

Advanced Layout with Flexbox



Shawn Wildermuth

MICROSOFT MVP, SPEAKER AND INSTRUCTOR

@shawnwildermuth <http://wilder minds.com>



Overview



Advanced Layout with Flexbox

- Enabling Flexbox
- Using Flexbox rows and columns
- Justification and alignment
- Grow, shrink and fill
- Wrapping columns
- Ordering





What is Flexbox?

- Flexbox Layout is relatively new
- Best for small, dynamic layouts
- Grid System is good for large scale
- Dynamic sizing based on content
- Specified at the container level



Flexbox

Flexbox

`.d-flex`

`display: flex;`

`.d-inline-flex`

`display: inline-flex;`

Flexbox

Flexbox

.d-flex

.d-flex

.d-sm-flex

.d-md-flex

.d-lg-flex

.d-xl-flex

.d-inline-flex

.d-inline-flex

.d-sm-inline-flex

.d-md-inline-flex

.d-lg-inline-flex

.d-xl-inline-flex

Flexbox Ordering

.d-row (default)

.d-column

.d-row-reverse

.d-column-reverse

(responsive too)

Demo



Enabling Flexbox



Justification

Justification

.justify-content-{mechanism):

start *beginning of the container*

end *end of container*

center *center in container*

between *distribute end to end*

around *distribute centering items*

Demo



Using Justification



Alignment

Alignment

.align-{method}:

start *beginning of the container*

end *end of container*

center *center of container*

baseline *across baseline of content*

stretch *fill space with content*

Demo



Aligning Items



Growing, Shrinking and Filling

Sizing

`.flex-fill:`

Make items same size

`.flex-grow-{enable}`

Grow to fill space

`.flex-shrink-{enable}`

Shrink available space

Demo



Growing, Shrinking and Filling



Wrapping

Wrapping Items

.flex-nowrap

(default)

.flex-wrap

Allow overflow

Demo



Wrapping Items



Ordering

Order

`.order-{ordinal}`

Override element order

`.order-1`

`.order-2`

`.order-3`

`.order-4`

`.order-5`

`etc.`

Demo



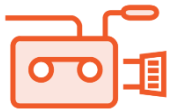
Using Ordering



What We've Learned



Flexbox is a powerful tool for building responsive components



Flexbox isn't a replacement for the Grid system



Flexbox can be powerful if you can determine when and where to use

