

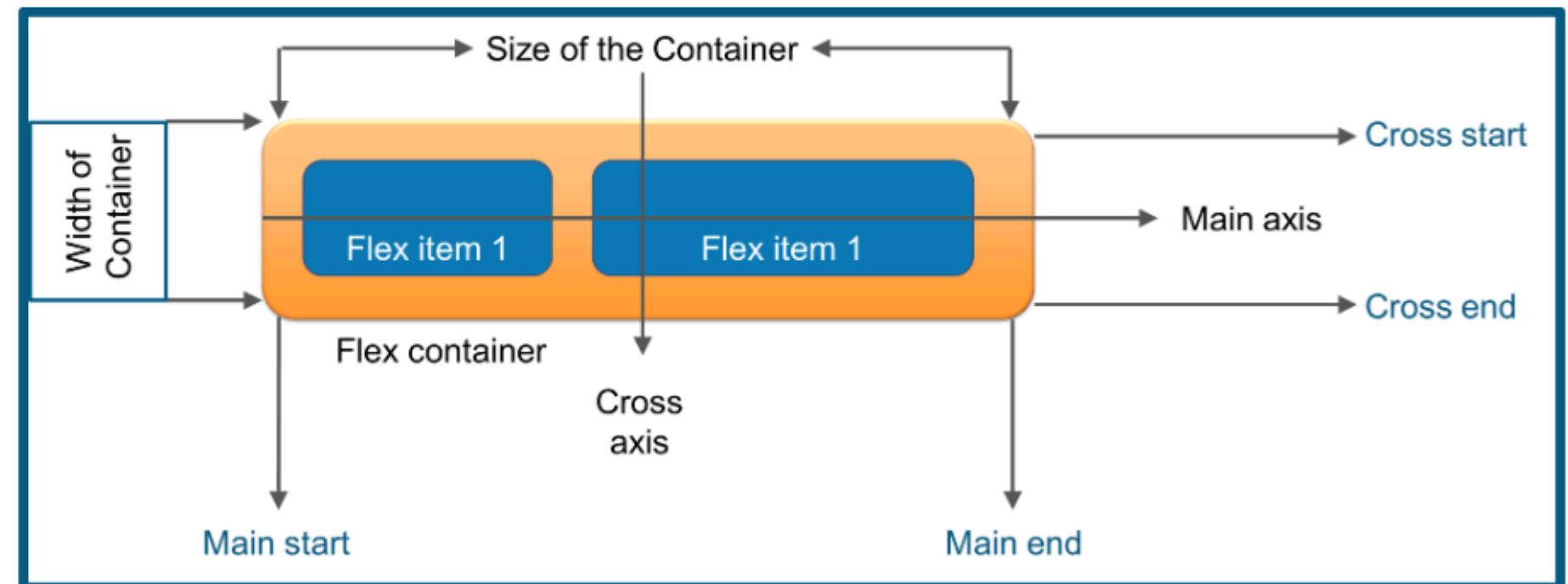


Flexbox and Grid : Way to Create Interactive and Responsive Web Layouts

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Flexbox Model

- A one-dimensional layout system that operates a container's horizontal (row) or vertical (column) axis, allowing for flexible, predictable alignment of elements within that container.
- It provides a more intuitive and efficient way to handle complex layouts than traditional CSS layout techniques.
- It is a versatile layout system that simplifies the design of web layouts, particularly in cases where precise control over element positioning, alignment, and responsiveness is required.



Flex-Container Properties

Property	Description
flex-direction	It defines the direction of the items in the flex container. It can be aligned either horizontally or vertically. By default, the items are aligned horizontally.
flex-wrap	It defines whether the items are wrapped to the following line or not. The default value of flex-wrap is no wrap.
justify-content	It defines the horizontal alignment of the items in the flex-container, and whether items will be aligned to the start, center, or end. The default value of justify-content is flex-start.
align-items	It defines the vertical alignment of the items in the flex-container, and whether the items will be aligned to start, center, or end. The default value of align-items is flex-start.

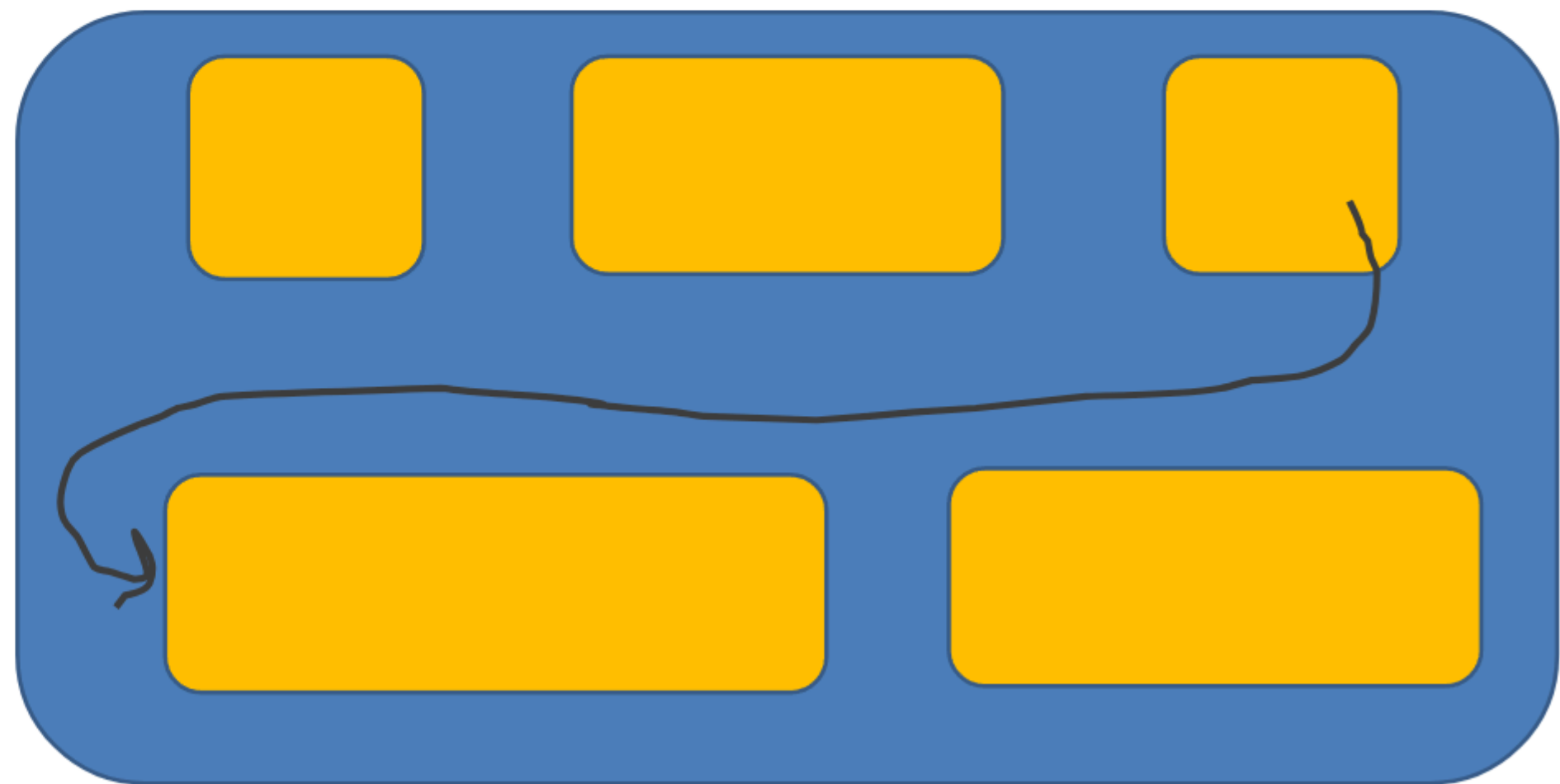
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flex-wrap: value;

The flex-wrap value helps make the items of the flex-container be wrapped or unwrapped, using the wrap or no wrap values. The default value is no wrap.

The flex-wrap property accepts the following values:

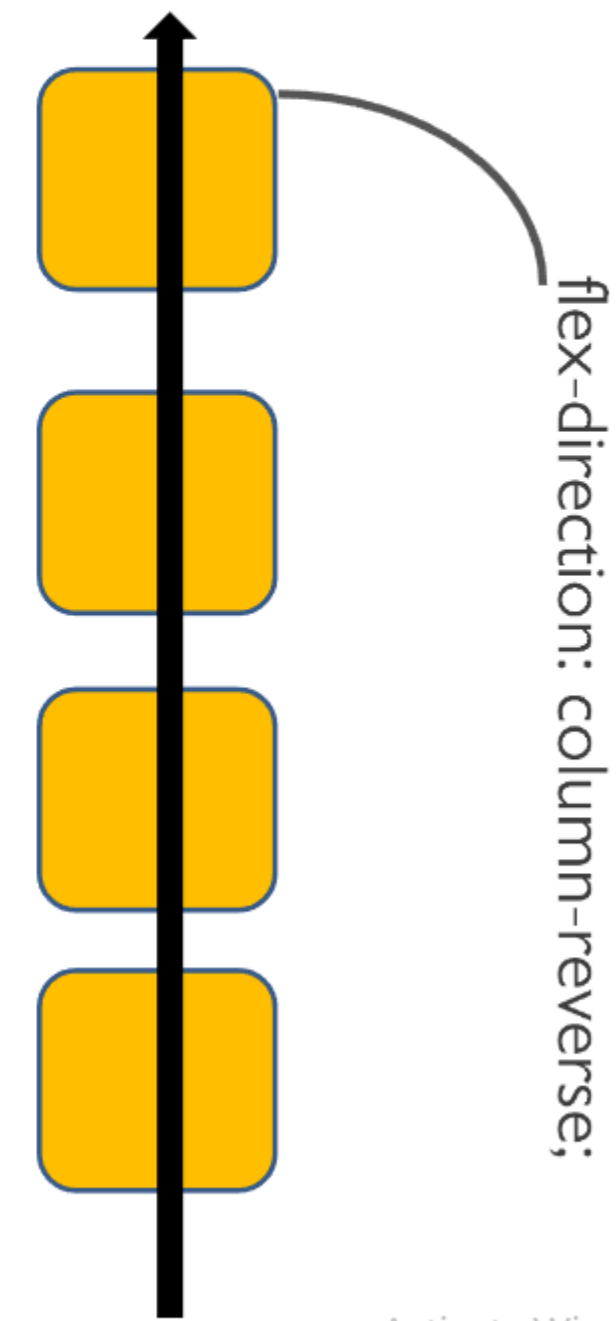
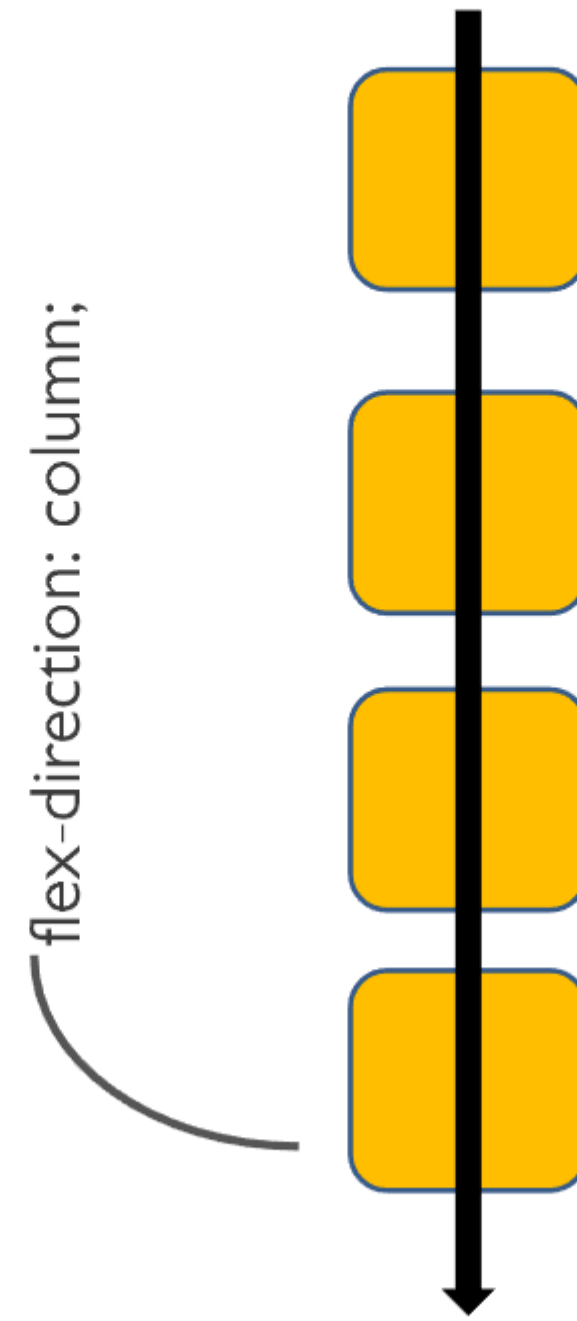
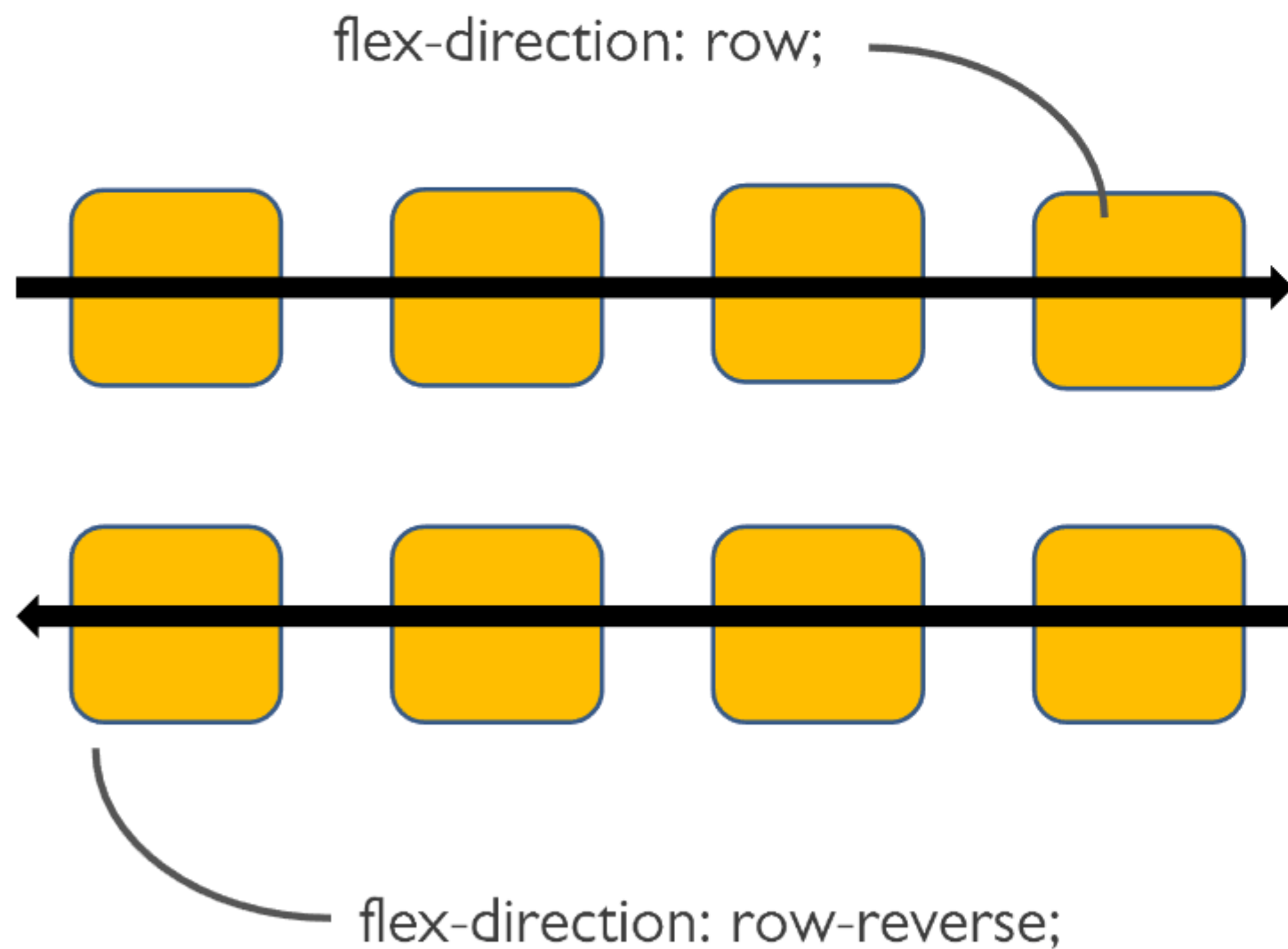
- nowrap (default)
- wrap
- wrap-reverse



flex-direction: wrap;

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flex-direction: value; (contd.)



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justify-content: value;

Justify-content: flex-start;



Justify-content: space-between;



Justify-content: flex-end;



Justify-content: space-around;



Justify-content: center;



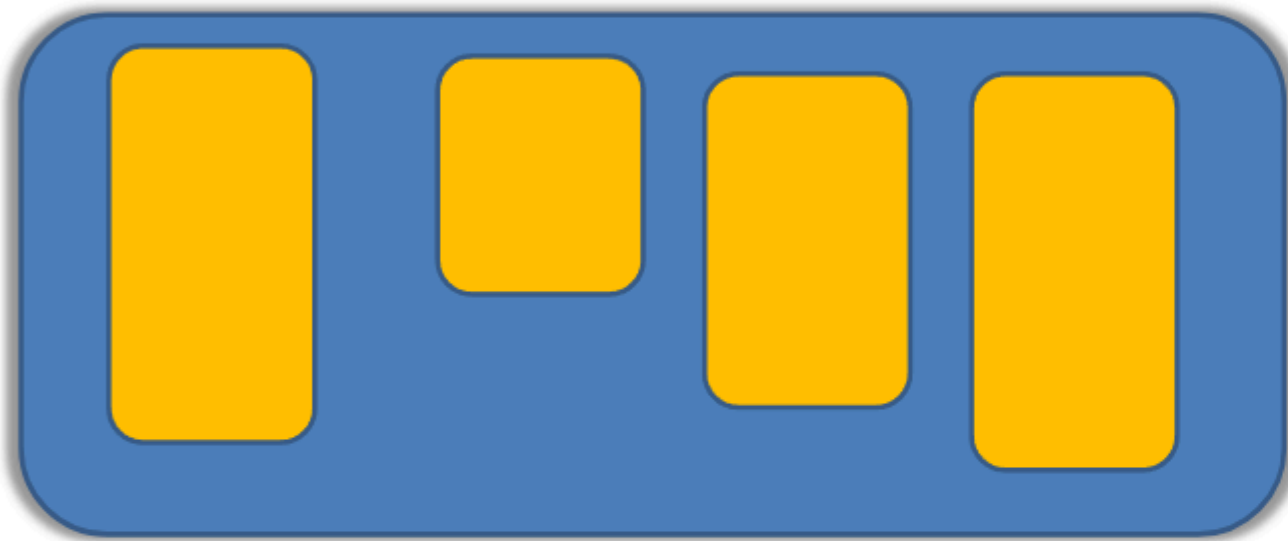
Justify-content: evenly;



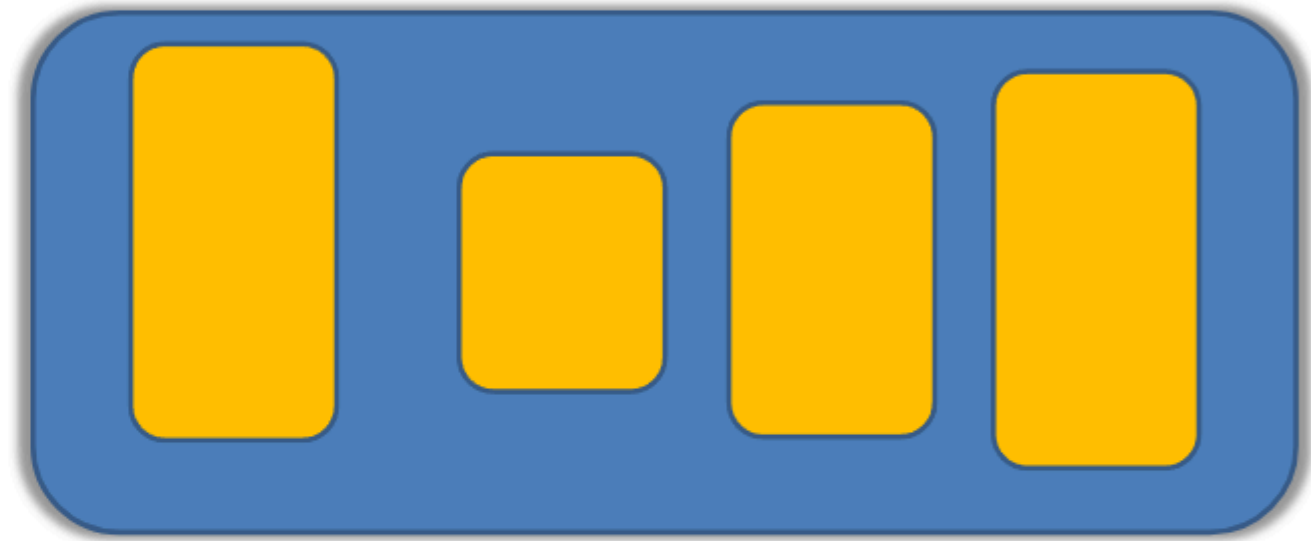
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align-items: value;

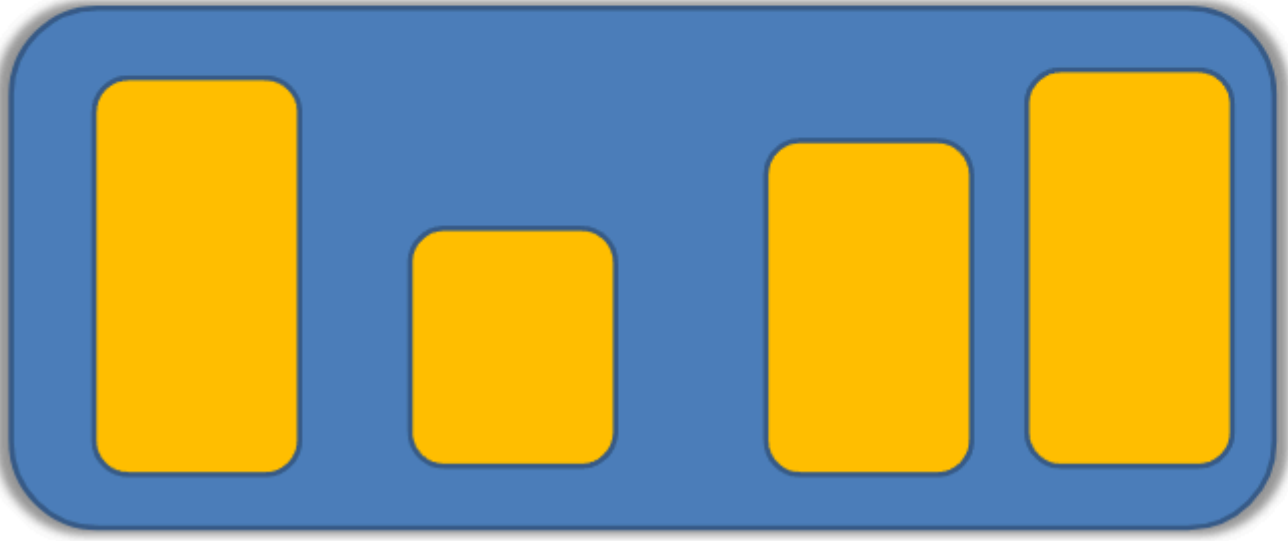
align-items: flex-start;



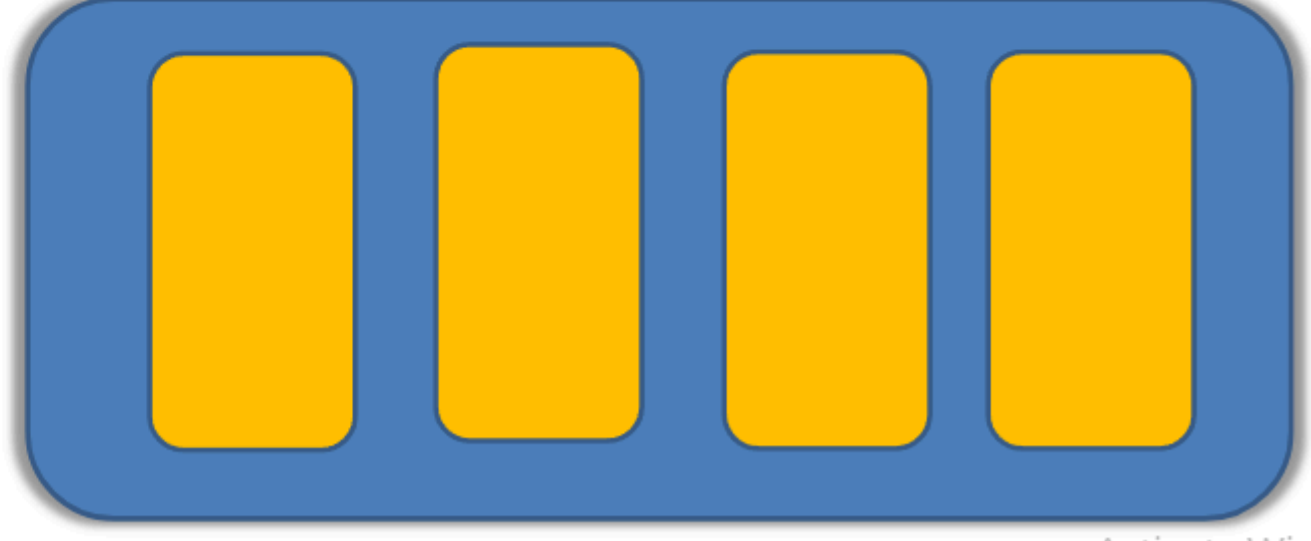
Justify-content: end;



align-items: flex-end;



align-items: stretch;



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Flex - Items Properties

Property	Description
order	All the items inside the flex-container are placed per the source order. However, we can change the order of the items using order property.
flex-grow	It dynamically increases the width of the items, i.e., the width of the items inside the flex-container can increase, if we apply flex-grow property.
align-self	It allows you to override the value of align-items for individual items of the flex-container.

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order:value;

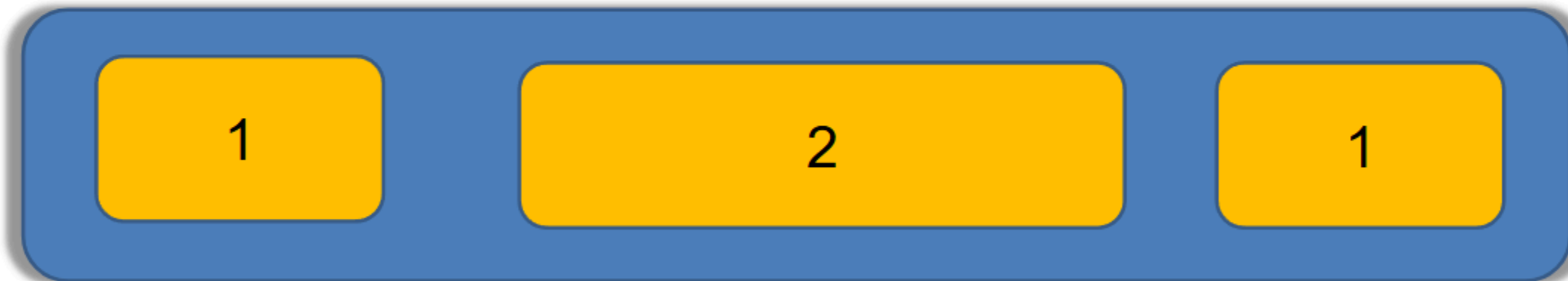


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flex-grow: value;



Default flex-grow

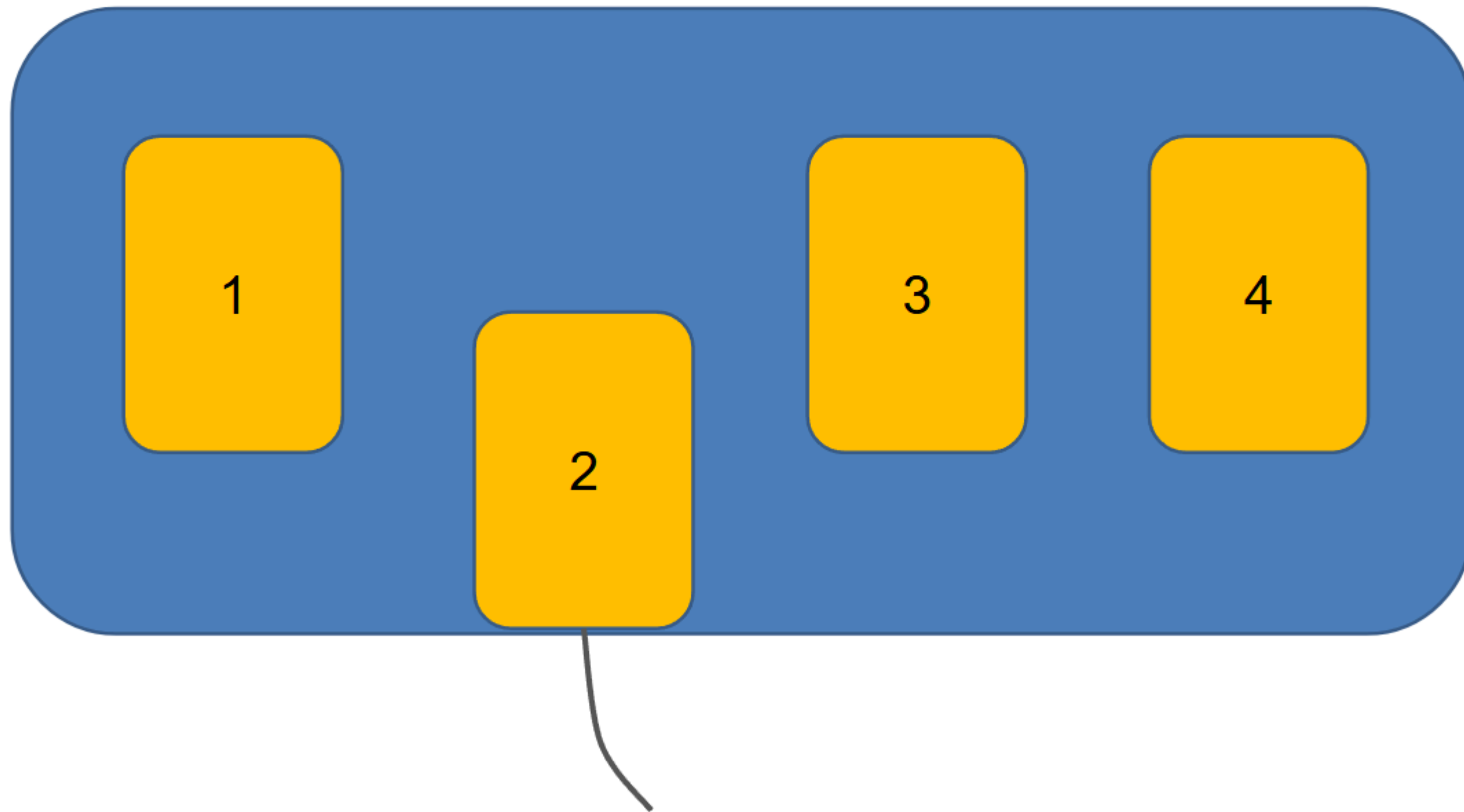


Here flex-grow is applied for the center item as flex-grow:2;

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align-self: value;

Here align-self: flex-end; has been applied for item-2



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