

Flex Box

- Floats

- let us horizontally position block elements
- originally developed to implement Magazin-style 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

Flex Box

- **Flexboxes**

- contain of two types: flexitems and flex containers



“FLEX CONTAINER”



“FLEX ITEMS”

Flex Box

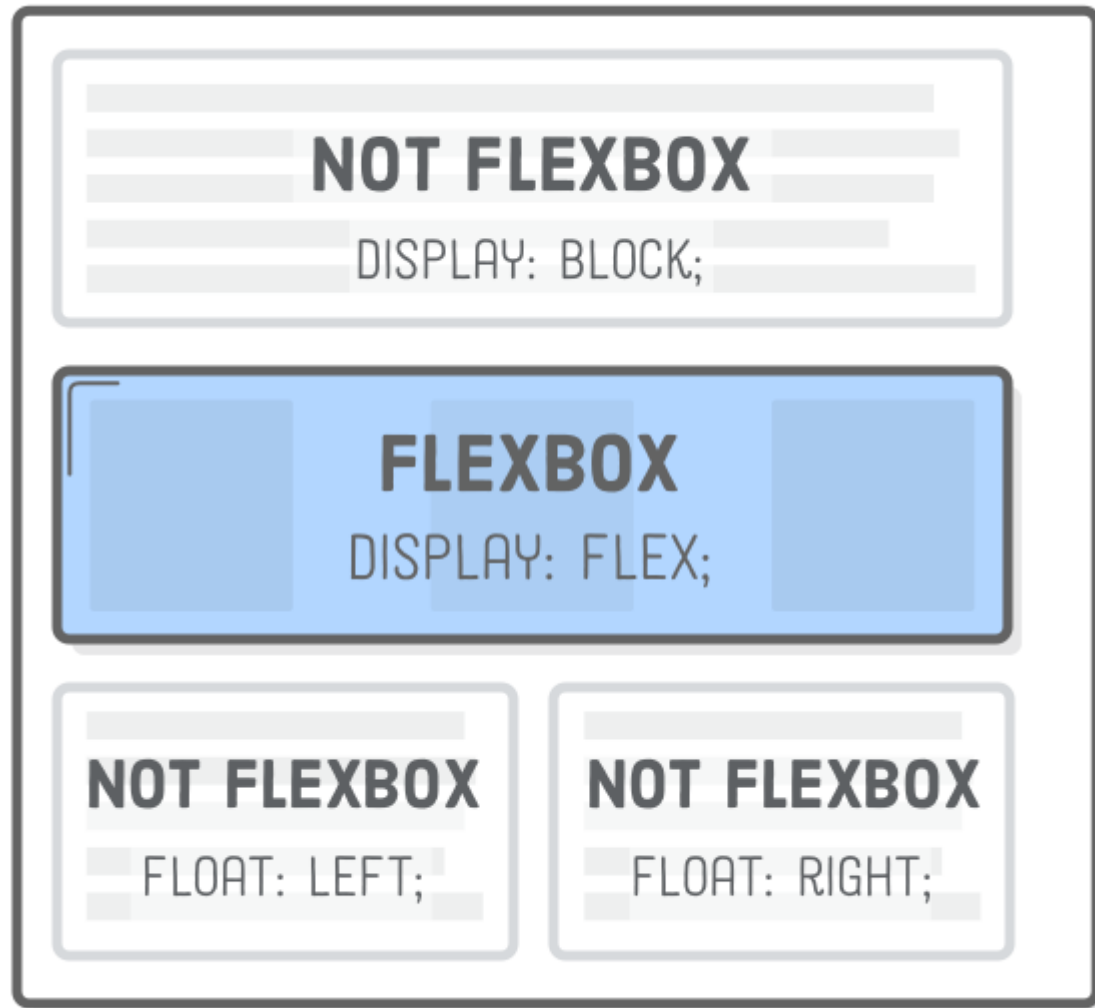
- **Flexitems**

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

- **Flexcontainer**

- determine the layout of the flex items

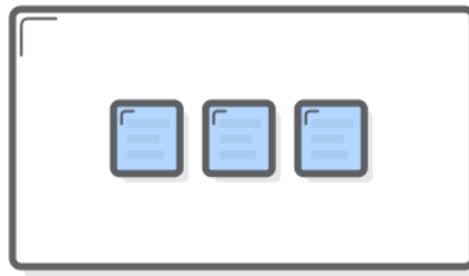
Flex Box



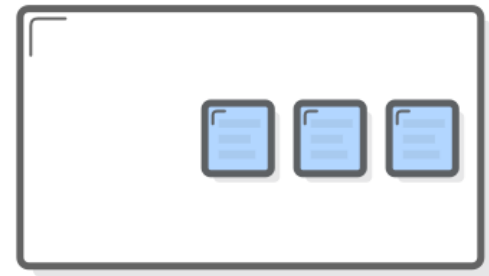
Vertical Alignment of Flex Items



FLEX-START

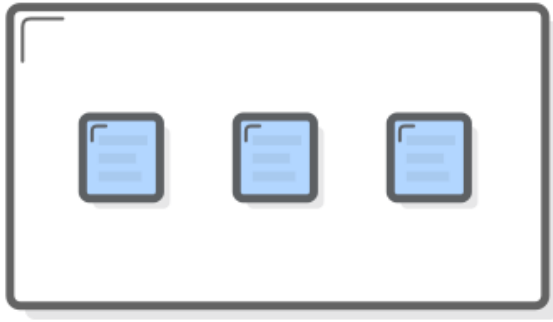


CENTER



FLEX-END

Vertical Alignment of Flex Items



SPACE-AROUND



SPACE-BETWEEN

Vertical Alignment of Flex Items



NO GROUPING

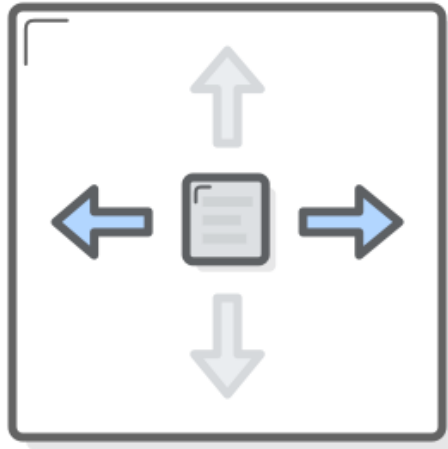
(3 FLEX ITEMS)



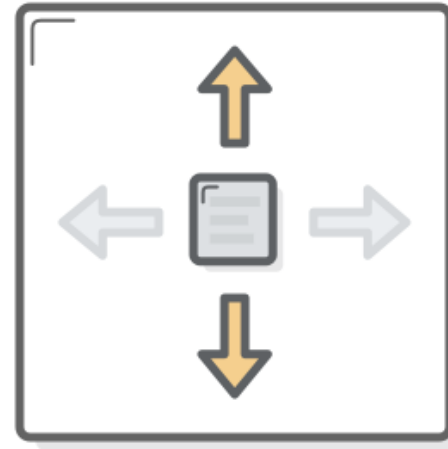
GROUPED ITEMS

(2 FLEX ITEMS)

Horizontal Alignment of Flex Items



JUSTIFY-CONTENT

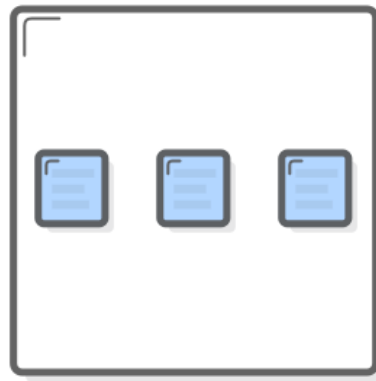


ALIGN-ITEMS

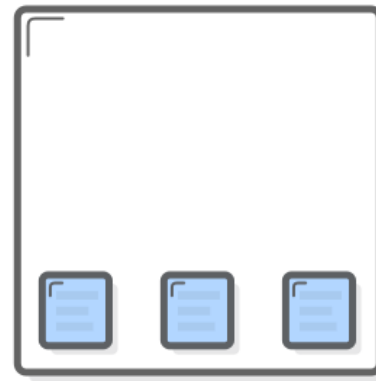
Horizontal Alignment of Flex Items



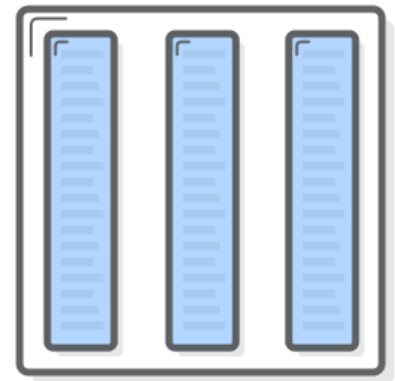
FLEX-START



CENTER

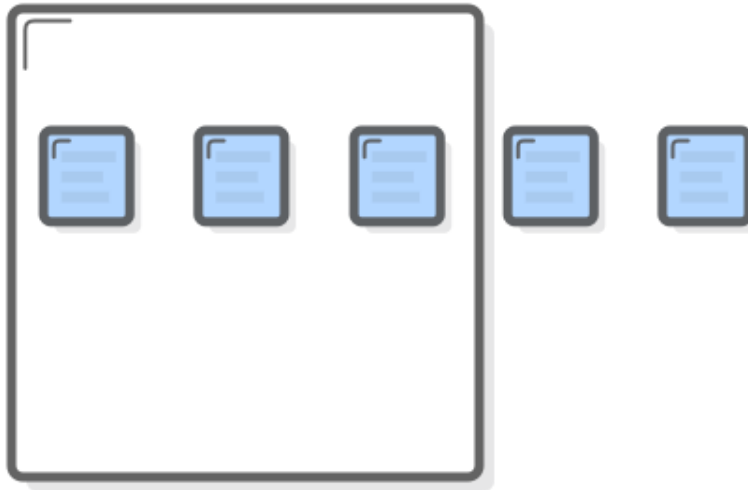


FLEX-END



STRETCH

Wrapping Flex Items



NO WRAPPING

FLEX-WRAP: NOWRAP;



WITH WRAPPING

FLEX-WRAP: WRAP;

Flex Container Direction



ROW

FLEX-DIRECTION: ROW;

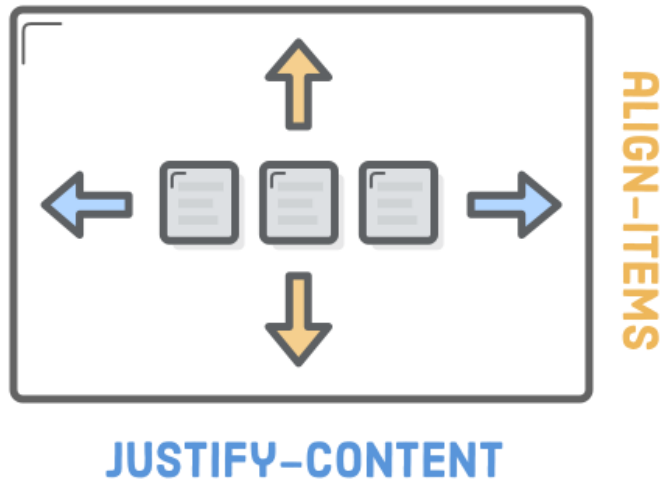


COLUMN

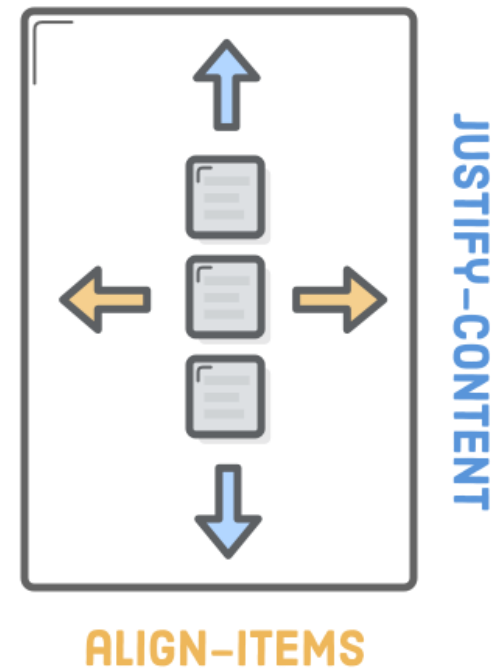
FLEX-DIRECTION: COLUMN;

Alignment Considerations

FLEX-DIRECTION: ROW;



FLEX-DIRECTION: COLUMN;



Alignment Considerations

Alignment works vertically, too

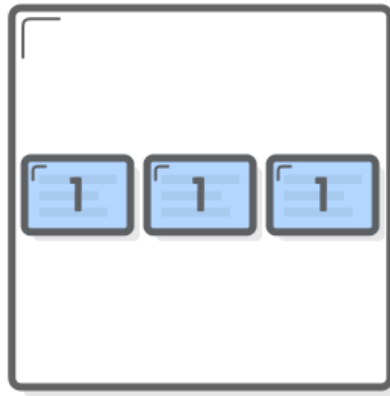
- center
- flex-start (top)
- flex-end (bottom)
- stretch
- baseline

Flexible Items

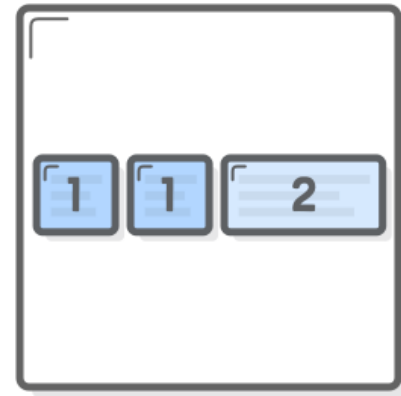
- **flex** property defines the width of individual items in a flex container
- width is flexible, is defined as a **weight**
- flex = 2, grows twice as fast as items with flex = 1 (default value)



NO FLEX



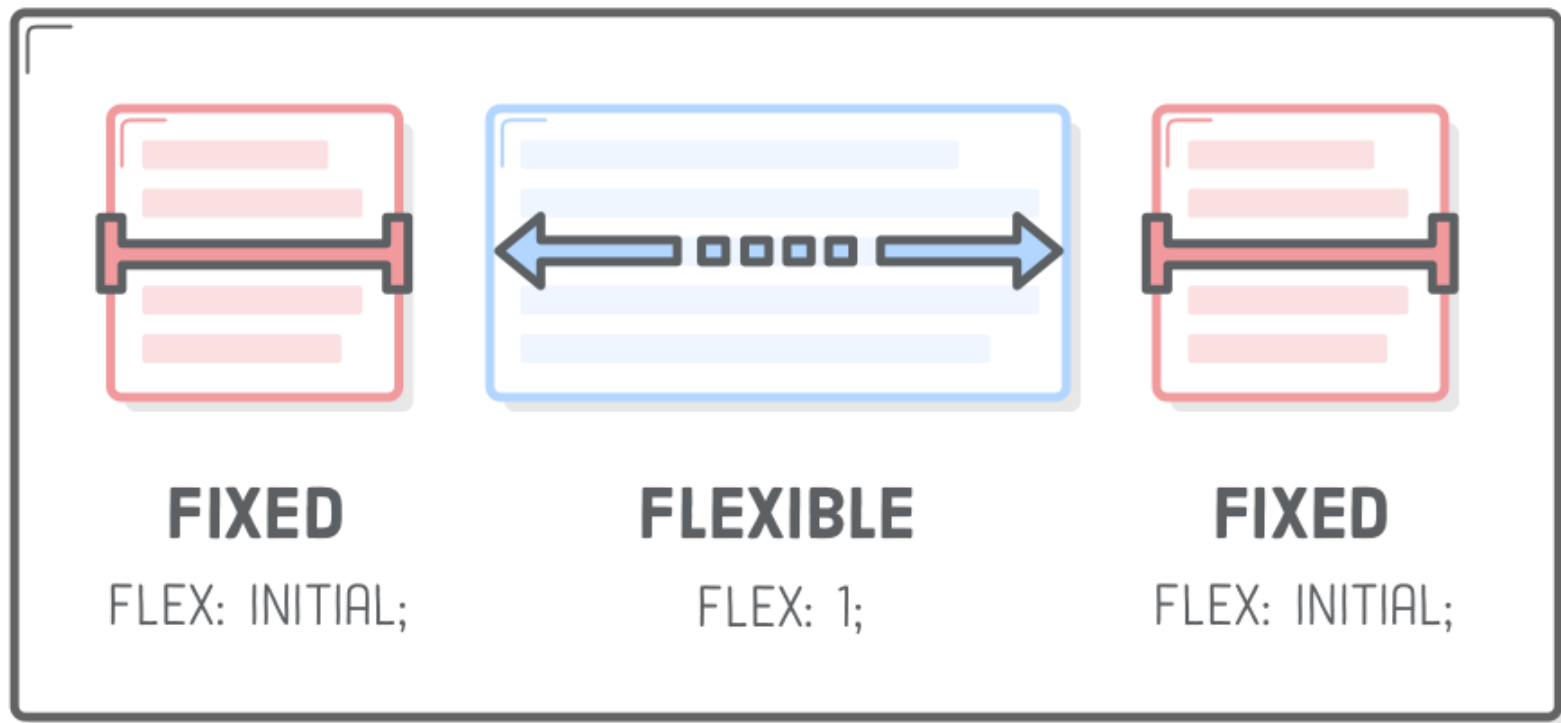
EQUAL FLEX



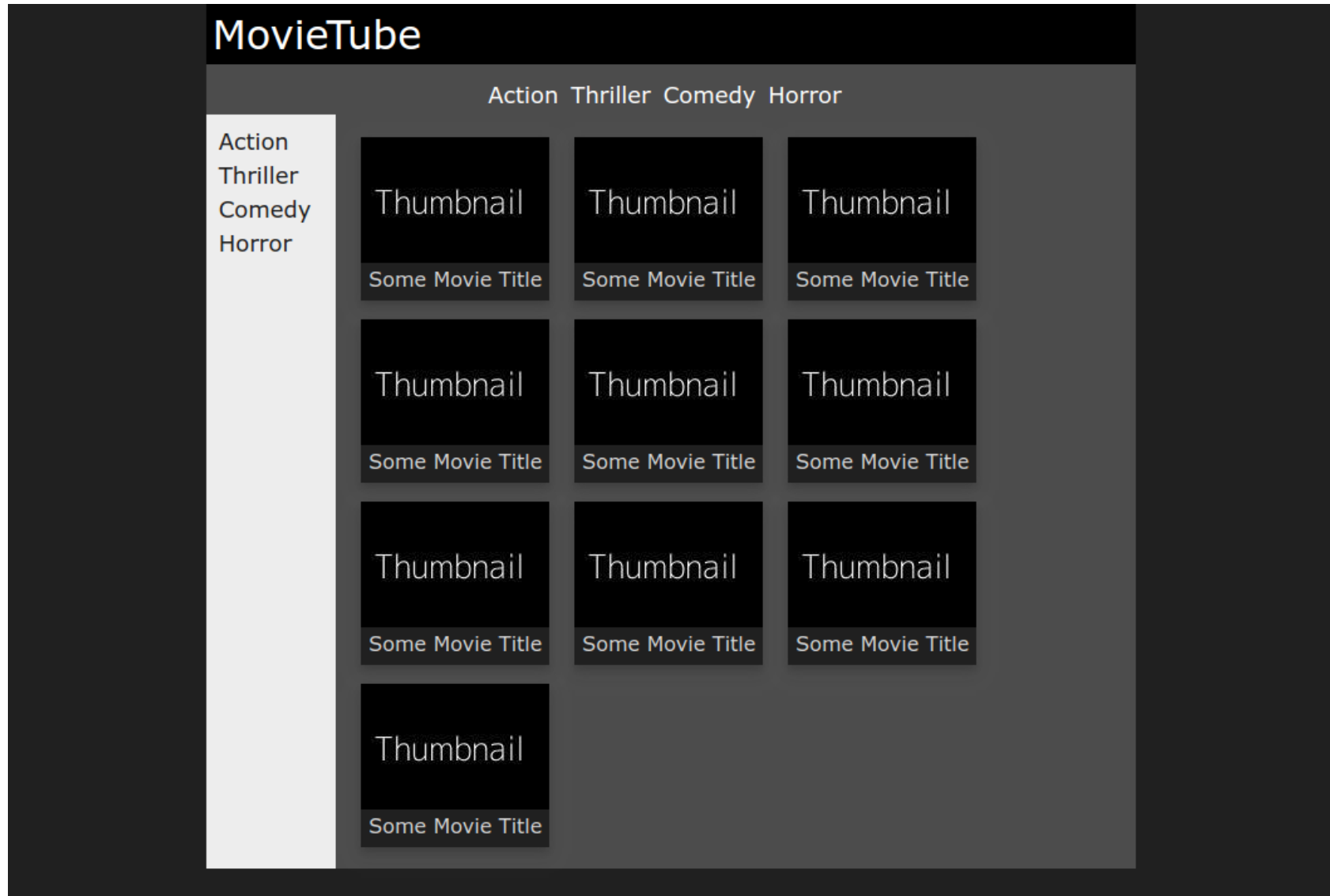
UNEQUAL FLEX

Flexible Items

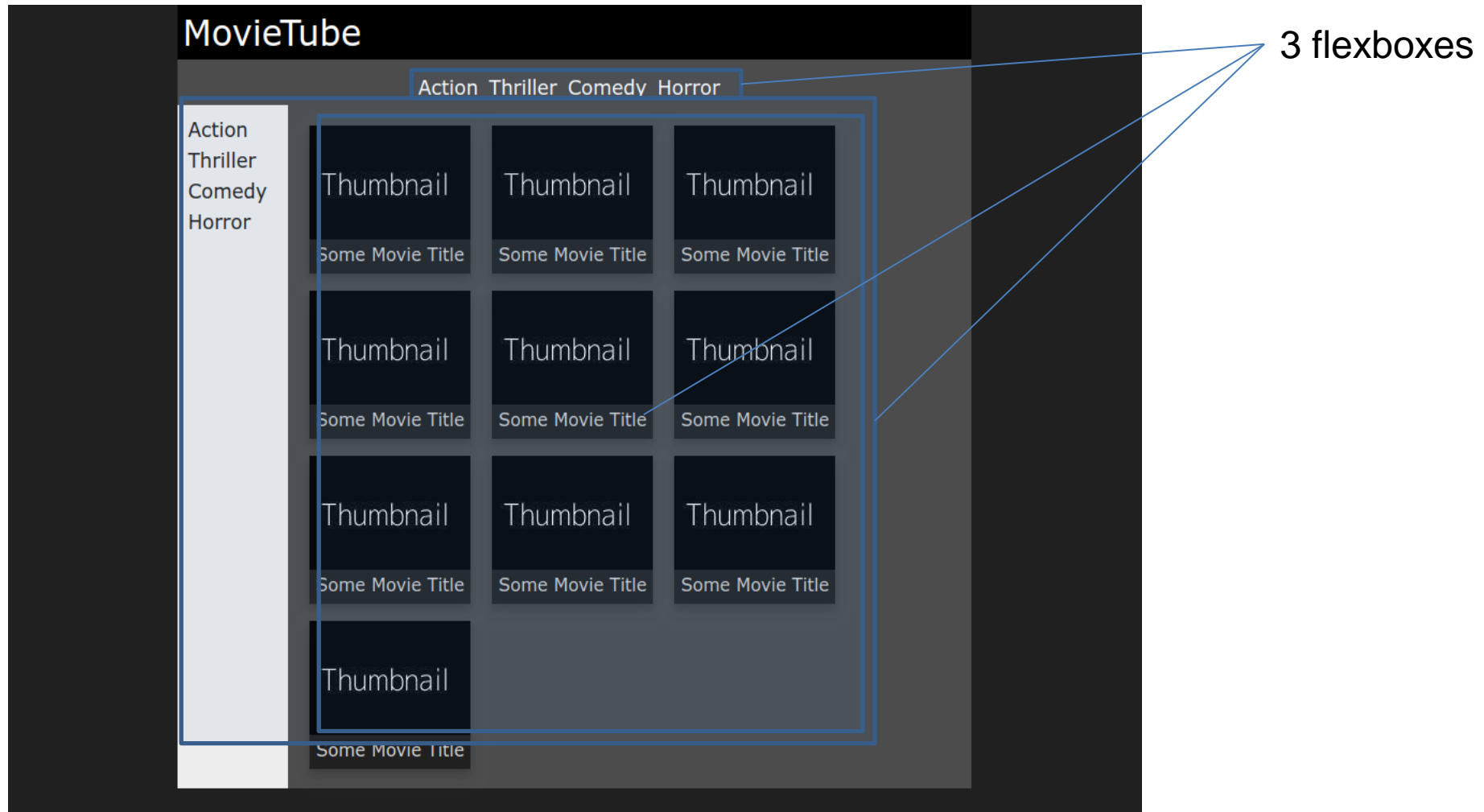
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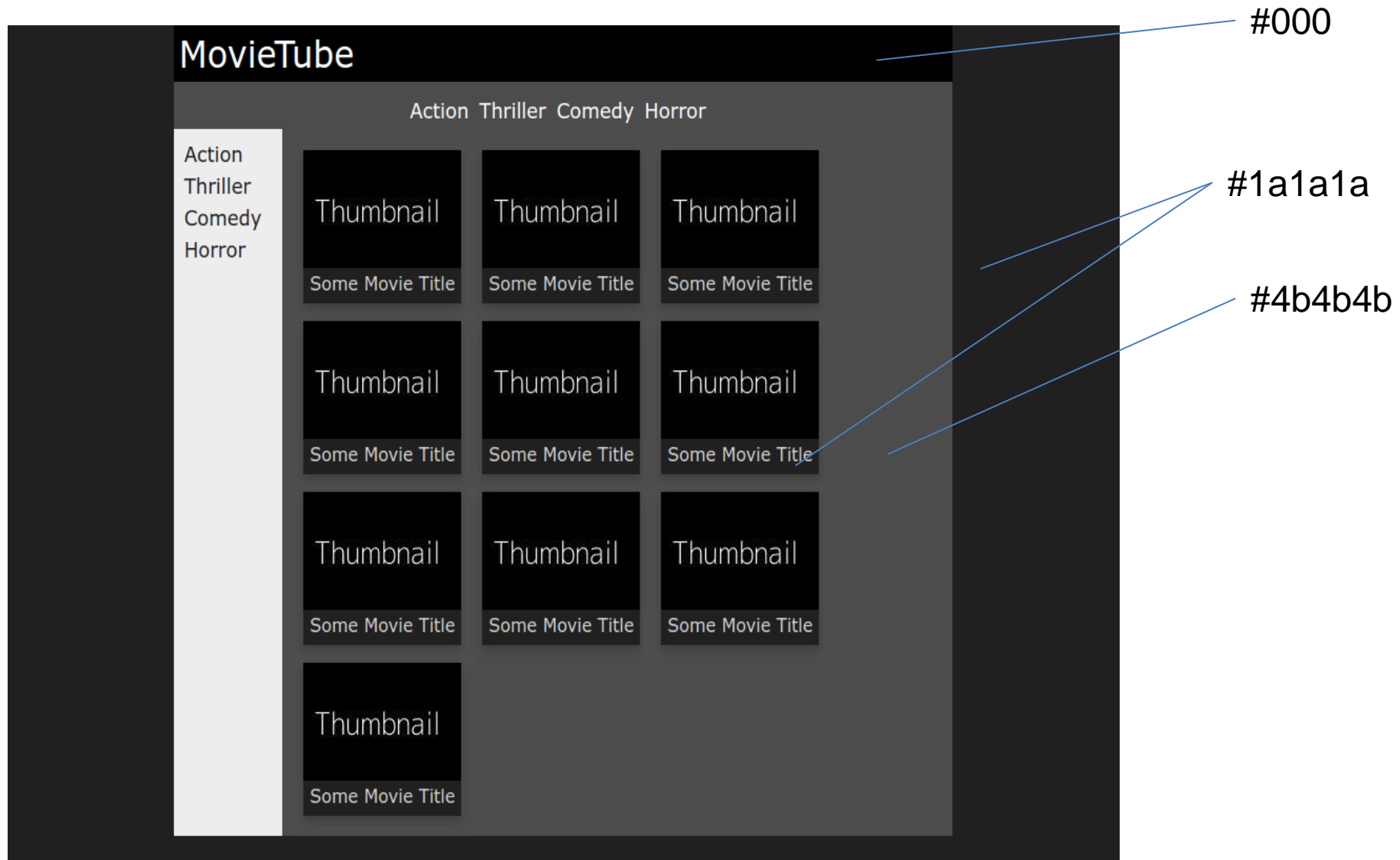
Task: Implement the following layout



Task: Implement the following layout



Task: Implement the following layout



Task: Implement the following layout

Neben den Layout-Anforderungen:

- 1) Erstelle einen dunklen Schatten für die Thumbnail-Elemente
 - Wenn der Mauszeiger nicht drüber ist dunkel.
 - Wenn der Mauszeiger drüber ist hell
- 2) Alle Menu-Items sind Links ohne Dekoration.
- 3) Die Breite des main Containers ist minimum 600px, ansonsten 70%.