

Flexbox Tutorial

Deep dive into the concepts of CSS Flexbox



Find the slides at: theleanprogrammer.com/flexbox-boilerplate



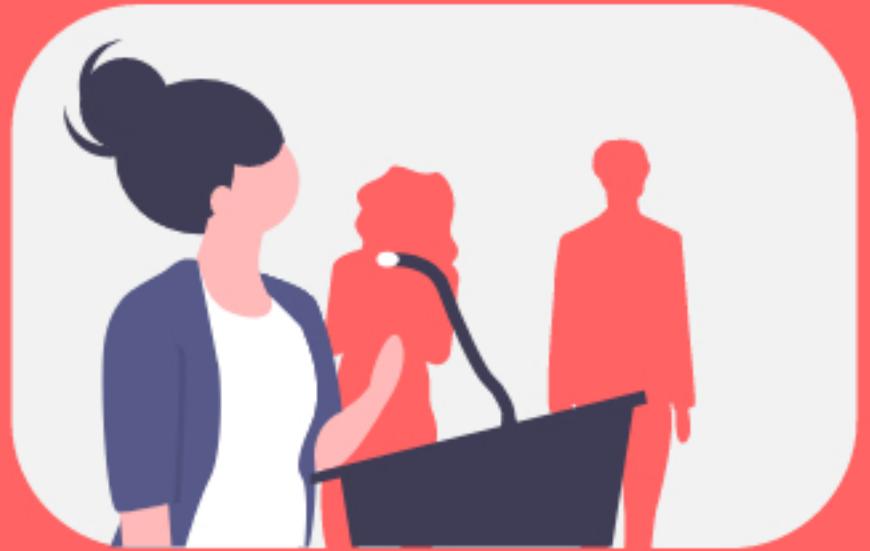
Today's Agenda

1. Two axes of flexbox
2. Parent Element - Flex Container
 1. Flex direction
 2. Justify content
 3. Align Items
 4. Flex Wrap & Flex Flow
 5. Align Content
3. Child Elements - Flex Items
 1. Order
 2. Align self
 3. Flex grow
 4. Flex Shrink
 5. Flex basis
 6. Flex

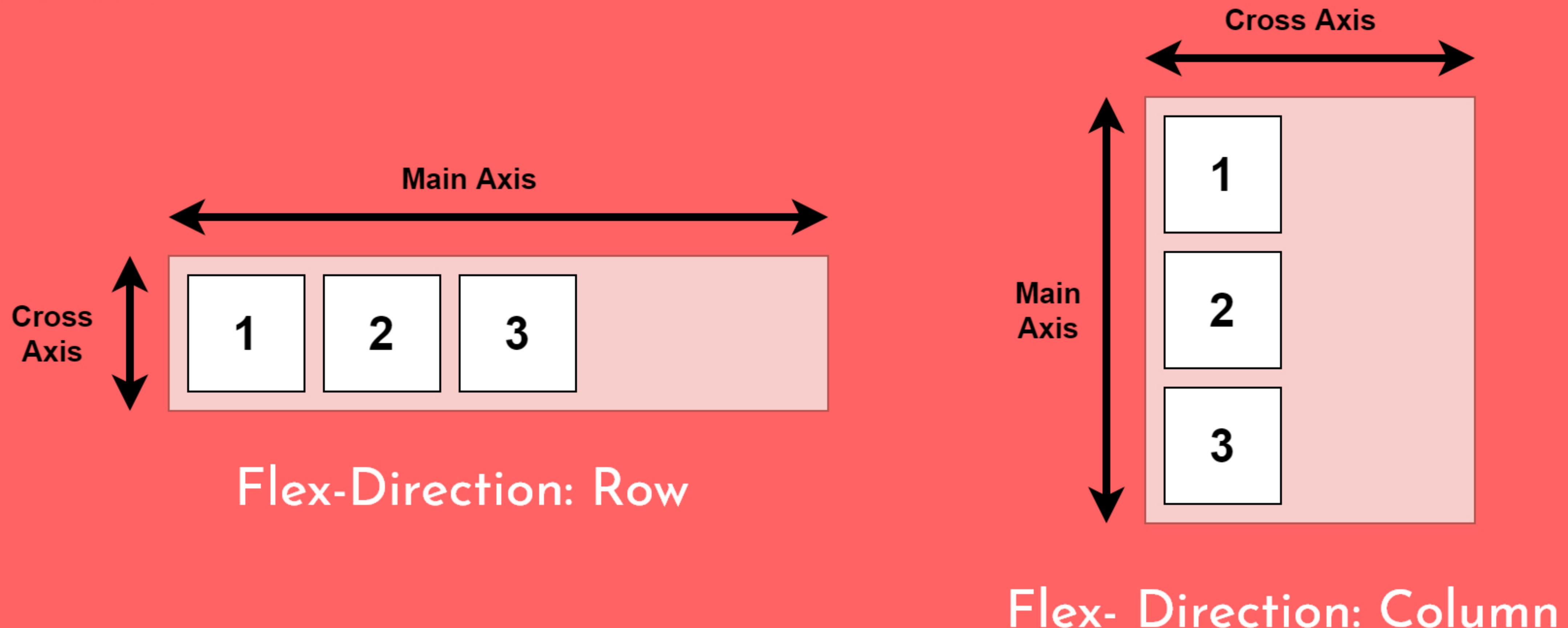


Part 1

Flexbox Axes



Flexbox Axes





Section 2 - Parent element

Flex container



Flex container properties...

1. Flex direction
2. Justify content
3. Align Items
4. Flex Wrap & Flex Flow
5. Align Content

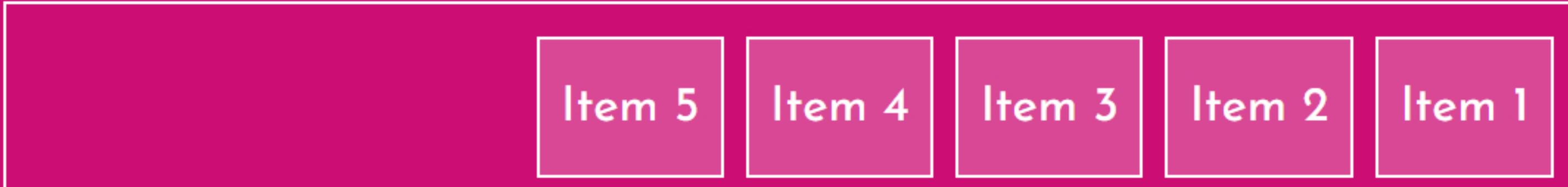


Flex Direction

flow-direction: row



flow-direction: row-reverse





Flex Direction

`flow-direction: column`

Item 1

Item 2

Item 3

Item 4

Item 5



Flex Direction

`flow-direction: column`

Item 5

Item 4

Item 3

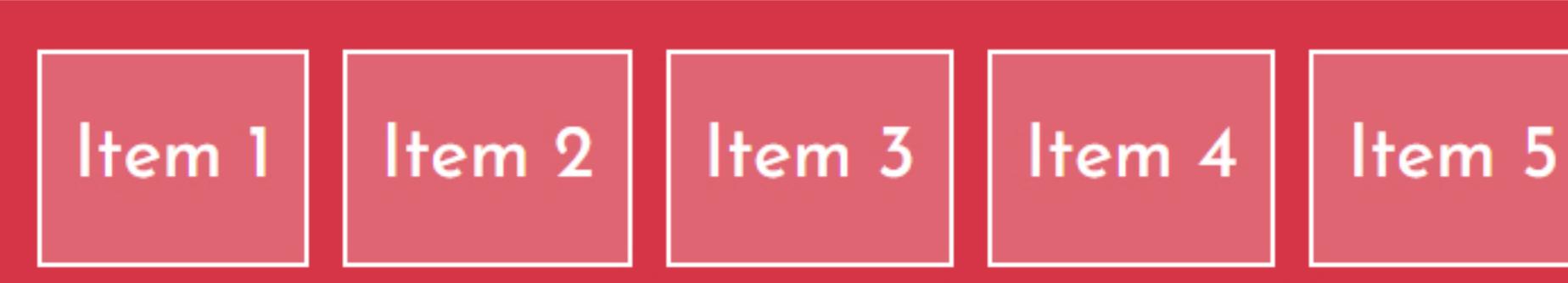
Item 2

Item 1

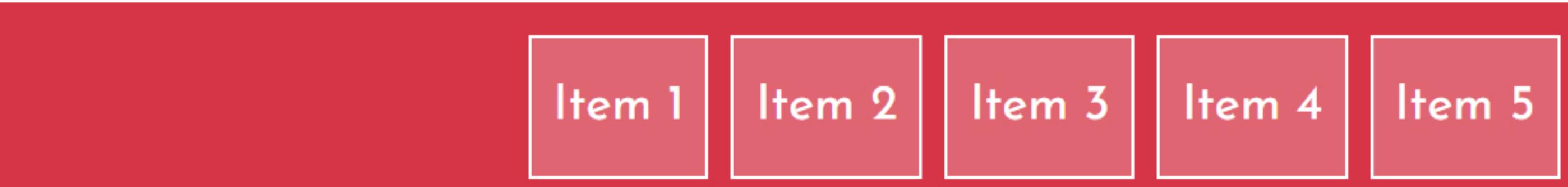


Justify Content

justify-content: flex-start



justify-content: flex-end





Justify Content

justify-content: center

Item 1 Item 2 Item 3 Item 4 Item 5

justify-content: space-around

Item 1 Item 2 Item 3 Item 4 Item 5



Justify Content

justify-content: space-between





Align Items

`align-items: flex-start`



`align-items: flex-end`





Align Items

`align-items: center`

Item 1 Item 2 Item 3 Item 4 Item 5

`align-items: stretch`

Item 1 Item 2 Item 3 Item 4 Item 5



Align Items

`align-items: baseline`





Flex Wrap

flex-wrap: nowrap



flex-wrap: wrap





Flex Wrap

flex-wrap: wrap-reverse





Align Content

align-content: flex-start

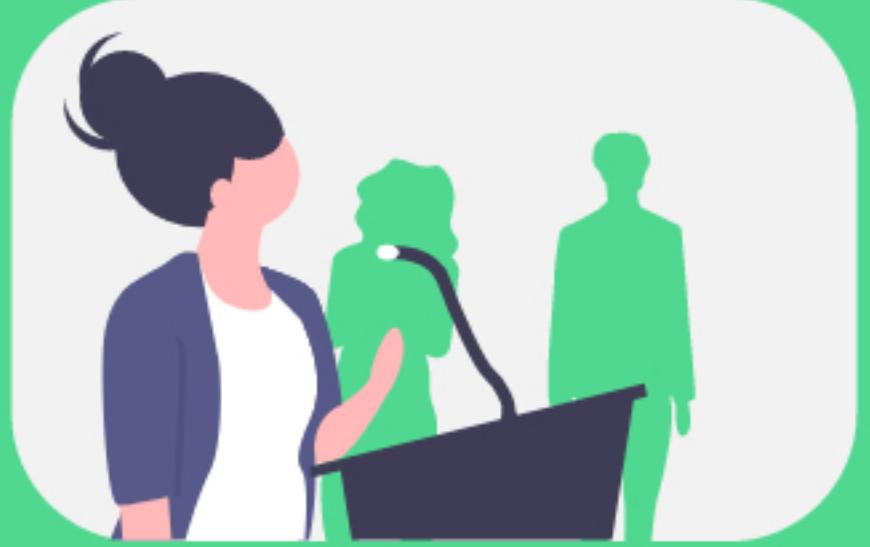




Align Content

`align-content: flex-end`

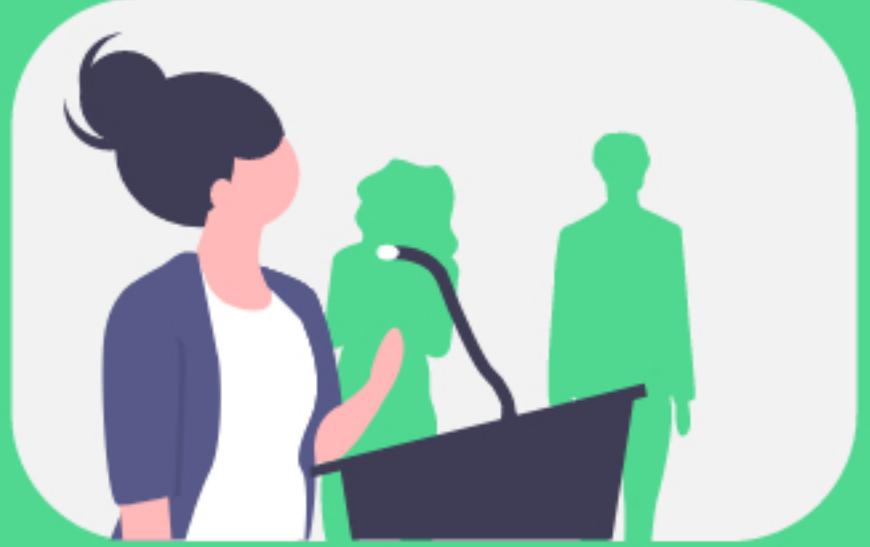




Align Content

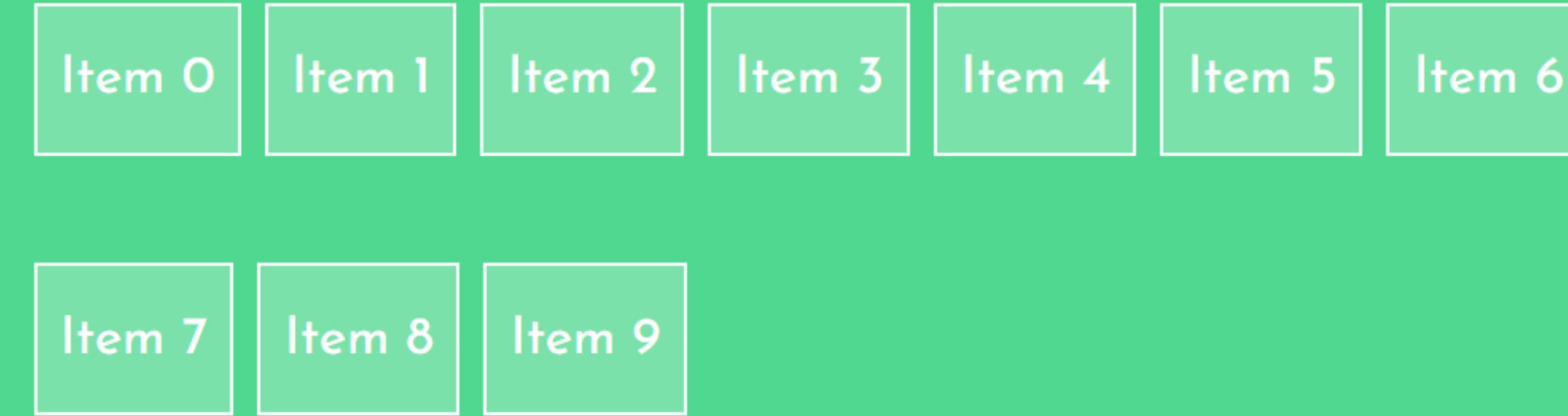
align-content: center

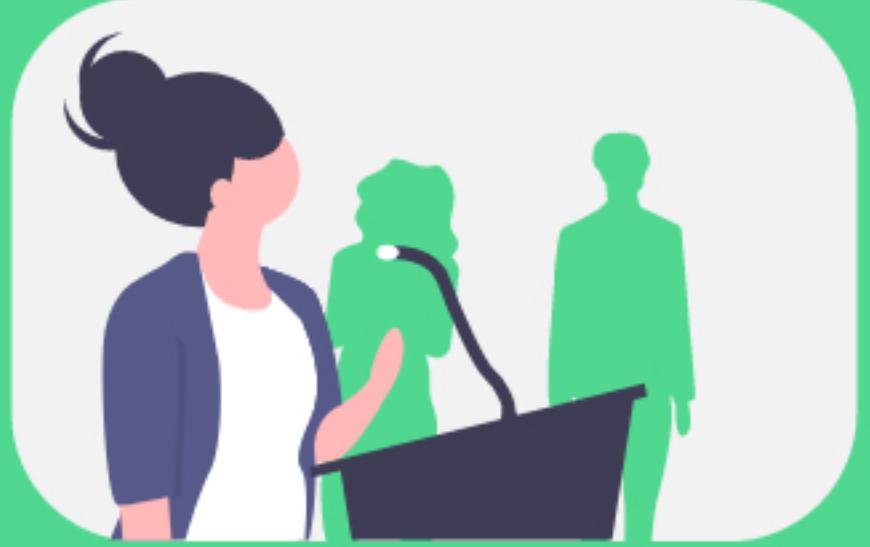




Align Content

align-content: space-around

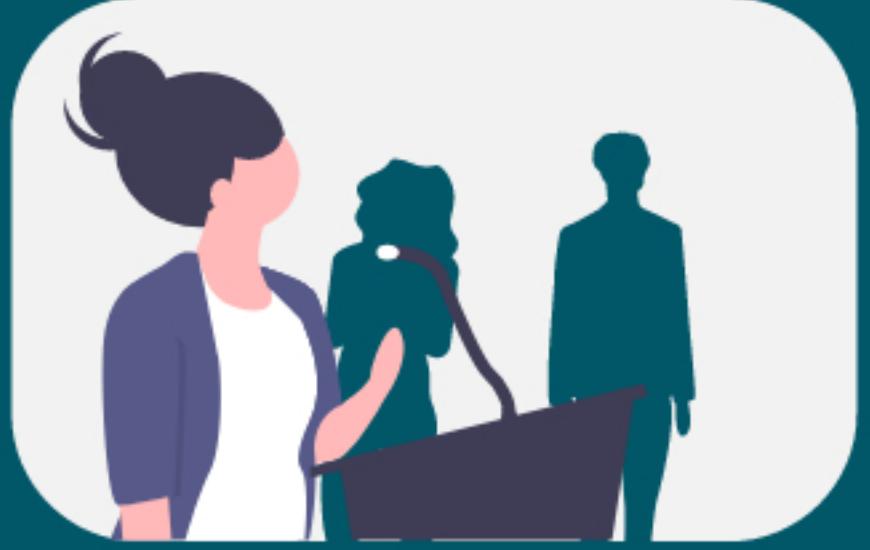




Align Content

align-content: space-between





Part 3 - Child Elements

Flex items

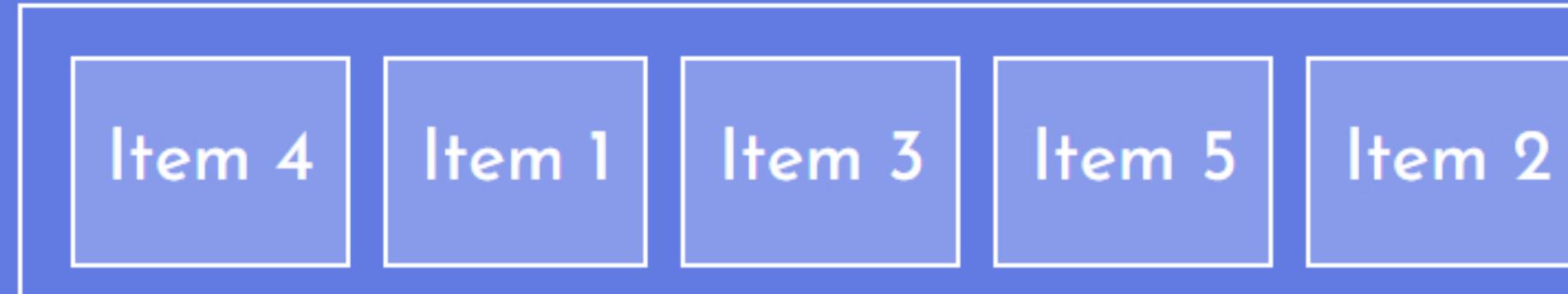


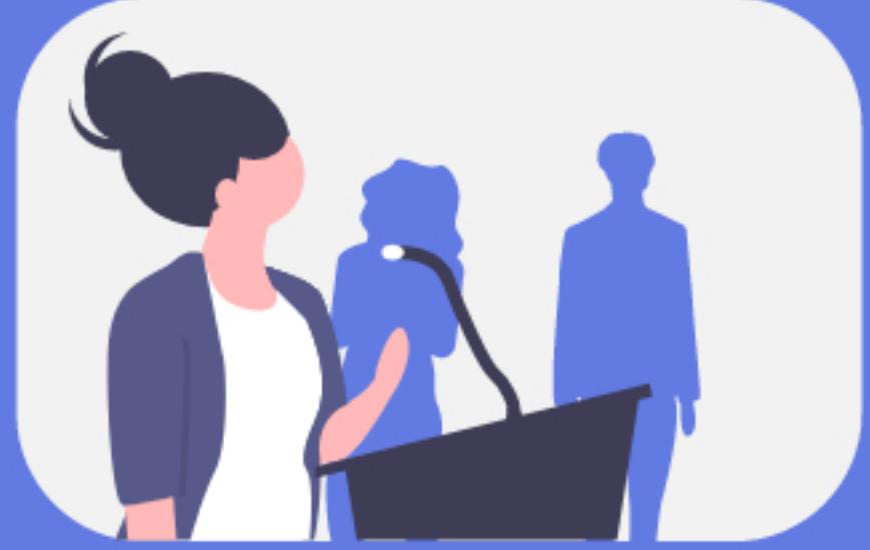
Order

all items have order 0



Item 2 has order 1 & Item 4 has order -1





Order

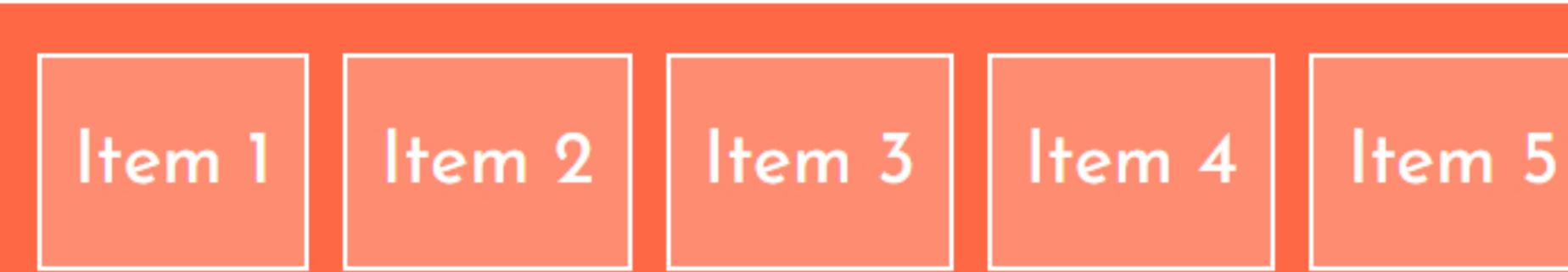
Item 1 has order 1 & Item 2 has order 2

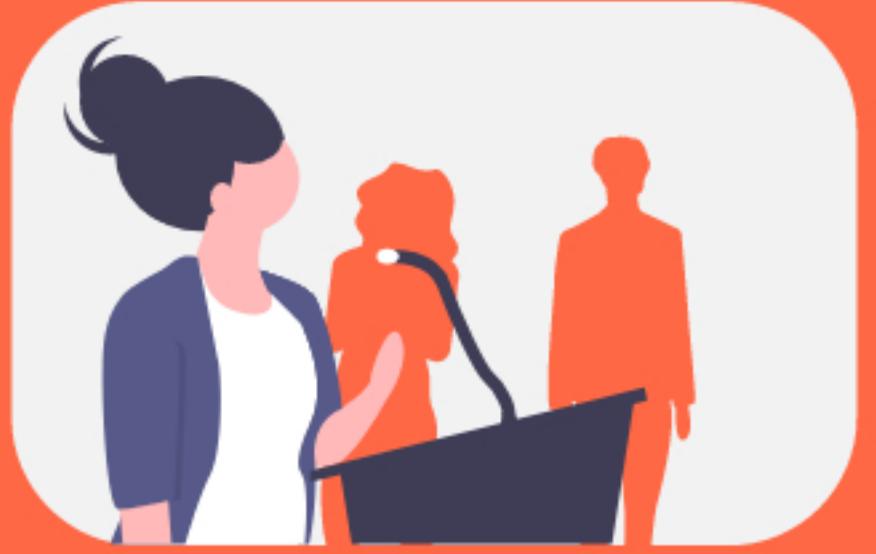




Align Self

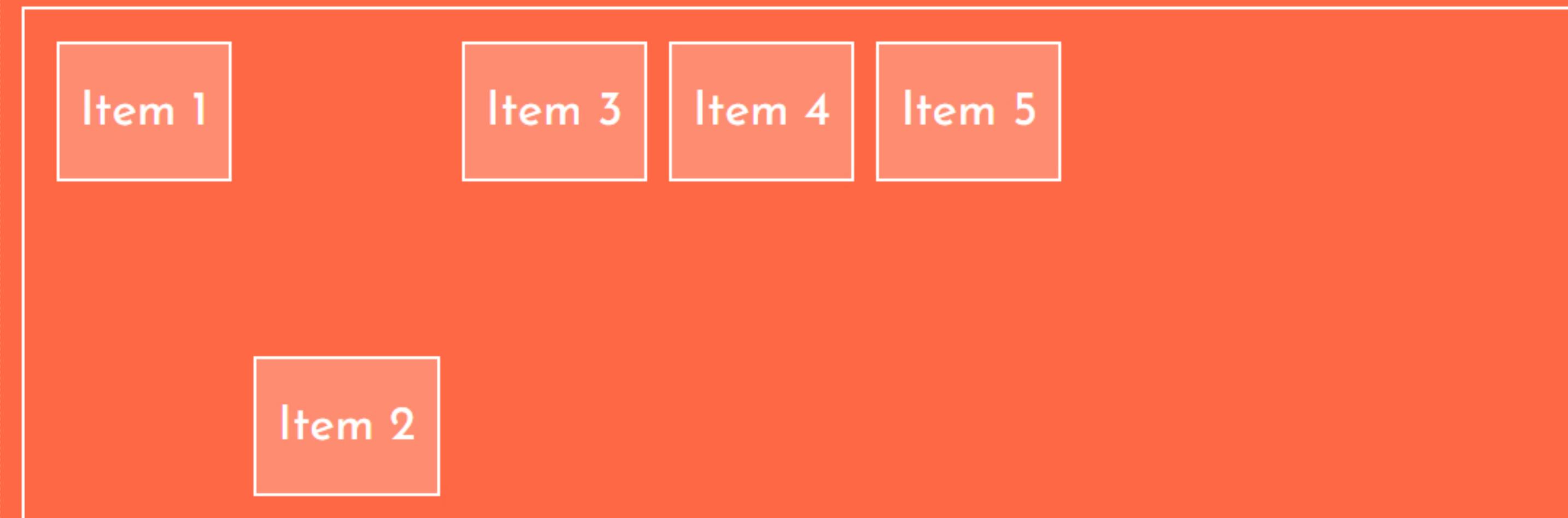
Item 2 is aligned "flex-start"

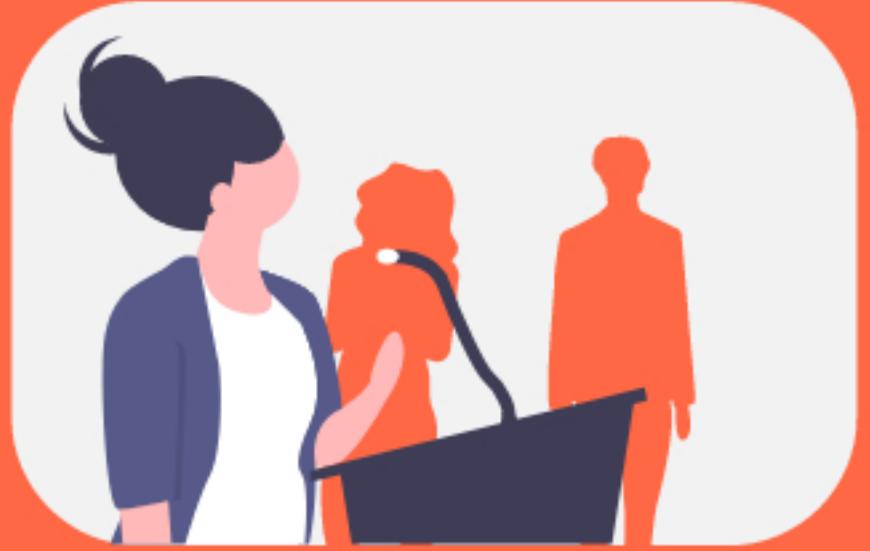




Align Self

Item 2 is aligned "flex-end"





Align Self

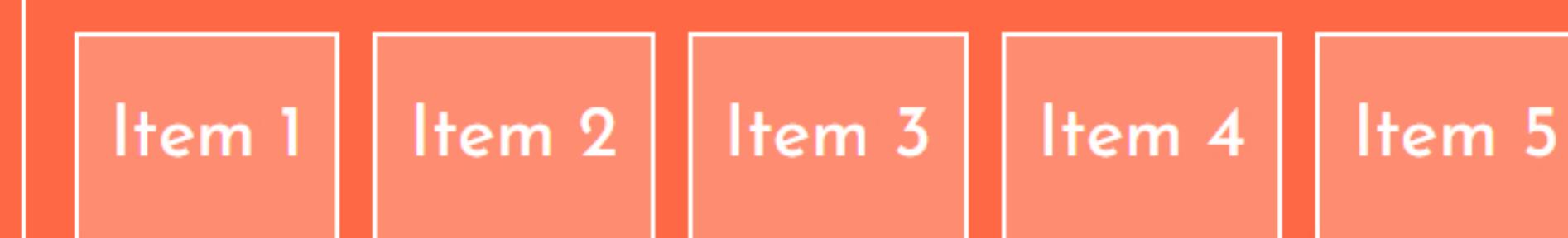
Item 2 is aligned "center"

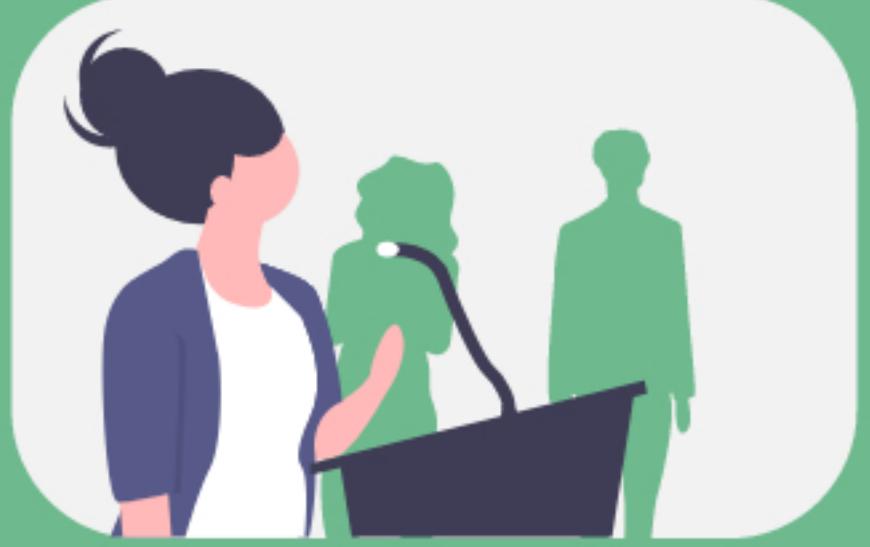




Align Self

Item 2 is aligned "stretch"



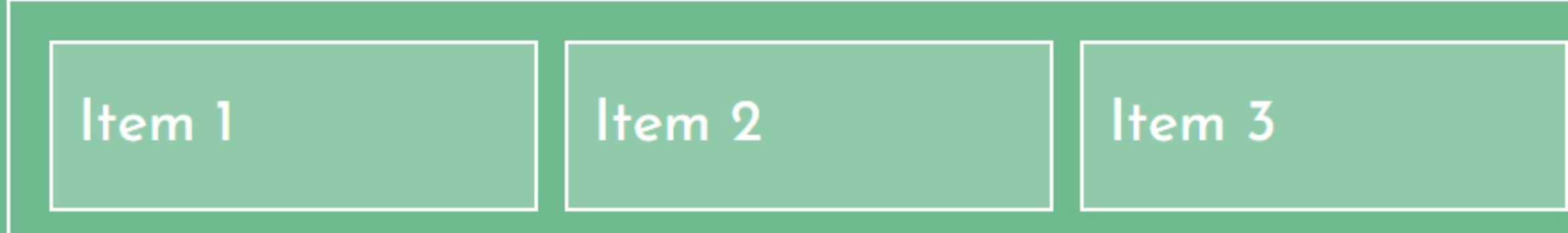


Flex Grow

All items have flex grow 0



All items have flex grow 1

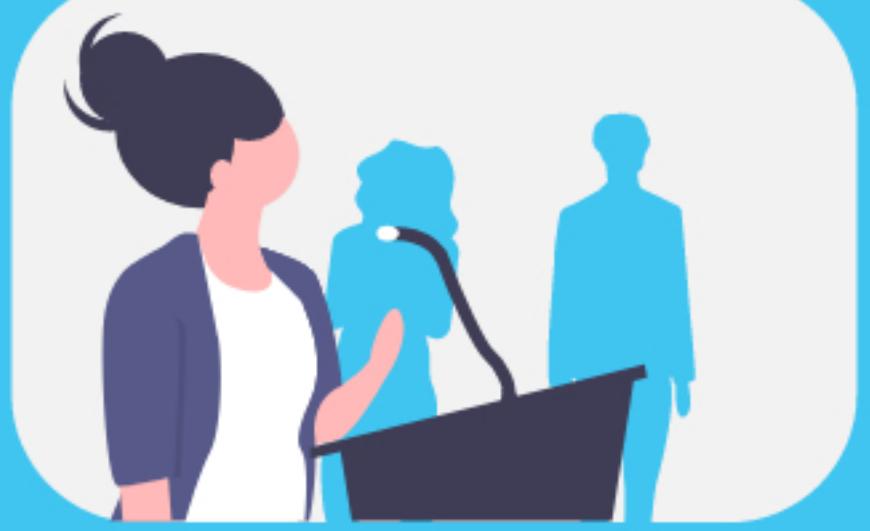




Flex Grow

Item 1 & 2 has 1, Item 3 has 4



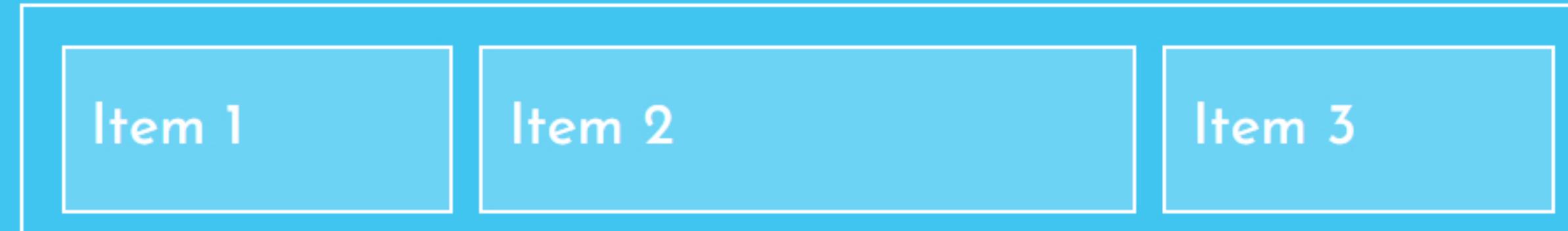


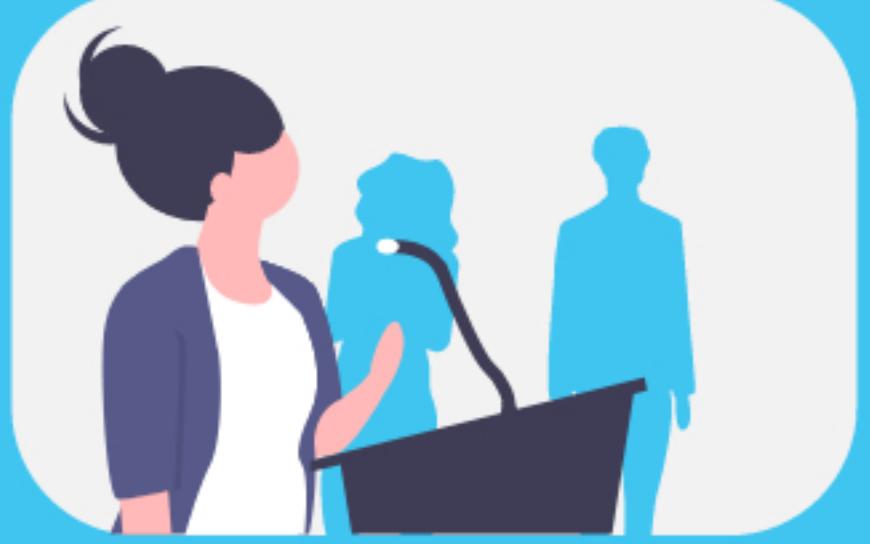
Flex Shrink

All items have flex shrink 1 (default)



Do not let item 2 shrink





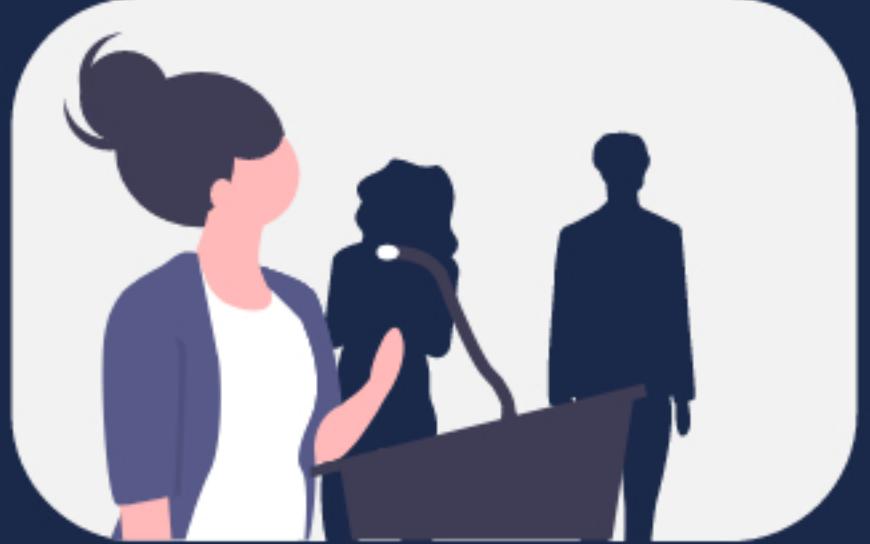
Flex Shrink

Item 2 is allowed to shrink more than 1, and 3 is allowed to shrink more than 2

Item 1

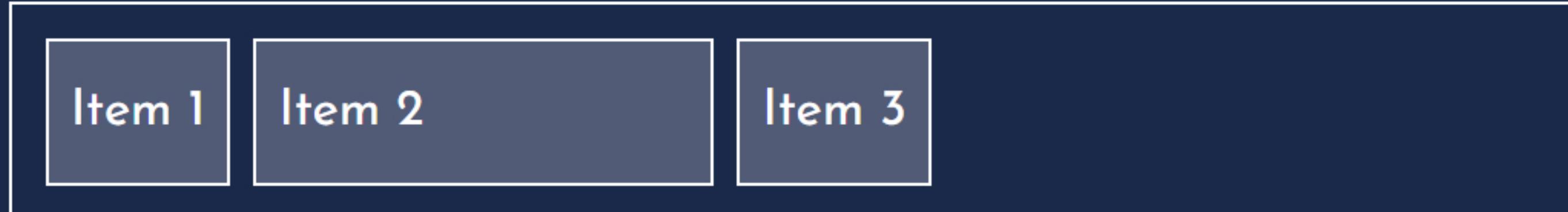
Item 2

Item 3



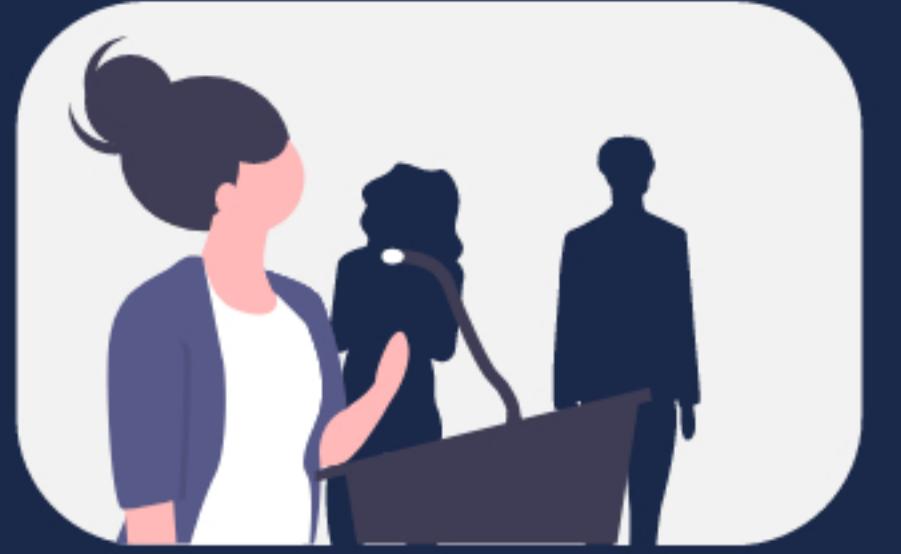
Flex Basis

Item 2 has width of 200px. flex-basis: 200px;



All items have initial width of 33% - flex-basis: 33%;



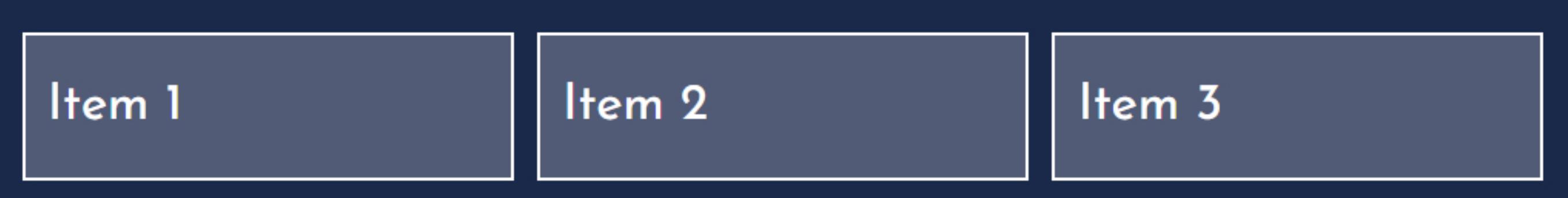


Flex

Everything default - flex: 0 1 auto;



flex: 1 1 25%





<http://theleanprogrammer.com/flex/>

See it in action!