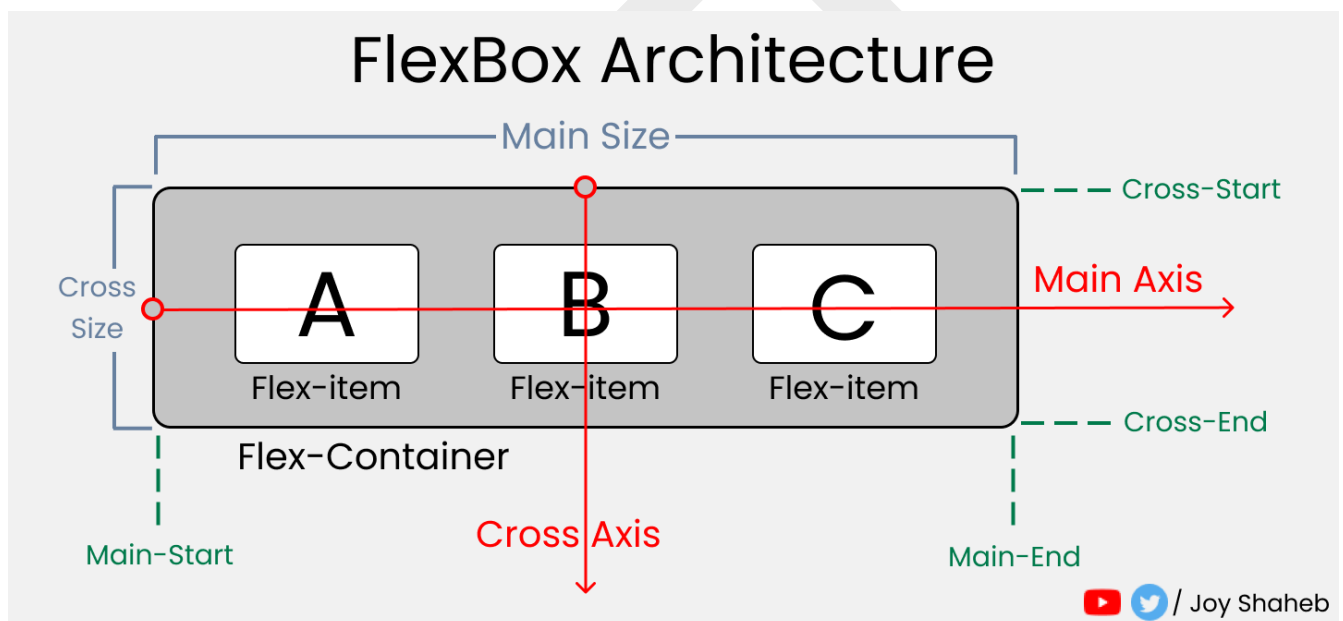


CSS Flexbox Properties

Flexbox Architecture

- So how does Flexbox architecture work? The flex-items [Contents] are distributed along the main axis and cross axis. And, depending on the flex-direction property, the layout position changes between rows and columns.



Flex-direction Property :

- This property allows us to set the direction and orientation in which our flex-items should be distributed inside the flex-container.

flex-direction :

row



row-reverse



column

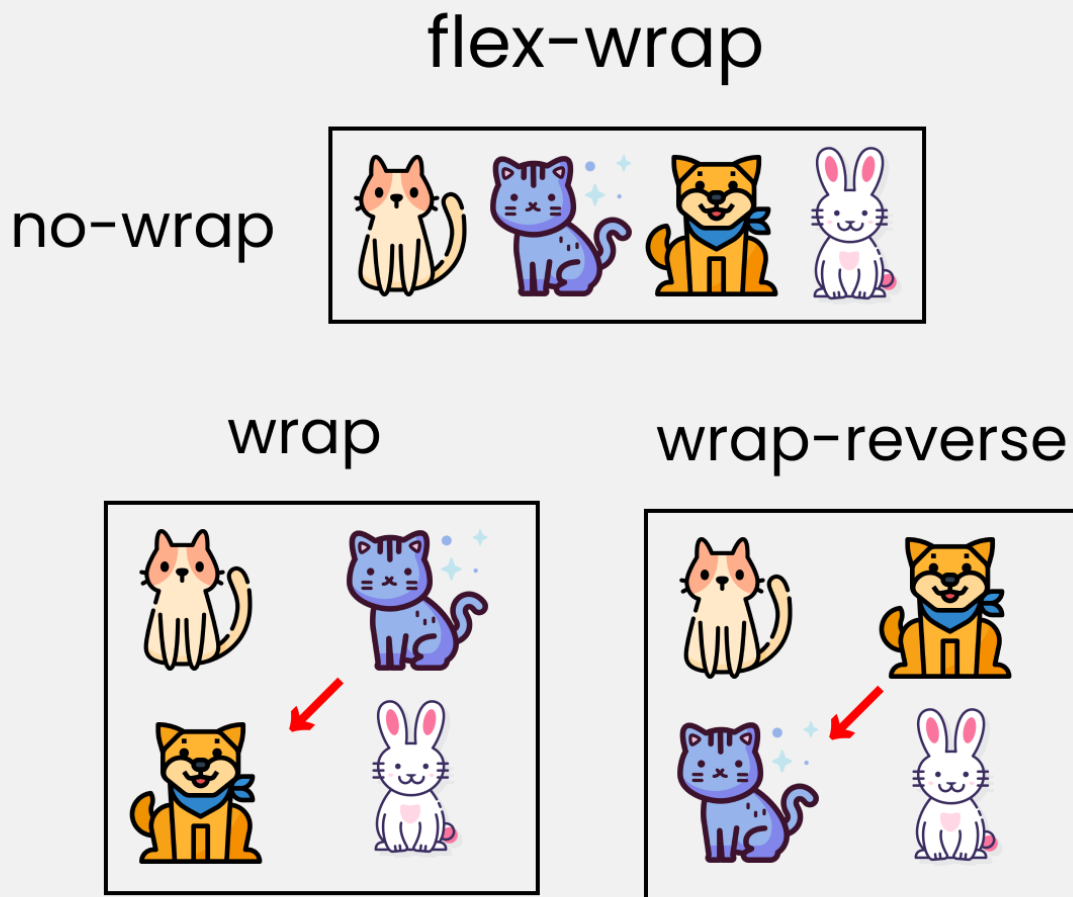
column-reverse

flex-direction



flex-wrap :

- This property helps you set the number of flex-items you want in a line or row.



Justify-content Property :

- This property arranges flex-items along the **MAIN AXIS** inside the flex-container.

justify-content

flex-start



flex-end



center



space-between



space-around



Half Equal Equal Half

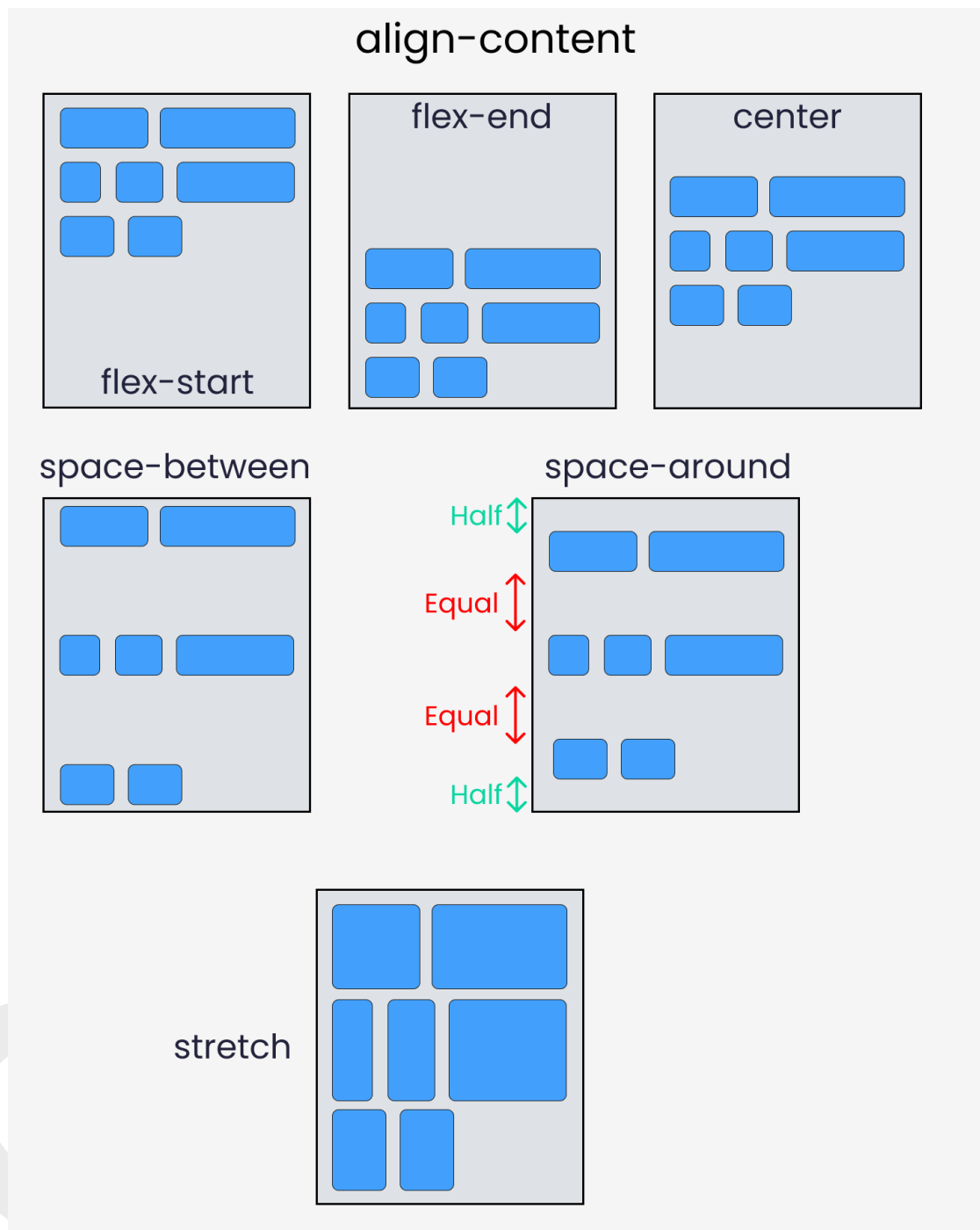
space-evenly



Equal Equal Equal Equal

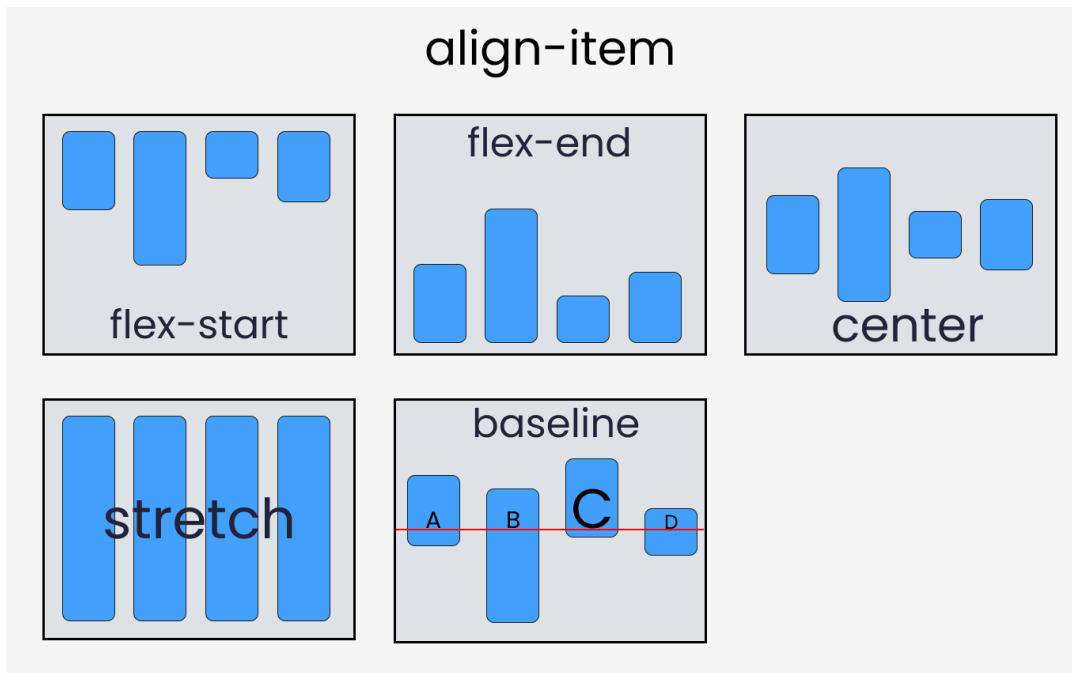
Align-content Property :

- This property arranges flex-items along the CROSS AXIS inside the flex-container. This is similar to justify-content.



+ Align-items Property :

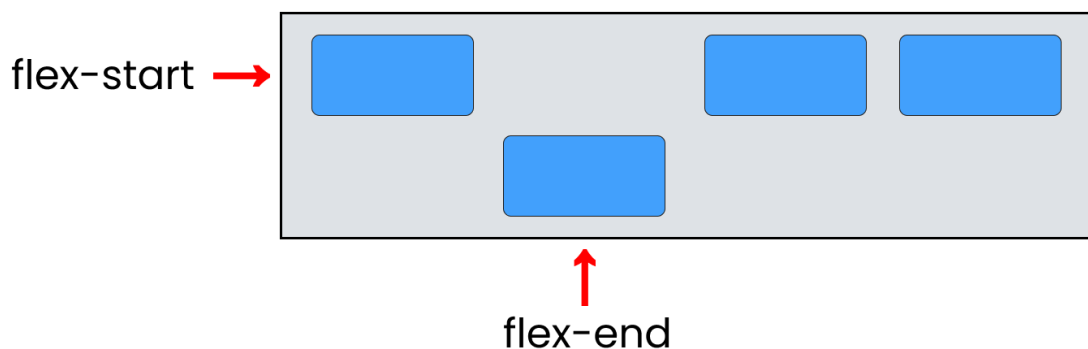
- This property distributes Flex-items along the Cross Axis.



+ Align-self Property :

- This property works on the child classes. It positions the selected item along the **Cross Axis**.

align-self



In total we have 6 values:

flex-start
flex-end

center
baseline

stretch
auto

flex - grow | shrink:

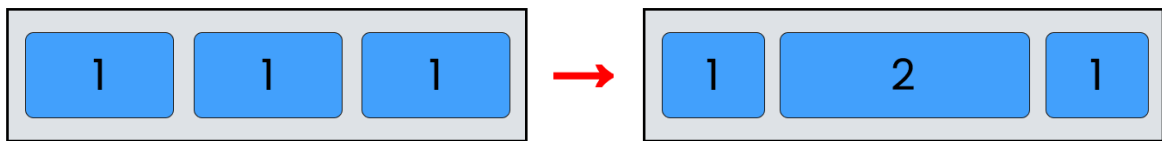
○ flex-grow

- This property grows the size of a flex-item based on the width of the flex-container.

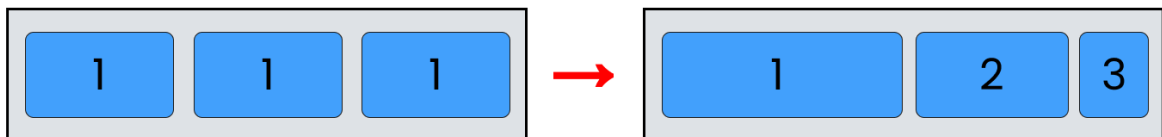
○ flex-shrink

- This property helps a flex item shrink based on the width of the flex-container. It's the opposite of flex-grow.

flex-grow



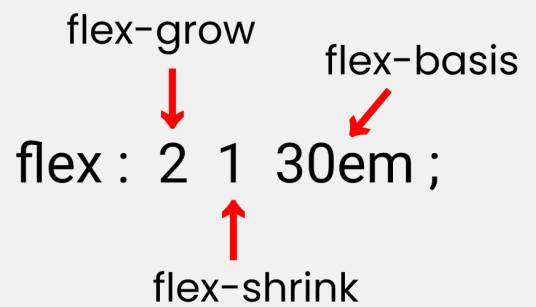
flex-shrink



Shorthand Flexbox Properties

Flex Shorthand:

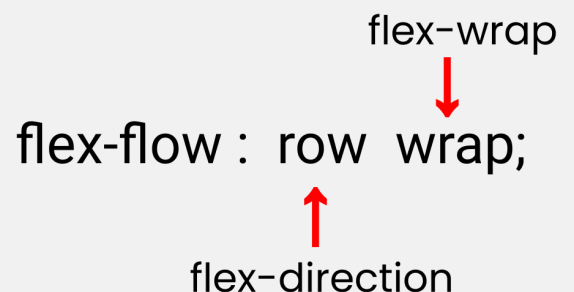
- This is the shorthand for the **flex-grow**, **flex-shrink** and **flex-basis** properties combined.



The diagram shows the shorthand property `flex : 2 1 30em ;`. Red arrows point from the values to their corresponding longhand properties: `flex-grow` points to `2`, `flex-shrink` points to `1`, and `flex-basis` points to `30em`.

Flex-flow:

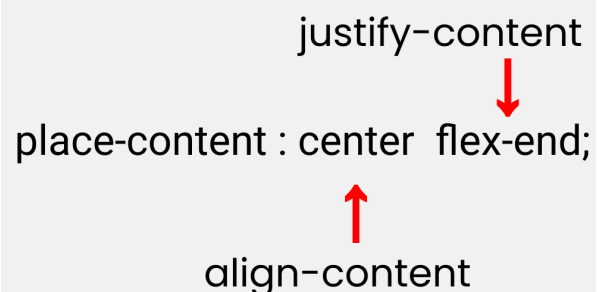
- This is the shorthand for the **flex-direction** and **flex-wrap** properties:



The diagram shows the shorthand property `flex-flow : row wrap ;`. Red arrows point from the values to their corresponding longhand properties: `flex-direction` points to `row` and `flex-wrap` points to `wrap`.

Place-content:

- This is the shorthand for the **justify-content** and **align-content** properties:



The diagram shows the shorthand property `place-content : center flex-end ;`. Red arrows point from the values to their corresponding longhand properties: `align-content` points to `center` and `justify-content` points to `flex-end`.

Reference Links:

- <https://yoksel.github.io/flex-cheatsheet/>
- <https://flexbox.malven.co/>
- <https://flexboxfroggy.com/>