

Making Friends with Flexbox

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#drupalgovcon

Hackpad:

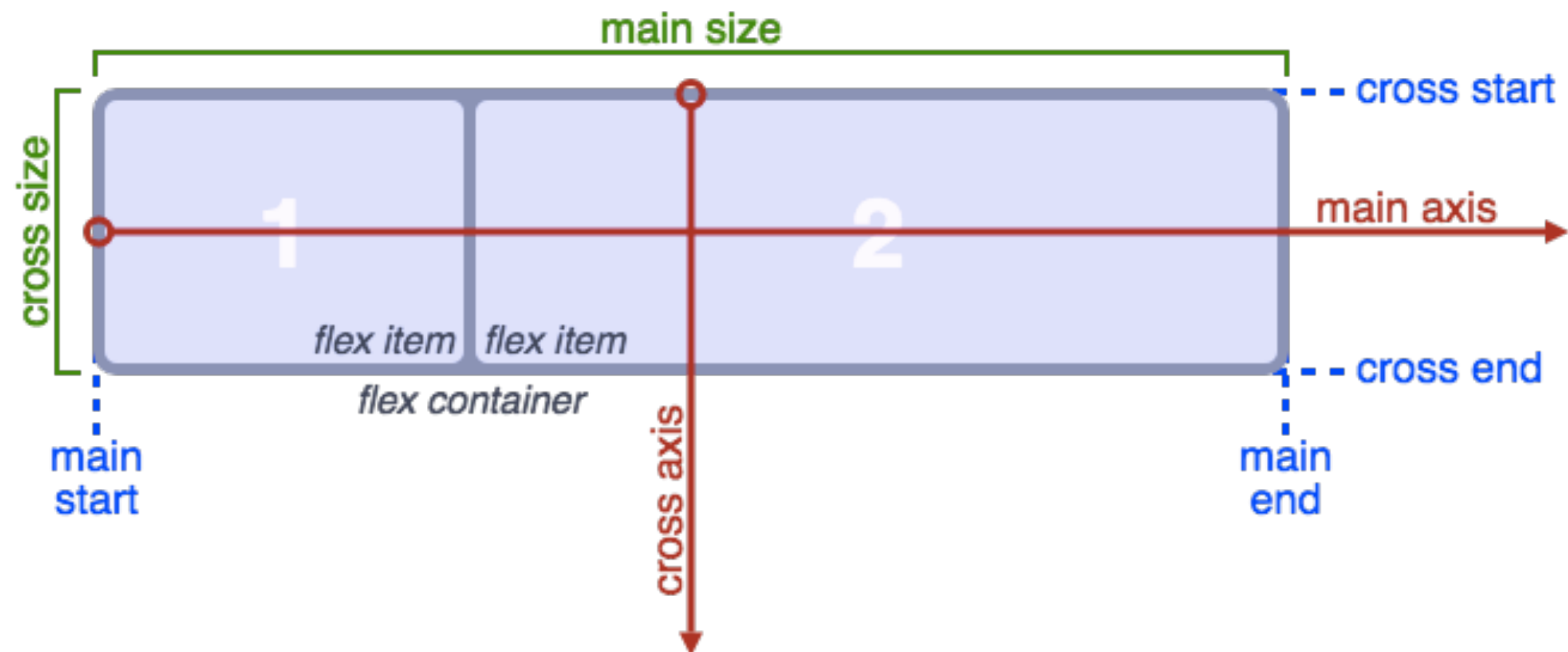
drupalgovcon2016.hackpad.com

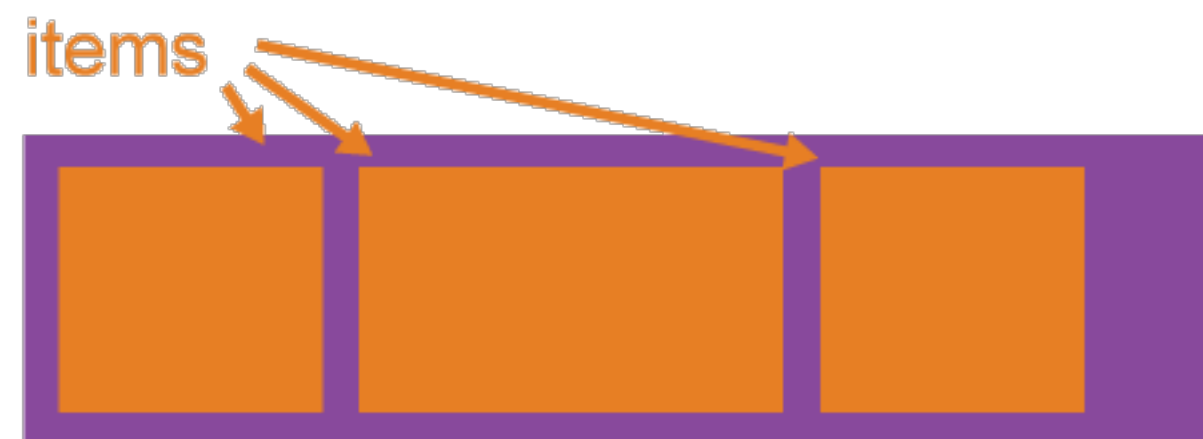
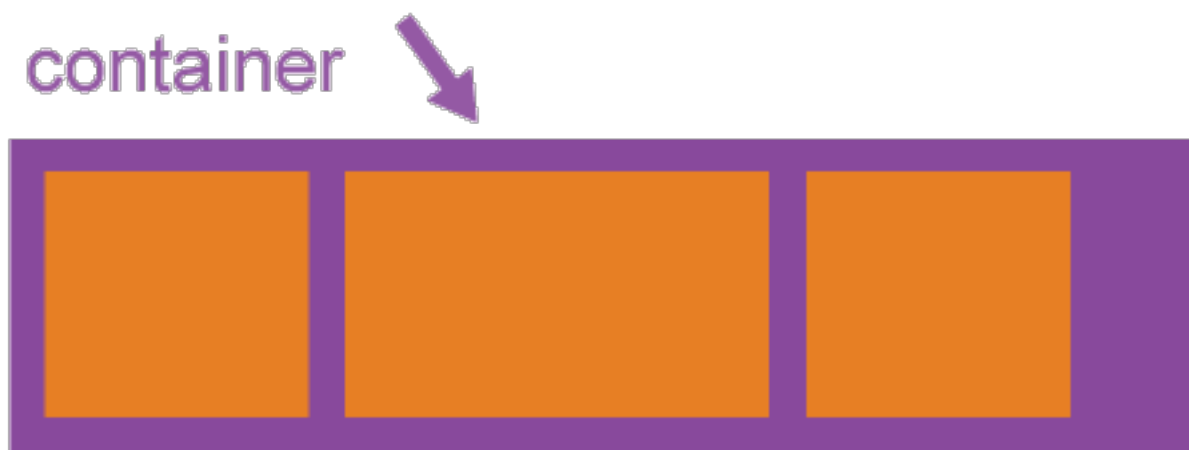
Starting with
the basics

What is flexbox?

Why you should care

What flexbox is not





Properties for the container

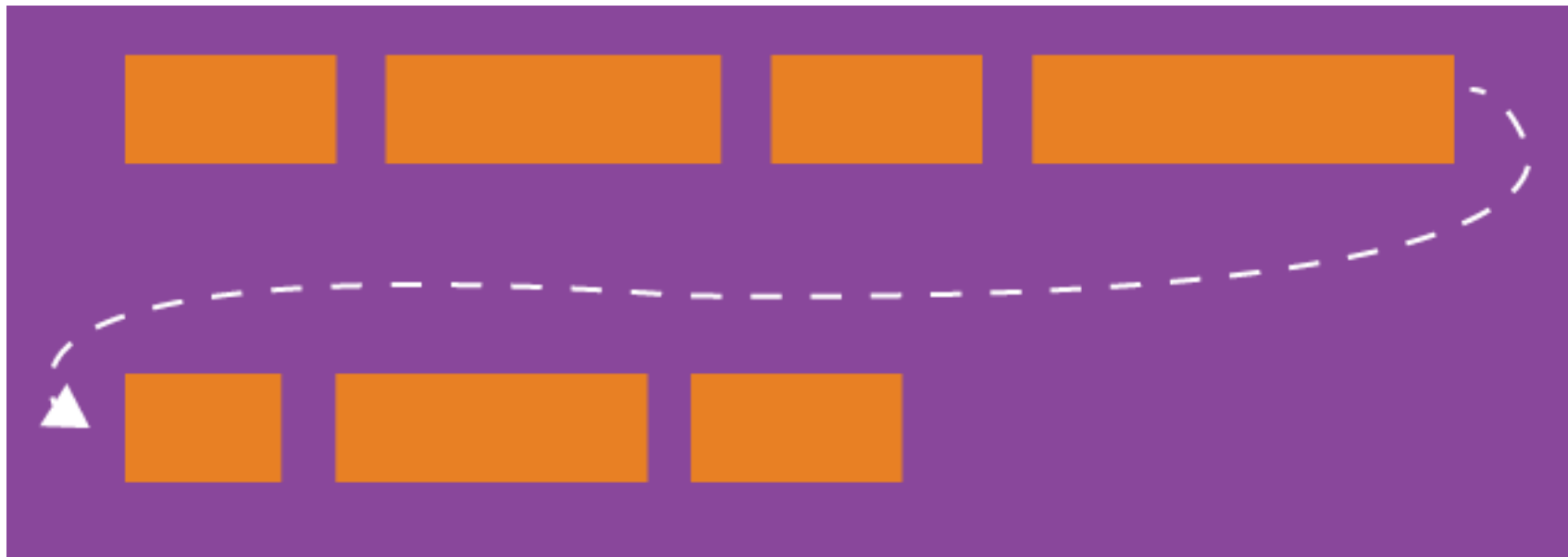
```
.container {  
    display: flex;  
}
```

flex-direction



```
.container {  
  flex-direction: row | row-reverse  
                column | column-reverse;  
}
```

flex-wrap



```
.container {  
  flex-wrap: wrap | nowrap | wrap-  
reverse;  
}
```

Getting started

1. Create your flex container with `display: flex;`
2. Set `flex-direction` to determine the layout of your items
3. Set `flex-wrap` to control if and how the items will wrap



HTML

```
1 <ul class="navigation">
2   <li><a href="#">Home</a></li>
3   <li><a href="#">About</a></li>
4   <li><a href="#">Products</a></li>
5   <li><a href="#">Contact</a></li>
6 </ul>
7
```

CSS

```
1 .navigation {
2   list-style: none;
3   margin: 0;
4   background: deepskyblue;
5   display: flex;
6   flex-direction: row;
7   flex-wrap: wrap;
8 }
9
10 .navigation a {
11   text-decoration: none;
12   display: block;
13   padding: 1em;
14   color: white;
15 }
```

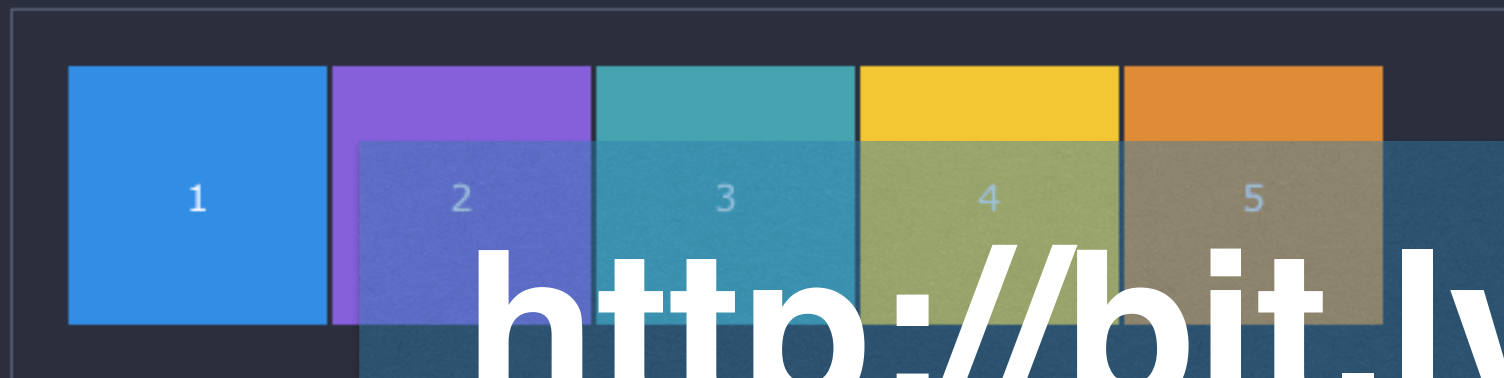
[Home](#) [About](#) [Products](#) [Contact](#)



Properties for the flex container

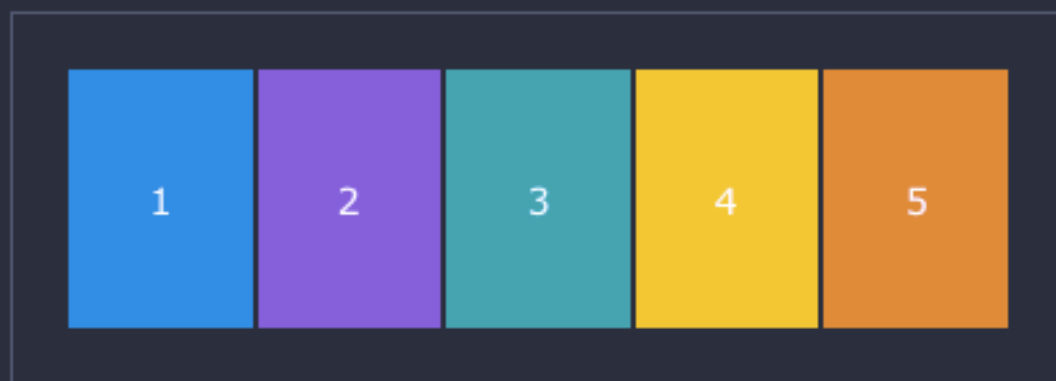
FLEX-DIRECTION (property of the flex container)

☒ row: ☐ row-reverse: ☐ column: ☐ column-reverse:



FLEX-WRAP (property of the flex container)

☒ nowrap: ☐ wrap: ☐ wrap-reverse:



ALIGN-ITEMS (property of the flex container)

☐ flex-start: ☐ flex-end: ☐ center: ☐ baseline: ☒ stretch:



Properties for the flex items

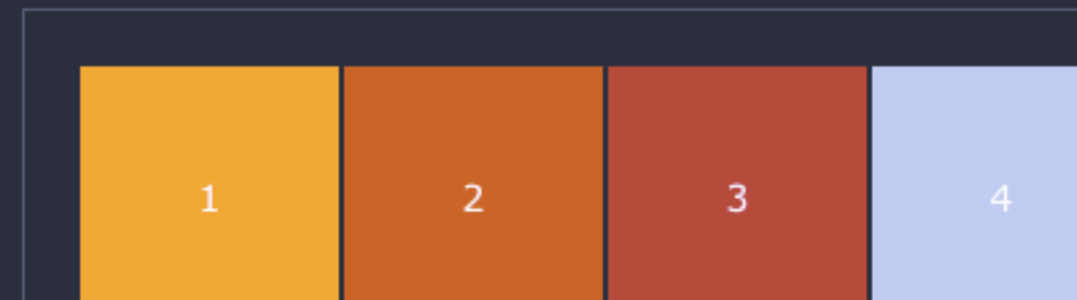
ALIGN-SELF (property for flex items)

☒ auto: ☐ flex-start: ☐ flex-end: ☐ center: ☐ baseline:



FLEX-GROW (property for flex items)

elemento 1: elemento 2: elemento 3:
elemento 5:



<http://bit.ly/flexfun>



HTML

```
1 <ul class="navigation">
2   <li><a href="#">Home</a></li>
3   <li><a href="#">About</a></li>
4   <li><a href="#">Products</a></li>
5   <li><a href="#">Contact</a></li>
6 </ul>
7
```

CSS

```
1 .navigation {
2   list-style: none;
3   margin: 0;
4   background: deepskyblue;
5   display: flex;
6   flex-direction: row;
7   flex-wrap: wrap;
8 }
9
10 .navigation a {
11   text-decoration: none;
12   display: block;
13   padding: 1em;
14   color: white;
15 }
```

[Home](#) [About](#) [Products](#) [Contact](#)

justify-content

```
.container {  
  justify-content: flex-start | flex-end |  
center | space-between | space-around;  
}
```

justify-content

flex-start



flex-end



center



space-between



space-around





Ex. 2

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Save

Fork

Settings

Change View

HTML

```
1 <ul class="navigation">
2   <li><a href="#">Home</a></li>
3   <li><a href="#">About</a></li>
4   <li><a href="#">Products</a></li>
5   <li><a href="#">Contact</a></li>
6 </ul>
7
```

CSS

```
1 .navigation {
2   list-style: none;
3   margin: 0;
4   background: deepskyblue;
5   display: flex;
6   flex-direction: row;
7   flex-wrap: wrap;
8   justify-content: space-around;
9 }
10
11 .navigation a {
12   text-decoration: none;
13   display: block;
14   padding: 1em;
15   color: white;
```

Home

About

Products

Contact

Collections



Console

Assets

Comments

Delete

Keyboard

Last saved less than a minute ago

Share

Export

align-items

```
.container {  
  align-items: flex-start | flex-end  
  | center | stretch | baseline;  
}
```

flex-start



flex-end



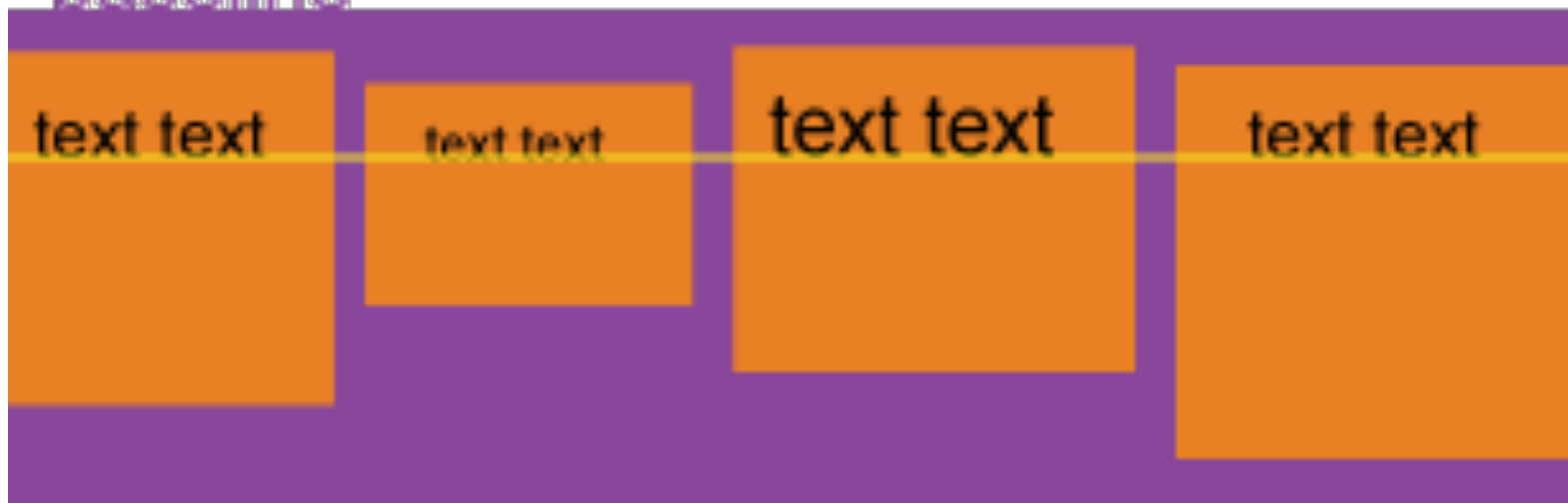
center



stretch



baseline



**Ex. 3**

A PEN BY Sara Cope

Save

Fork

Setting

HTML

```
1 <ul class="navigation">
2   <li><a href="#">Home</a></li>
3   <li><a href="#">About</a></li>
4   <li><a href="#">Products</a></li>
5   <li><a href="#">Contact</a></li>
6 </ul>
7
```

CSS

```
1 .navigation {
2   list-style: none;
3   margin: 0;
4   background: deepskyblue;
5   display: flex;
6   flex-direction: row;
7   flex-wrap: wrap;
8   justify-content: space-around;
9   min-height: 100px;
10  align-items: center;
11 }
12
13 .navigation a {
14   text-decoration: none;
15   display: block;
```

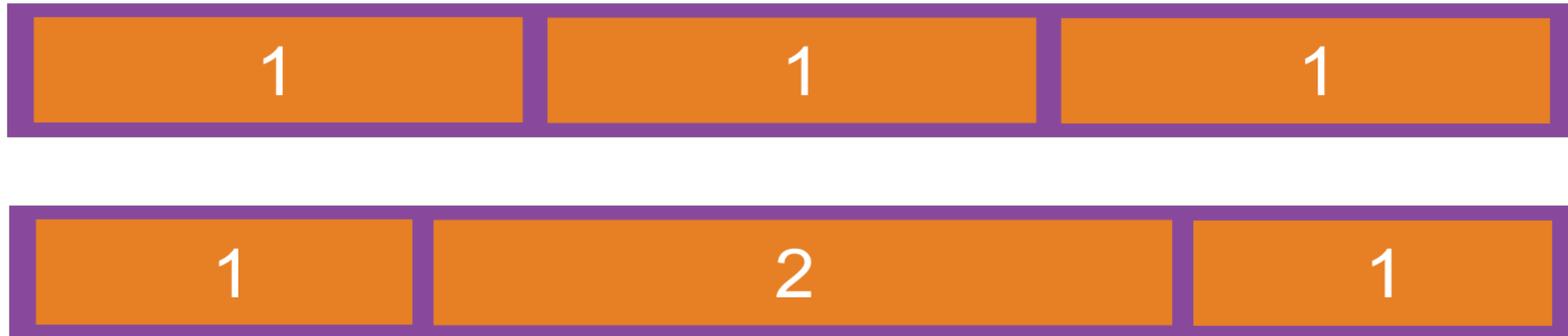
Home

About

Products

Properties for the children

flex-grow



```
.item {  
  flex-grow: <number>;  
}
```




HTML

```
1 <ul class="flex-container">
2   <li class="flex-item">1</li>
3   <li class="flex-item">2</li>
4   <li class="flex-item">3</li>
5   <li class="flex-item">4</li>
6 </ul>
```

CSS

```
21
22 .flex-item:nth-of-type(1) { flex-grow: 1; }
23 .flex-item:nth-of-type(2) { flex-grow: 1; }
24 .flex-item:nth-of-type(3) { flex-grow: 2; }
25 .flex-item:nth-of-type(4) { flex-grow: 1; }
26 .flex-item:nth-of-type(5) { flex-grow: 1; }
27
28 .flex-item {
29
30   background: tomato;
31   border: 3px solid rgba(0,0,0,.2);
32   line-height: 100px;
33   color: white;
34   font-weight: bold;
35   font-size: 2em;
```

1

2

3

4

order

```
.item {  
    order: <number>;  
}
```

order





HTML

```
1 <ul class="flex-container">
2   <li class="flex-item">1</li>
3   <li class="flex-item">2</li>
4   <li class="flex-item">3</li>
5   <li class="flex-item">4</li>
6   <li class="flex-item">5</li>
7 </ul>
```

CSS

```
11 ,
12
13 .flex-item:nth-of-type(1) { order: 3; }
14 .flex-item:nth-of-type(2) { order: 4; }
15 .flex-item:nth-of-type(3) { order: 1; }
16 .flex-item:nth-of-type(4) { order: 5; }
17 .flex-item:nth-of-type(5) { order: 2; }
18
19 .flex-item {
20   background: tomato;
21   padding: 5px;
22   width: 100px;
23   height: 100px;
24   margin: 5px;
25
26   line-height: 100px;
27   color: white;
```

3

5

1

2

4

align-self

flex-start



flex-end

```
.item {
```

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

Flexbox Tips

1. Embrace the flex and try to forget how you used to do it
2. If you're not sure, start with little components. Use Chrome Inspector
3. Works best on page components not an entire layout

More Examples

Responsive pagination

Simple Media Object

Media card (tutorial)

Vendor Prefixing

Autoprefixer

Sass Mixins

Browser Support

Broken up by "version" of flexbox:

- (new) means the recent syntax from the specification (e.g. `display: flex;`)
- (tweener) means an odd unofficial syntax from 2011 (e.g. `display: flexbox;`)
- (old) means the old syntax from 2009 (e.g. `display: box;`)

Chrome	Safari	Firefox	Opera	IE	Android	iOS
20- (old) 21+ (new)	3.1+ (old) 6.1+ (new)	2-21 (old) 22+ (new)	12.1+ (new)	10 (tweener) 11+ (new)	2.1+ (old) 4.4+ (new)	3.2+ (old) 7.1+ (new)

Blackberry browser 10+ supports the new syntax.

Browser Support

Broken up by "version" of flexbox:

- (new) means the recent syntax from the specification (e.g. `display: flex;`)
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Blackberry browser 10+ supports the new syntax.

IE 10+

Resources

- [What the Flexbox vid tutorial](#)
- [CSS-Tricks Flexbox Guide](#)
- [Solved by Flexbox \(tutorial\)](#)
- [Flexbox Cheatsheet](#)

Links to Examples

- [Ex. 1](#)
- [CodePen - Animated Flexbox Playground](#)
- [Ex. 2](#)
- [Ex. 3](#)
- [Flex-grow: demo](#)
- [Order: demo](#)
- [Responsive Flexbox Pagination](#)
- [Flexbox Media Object](#)
- [How to Build a News Website Layout with Flexbox](#)