- Floats

- let us horizontally position block elements
- originally developed to implement Magazinstyle layouts
- floating text around images
- creating layouts was more of a side-effect,
 e.g. "hacked" layouts
- no holistic approach to design a whole layout
- not possible to vertically align items



ALIGNMENT







DIRECTION



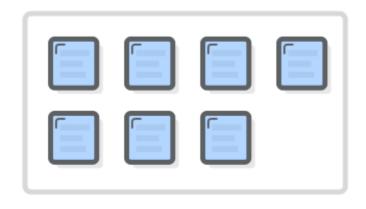
ORDER SIZE

- Flexboxes

- contain of two types: flexitems and flex containers



"FLEX CONTAINER"



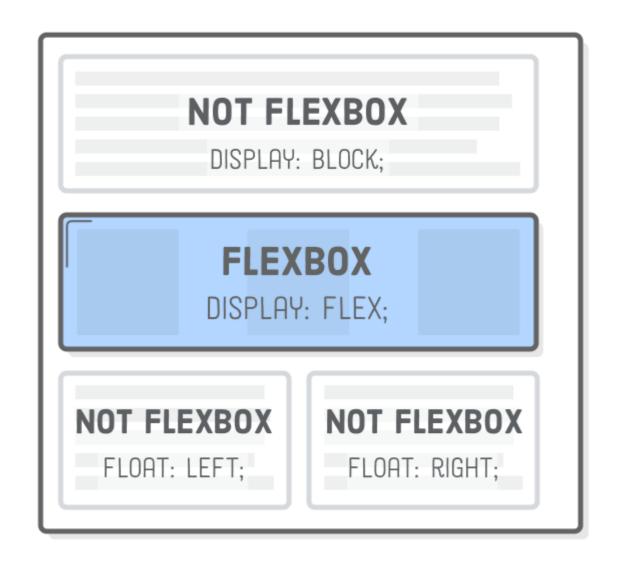
"FLEX ITEMS"

- Flexitems

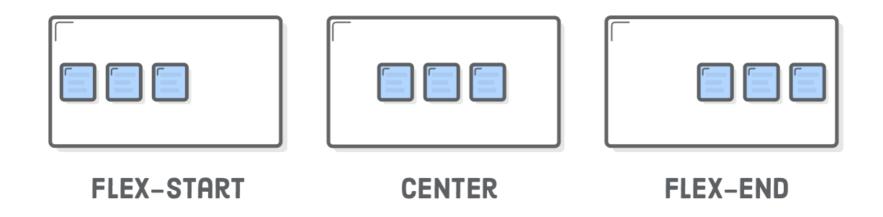
- child of a flex container
- main purpose: let container know the number of items to arrange

- Flexcontainer

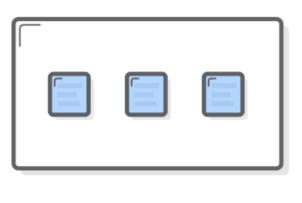
- determine the layout of the flex items



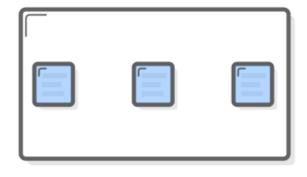
Vertical Alignment of Flex Items



Vertical Alignment of Flex Items

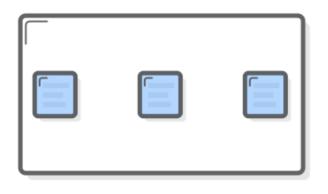


SPACE-AROUND



SPACE-BETWEEN

Vertical Alignment of Flex Items



NO GROUPING

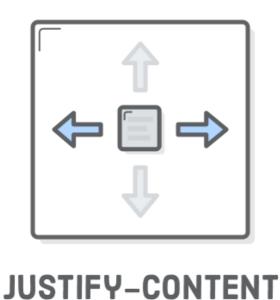
(3 FLEX ITEMS)

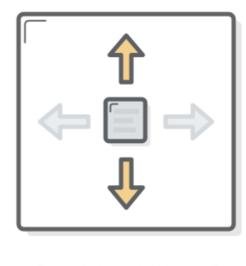


GROUPED ITEMS

(2 FLEX ITEMS)

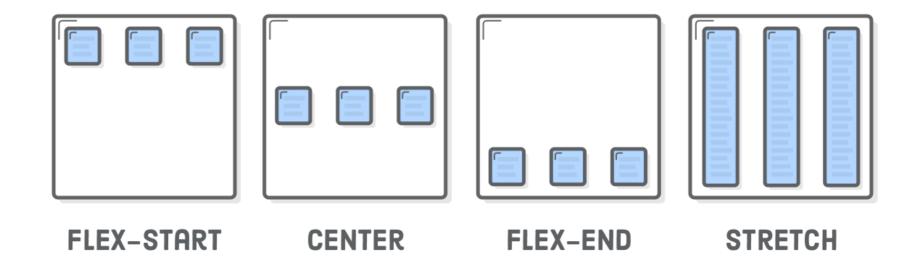
Horizontal Alignment of Flex Items



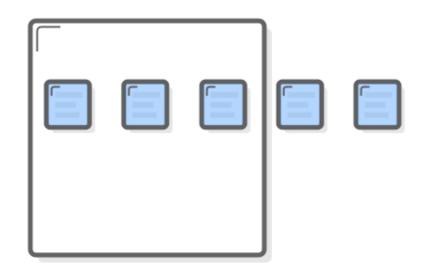


ALIGN-ITEMS

Horizontal Alignment of Flex Items



Wrapping Flex Items



NO WRAPPING

FLEX-WRAP: NOWRAP;



WITH WRAPPING

FLEX-WRAP: WRAP;

Flex Container Direction



FLEX-DIRECTION: ROW;

ROW

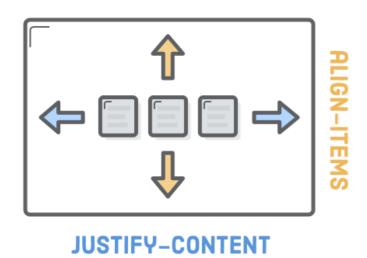


COLUMN

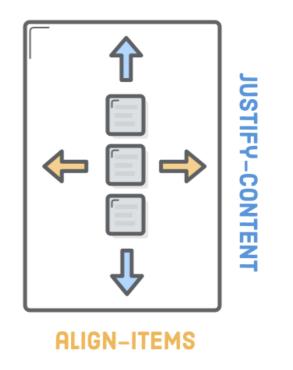
FLEX-DIRECTION: COLUMN;

Alignment Considerations

FLEX-DIRECTION: ROW;



FLEX-DIRECTION: COLUMN;



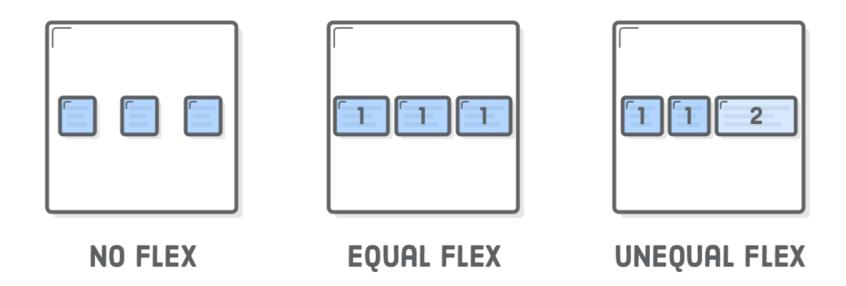
Alignment Considerations

Alignment works vertically, too

- center
- flex-start (top)
- flex-end (bottom)
- stretch
- baseline

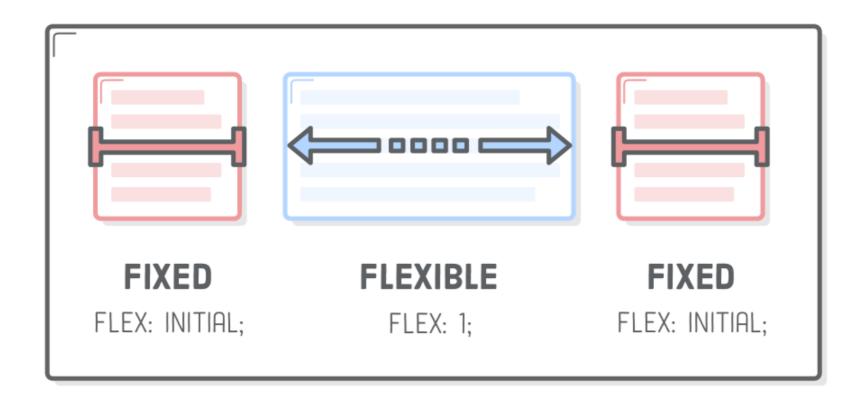
Flexible Items

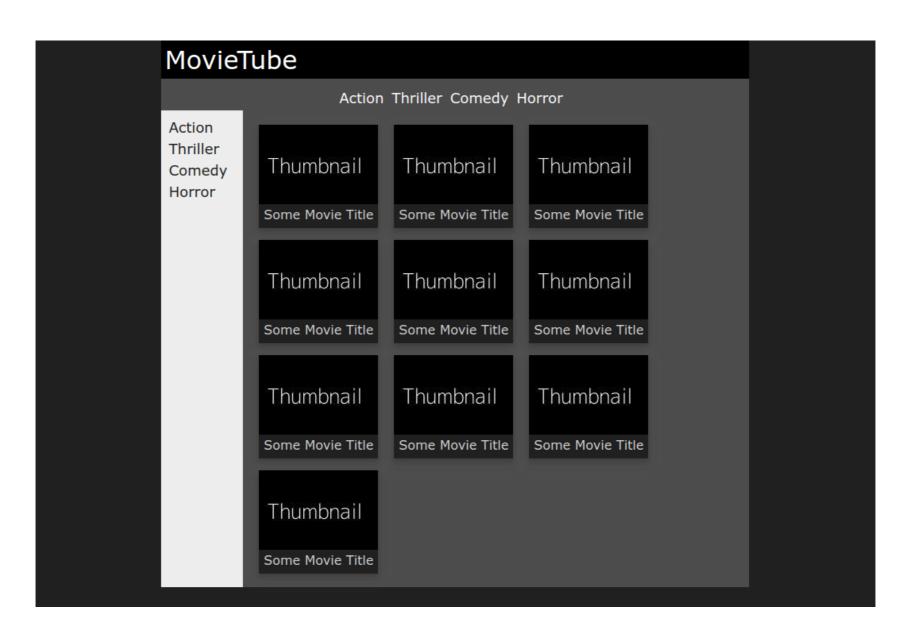
- -flex property defines the width of individual items in a flex container
- width is flexible, is defined as a weight
- flex = 2, grows twice as fast as items with flex = 1 (default value)

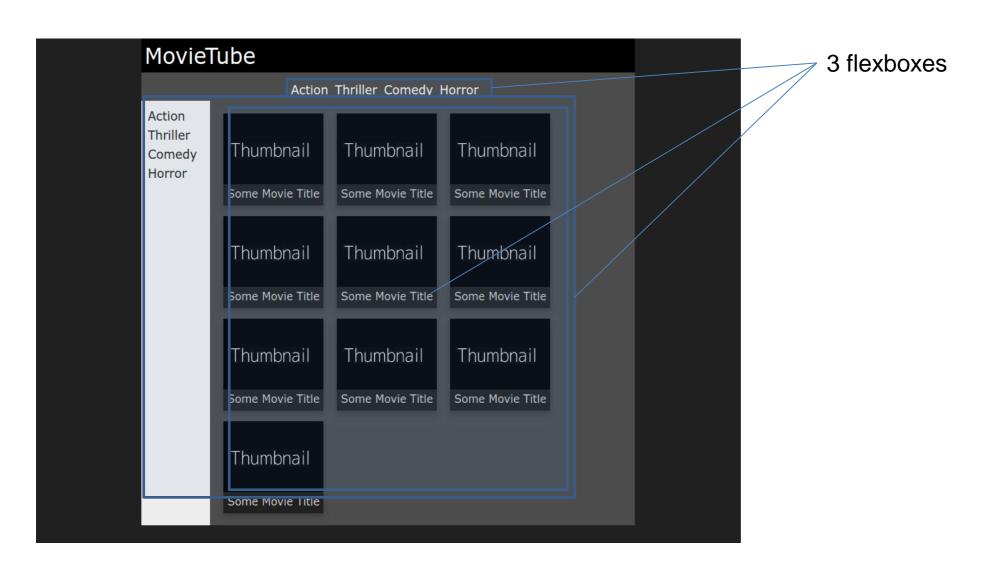


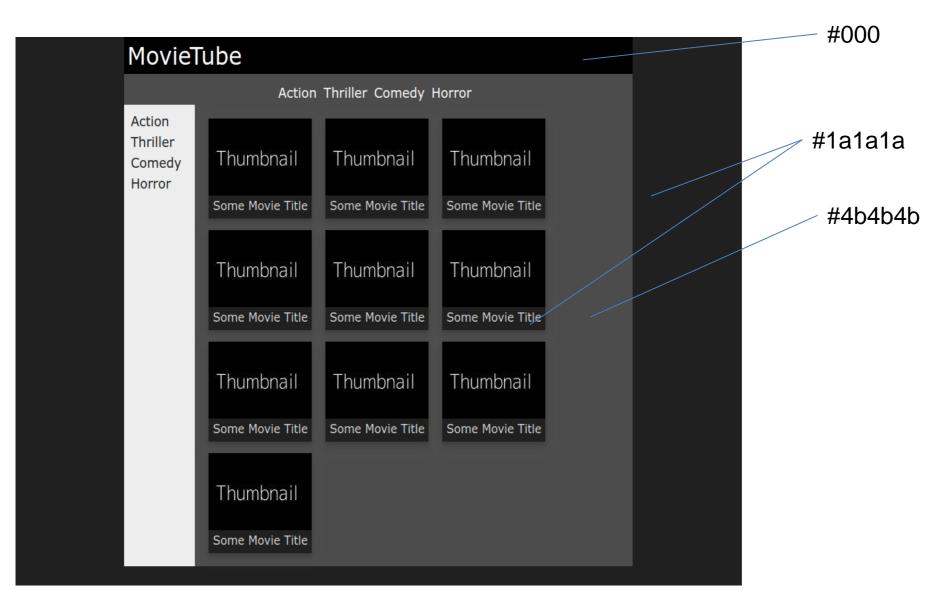
Flexible Items

- -flex property defines the width of individual items in a flex container
- width is flexible, is defined as a weight
- flex = 2, grows twice as fast as items with flex = 1 (default value)







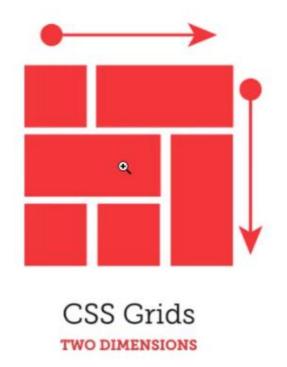


Besides the given information, please

- Implement a dark shadow for the thumbnail elements
 - When not being hovered: dark
 - When hovered: white
- All Menu Elements are links, that do not have any text-decoration except underline when hovered
- 3) The width of the main container is minimum 600px and else 70%

Grids





Grids

