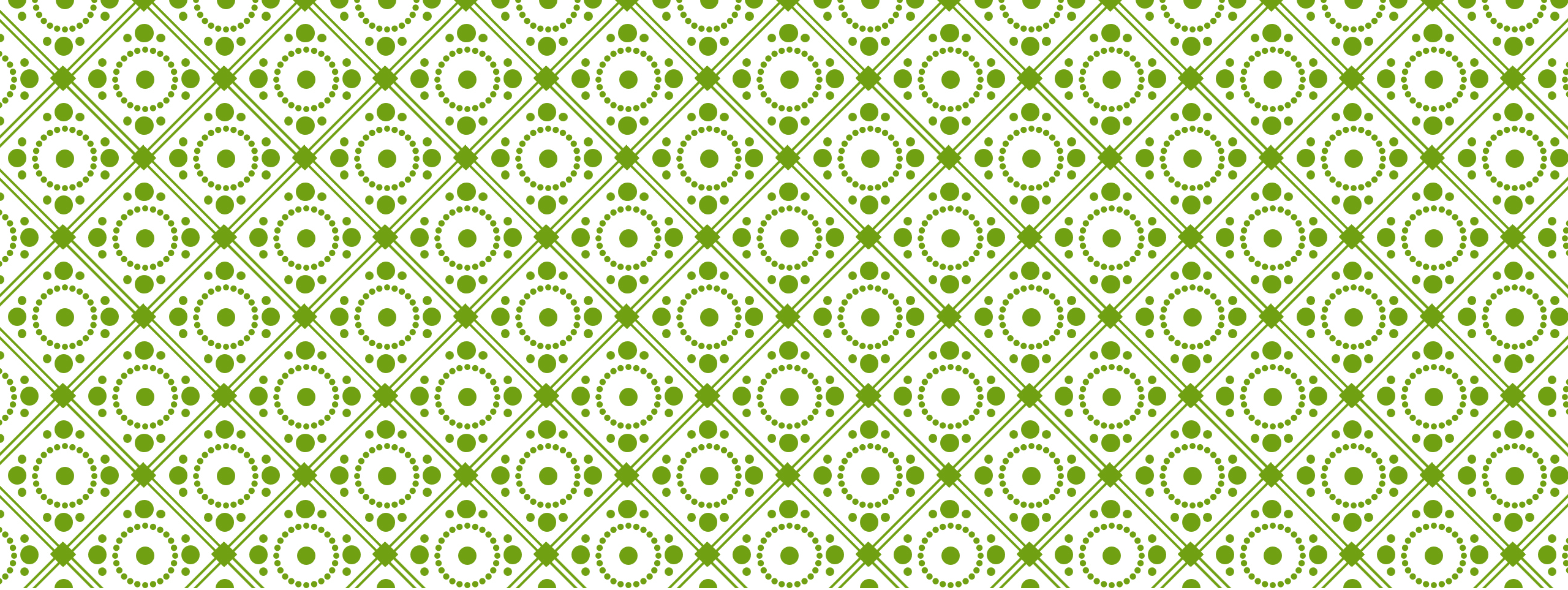


FLEXBOX

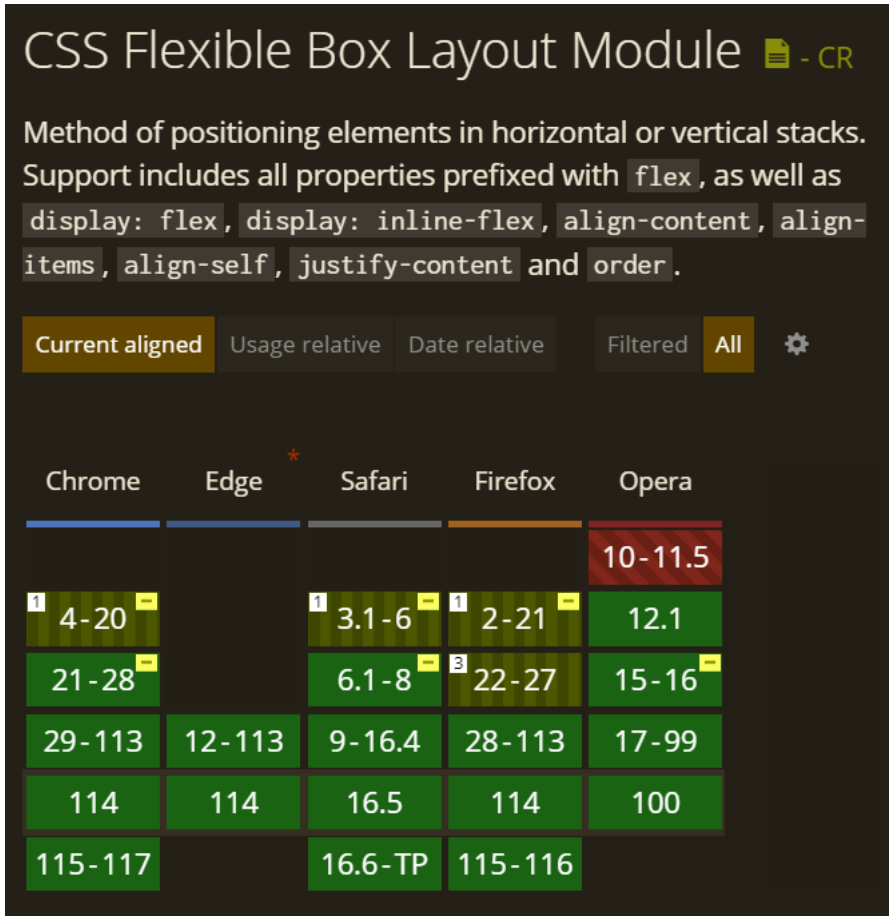
FLEXIBLE BOX MODULE

Prof. Andrew Sheehan

Metropolitan College
Boston University

FLEXBOX LAYOUT MODULE

A method of positioning elements in horizontal or vertical stacks.



Source: caniuse.com, July, 2023

FLEXBOX
THE CONTAINER

The parent element for your items. Use any CSS selector you feel appropriate

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

DETAILS

Main axis: This is the primary axis along which flex items are distributed. This will change depending upon the value of flex-direction.

Main-start and Main-end: Flex items are placed within a container beginning at main-start and resting at main-end.

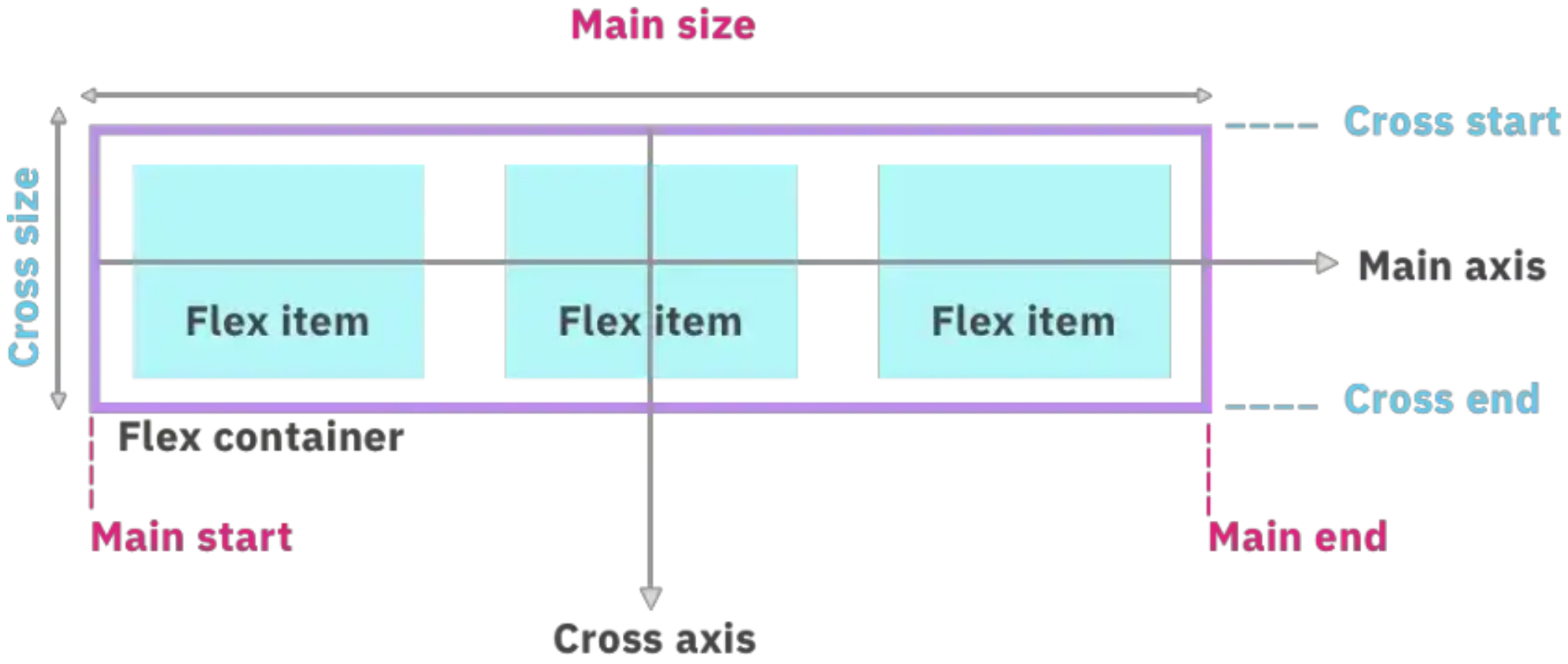
Main-size: A flex item's width or height is the main size. This depends upon which is the main direction. The main size property will either be 'width' or 'height'.

Cross axis: This is the axis that is perpendicular to the main axis. The direction depends on the main axis direction.

Cross-start and Cross-end: Items are placed beginning at the cross-start side of the flex container and move towards the cross-end side.

Cross-size: The width or height of a flex item, which again depends on the main direction. This property will be either 'width' or 'height'.

THE 2 AXES

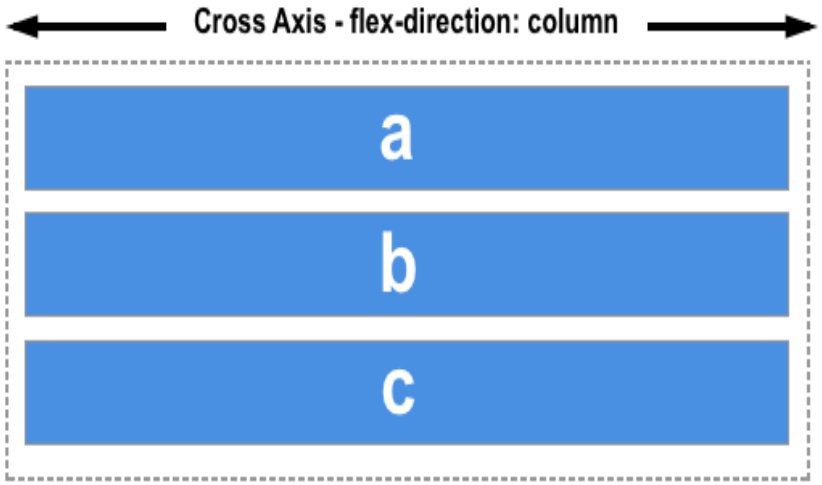

Main size
Cross size
Cross start
Main axis
Flex item
Flex item
Flex item
Cross end
Flex container
Main start
Main end
Cross axis

FLEX-DIRECTION

Values:

- row
- row-reverse
- column
- column-reverse

FLEX-DIRECTION: ROW



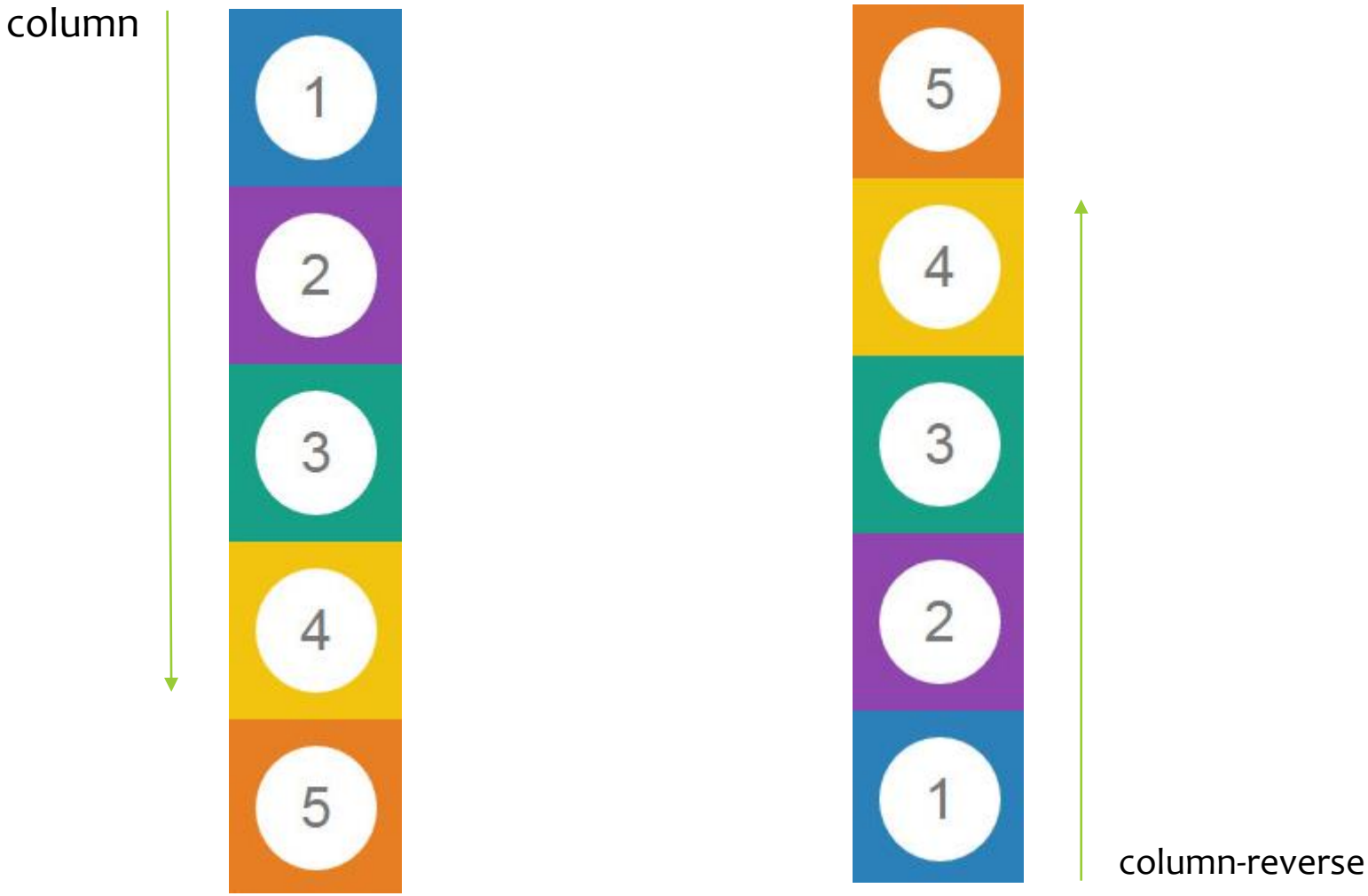
If your main axis is column or column-reverse **then the cross axis runs along the rows.**

THE CROSS AXIS

Perpendicular to the main axis

If your (main axis) is set to row or row-reverse **the cross axis runs down the columns.**

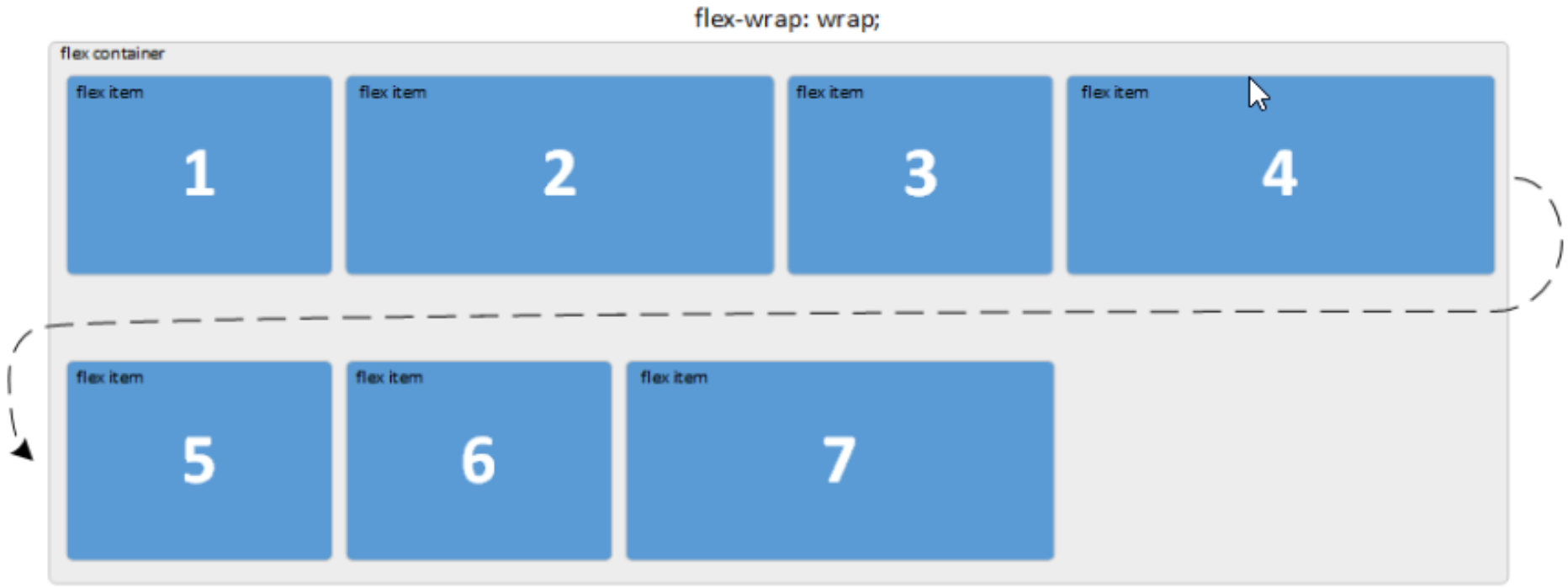
FLEX-DIRECTION: COLUMN



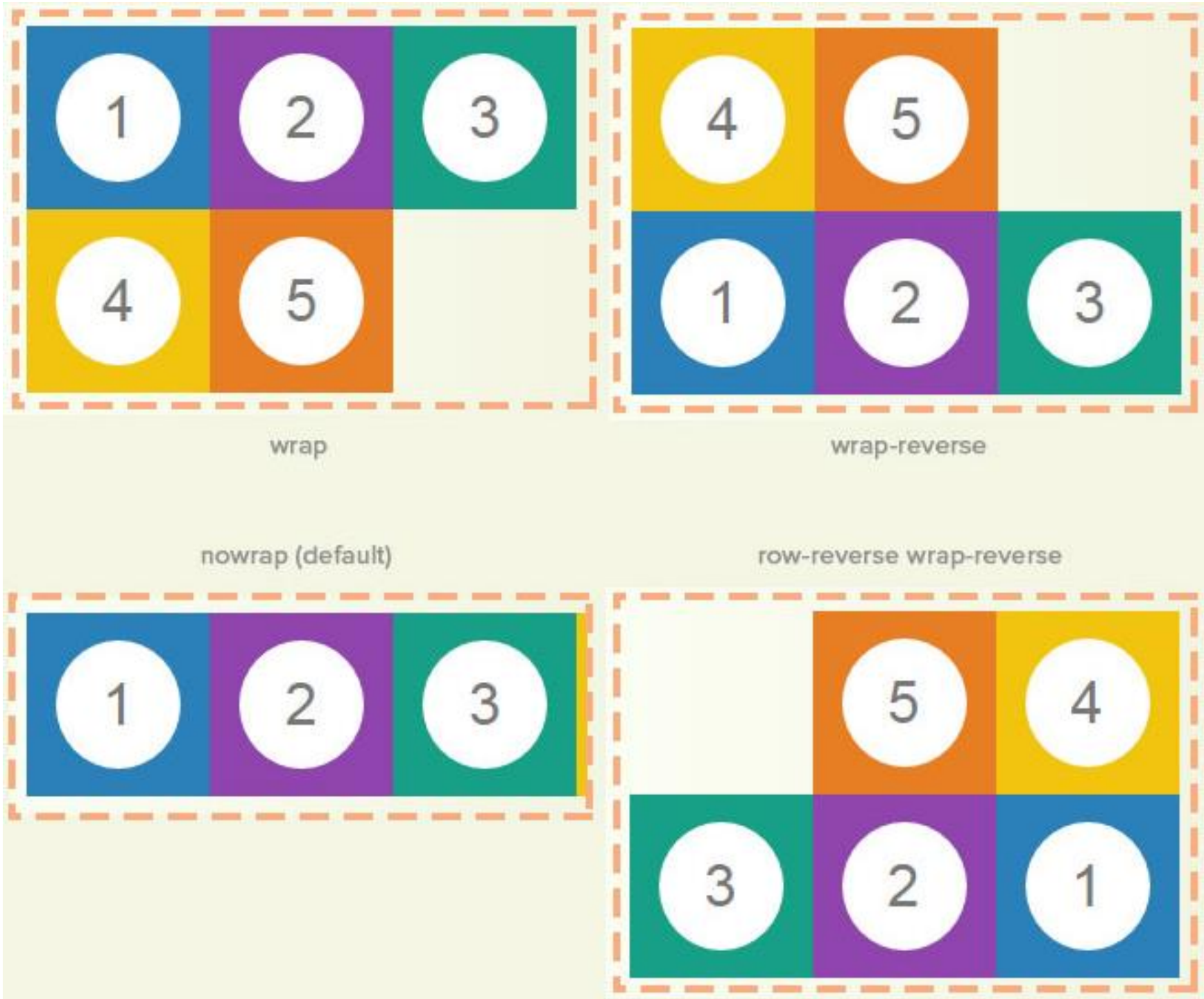
WRAPPING ITEMS

Default behavior **is not to wrap your items.** (: **nowrap**)

flex-wrap: **wrap**



WRAP


1
2
3
4
5
wrap
4
5
1
2
3
wrap-reverse
nowrap (default)
1
2
3
row-reverse wrap-reverse
5
4
3
2
1

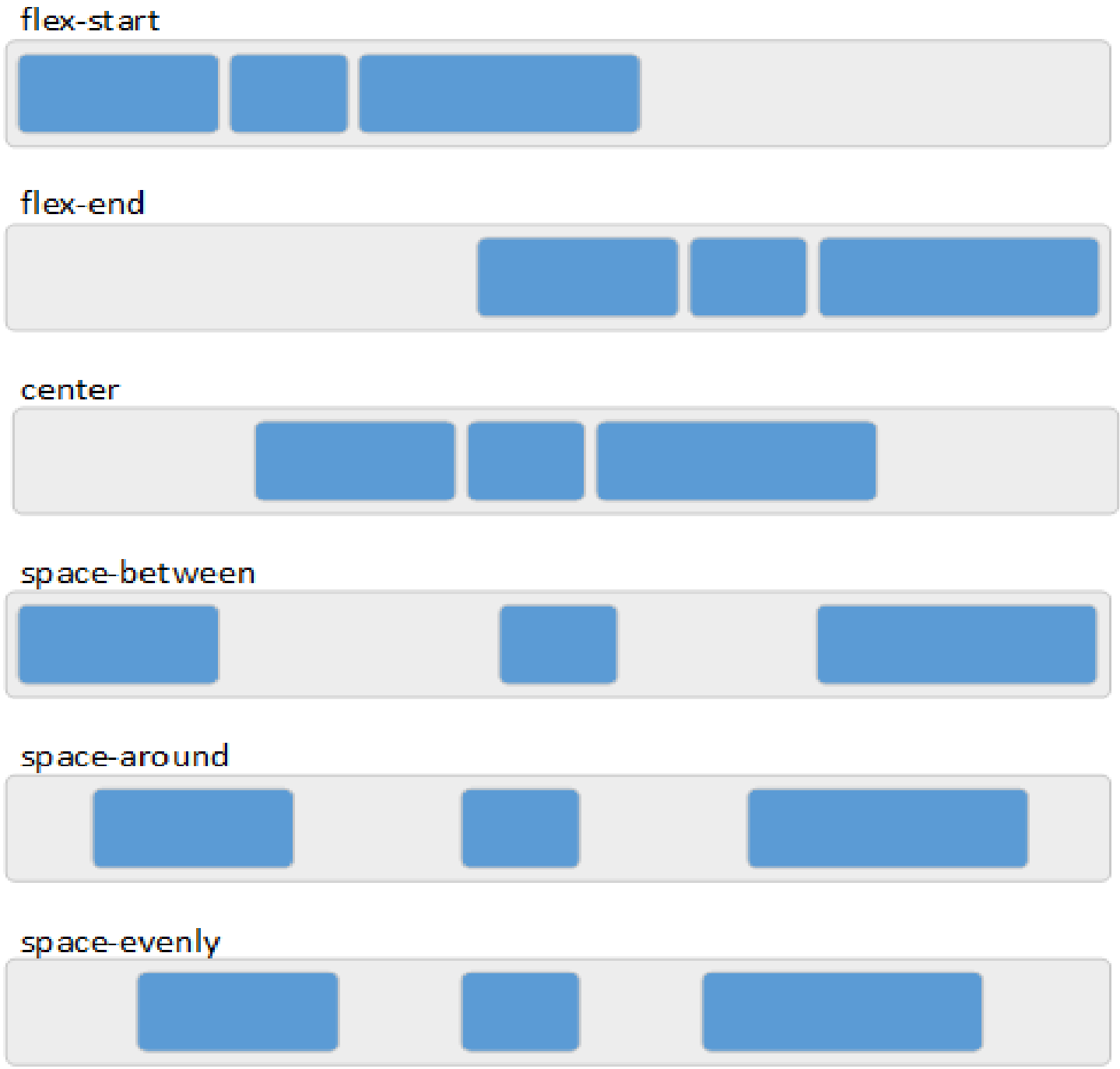
SHORT-HAND NOTATION

Short-hand for the flex-direction **&** flex-wrap

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

flex-direction	Possible values: row row-reverse column column-reverse initial inherit Default value is "row". Specifying the direction of the flexible items
flex-wrap	Possible values: nowrap wrap wrap-reverse initial inherit Default value is "nowrap". Specifying whether the flexible items should wrap or not

JUSTIFY-CONTENT



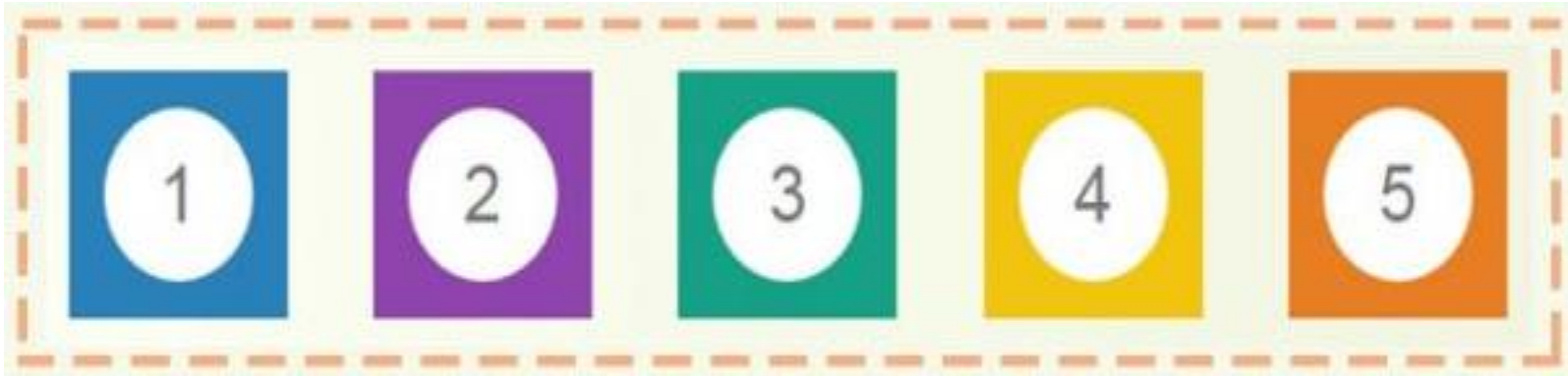
EXAMPLE : JUSTIFY-CONTENT

justify-content: **space-between**

justify-content: **space-around**

JUSTIFY-CONTENT

justify-content: **space-between**
align-items: **center**



JUSTIFY-CONTENT

A column with

justify-content: **space-between**
align-items: **center**

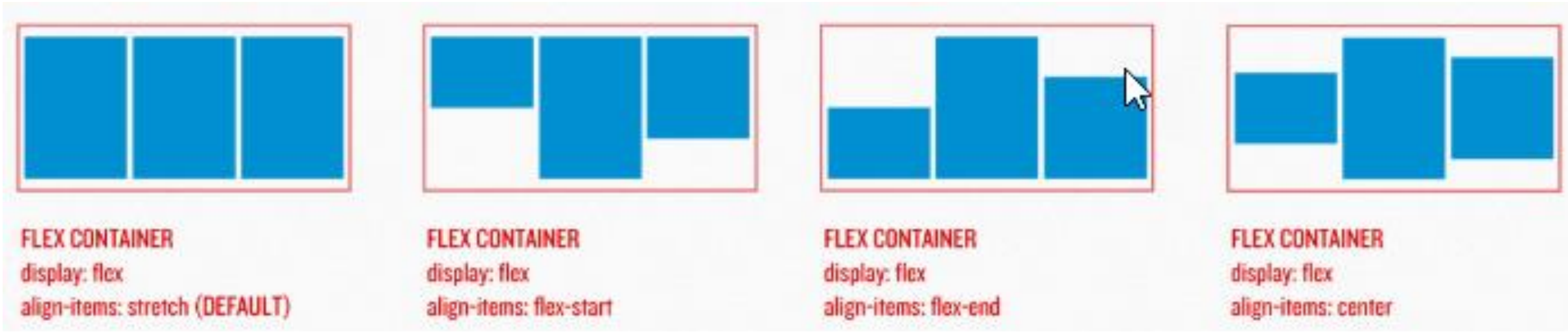
JUSTIFY-CONTENT

justify-content: flex-start;

justify-content: center;

justify-content: flex-end;

ALIGN-ITEMS


FLEX CONTAINER
display: flex
align-items: stretch (DEFAULT)
FLEX CONTAINER
display: flex
align-items: flex-start
FLEX CONTAINER
display: flex
align-items: flex-end
FLEX CONTAINER
display: flex
align-items: center

FLEX GROW: [NUMBER]

FLEX V. INLINE-FLEX

display: flex causes an element to behave like a block-level flex container box.

display: inline-flex causes an element to behave like an inline-level flex container box

REFERENCE