

Lab 3 - Flexbox

The goal of this lab is to help familiarise yourself with flexbox. In this lab we will be using functional CSS which in a nutshell is very easy, e.g. m-20 class will correspond to margin with value 20 units and mt will correspond to margin-top with value 20 units.

1. Familiarize with provided classes and HTML
2. Basic flexbox
 - 2.1. Fill in .flex-container class and add `display: flex;` to it
 - 2.2 Fill in flex-item-1,2,3,4 classes and set `flex: <number>` on them
 - 2.3 How does the value for the flex affect the size of the item?
3. Flex center
 - 3.1 Edit flex-center content and set values for justify-content and align-items
 - 3.2 Try out different values for both CSS rules. Your final goal is to center item within its container both horizontally and vertically
4. Spacing elements on the opposite sites
 - 4.1 Edit flex-space-between class and set appropriate justify-content to space elements on the opposite sites
5. Wrapping items
 - 5.1 fill in the rule for flex-basis-50 and flex-wrap so the container has `flex-wrap: wrap;` and flex items have flex-basis set to 50%
6. Try changing flex-direction or using different values for flexbox containers and items. Use the reference below to find some of the commonly used values.

Links:

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

Reference:

Look at those collected CSS values for flexbox here and try out various combinations of parameters:

flexbox container:

```
display: flex | inline-flex;
flex-direction: row | row-reverse | column | column-reverse;
flex-wrap: nowrap | wrap | wrap-reverse;
justify-content: flex-start | flex-end | center | space-between | space-around | space-evenly;
align-items: stretch | flex-start | flex-end | center | baseline;
align-content: flex-start | flex-end | center | space-between | space-around | space-evenly | stretch;
flex-flow: <'flex-direction'> <'flex-wrap'>; // shorthand property
```

flexbox items:

```
flex-grow: <number>;
flex-shrink: <number>;
flex-basis: auto | <width>;
order: <number>;
```

align-self: auto | flex-start | flex-end | center | baseline | stretch;
flex: none | [<'flex-grow'> <'flex-shrink'>? || <'flex-basis'>]; // shorthand property