FLEXBOX: COMING TO A
BROWSER NEAR YOU

### WHAT IS FLEXBOX?

"Provides a more efficient way to lay out, align and distribute space among items in a container, even when their size is unknown and/or dynamic (thus the word "flex")."

Chris Coyer

css-tricks.com/snippets/css/a-guide-to-flexbox/

#### WHY IS IT AWESOME?

- Excels at vertical centering and equal heights
- Flex property changes the container's width/height to fill available space
  - Expand to fill empty space
  - Shrink to prevent overflow

```
4
     Machine,
 5
 6
     Pls make website,
 8
     all responsive like,
     w/ BIG pictures ooo,
     use my fav fonts,
10
     also fancy menus with whooosh on,
11
     load fast pls
12
13
14
     Thanks,
15
     Human
16
17
     PS no bugs :)
18
19
```

#### ANY DRAWBACKS?

Layouts are driven by content and how it loads.

#### **Humanity's victories:**

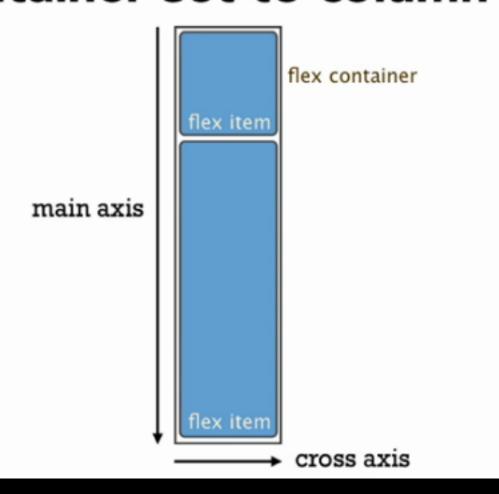


land probe perfectly on a comet 310 million miles away, using science

get stuff on a web page to align properly using CSS

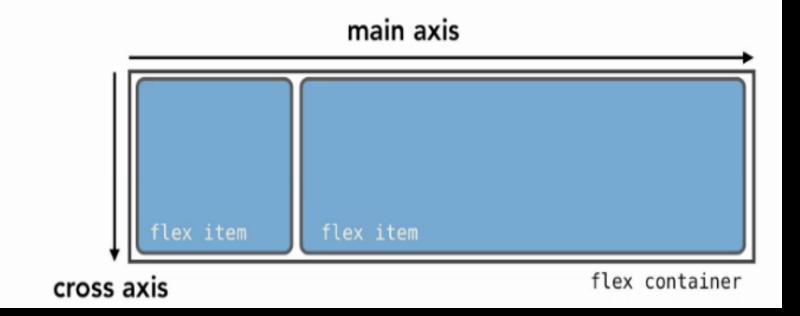
# TERMINOLOGY

# Flex container set to column





# Flex container set to row



http://www.lynda.com/CSS-tutorials/CSS-Flexbox-First-Look/116352-2.html

# PREFIXING

(FOR FUN AND FOR PROFIT)

### THREE VERSIONS OF FLEXBOX

- 2009: display: box;
- 2011: display: flexbox; ("tweener" syntax)
- 2016: display: flex;

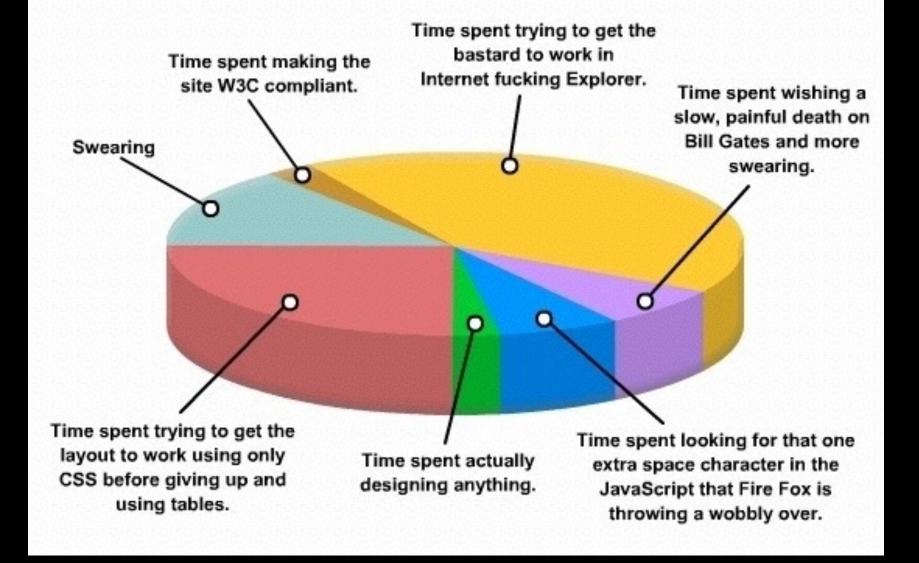
### EXAMPLE

```
ul {
   list-style-type: none;
   padding: 0;
   margin: 0;
   border: 1px dotted red;
   display: -webkit-flex; /* targets Chrome, Safari */
   display: -ms-flexbox; /* targets IE10 */
   display: flex;
```

## CURRENT SUPPORT

- Internet Explorer
  - <= IE 9: not supported</p>
  - IE 10 supports "tweener" syntax (ms prefix)
  - IE 11, Edge: Full support
- Safari 7.1/8, iOS Safari 7/8 require webkit prefix
- Others support current syntax
- http://caniuse.com/#feat=flexbox

### TIME BREAKDOWN OF MODERN WEB DESIGN



## LEARN MORE

- Flexbox in 5
- Chris Coyer's Complete
   Guide to Flexbox
- Smashing Magazine:
   Harnessing Flexbox for
   Today's Web Apps
- Solved by Flexbox
- Flexy Boxes playground and code generator
- Getting started with Flexbox grid systems



Flexbox Froggy

# CODE DEMO

### RELEVANT PROPERTIES

#### Parent (Flex Container)

display: flex | inline-flex;

flex-direction: row | row-reverse | column | column-reverse;

flex-wrap: wrap | nowrap | wrap-reverse;

flex-flow (shorthand for flex-direction and flex-wrap)

justify-content: flex-start | flex-end | center | space-between | space-around;

align-items: flex-start | flex-end | center | baseline | stretch;

#### Children (Flex Items)

order: <integer>;

flex-grow: <number>;

flex-shrink: <number>;

flex-basis: <length> | auto;

flex: shorthand for grow, shrink, and basis (default 0, 1, auto)

align-self: overrides alignment set on parent

## QUESTIONS?

Jen Kramer

Arlington, MA

Phone: 802-257-2657

jen@jenkramer.org

www.jenkramer.org

Slides available at

www.slideshare.net/jen4web

Free 10-day pass to Safari:

www.safaribooksonline.com/register/

Twitter: @jen4web

Facebook: facebook.com/webdesignjen