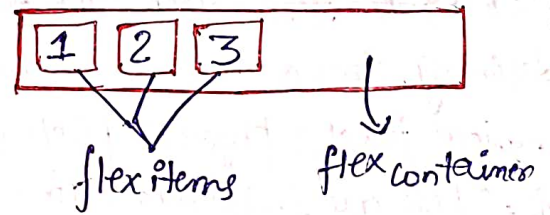


Lecture 20: Complete Flexbox

The flexbox layout module, makes it easier to design flexible responsive layout structure without using float or positioning.

To start using flexbox model, we need to define a flex container.

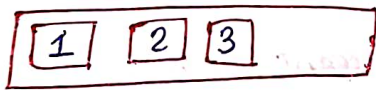
The above right represents a flex container (red area) and numbers boxes are flex items.



The flex container become flexible by setting "display" property to "flex".

→ The flex container and its properties :

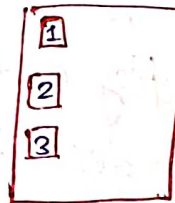
* **flex-direction** : This property defines in which direction the container want to stack the flex items.



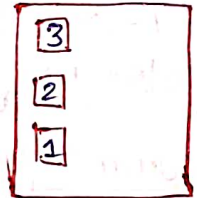
row



row-reverse

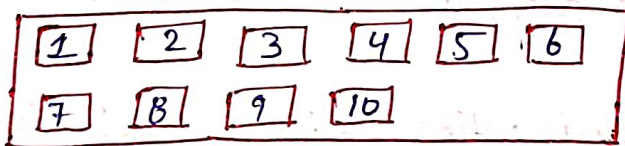


Column

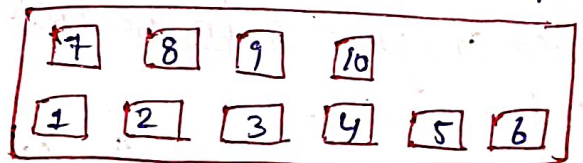


column reverse

* **flex-wrap** : This property specifies whether the flex items should wrap or not.



wrap



wrap-reverse

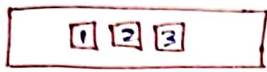
Note : The nowrap value specifies that the flex items will not wrap and it is default value.

* **flex-flow** : This is a shorthand property for setting the both flex-direction and flex-wrap properties.

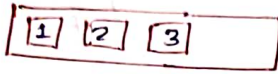
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Example : `flex-container { display: flex; flex-flow: row wrap; }`

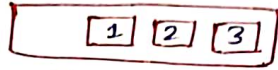
* **justify-content** : This property used to align the flex items.



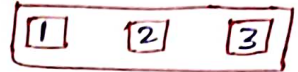
center



flex-start

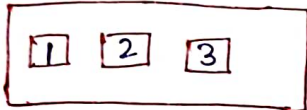


flex-end

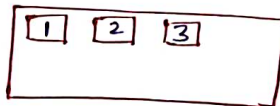


space-between

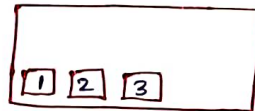
* **align-items** : This property used to align the flex items.



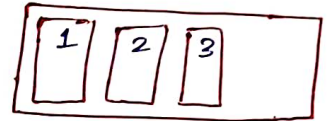
center



flex-start

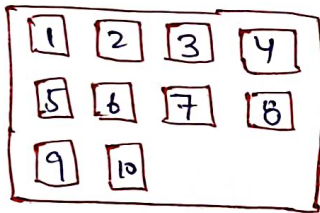


flex-end

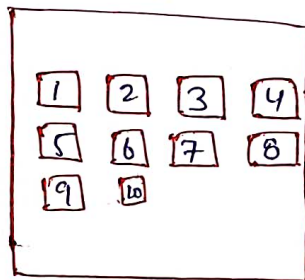


flex-stretch

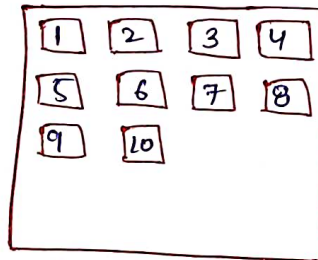
* **align-content** : This property is used to align flex lines.



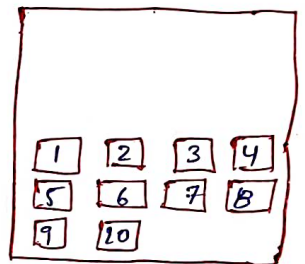
space-around



center

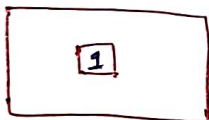


flex-start



flex-end

* **Perfect Centering** : Set the both "justify-content" and "align-items" properties to "center", and then the flex item will be perfectly centered.



`{ justify-content: center; align-items: center; }`

→ The flex items and its properties :

* **order** : This property specifies the order of the flex items.

* **flex-grow** : This property specifies how much a flex-item will grow relative to the rest of the flex items.

* **flex-shrink** : This property specifies how much a flex-item shrink relative to the rest of the flex items.

* **flex-basis** : This property specifies the initial length of flex item.

* **flex** : This property is a shorthand property to the "flex-grow", "flex-shrink" and "flex-basis" property.