Flexbox

1. What is Flexbox
2. Flex-direction
3. Justify-content
4. Align-items
5. Align-self
6. Flex-wrap
7. Flex-order
8. Flex-grow, flex-basis, flex-shrink

Ikea.com

The `Flexbox Layout` (Flexible Box) module (a W3C Candidate Recommendation as of October 2017) aims at providing 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”).

The main idea behind the flex layout is to give the container the ability to alter its items’ width/height (and order) to best fill the available space (mostly to accommodate to all kind of display devices and screen sizes). A flex container expands items to fill available free space or shrinks them to prevent overflow.

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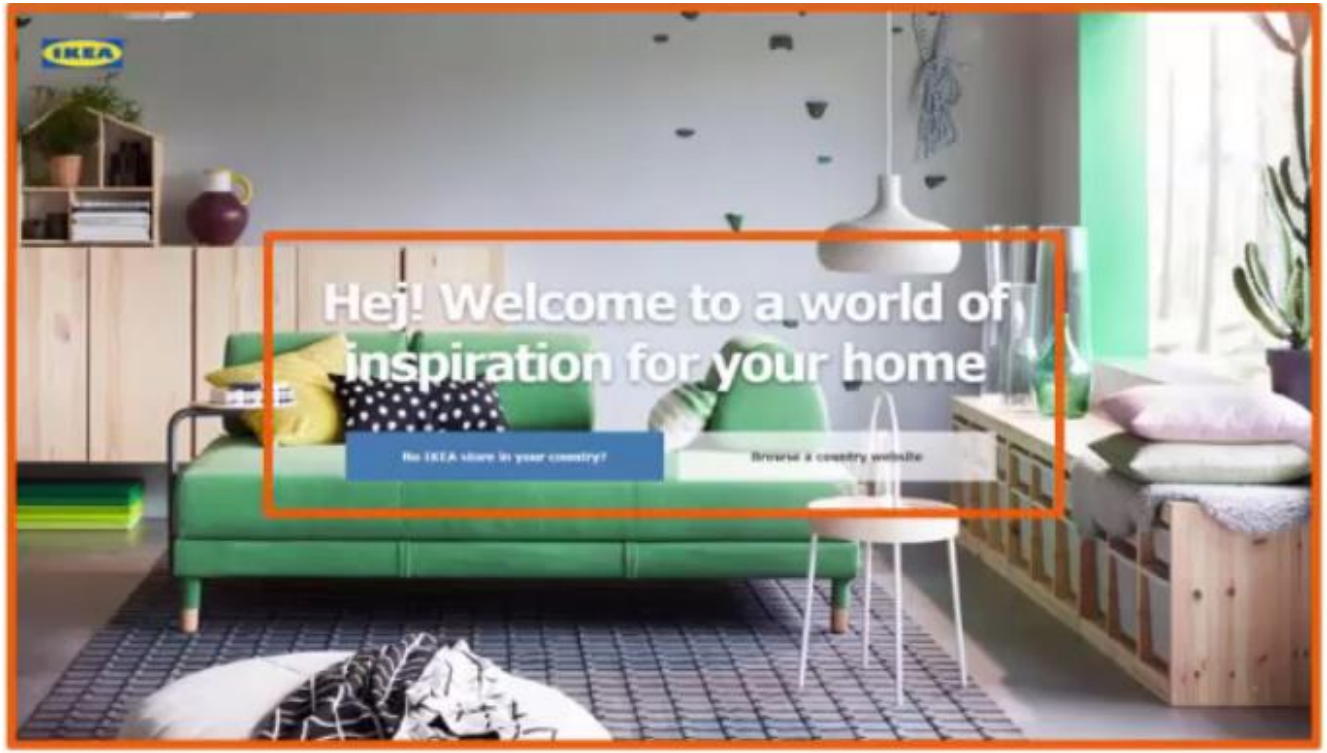

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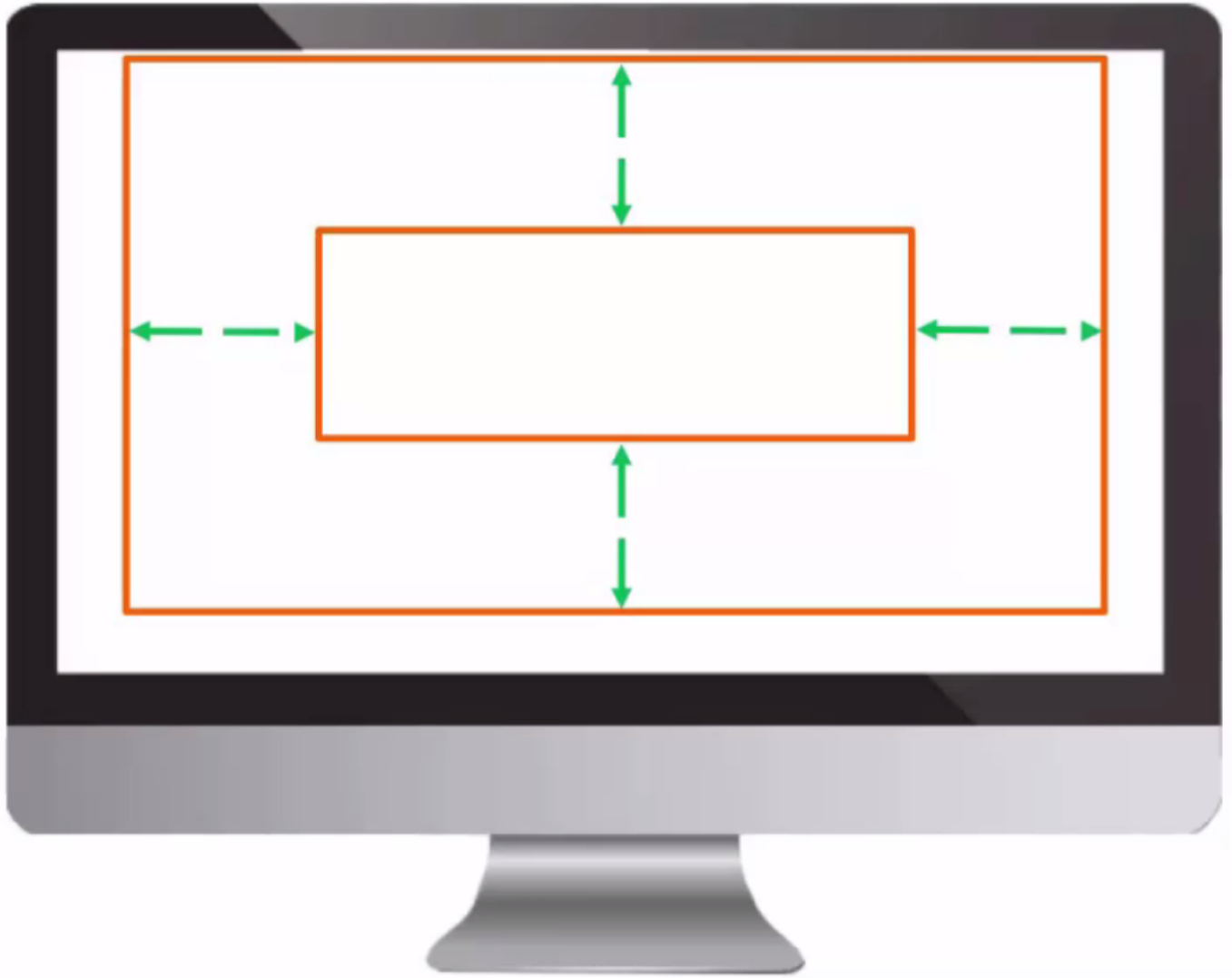
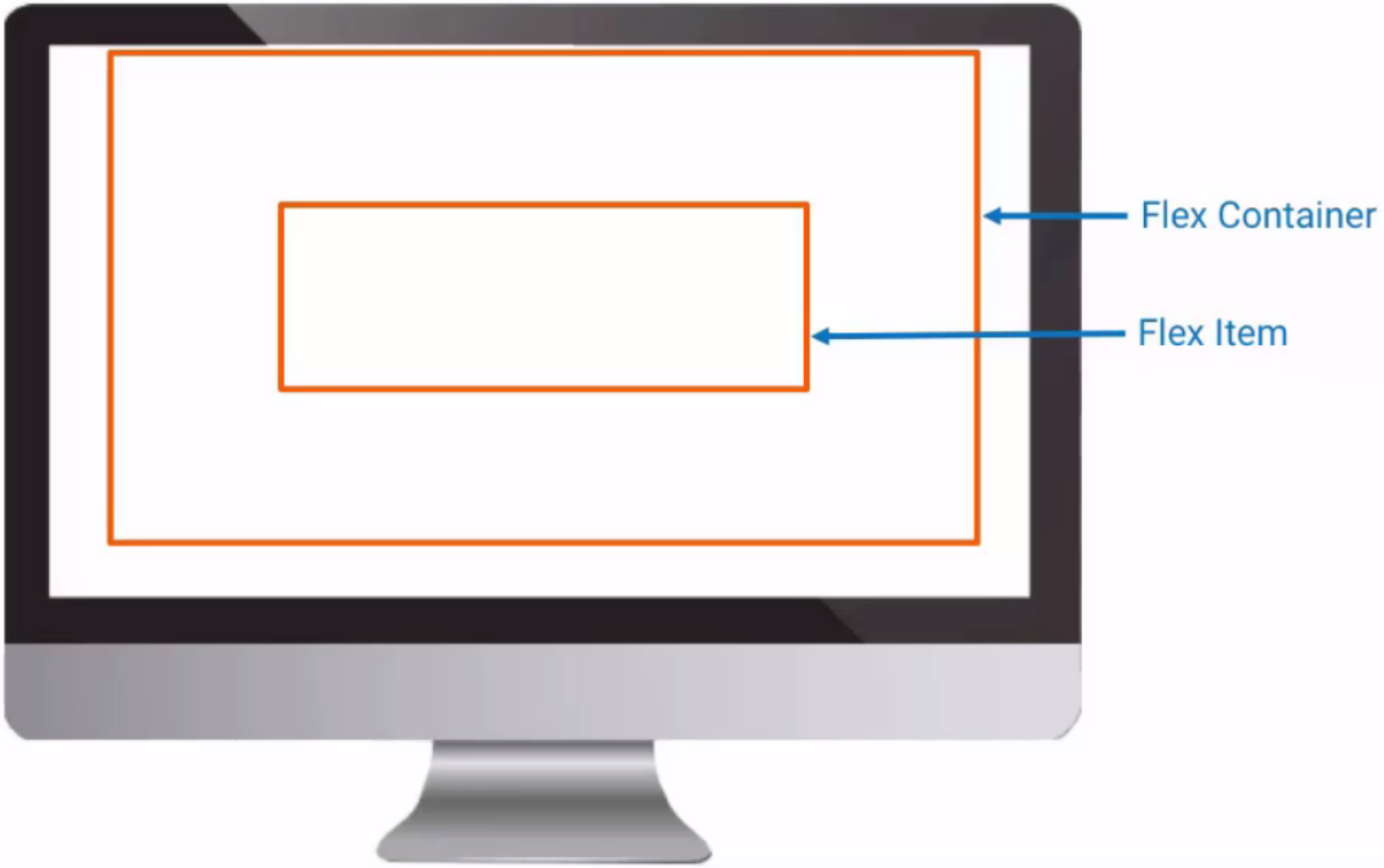
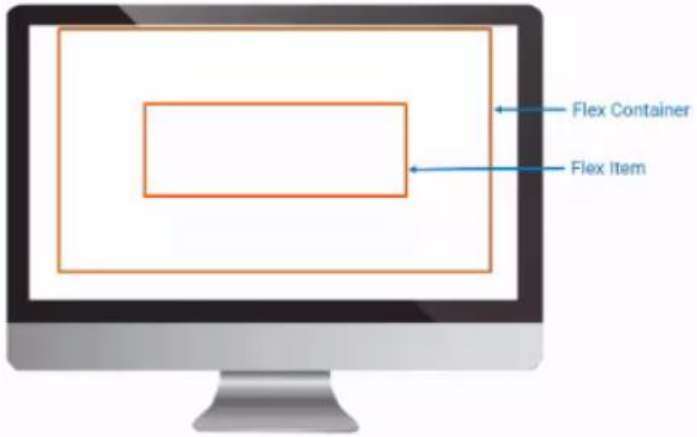
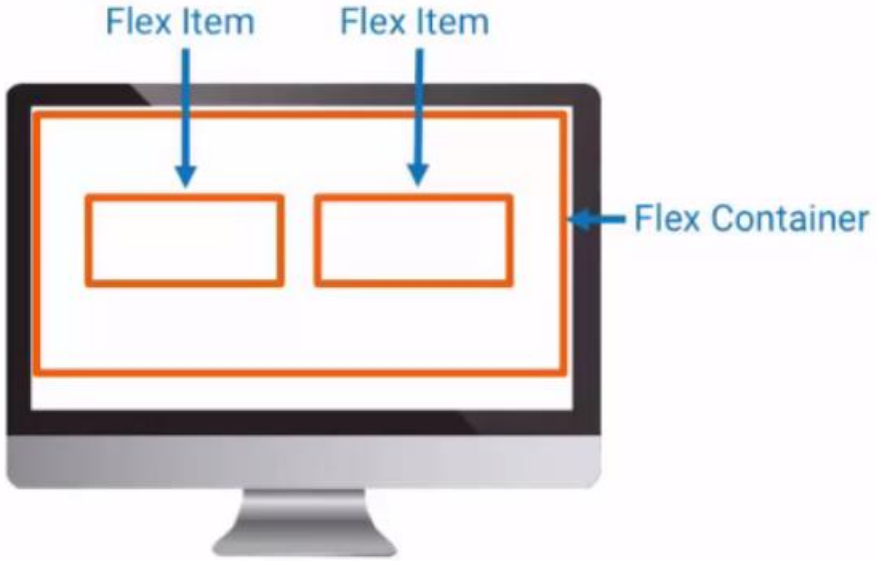
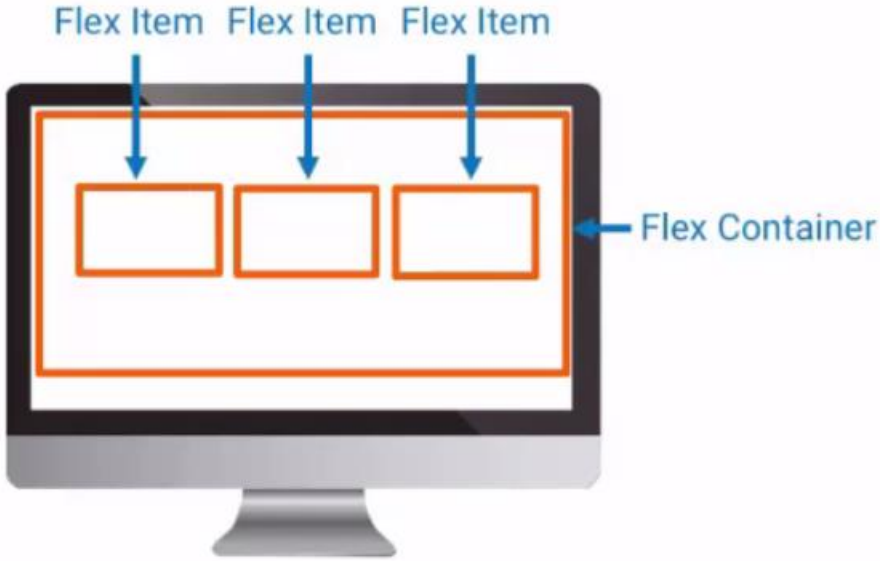
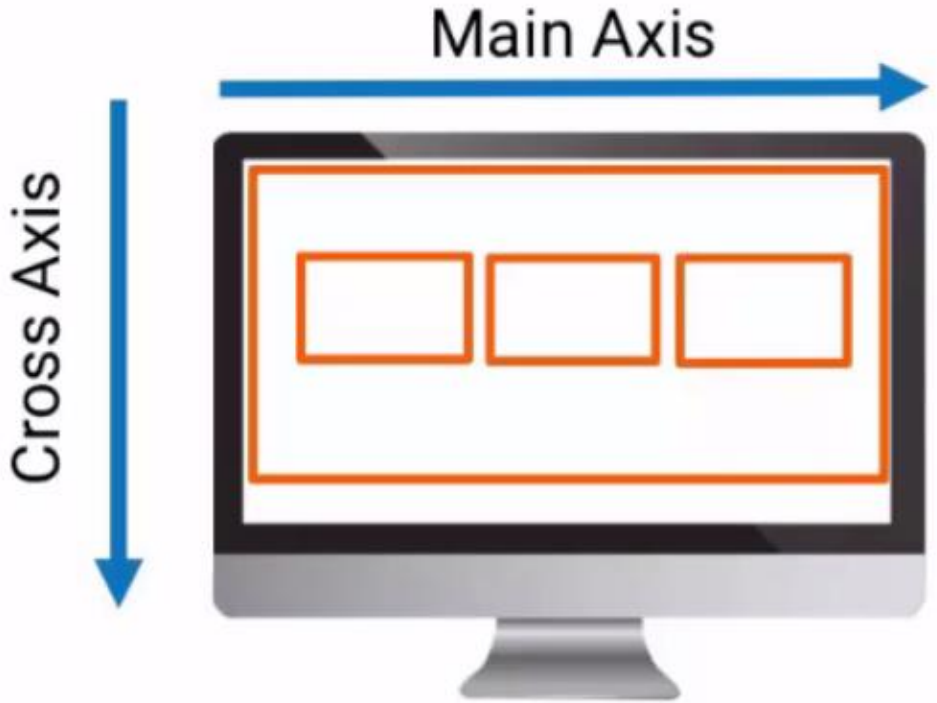



Flex Container
Flex Item


Flex Container
Flex Item


Flex Item
Flex Item
Flex Container

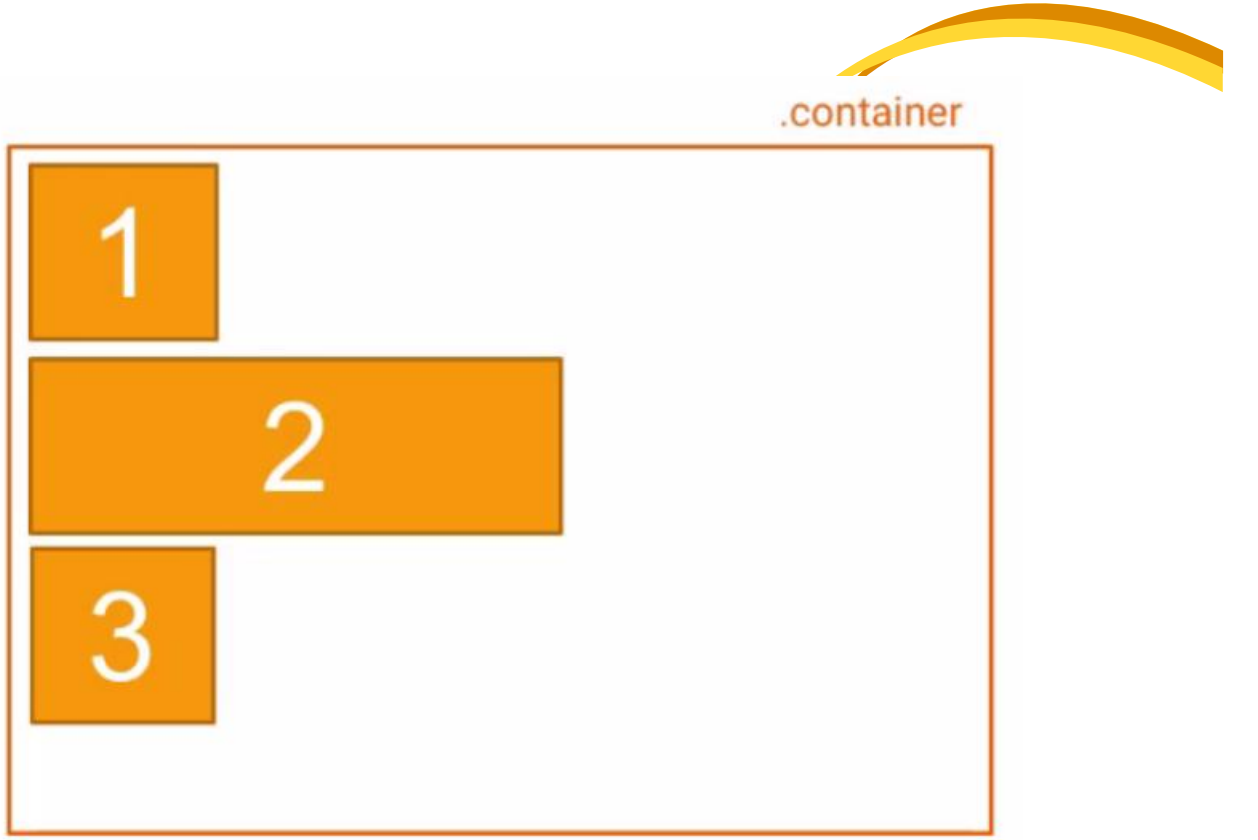

Flex Item
Flex Item
Flex Item
Flex Container


Main Axis
Cross Axis

Flex direction

HTML

```
<body>
    <div class="container">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
    </div>
</body>
```

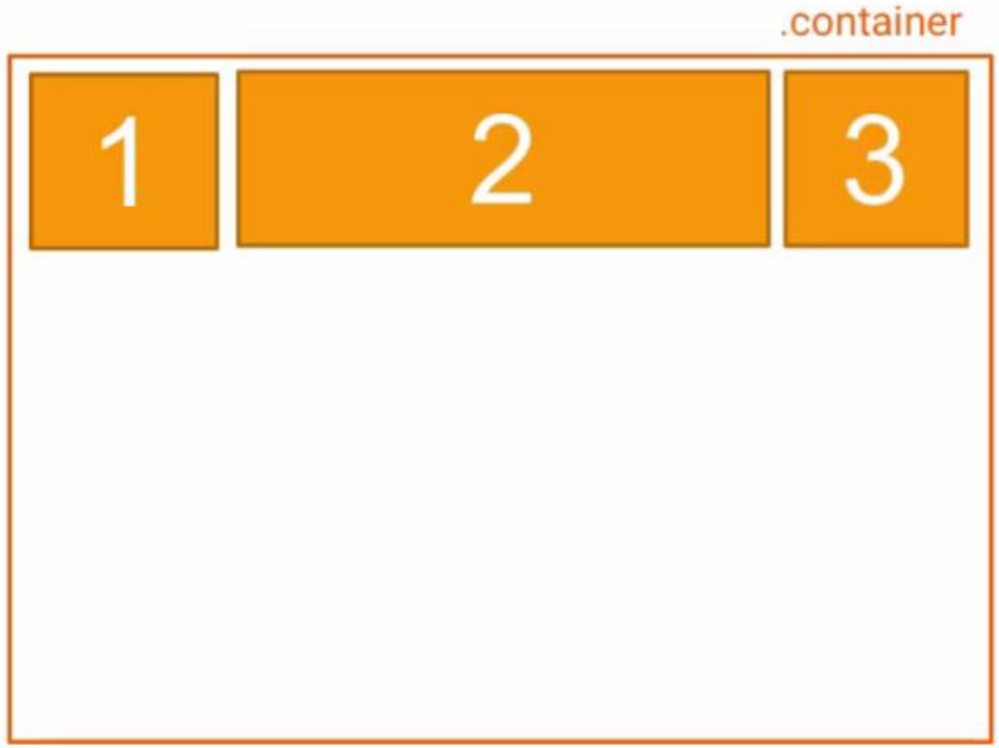


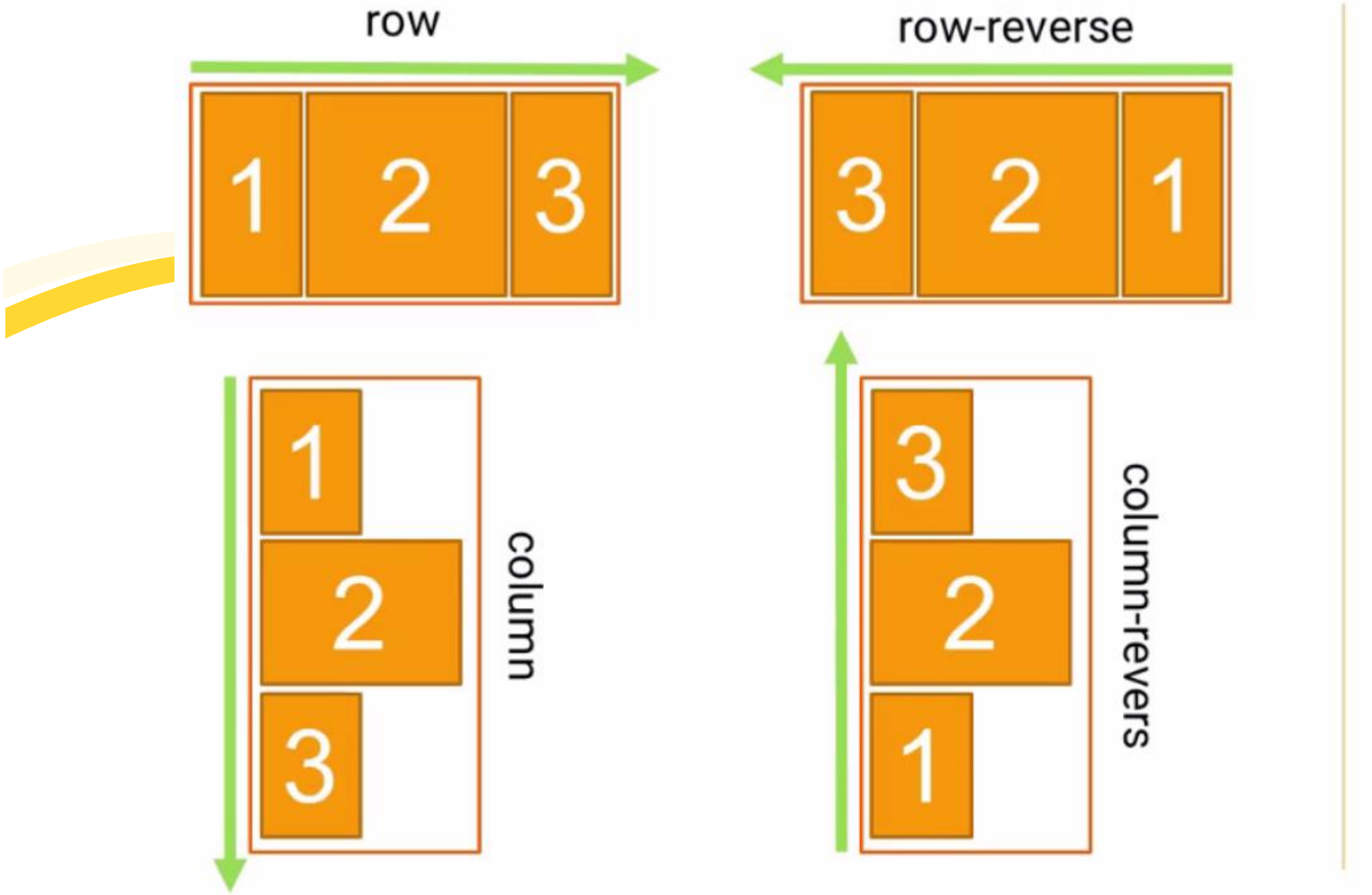
HTML

```
<body>
    <div class="container">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
    </div>
</body>
```

CSS

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





flex-direction:

row

row-reverse

column

column-reverse

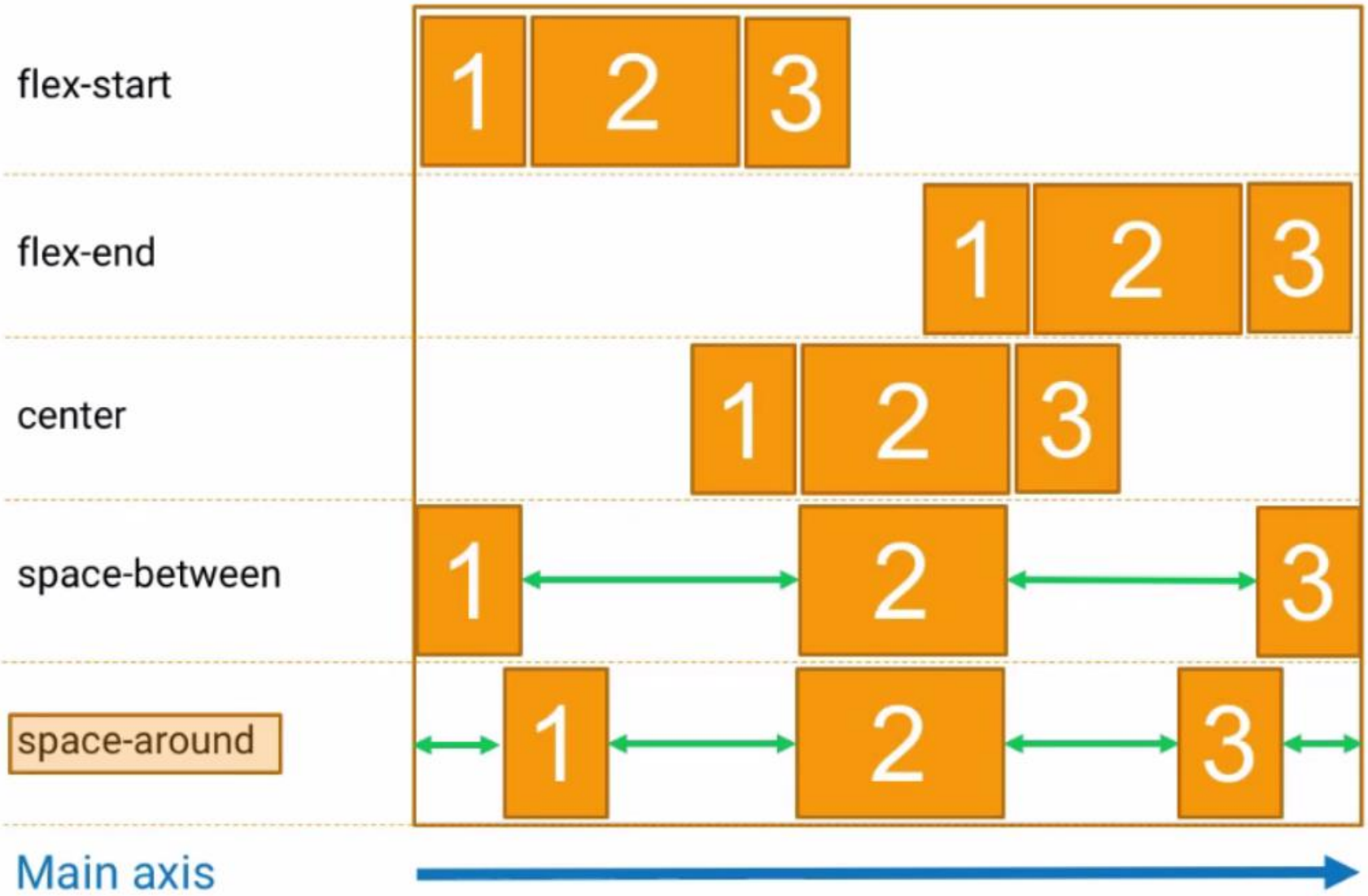
Flex direction
DEMO

Container contains .block1 .block2 .block3 with .block W150 H150 white-text

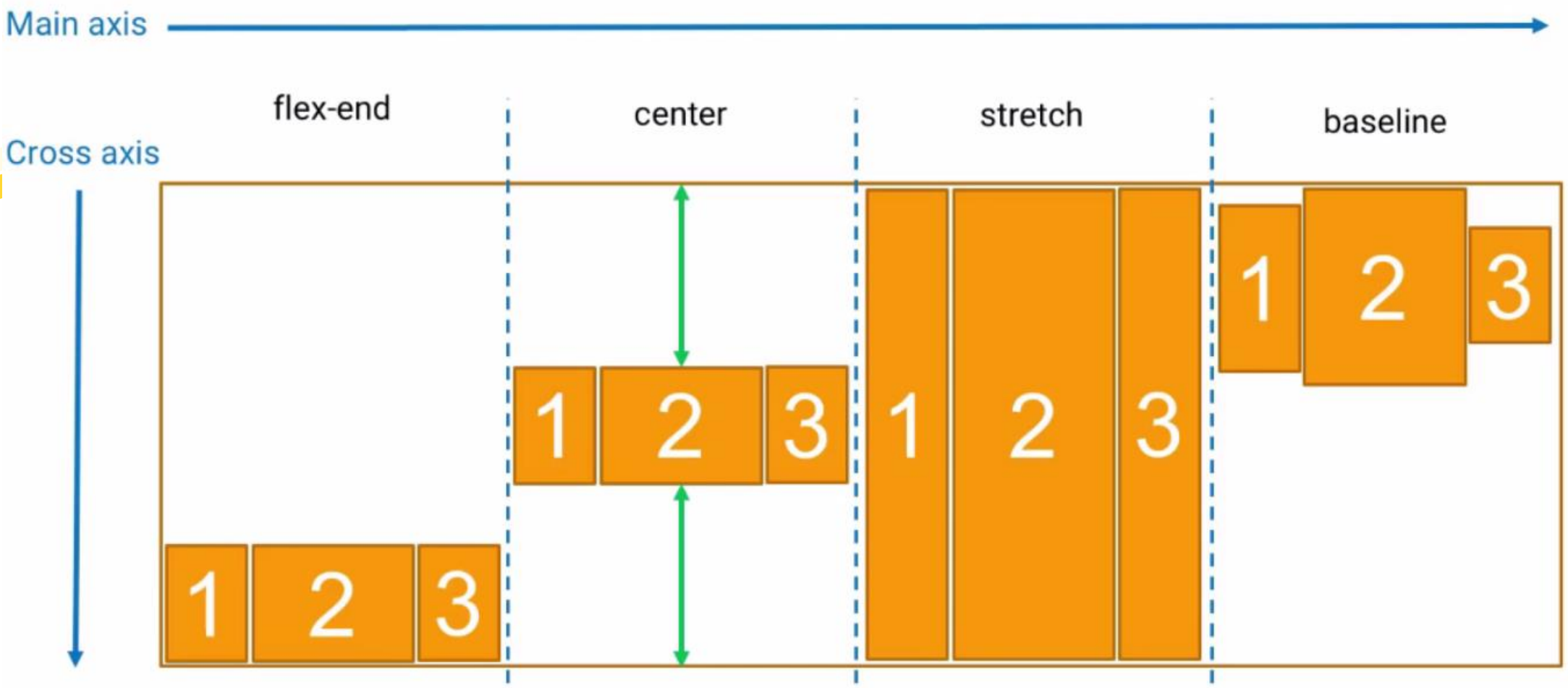
CSS

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

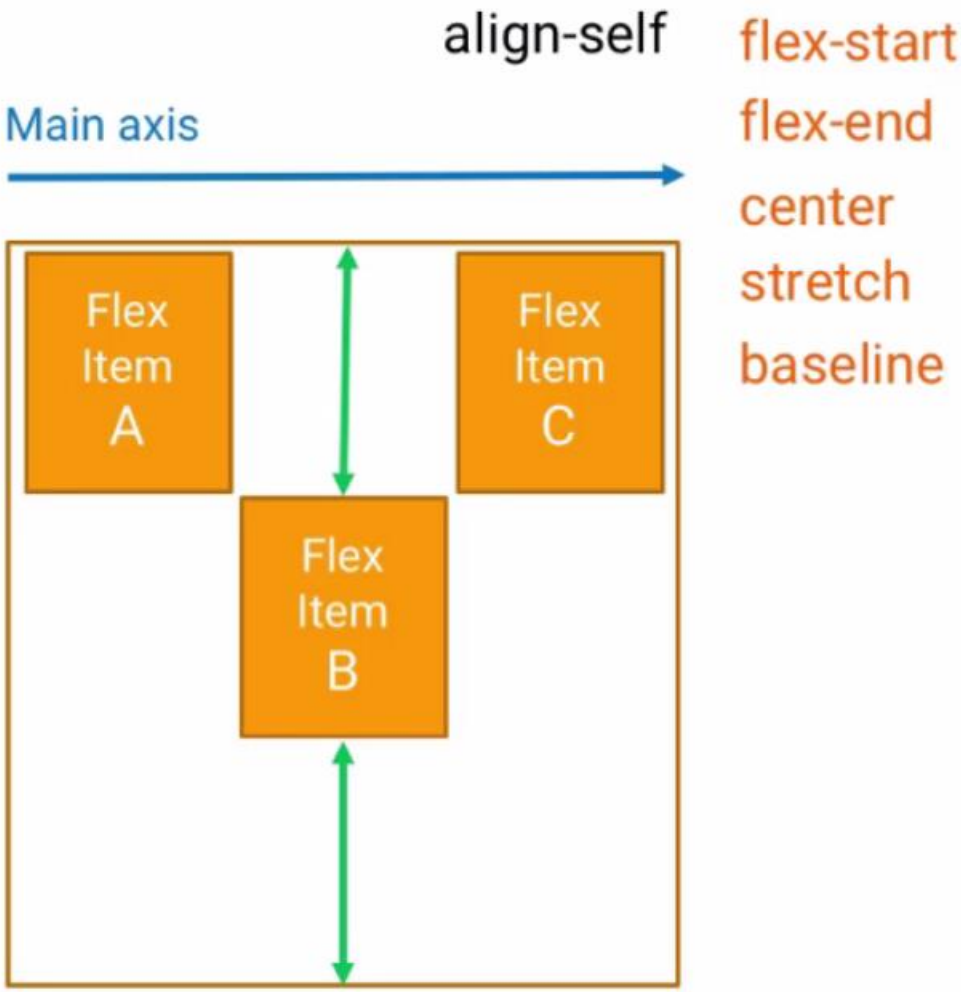
justify-content:



align-items:

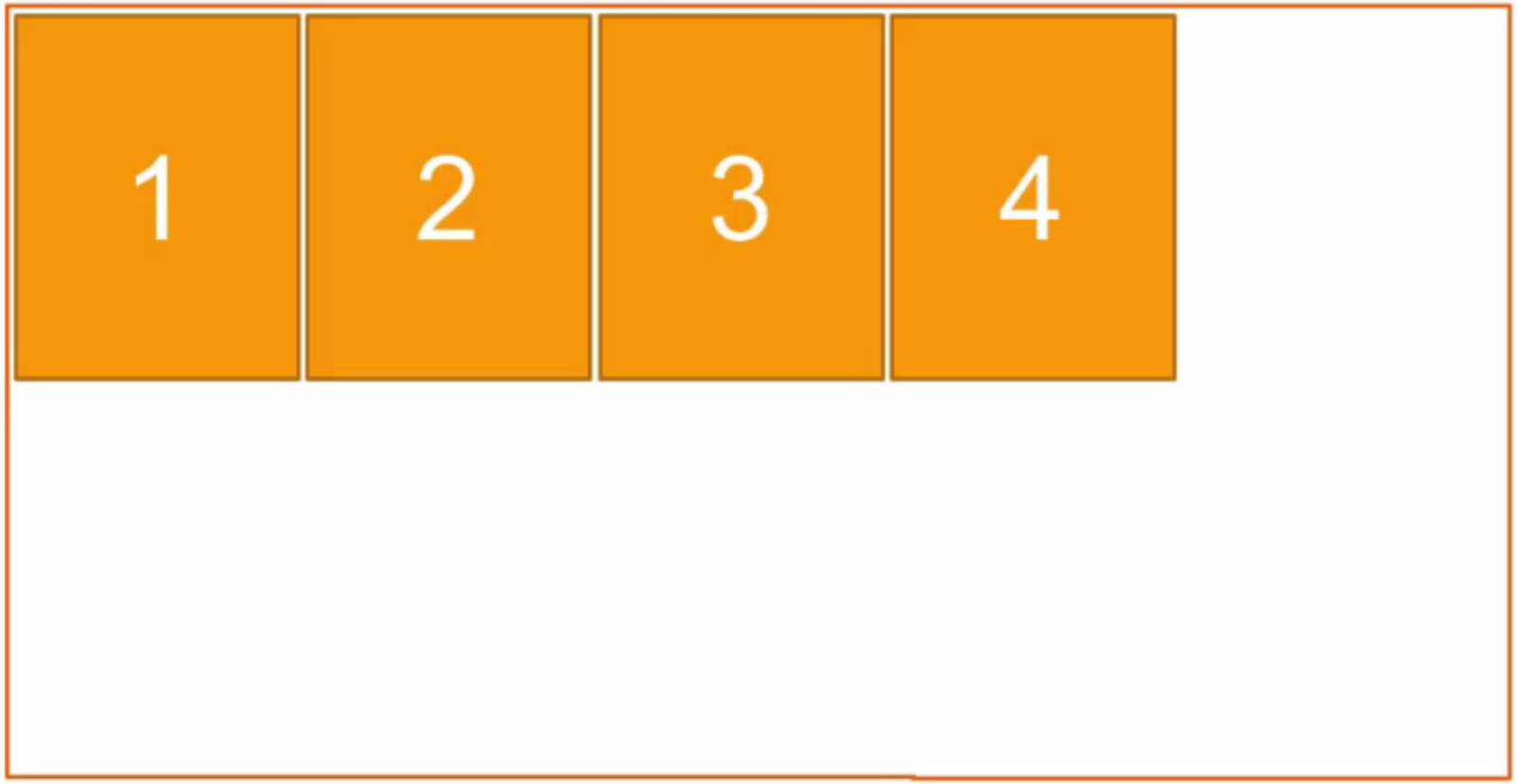


Default: flex-start



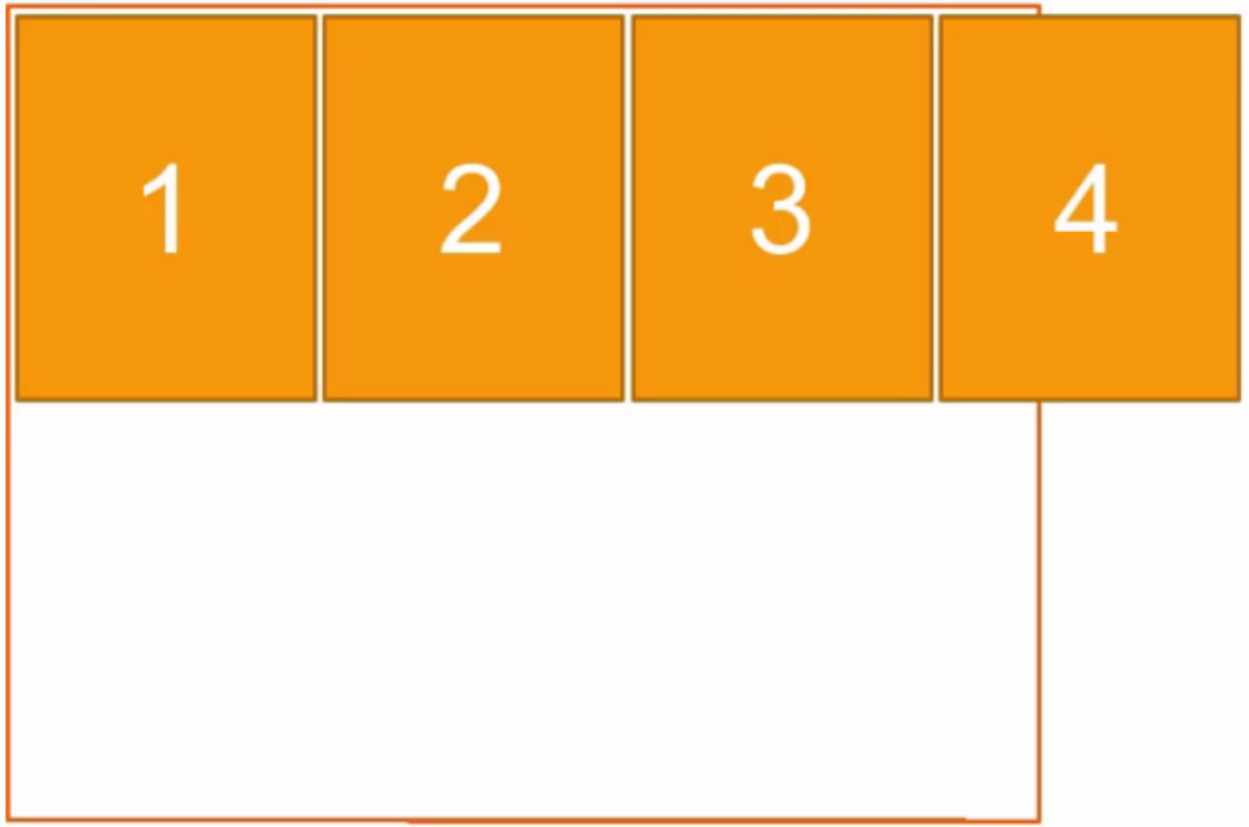

```
.flex-item-A {
    background-color: orange;
}

.flex-item-B {
    background-color: orange;
    align-self: center;
}

.flex-item-C {
    background-color: orange;
}
```

flex-direction: row



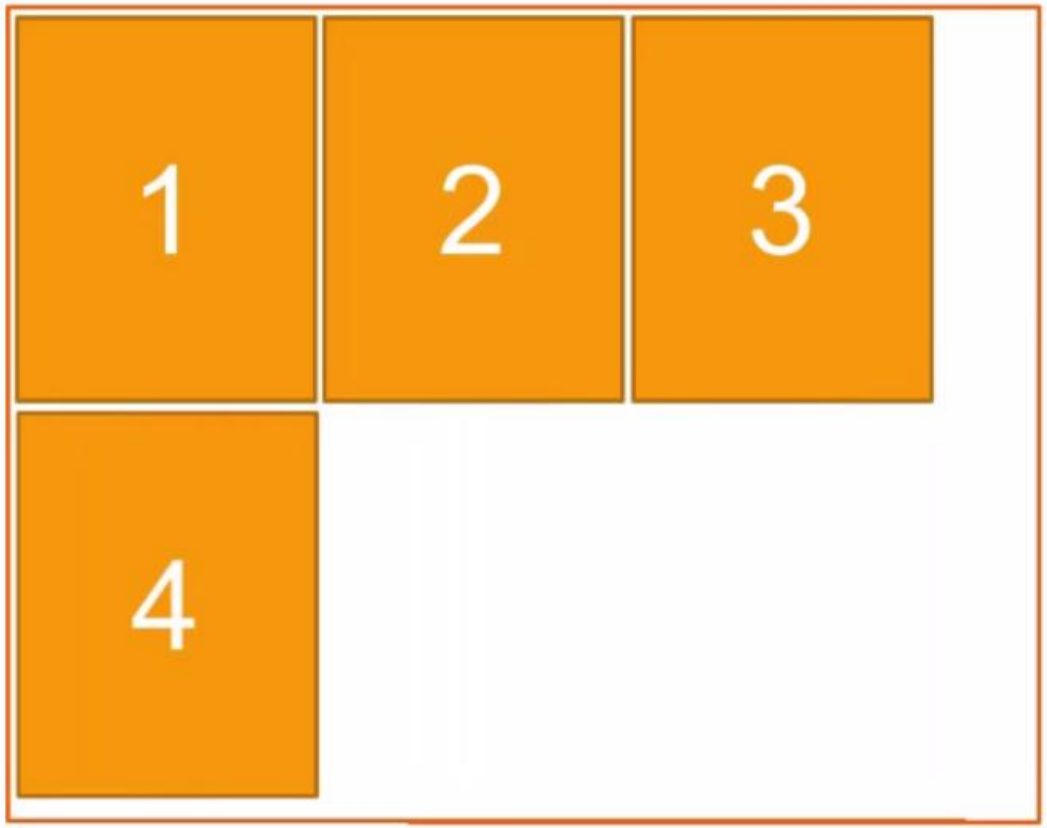
flex-direction: row

flex-wrap: nowrap | wrap | wrap-reverse



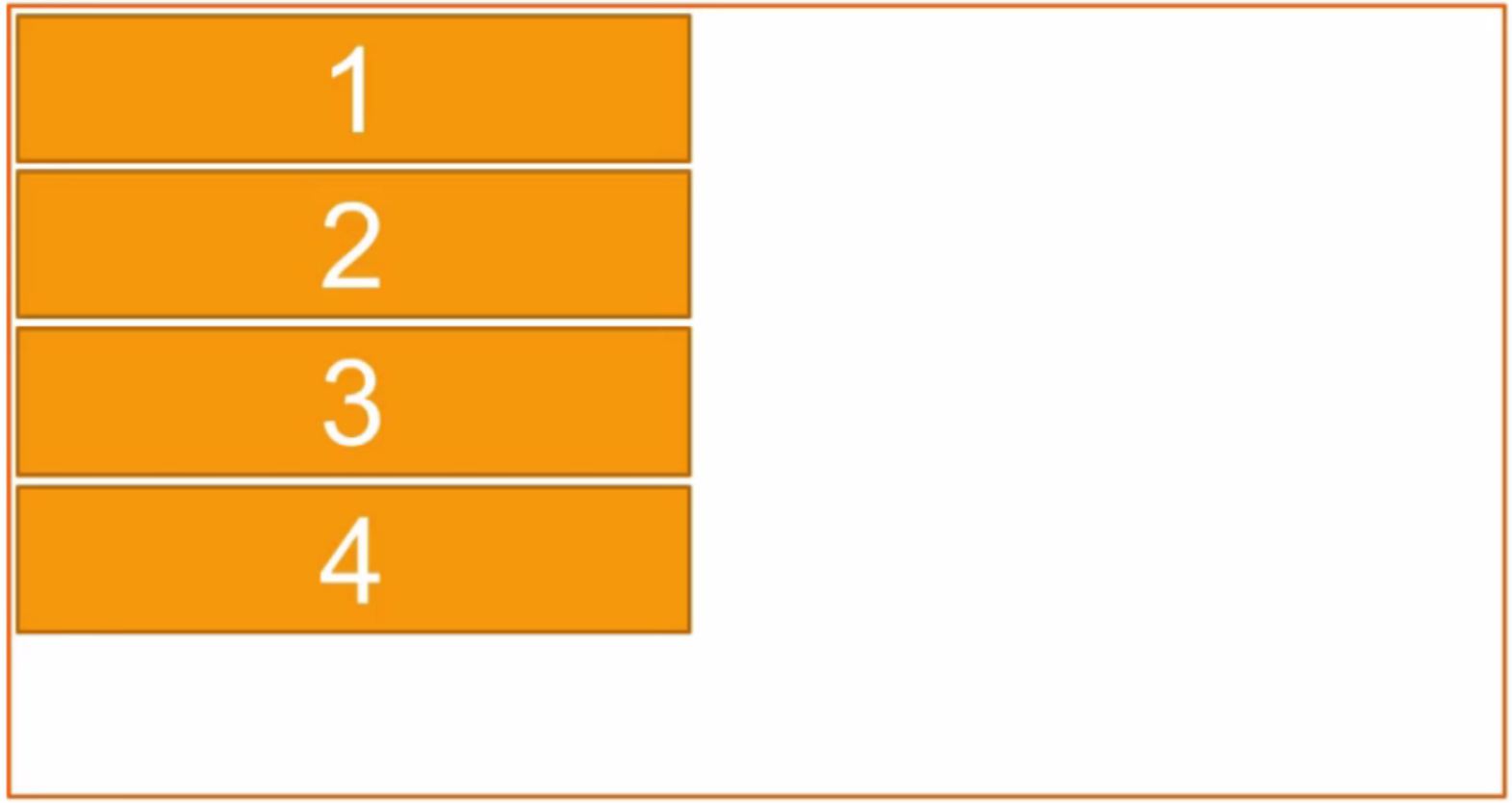
flex-direction: row

flex-wrap: nowrap | wrap | wrap-reverse



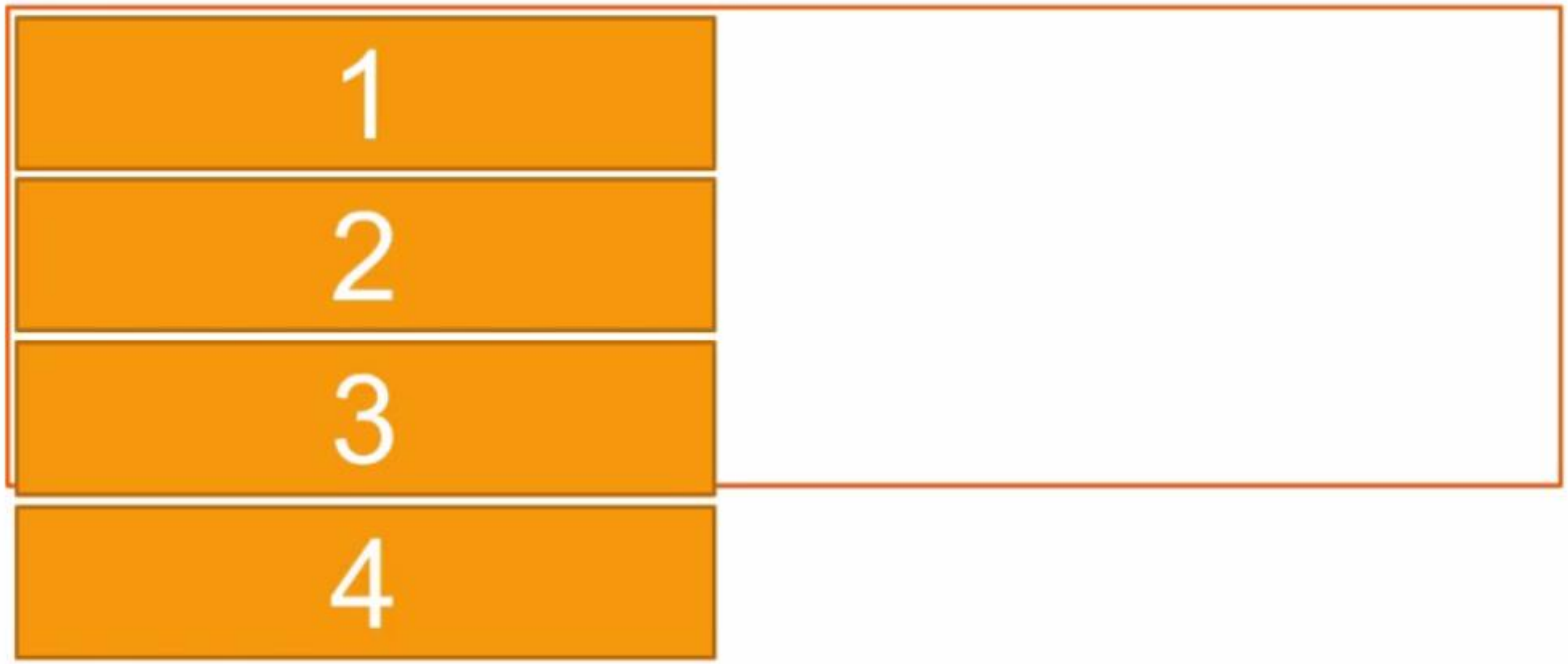
flex-direction: column

flex-wrap: nowrap | wrap | wrap-reverse



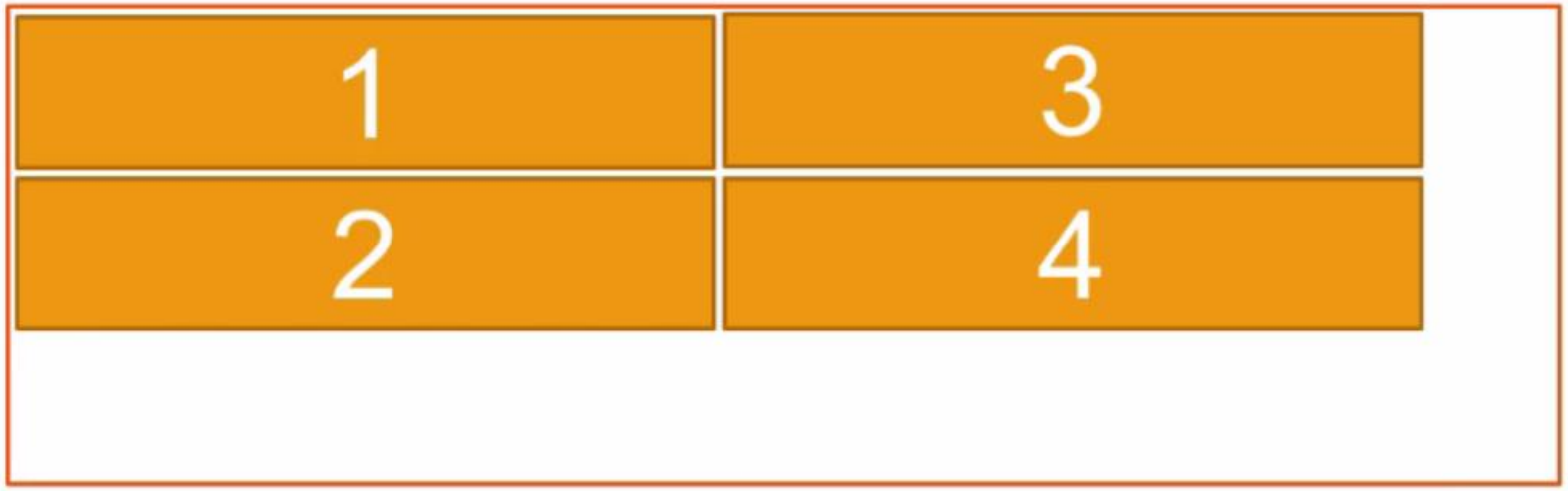
flex-direction: column

flex-wrap: nowrap | wrap | wrap-reverse

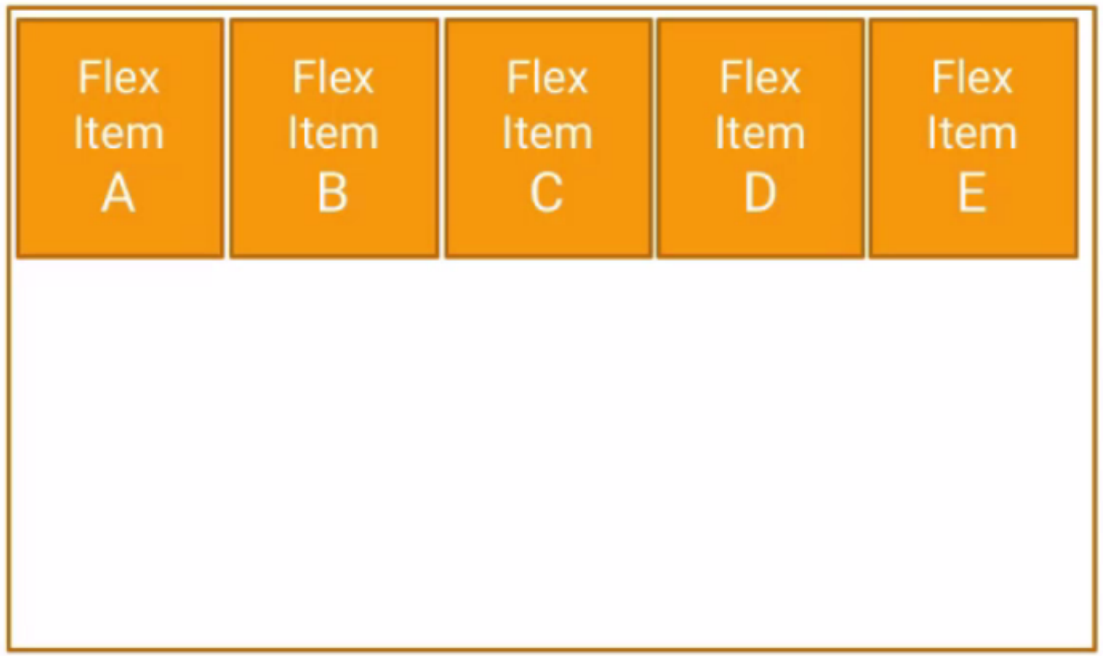


flex-direction: column

flex-wrap: nowrap | wrap | wrap-reverse



order: number



order: number

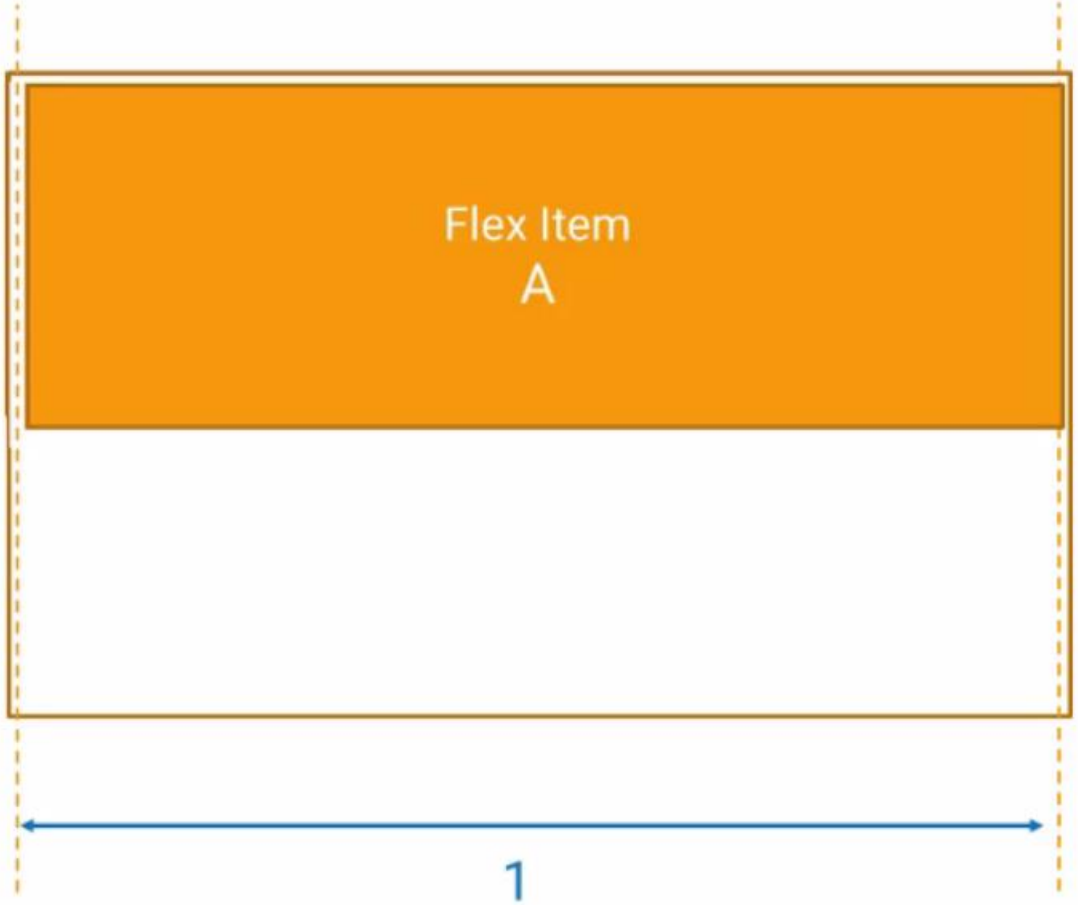
```
.flex-item-A {
    background-color: orange;
    order: 1;
}

.flex-item-B {
    background-color: orange;
    order: 2;
}

.flex-item-C {
    background-color: orange;

}

.flex-item-D {
    background-color: orange;

}

.flex-item-E {
    background-color: orange;
    order: -1;
}
```

flex-grow

flex-basis

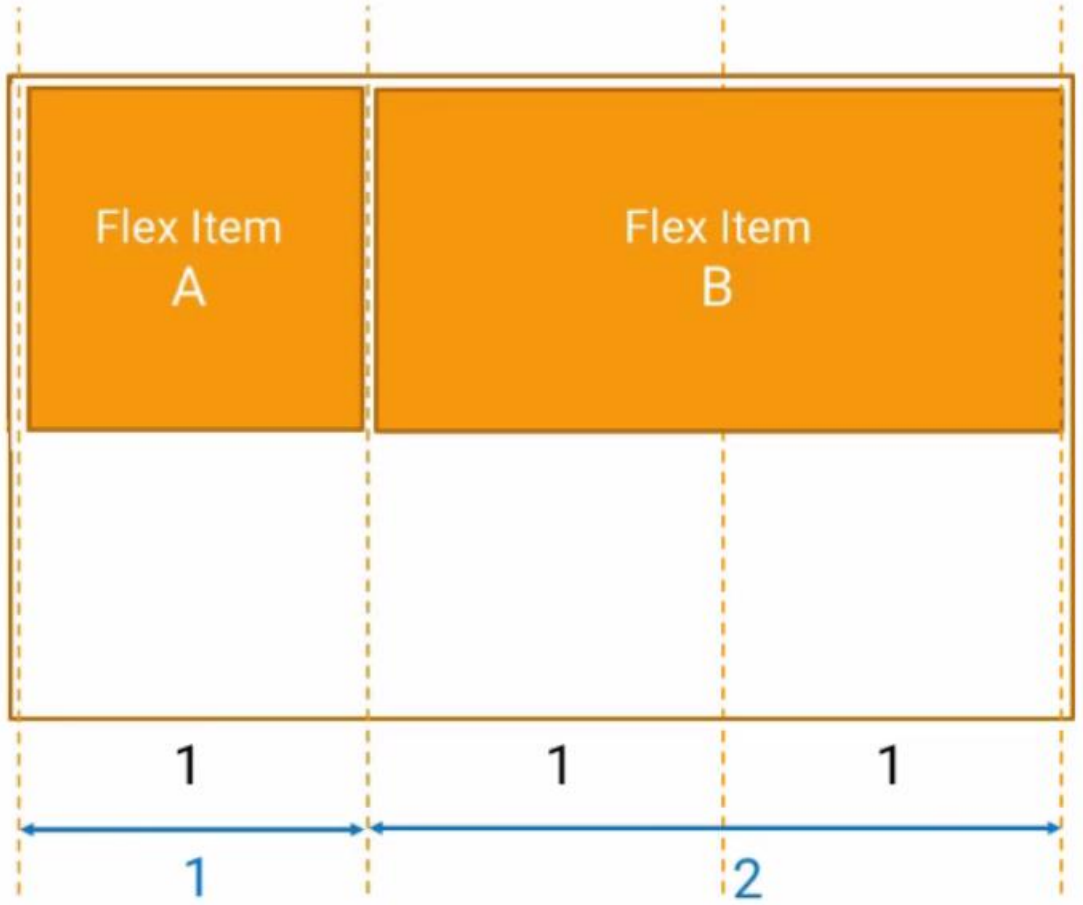
flex-shrink

flex-grow: number




```
.flex-item-A {
    background-color: orange;
    flex-grow: 1;
}
```

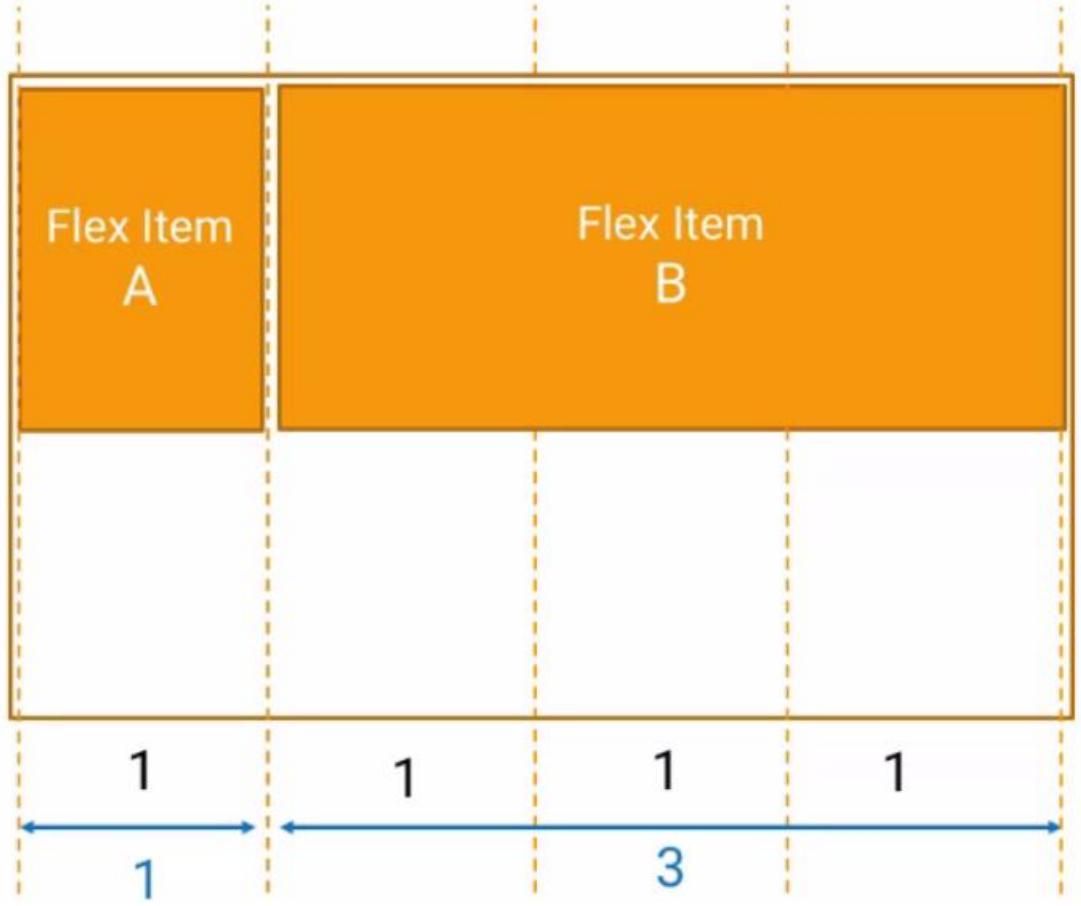
flex-grow: number




```
.flex-item-A {
    background-color: orange;
    flex-grow: 1;
}
```

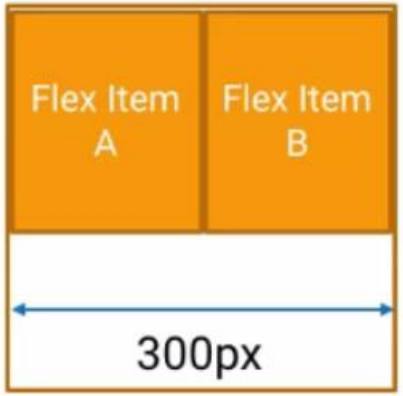
```
.flex-item-B {
    background-color: orange;
    flex-grow: 2;
}
```

flex-grow: number



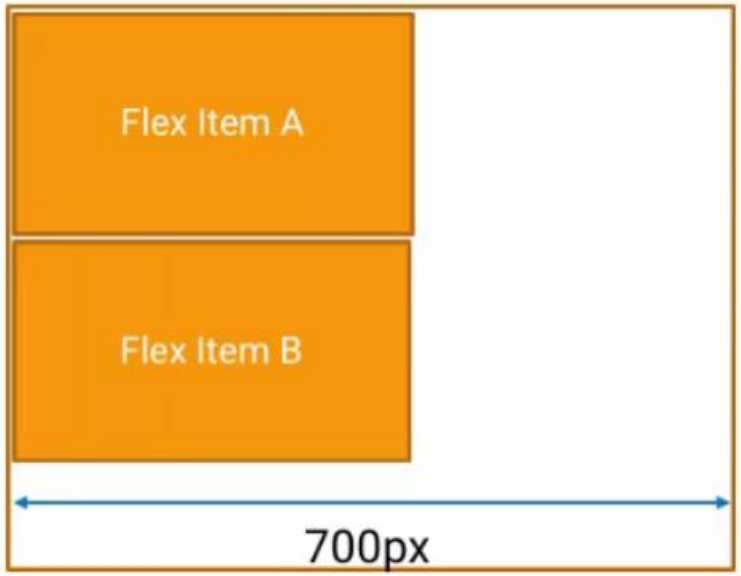

```
.flex-item-A {
    background-color: orange;
    flex-grow: 1;
}
```

```
.flex-item-B {
    background-color: orange;
    flex-grow: 3;
}
```




```
.flex-item-A {
    background-color: orange;
    width: 400px;

}


.flex-item-B {
    background-color: orange;
    width: 400px;

}
```

flex-basis: width




```
.flex-item-A {
    background-color: orange;
    width: 400px;
    flex-basis: 400px;
}

.flex-item-B {
    background-color: orange;
    width: 400px;
    flex-basis: 400px;
}
```

Container: flex-wrap: wrap
,block with flex-grow:1 and flex-basis: 300px

Technology

Consulting

5432 Any Street West, Townsville, State 54321

format code: Edit > Line > Reindent

copy line: Ctrl Shift D

delete row: Ctrl X