

Wait a minute...

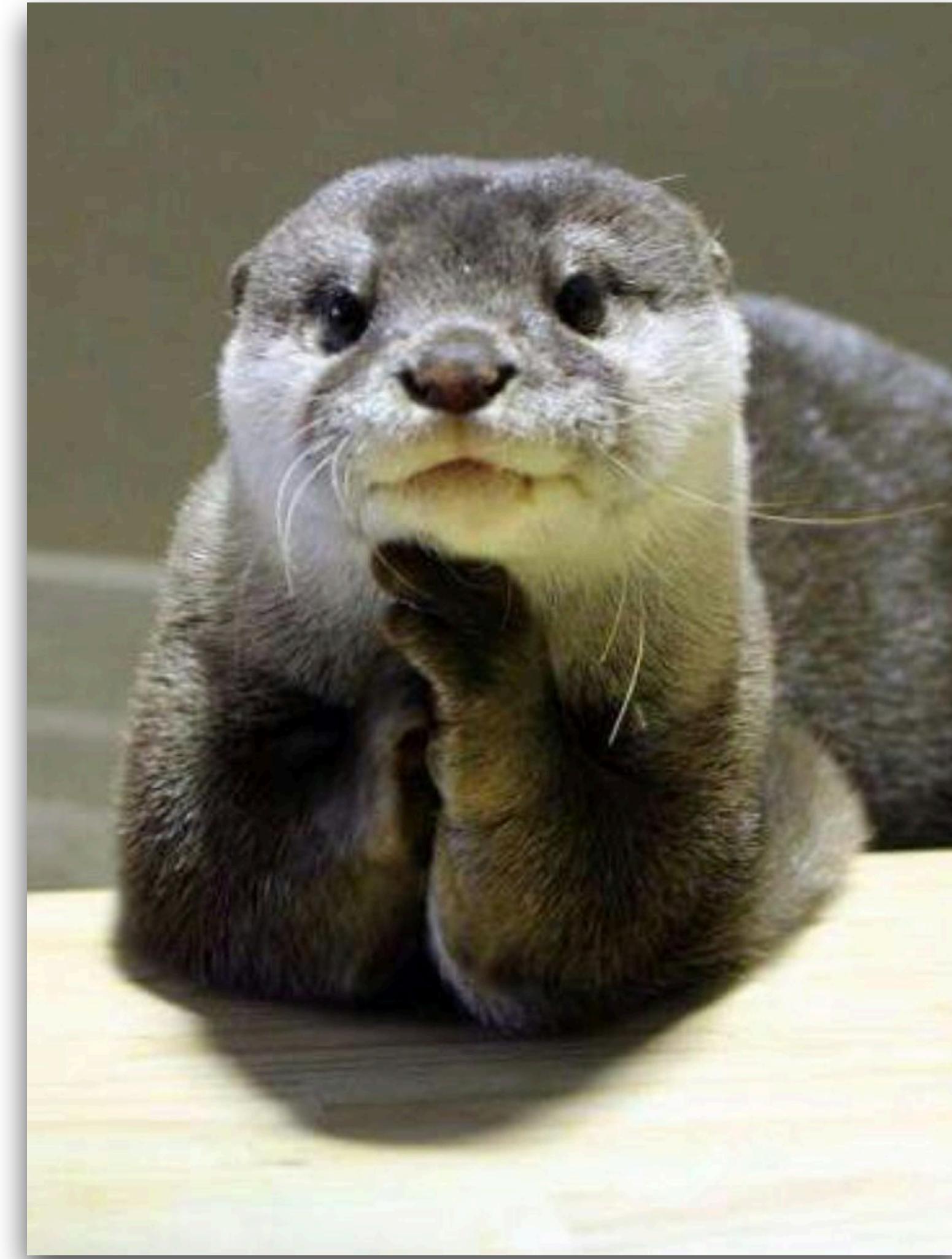
# Flexbox

## An Otter Way to Layout Items with CSS\*

\*There will be no more puns

# What is Flexbox?

- Layout module for CSS
-  control over position of elements
- No clears required!



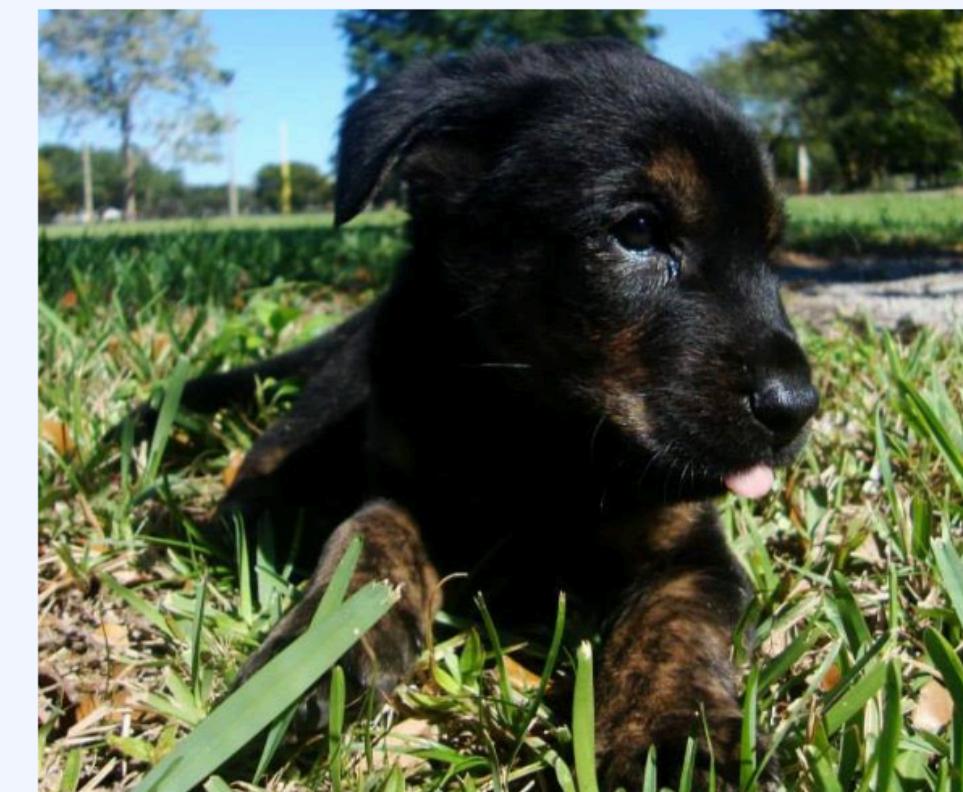
# Main Concept

- Parent element = Flex Container
- Child elements = Flex Items
- Manipulate parent container and items to customize layout

Flex  
Container



Flex  
Container



Flex  
Item

Wait a minute...

# HTML

```
<div class="flexContainer">
  
  
  
  
  <div class="flexItem">
    
    <p>Wait a minute...</p>
  </div>
  
</div>
```

# CSS

```
4
5  .flexContainer {
6    display: flex;
7    flex-wrap: wrap;
8    justify-content: space-around;
9    align-items: flex-start;
10   background-color: #aliceblue;
11   margin: 50px;
12 }
13
14 .flexItem {
15   max-width: 300px;
16   padding: 30px;
17   /* margin: auto; */
18 }
19
```

[https://glitch.com/edit/#!/  
poised-conifer](https://glitch.com/edit/#!/poised-conifer)



# Flex Container Properties

(The Parent Element)

# display: flex

- Apply to container
- Sets everything up with preset defaults, can CSS to change

```
#search-results-div {  
    display: flex;  
    flex-wrap: wrap;  
}
```

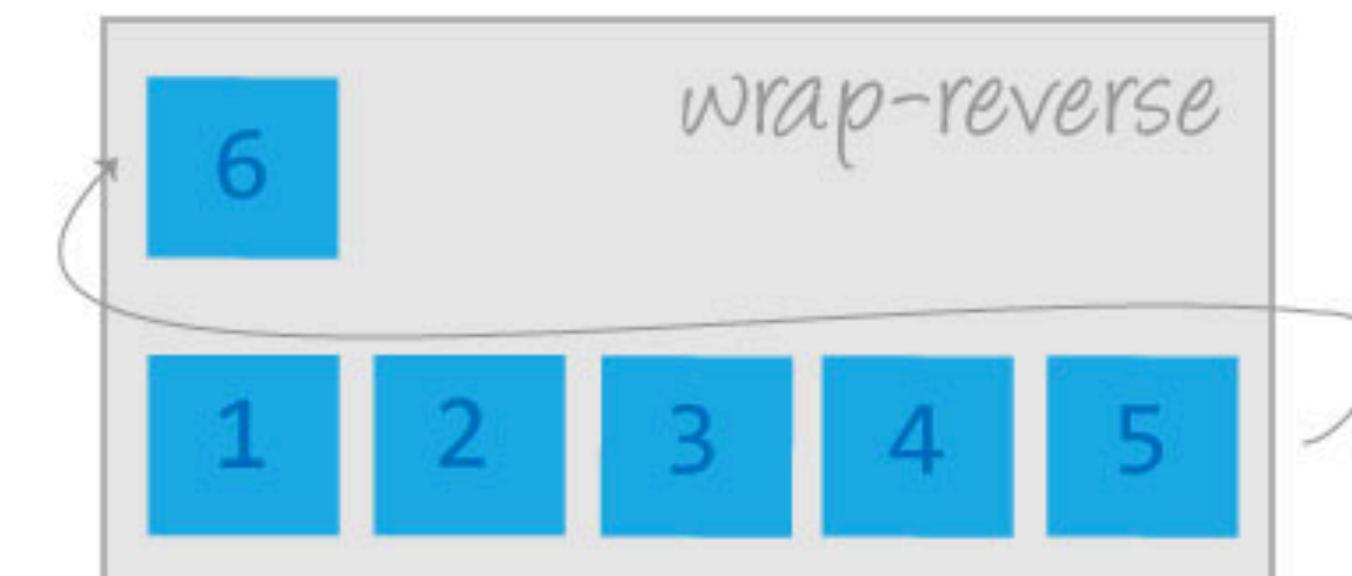
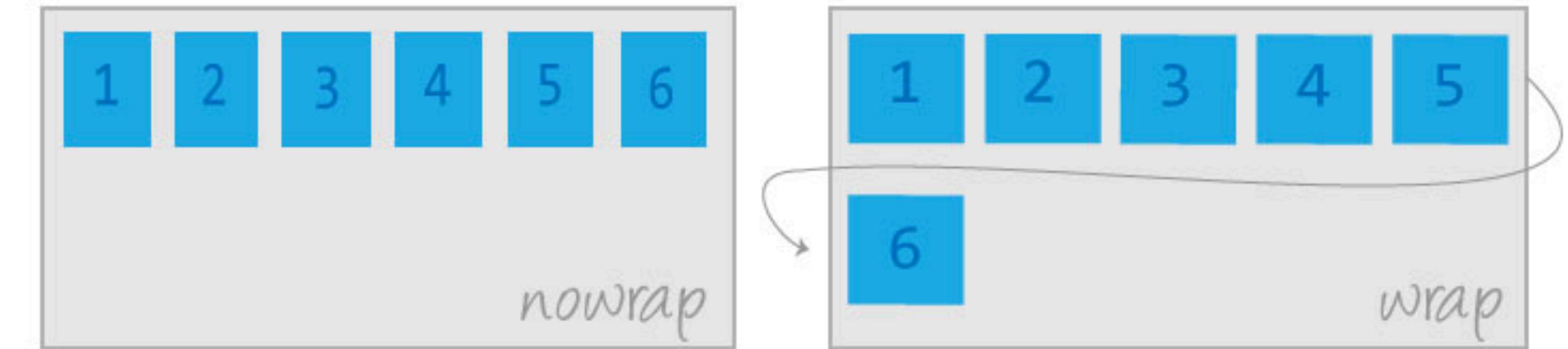
# flex-direction:

- **row (default)**
- **column**
- **row-reverse**
- **column-reverse**



# flex-wrap:

- nowrap (default)
- wrap
- wrap-reverse



FlexWrap

# justify-content:

Aligns items on main axis

- **flex-start**

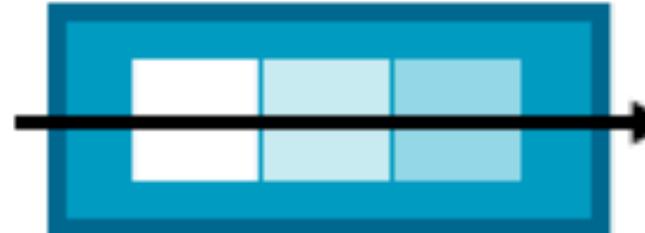
justify-content: flex-start



Home Services About Contact

- **center**

justify-content: center



Home Services About Contact

- **flex-end**

justify-content: flex-end



Home Services About Contact

- **space-between**

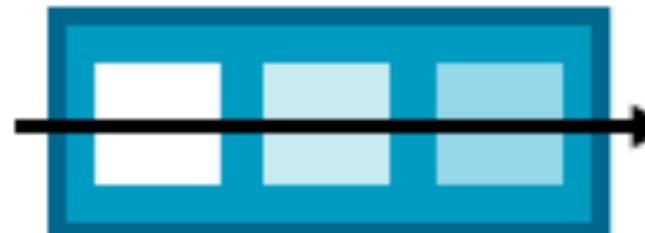
justify-content: space-between



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- **space-around**

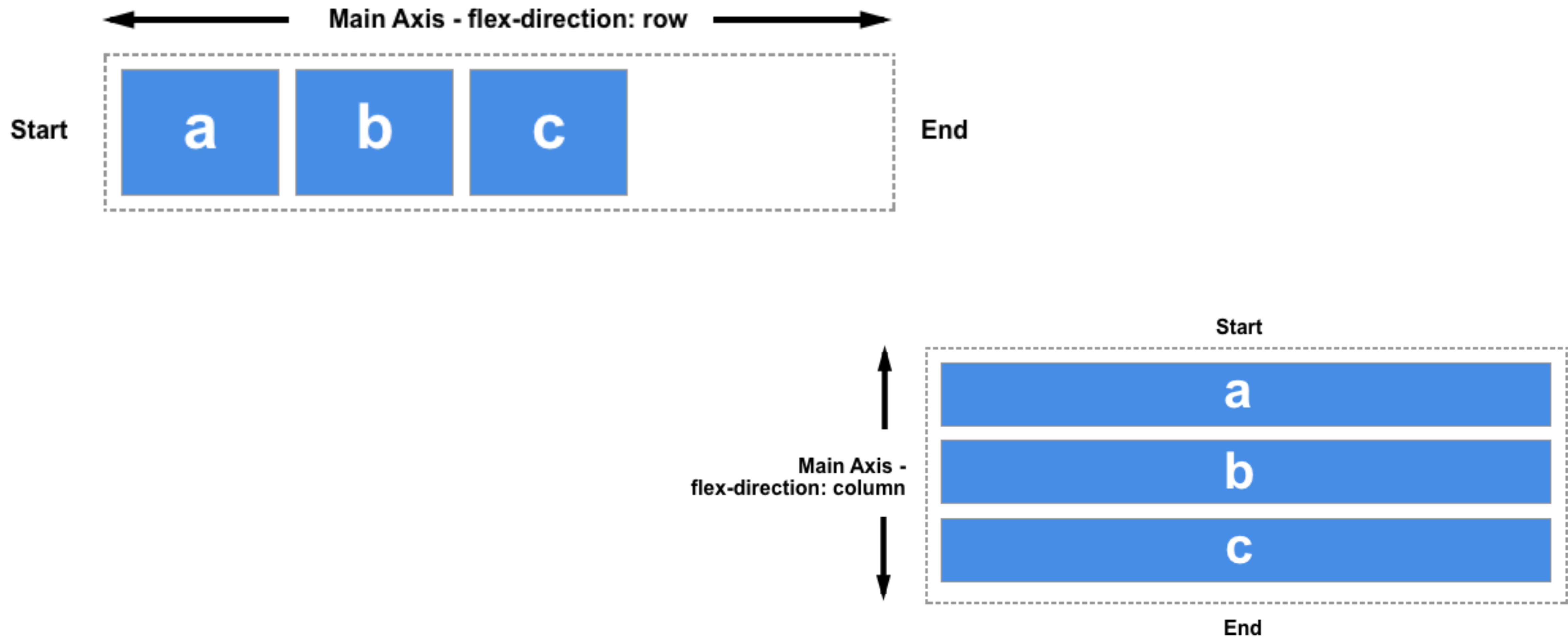
justify-content: space-around



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- **space-evenly**

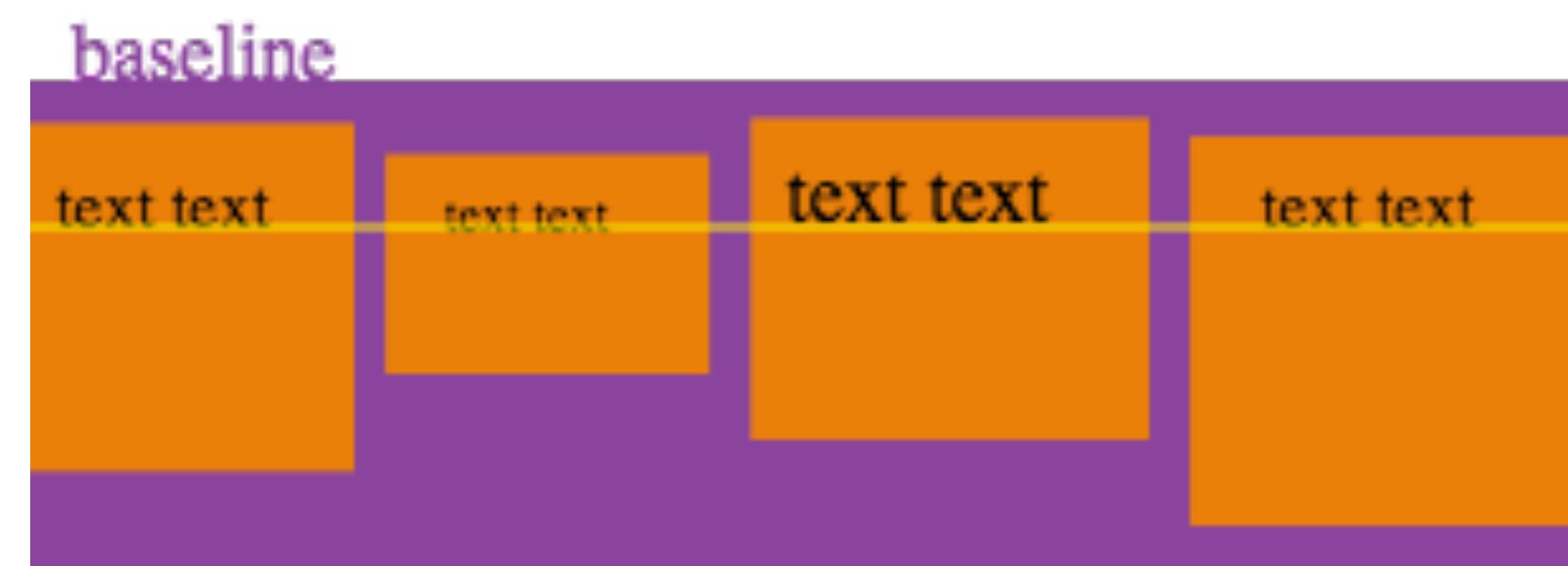
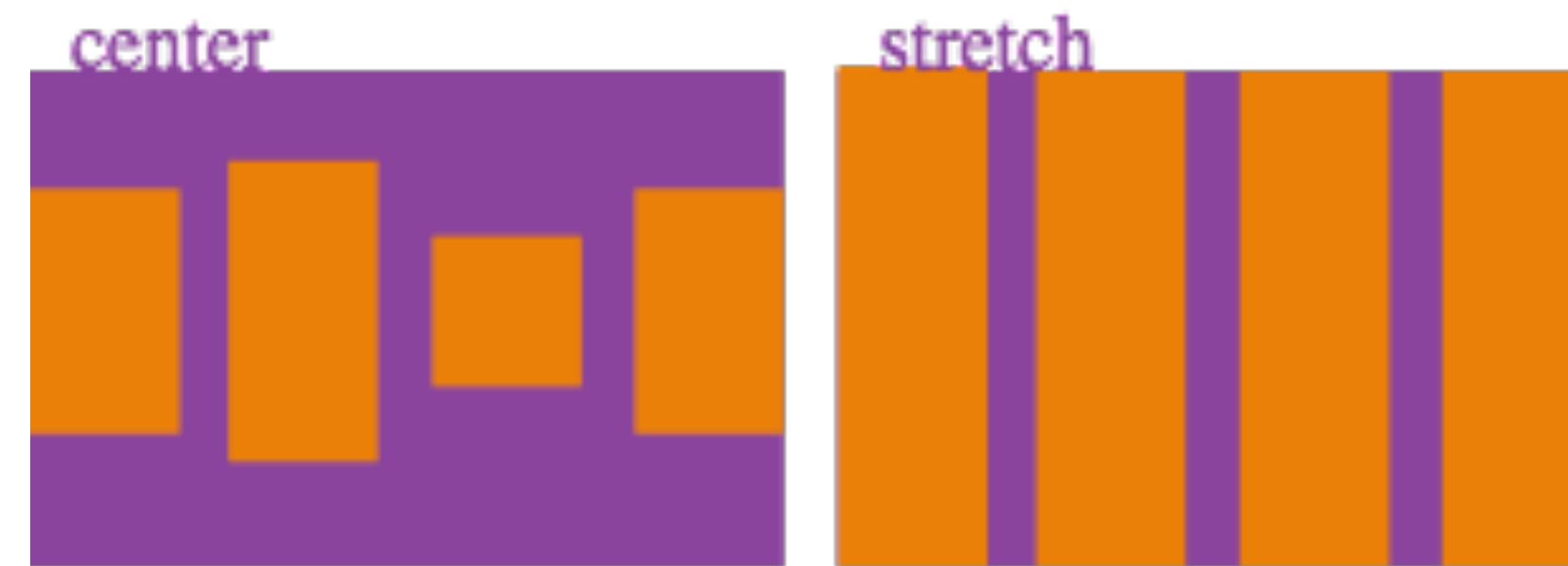
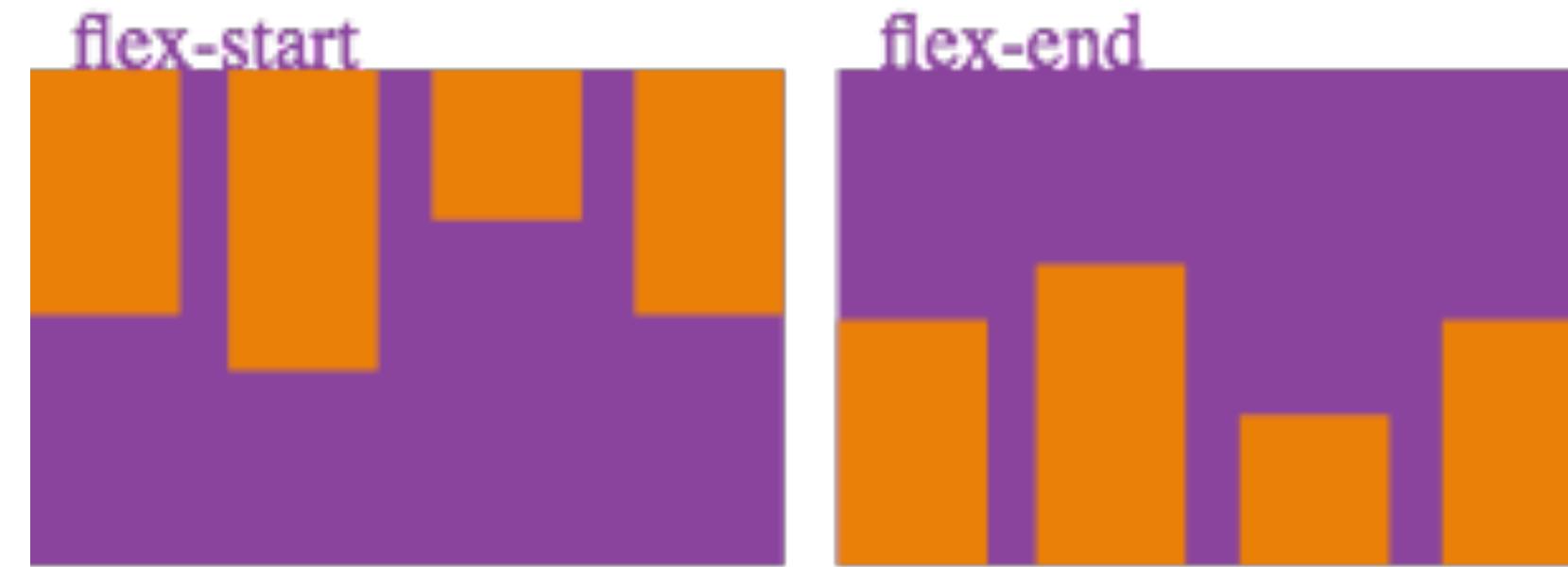
# Main Axis



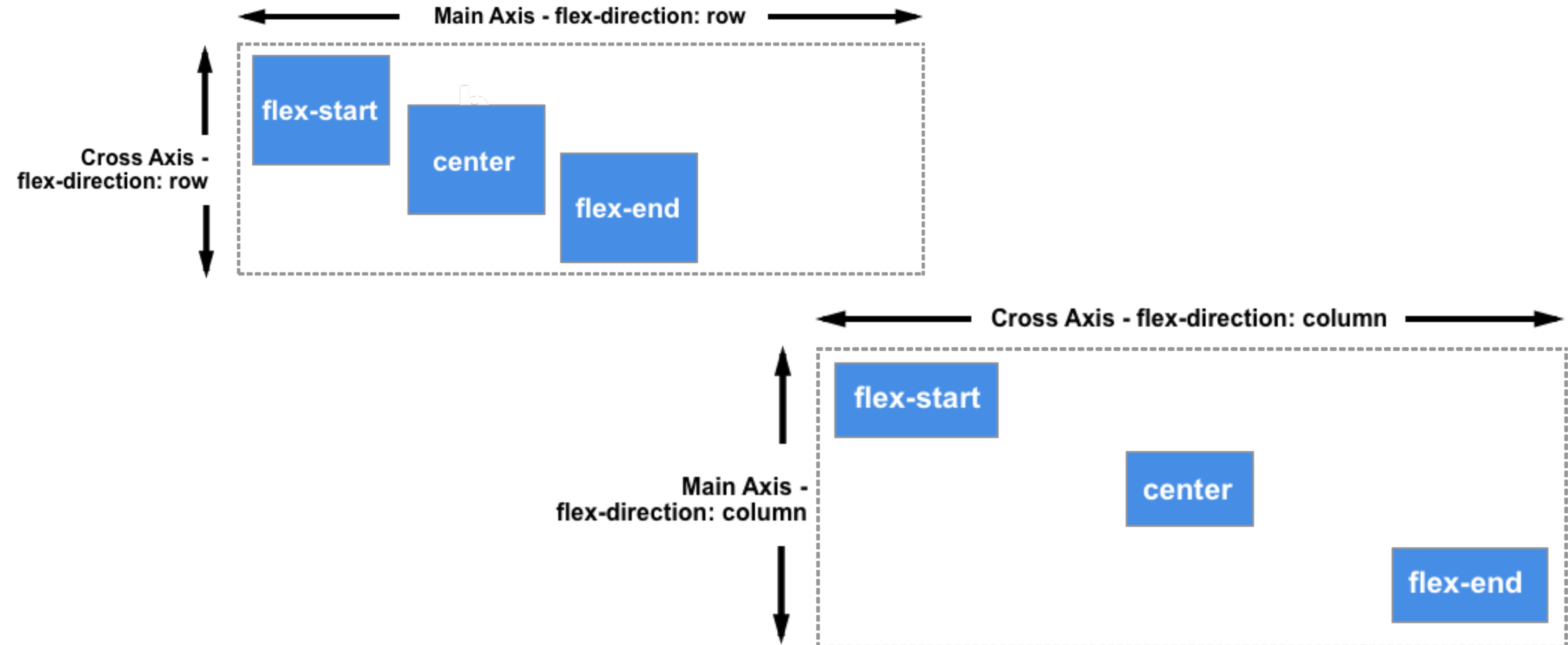
# align-items:

Aligns items on cross axis

- flex-start
- flex-end
- center
- baseline
- stretch



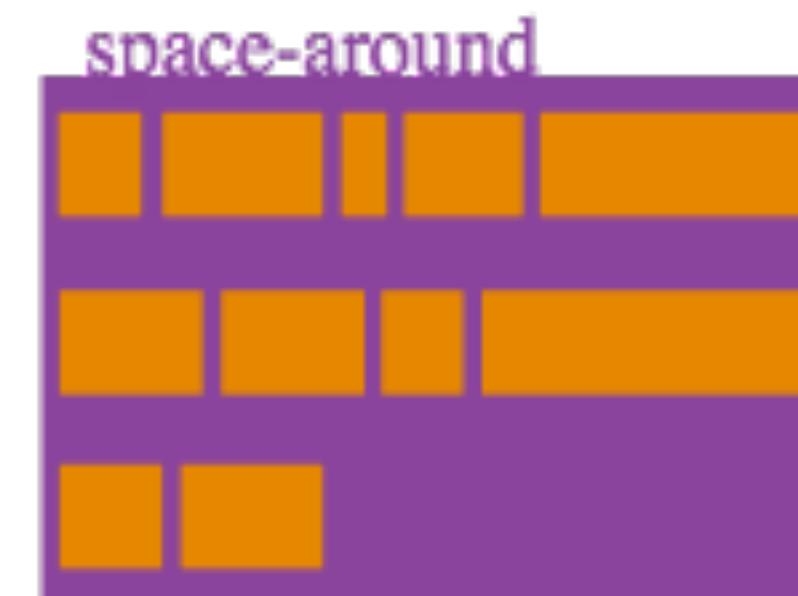
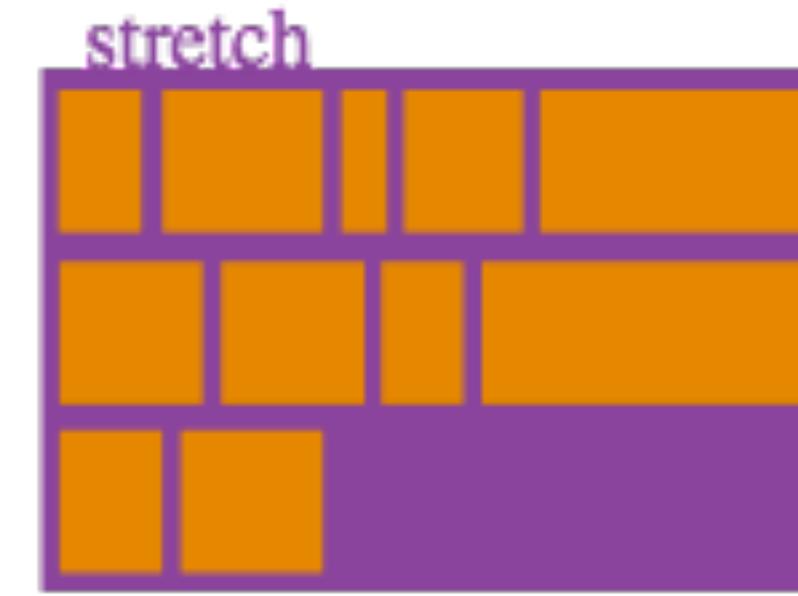
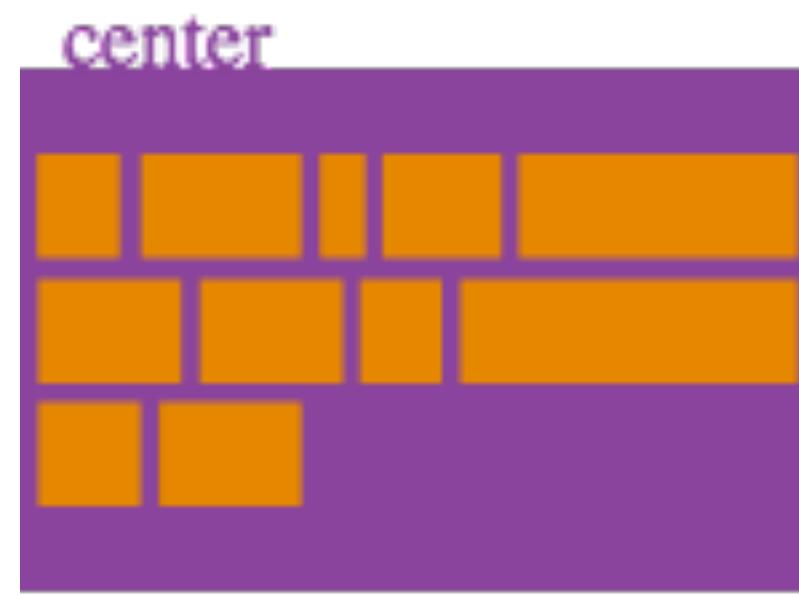
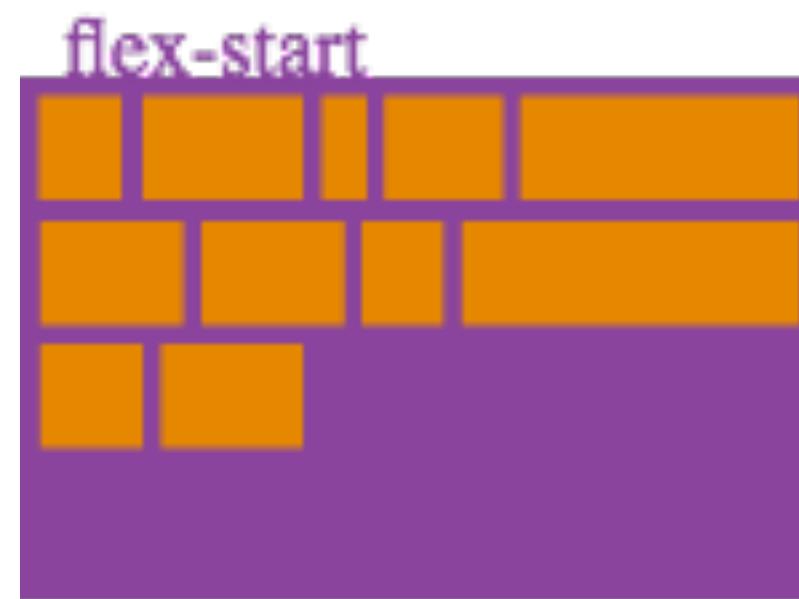
# Cross Axis



# align-content:

**Aligns flex lines if extra space on cross-axis**

- **flex-start**
- **flex-end**
- **center**
- **stretch**
- **space-between**
- **space-around**





# Flex Item Properties

## (The Child Elements)

# What's a Flex Item and What's Not?

- All DIRECT children are flex items
- Children of children are NOT

```
<div class="flexContainer">
  
  
  
  
  <div class="flexItem">
    
    <p>Wait a minute...</p>
  </div>
  
</div>
```

# order:

- Any integer (including -)
- Default = 0
- Reorders appearance from start
- Handy for media queries

(default)



order: 1



order: 3



Order

# flex-grow:

- Lets items take up more space
- Positive number
- Size is relative to other item's flex-grow values

(default)



flex-grow: 1 (all)



flex-grow: 2 (on second item)



Flex-Grow

# flex-shrink:

- Lets item(s) shrink to fit container
- Positive number
- Bigger number = more shrink

The width of content is 500px; the flex-basis of the flex items is 120px.

A, B, C have flex-shrink:1 set. D and E have flex-shrink:2 set

The width of D and E is less than the others.



# flex-basis:

- Sets default size of item
- Size before rest of space is distributed
- Percent, px, em/rem, auto



**flex-basis: 0**

0 SETS FLEX ITEMS TAKE UP EXACTLY THE SPACE ALLOTED BY FLEX-GROW REGARDLESS OF THE CONTENT INSIDE



**flex-basis: auto (default)**

AUTO SETS FLEX ITEMS TO FIRST CONSIDER CONTENT, AND THEN DISTRIBUTE SPACE AROUND THE CONTENT IN PROPORTION



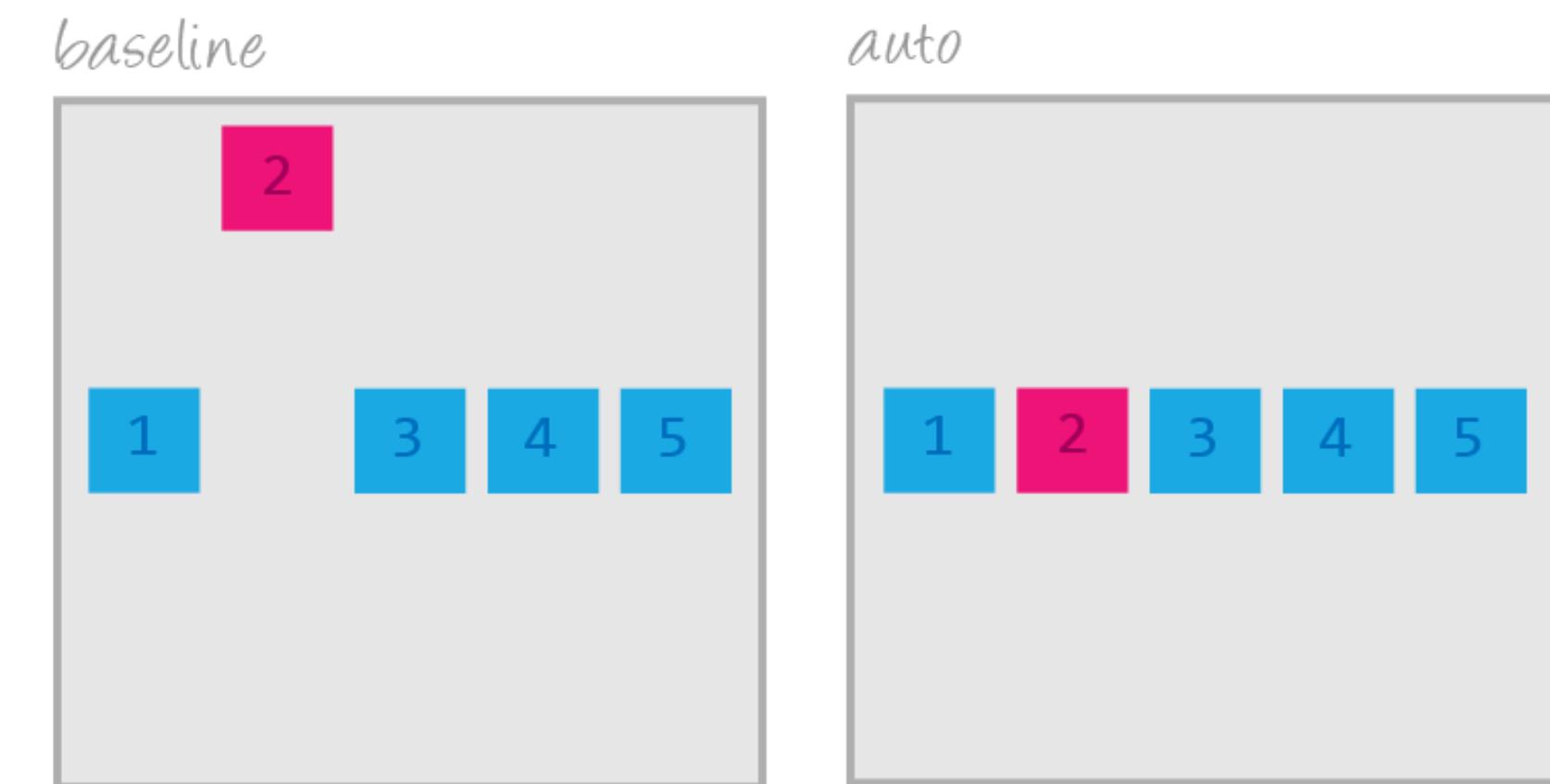
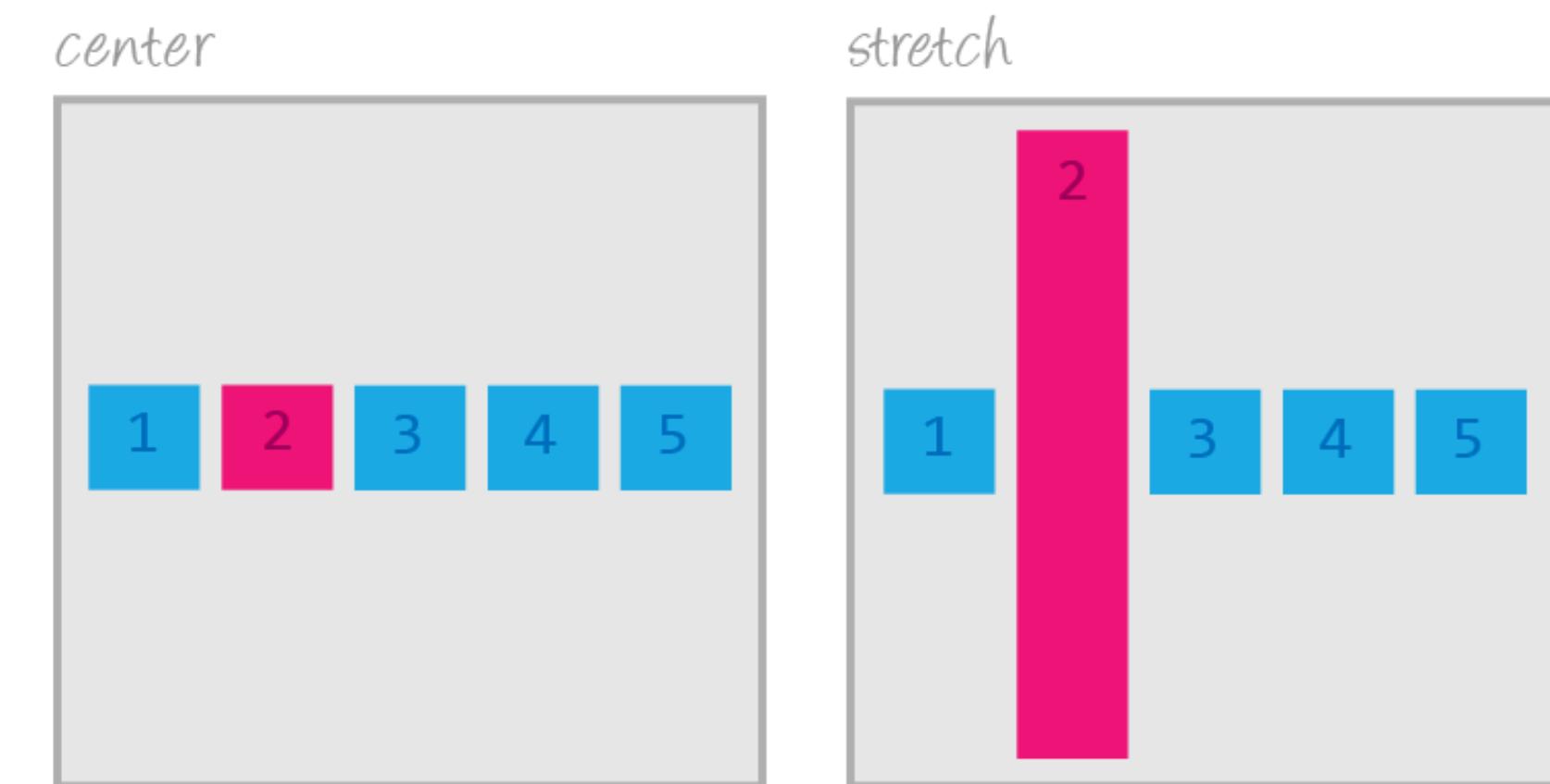
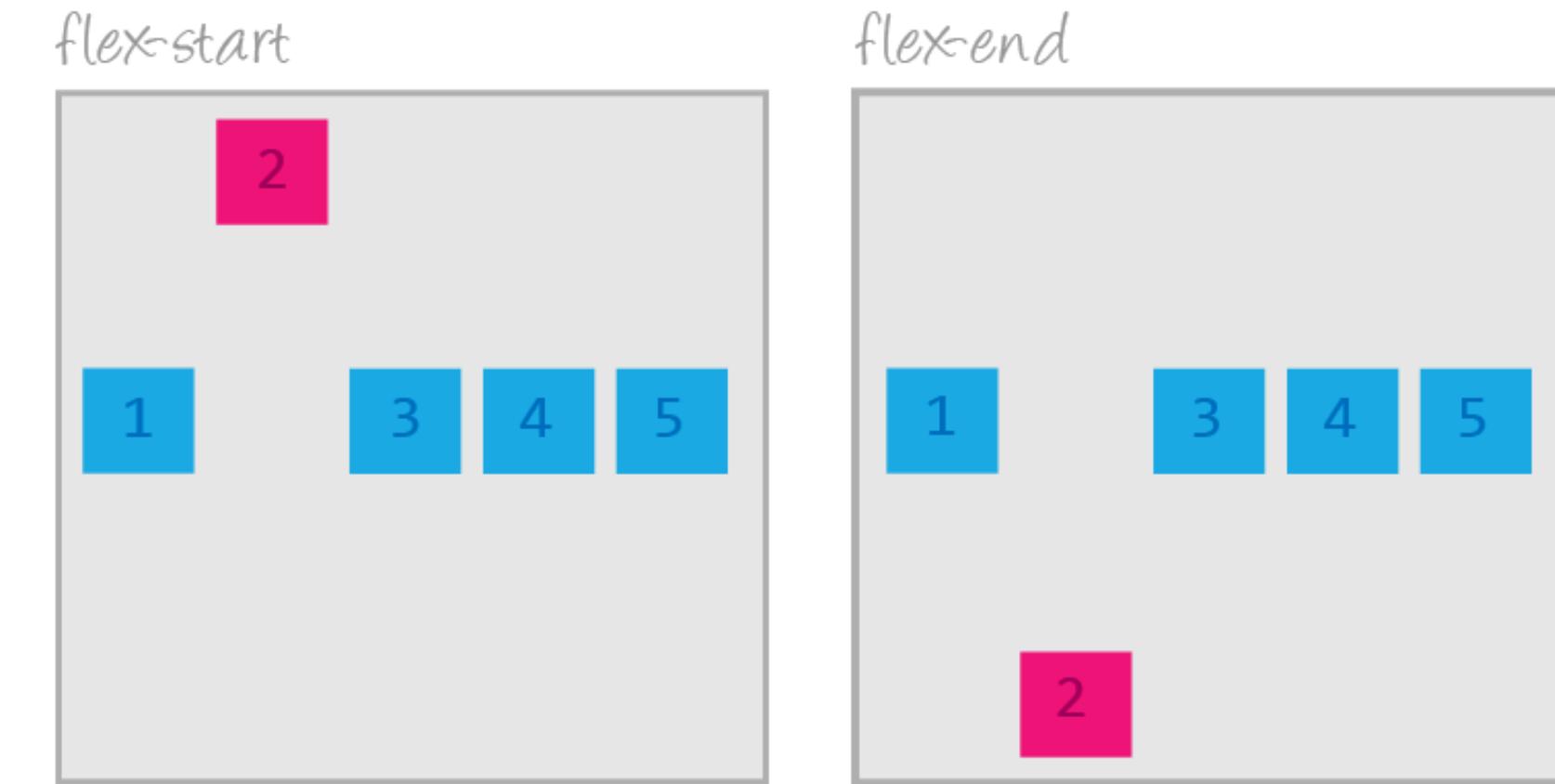
**flex-basis: 0 & flex-basis: 50%**

SETTING ONE FLEX ITEM TO A VALUE WILL MAKE THAT ITEM TAKE UP AT LEAST THAT MUCH SPACE, AND THEN REST OF THE SPACE IS DISTRIBUTED ACCORDING TO FLEX-GROW

# align-self:

Overrides Align-Items for Individual Item

- flex-start
- flex-end
- center
- baseline
- stretch



```

<!-- Featured Songs -->
<h2>Featured Songs /</h2>
| <span lang="jp">今週の曲</span>
</h2>
<div id="featured-songs">
  <div class="featured-div">
    data-id="https://audio-ssl.itunes.apple.com/apple-assets-us-std-000001/AudioPreview111/v4/5a/00/77/5a0077b2-1cfb-1488-2193-18954b3fbf6a/mzaf_3812150045642367775.plus.aac.p.m4a">
      
      <p class="artistname">モアナ(屋比久知奈)</p>
      <p class="songtitle">どこまでも</p>
    </div>
    <div class="featured-div">
      data-id="https://audio-ssl.itunes.apple.com/apple-assets-us-std-000001/Music/v4/8f/dc/37/8fdc37e3-b3b3-a214-ea05-816a037edcd1/mzaf_2562496807894897418.plus.aac.p.m4a">
        
        <p class="artistname">The Clash</p>
        <p class="songtitle">Death or Glory</p>
    </div>
    <div class="featured-div">
      data-id="https://audio-ssl.itunes.apple.com/apple-assets-us-std-000001/Music/e6/e4/00/mzm.blbhqvy.aac.p.m4a">
        
        <p class="artistname">K'naan</p>
        <p class="songtitle">Wavin' Flag</p>
    </div>

```

JP-EN iTunes Search for Language-Learners

0:00 / 0:00

Search iTunes US

Search by artist, song, or genre  Search

iTunes JP で探して

アーティスト、曲、アルバムで探して  サーチ

### Featured Songs / 今週の曲

 モアナ(屋比久知奈) どこまでも	 The Clash Death or Glory	 K'naan Wavin' Flag
 AI Gloria	 Creed With Arms Wide Open	 モンゴル800 小さな恋の歌

# Nifty Resources

- <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>
- <https://flexboxfroggy.com/>

