Centre

Depart now

to

Direct

13:51 → 14:27

14:08 → 14:44 Direct

13:59 → 14:36

Direct

★ 11 mins

37 mins * 11 mins

36 mins

36 mins

11 mins

Results

My Location

Dolphin Shopping Centre

Depart now

Direct

Direct

13:51 → **14:27**

14:08 → 14:44

Direct

13:59 → 14:36

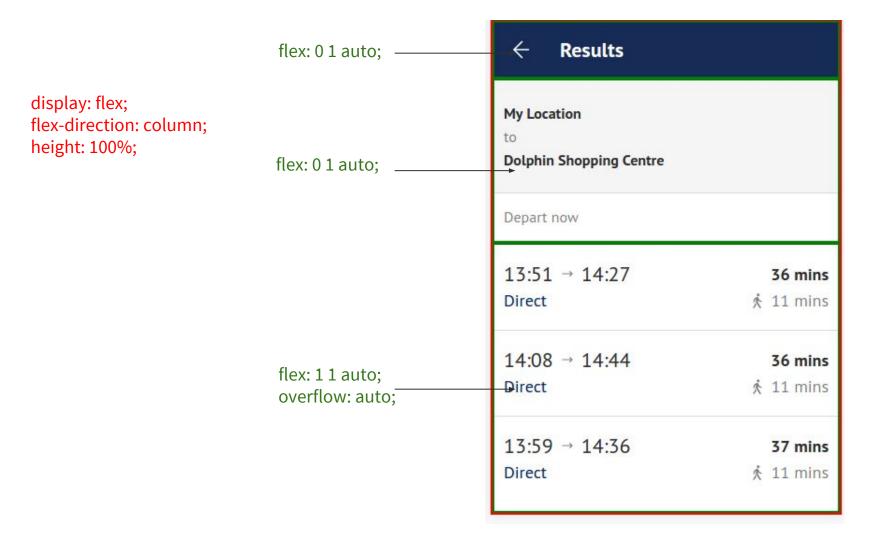
37 mins * 11 mins

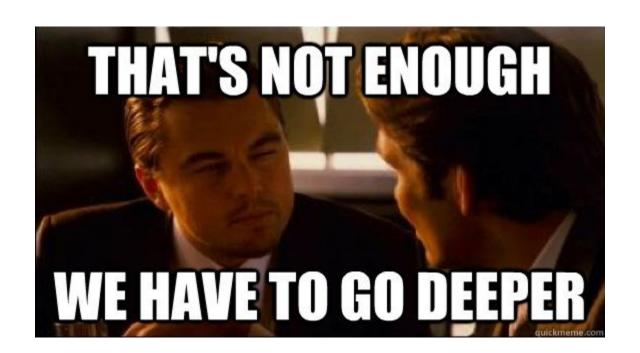
36 mins

36 mins

★ 11 mins

* 11 mins





← Results

My Location

to

Dolphin Shopping Centre

Depart now

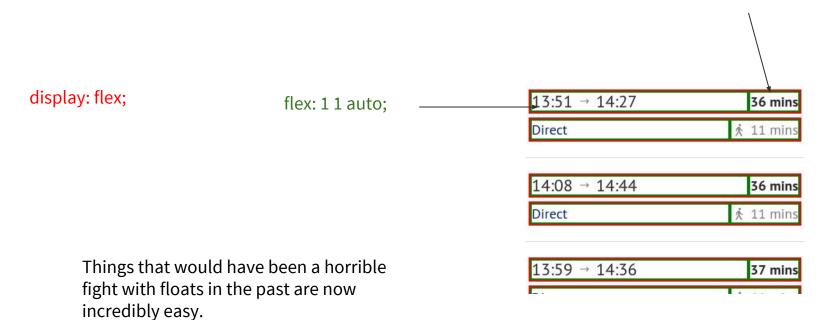
13:51 → 14:27 **36 mins**Direct ★ 11 mins

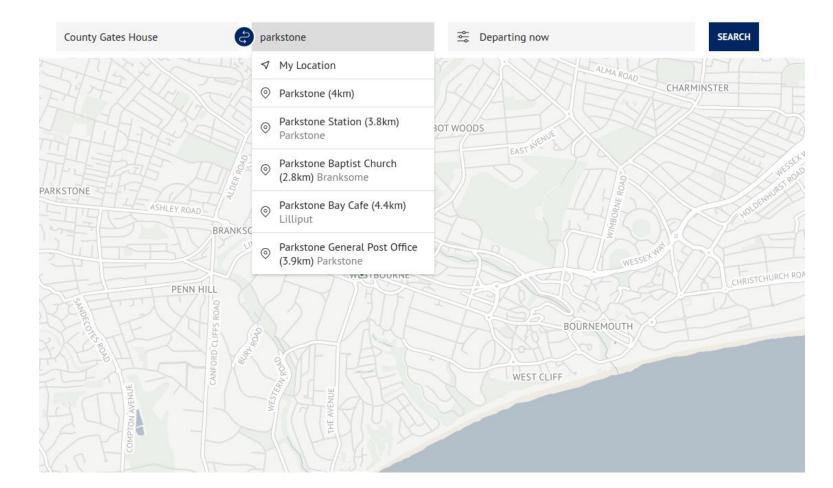
13:59 → 14:36 **37 mins**Direct ★ 11 mins

13:51 → 14:27 **36 mins**Direct ★ 11 mins

 $13:59 \rightarrow 14:36$ 37 mins

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The	George	:31	12:41

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Poole Hospital

Garland Road

Shah of Persia

Poole College Annex

Fourways

Felton Road

Cranbrook Road

St Johns Church

Shah of Persia

The College

Willow Park

Ashley Cross

Uppleby Road

Sea View

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Ashley Cross

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Longfleet Road Garage	:32	12:42	12:49	12:59	13:06	13:16	13:23	13:32	13:40	13:49	13:57	14:06	14:14	1
Poole Hospital	:33	12:43	12:50	13:00	13:07	13:17	13:24	13:33	13:41	13:50	13:58	14:07	14:15	1
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<u>Fourways</u>	:35	-	12:52	-	13:09	-	13:26	-	13:43	-	14:00	-	14:17	
Poole College Annex	:36	-	12:53	ŝ	13:10	ŝ	13:27	8	13:44	8	14:01	8	14:18	
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Uppleby Road	:41	-	12:58	-	13:15	-	13:32	-	13:49	-	14:06	-	14:23	
St Johns Church	:43	-	13:00	-	13:17	-	13:34	-	13:51	-	14:08	-	14:25	
Shah of Persia	-	12:44	-	13:01	12	13:18	-	13:34	12	13:51	-	14:08	-	1
The College		12:46	-	13:03	-	13:20	-	13:36	-	13:53	-	14:10	-	1
Willow Park		12:46	-	13:03	-	13:20	2	13:36	2	13:53	-	14:10	2	1

13:22 -

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Dealing with older browsers

Browser prefixes

```
.flex-container {
   display: flex;
   flex-direction: row;
   flex-wrap: nowrap;
   justify-content: flex-start;
   align-content: stretch;
.flex-item {
   order: 0;
   flex: 0 1 auto;
   align-self: auto;
```

```
.flex-container {
    display: -ms-flexbox;
   display: -webkit-flex;
    display: flex;
    -webkit-flex-direction: row;
    -ms-flex-direction: row;
    flex-direction: row;
    -webkit-flex-wrap: nowrap;
    -ms-flex-wrap: nowrap;
    flex-wrap: nowrap;
    -webkit-justify-content: flex-start;
    -ms-flex-pack: start;
    justify-content: flex-start;
    -webkit-align-content: stretch;
    -ms-flex-line-pack: stretch;
    align-content: stretch;
.flex-item {
    -webkit-order: 0;
    -ms-flex-order: 0;
    order: 0;
    -webkit-flex: 0 1 auto;
    -ms-flex: 0 1 auto;
```

Browser prefixes

- 1) Write it all yourself
- 2) Use an autoprefixer
- 3) CSS Preprocessors can generate it

IE10

Text does not always wrap correctly

```
Some extra long content (for the container) that correctly wraps!

Content

Some extra long content (for the container) that incorrectly wraps!

Content
```

(max-width: 100% will help)

http://jsfiddle.net/pvJRK/2/

IE9 and under

No Flexbox support at all.

Things will stack on top of each other.

In the blog this week

USSD's Mark Twain Moment

With mobile playing an increasingly important role in how the world consumer converses and transacts, dominated by tail of converged omni-channel communications loosely defined...

Bridging the digital divide

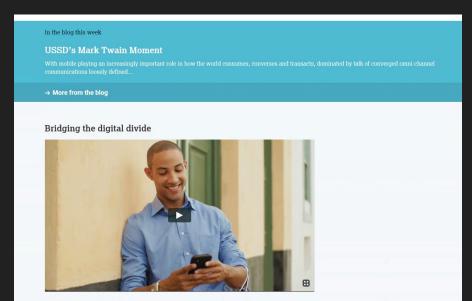


→ More from the blog

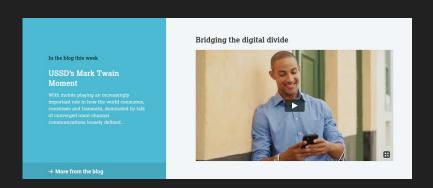
IE9 and under

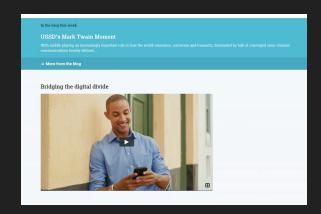
No Flexbox support at all.

Things will stack on top of each other.



IE9 and under





Fine for certain Flexbox uses, if you're prepared for a different layout on IE8/9.

Fine if you don't support those browsers.

Not so fine if you build the entirety of a site using Flexbox without testing it.

Progressively enhance with @supports

```
.something {
    // Stuff here
@supports (display: -webkit-flex) or
          (display: -moz-flex) or
          (display: flex) {
    .something {
        // Progressively enhance
        display: flex;
```

CSS.supports() API ■ - CR

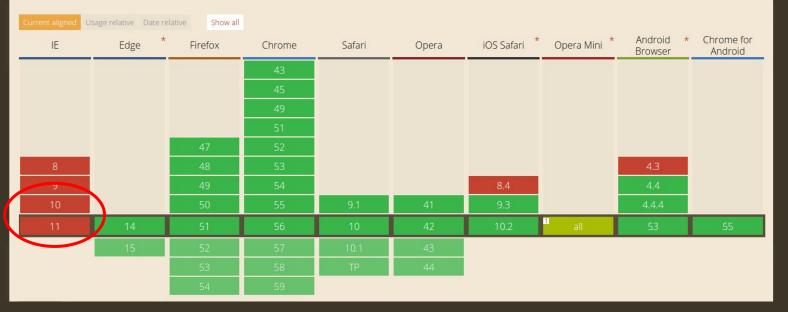
The CSS.supports() static methods returns a Boolean value indicating if the browser supports a given CSS feature, or not.

 Global
 77.28°

 Nottingham City Transport
 58.33°

 U.K.
 86.12°

77.28% + 4.47% = 81.74% 58.33% + 0.24% = 58.57% 86.12% + 0.8% = 86.92%



Not ideal for page layouts...

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This is my orticle

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Flexbox

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Grid

Not ideal for page layouts...

But really there's nothing stopping you

block layout for laying out documents

inline layout for laying out text

table layout for laying 2D tabular data

positioned layout for explicit positioning

flex layout for distributed layouts

grid layout for dividing pages into rows and columns

THANK YOU!

Questions?

Further Reading:

How Flexbox Works
Solved by Flexbox
A Complete Guide to Flexbox

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