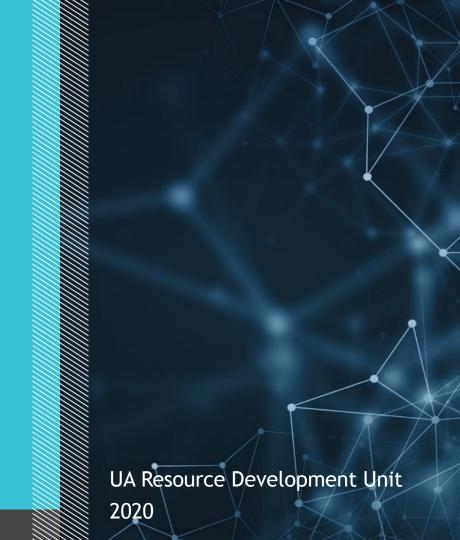
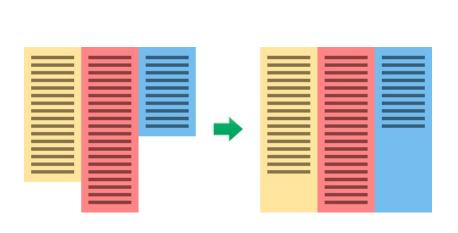
<epam>

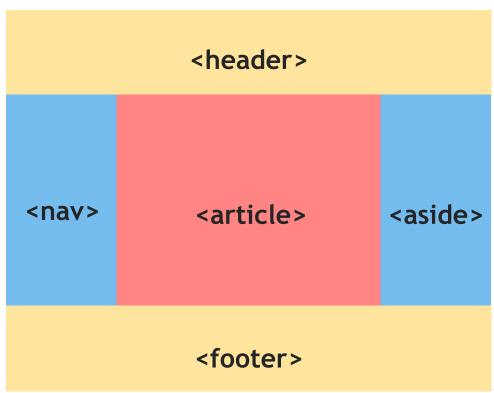
CSS FlexBox

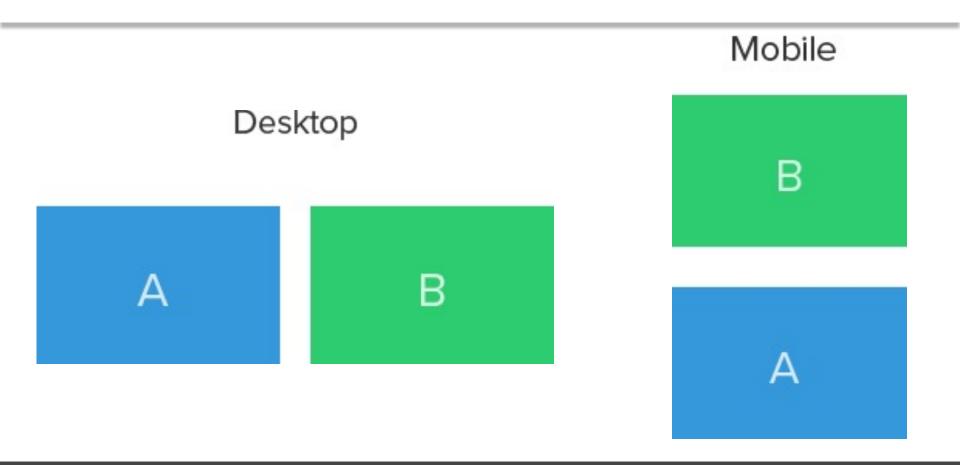


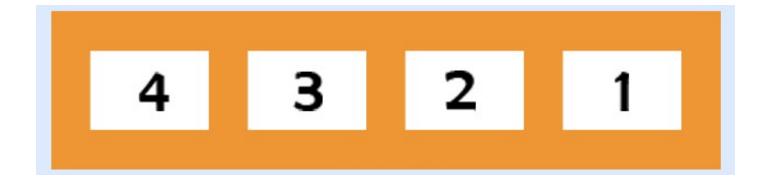
AGENDA

- 1 Flex
- **2** Concepts and Terminology
- **3** Container Properties
- 4 Flex item properties
- 5 Examples





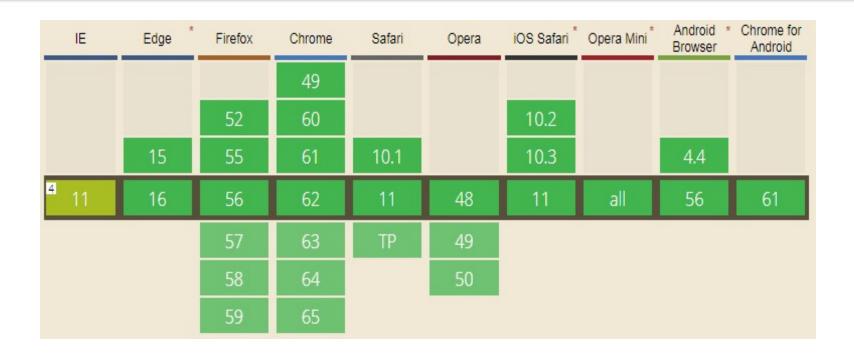






GOODBYE FLOATS AND CLEARFIXES HELLO FLEXBOX.

BROWSER SUPPORT



https://caniuse.com/#feat=flexbox

Available

even when we don't know what that will be



display

FLEXBOX CONTAINER AND ITEMS

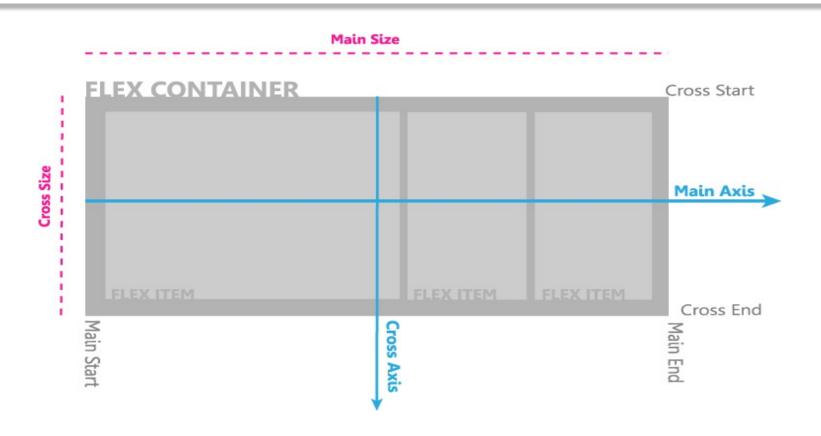
To start work with flexbox, you need to define flex container

```
.container {
    display: flex | inline-flex;
}
```

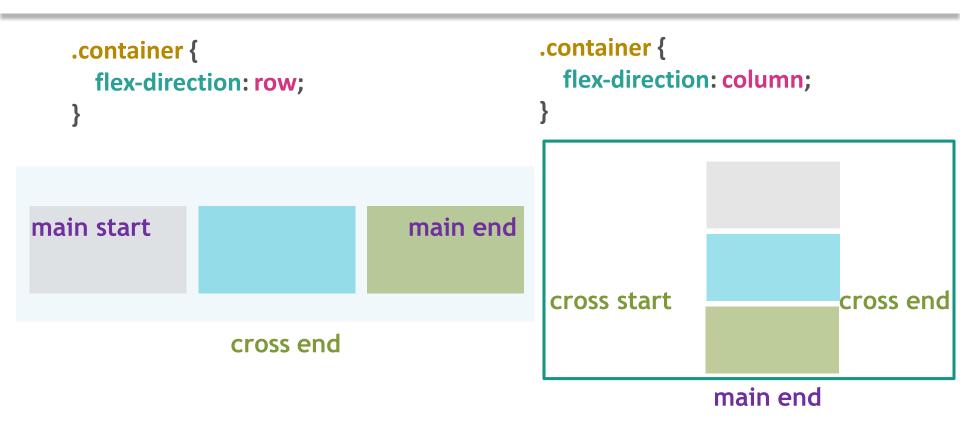
Items in a flex container are, by default, flex items (even anonymous block boxes)



FLEX AXES



START & END DEPEND ON DIRECTION



CONTAINER PROPERTIES

FLEX-DIRECTION AND LTR DIRECTION

```
CSS
//direction: ltr;
                                             row
                                                                     row-reverse
.container {
  flex-direction: row |
                                                           column
                                                                             column-reverse
                  row-reverse |
                 column
                 column-reverse
```

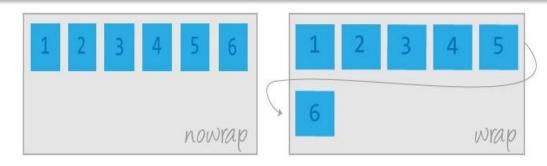
FLEX-DIRECTION AND RTL DIRECTION

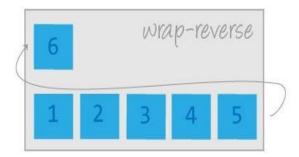
```
//direction: rtl;
.container {
    flex-direction: row | row-reverse | column | column-reverse
}
```

flex-direction: row;
flex-direction: row-reverse;
flex-direction: column;
flex-direction: column-reverse;

FLEX-WRAP

```
//direction: ltr;
.container {
  flex-wrap: nowrap | wrap | wrap- reverse
}
```





FLEX-WRAP

```
CSS
//direction: rtl;
.container {
  flex-wrap: nowrap | wrap | wrap-reverse;
                                                      flex-wrap: nowrap;
                                                      flex-wrap: wrap;
                                                     flex-wrap: wrap-reverse;
```

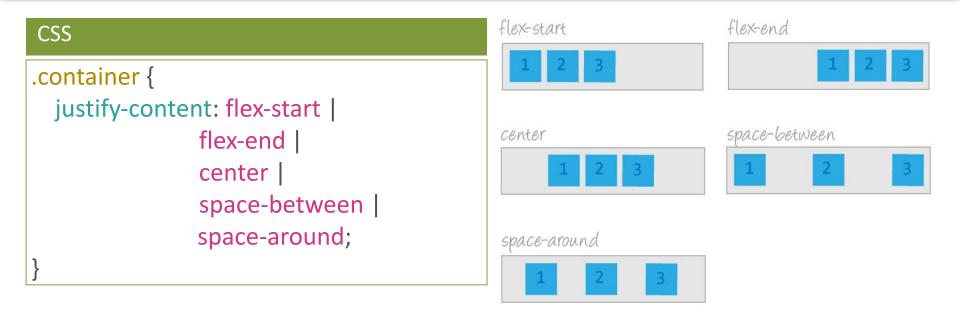
87654321

FLEX-FLOW

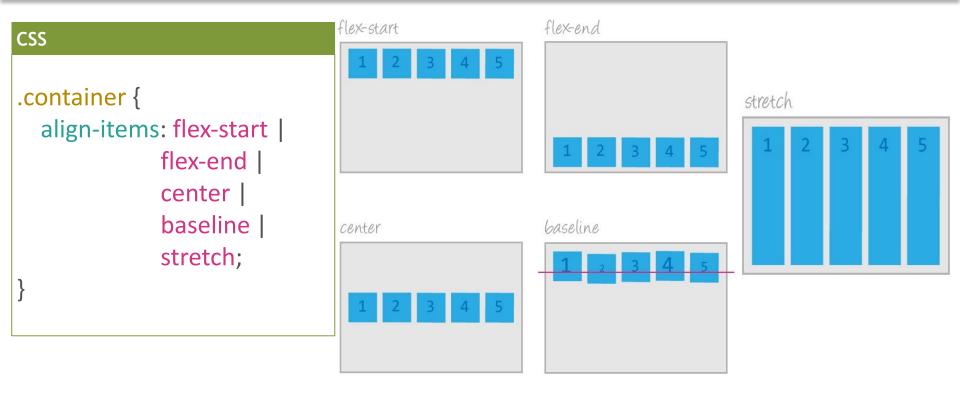
flex-flow - shorthand property for *flex-direction* and *flex-wrap* individual properties

```
.container {
  flex-flow: <'flex-direction'> <'flex-wrap'>
}
```

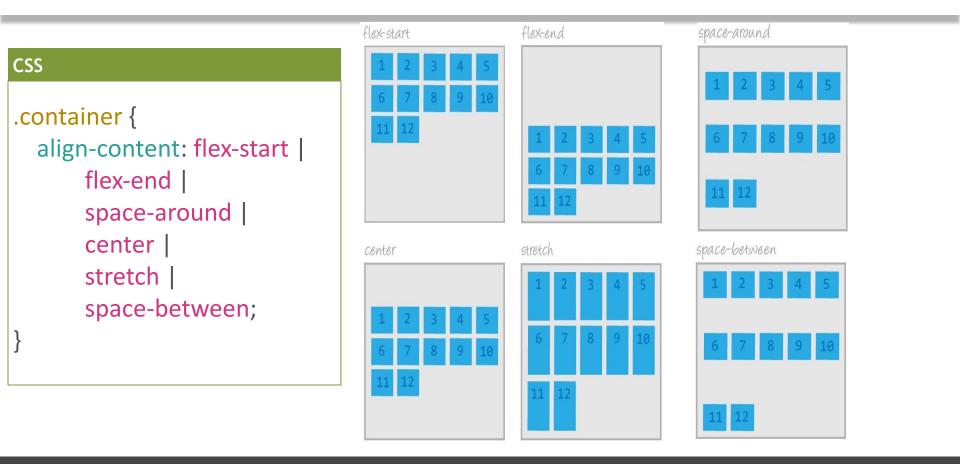
JUSTIFY-CONTENT



ALIGN-ITEMS



ALIGN-CONTENT



CONTAINER PROPERTIES SUMMARY



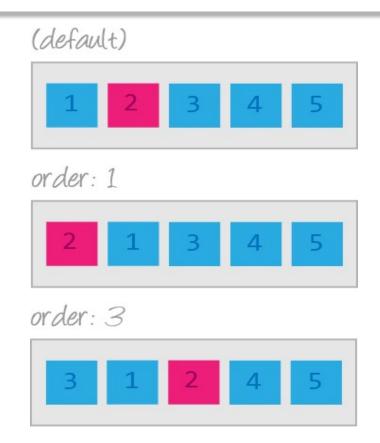
"FLEX CONTAINER"

flex-direction flex-wrap flex-flow justify-content align-items align-content

FLEX ITEM PROPERTIES

ORDER

```
.item {
    order: <integer>;
}
```



ORDER

```
.three { order: -1; }
.five { order: -2; }
```

<epam>

ORDER

```
three { order: 7; }
```

FLEX-GROW

```
CSS
         .item {
           flex-grow: <number>; /* default 0 */
                                                One: o
                                                Two: o
                                                Three: o
                                                Four: 0
1 2 3
```

FLEX-SHRINK

```
.item {
  flex-shrink: <number>; /* default 1 */
}
```

One: 1
Two: 1
Three: 1
Four: 1

1 2 3 4

FLEX-BASIS

flex-basis - specifies the default size of an element before the remaining space is distributed

```
.item {
  flex-basis: <length> | <auto>; /* default auto */
}
```

FLEX-BASIS

```
CSS
.container{
    border: 7px solid silver; display:
    flex:
    height: 200px;
.container div:nth-of-type(1){ background:
    rgb(0, 137, 250);
    flex-basis: 10%;
.container div:nth-of-type(2){
    background: rgb(255, 0, 43);
    flex-basis: 20%;
.container div:nth-of-type(3){ background:
    rgb(255, 169, 0);
    flex-basis: 30%;
.container div:nth-of-type(4){
    background: rgb(0, 167, 83);
    flex-basis: 40%;
```



FLEX

flex - specifying the ability of a flex item to alter its dimensions to fill available space

```
.item {
  flex: none | [ <'flex-grow'> <'flex-shrink'>? | | <'flex-basis'> ]
}
```

CONTAINER PROPERTIES SUMMARY



"FLEX ITEMS"

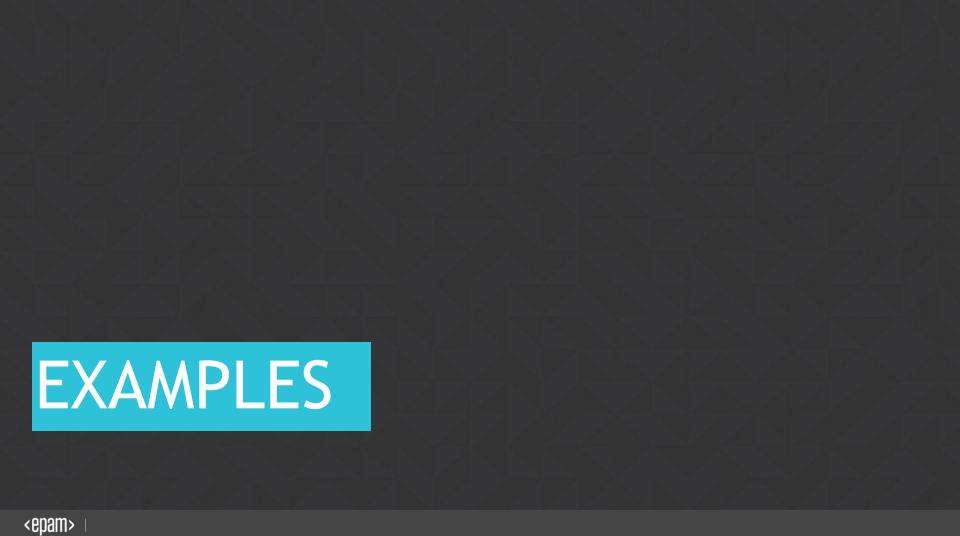
order

flex-glow

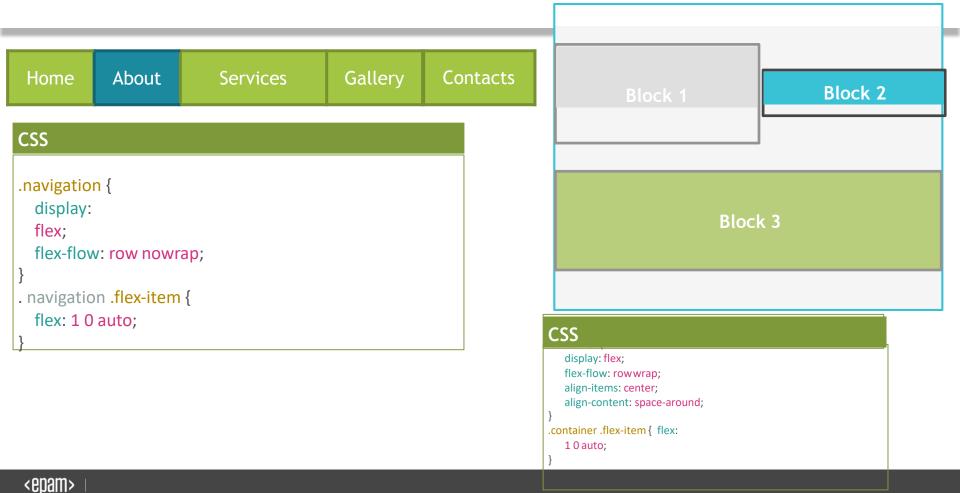
flex-shrink

flex-basis

flex



FLEXBOX IS IDEAL FOR COMPONENTS



TOOLS

Flexy Boxes
http://the-echoplex.net/flexyboxes/

4

Flexbox help
http://flexbox.help/

Plexplorer
http://bennettfeely.com/flexplorer/

5

Flexbox in 5 minutes
http://flexboxfroggy.com/

Flexbox Grid http://flexboxgrid.com/

6

CSS Flexbox Please!
http://demo.agektmr.com/flexbox/

WHAT'S SO GREAT ABOUT FLEXBOX?

- It's a new layout mode Joins block, inline, table, and positioned
- It's flexible! You can easily make things stretch and flex to fit available space
- Easy alignment Horizontal, vertical, baseline

- Source order independence You want that before this, but only when that? Ok.
- Any direction you want You can set direction within containers
- Easy Syntax You can learn it in one . afternoon.
- Establish flow direction

 Flex containers can flow either in a row or column and be single or multiple

FE Online UA Training Course Feedback

I hope that you will find this material useful.

If you find errors or inaccuracies in this material or know how to improve it, please report on to the electronic address:

serhii_shcherbak@epam.com

With the note [FE Online UA Training Course Feedback]

Thank you.

ABQ















UA Frontend Online LAB