

# Flexing Your Front End Skills

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# Layout Is Not Easy

- Grid systems
- Vertical centering
- Sticky Footer
- Equal Height Multi-column



<http://stackoverflow.com/questions/4515251/holy-grail-layout-with-100-height>

# Browser Support

## Flexible Box Layout Module - CR

Global  $76.45\% + 17.65\% = 94.1\%$   
unprefixed:  $74.8\% + 5.83\% = 80.62\%$

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**.

Current aligned		Usage relative		Show all							
IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android		
								4.3			
8			47					4.4			
9		44	48	9		8.4		4.4.4			
11	13	45	49	9.1	36	9.2	8	47	49		
	14	46	50	TP	37	9.3					
		47	51		38						
		48	52								
Notes		Known issues (10)		Resources (12)		Feedback					

Most partial support refers to supporting an **older version** of the specification or an **older syntax**.

<sup>1</sup> Only supports the **old flexbox** specification and does not support wrapping.

<sup>2</sup> Only supports the **2012 syntax**

<sup>3</sup> Does not support flex-wrap or flex-flow properties

<sup>4</sup> Partial support is due to large amount of bugs present (see known issues)

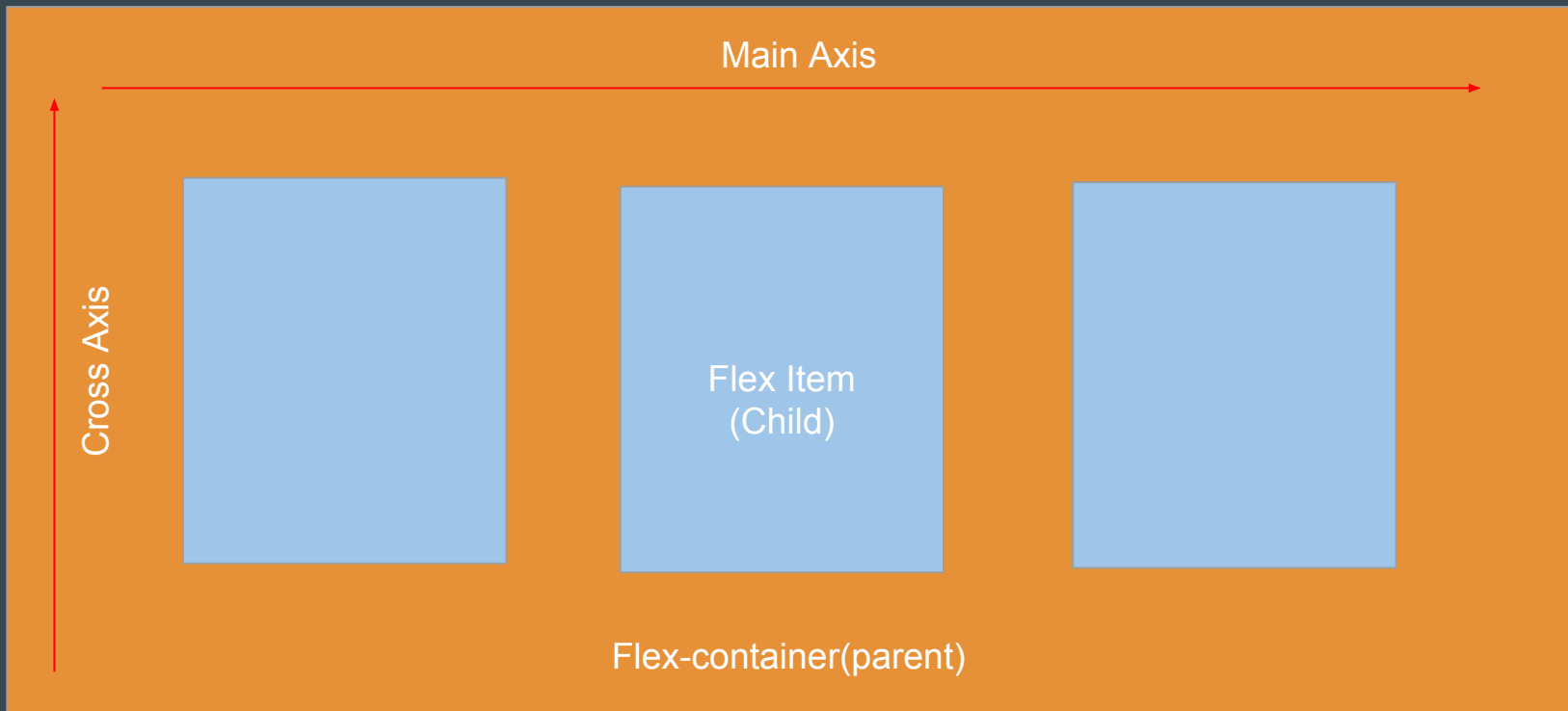
# Flexible Box Module Layout

- CSS was released 19 years ago!
- Flexbox specs released in 2009.
- Arrange elements in a container based on direction.
- CSS Grid Layout is arriving.



<http://www.slideshare.net/stephenhay/generateconf2013>

# Terminology



# Properties On The Flex Container

- Initiate some flexing loving!

```
.flex-container {  
  display: flex;  
}
```

# flex-direction and flex-wrap

- flex-direction, flex-wrap become one property called **flex-flow**

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

```
flex-wrap: nowrap | wrap | wrap-reverse
```

```
flex-flow: <'flex-direction'> <'flex-wrap'>
```

# justify-content and align-items

- These two properties govern alignment of children elements on the main and cross axis.

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

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



# align-content

- This one is a bit tricky. Aligns the flex-container's LINES within the cross axis.

```
align-content: flex-start | flex-end | center | space-between | space-around | stretch
```

# Properties On The Flex Item

- Adjust properties of a specific item.

```
order: <integer>
```

```
align-self: auto | flex-start | flex-end | center | baseline | stretch
```

# Problems Flexbox Solves

- Adjust properties of a specific item.

```
order: <integer>
```

```
align-self: auto | flex-start | flex-end | center | baseline | stretch
```

# Happy Flexing

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- Questions? Comments?

