

CSS Flexbox:-

- Layout Model used for space distribution and provide alignment capabilities.
- By default, x-axis is the main axis here.
- Firstly, set `display: flex` on a "container" element.
- The childrens of flex container becomes flex items.
- Both container and flex items have their own properties used to create different layout models.

Container properties:-

- (i) `display: flex`:- Used to make a flex container.
- (ii) `flex-direction`:-
 - Used to set the items with respect to main axis.
 - We can change axis according to need.
 - By default, x-axis is the main axis.

* Its values are:- (a) row (b) column (c) row-reverse (d) column-reverse.

* "row" and "column" align items in the direction of main axis from starting point.

* "row-reverse" and "column-reverse" align items from the end of the main axis.

(iii) flex-wrap :- • Used to intact the width of flex items.

- If display becomes small, the items switch to the next row and prevent overflow of items.
- If display is bigger, the items takes complete width of the parent element with respect to the specified width.

* Its values are :- (a) nowrap (b) wrap (c) wrap-reverse

(a) nowrap - is by default value and width becomes squeezed when display size decreases. It affects the width of items.

(b) wrap - • It wraps the items in a way that it looks like the item width is intact.

- Items moved to next row when display shrinks.

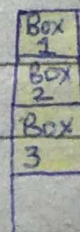
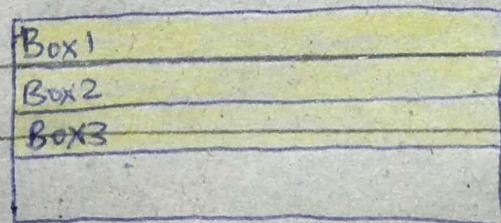
(c) wrap-reverse :- It wraps the items, one row above the previous row.

- Wrap the items in a reverse order.

(iv) flex-flow :- It is a shorthand notation to use "flex-direction" and "flex-wrap" in a single line.

Ex:- flex-flow: column wrap-reverse;

Output :-

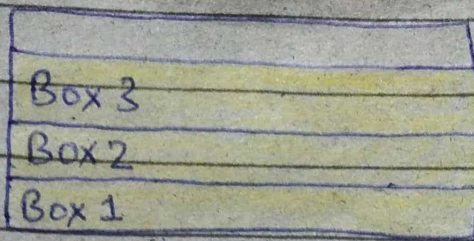


Big Display

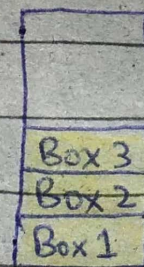
Small Display

Ex 2:- flex-flow: column-reverse wrap-reverse;

output:-



↳ Display Big



↳ Display Small

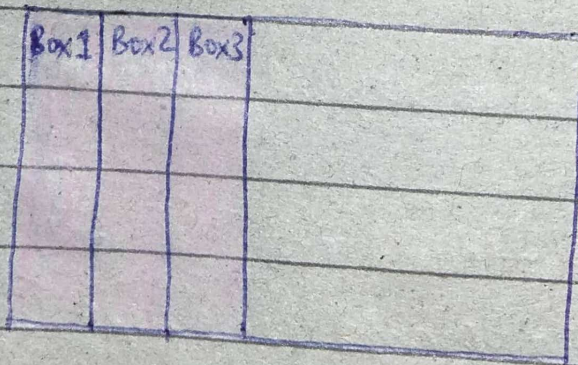
(v) Justify-content :- Used to align items according to main axis i.e. horizontal axis (x-axis).

* Its values are :- (a) flex-start (b) flex-end (c) center
(d) space-around (e) space-evenly
(f) space-between

(a) flex-start :- Align the items from starting of flexbox container. By default x-axis is main axis so it will look like that →

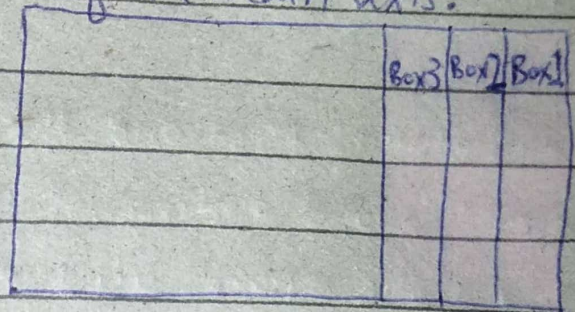
Ex:- justify-content: flex-start;

output:-



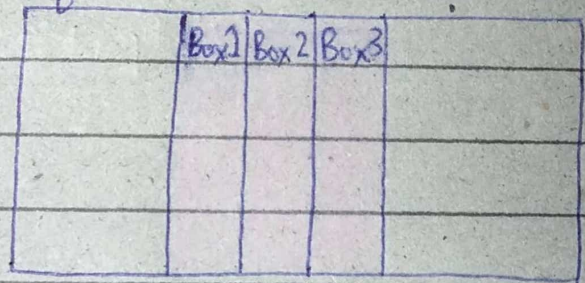
⑥ flex-end :- Align items from the end of the main axis.

Ex:- justify-content: flex-end;
Output:-



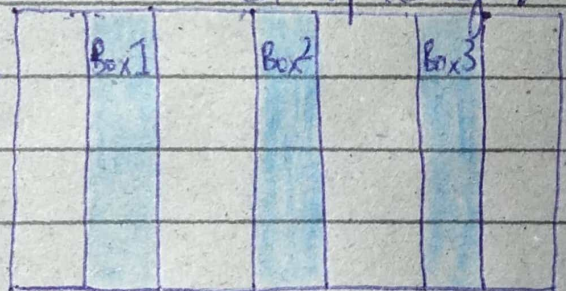
⑦ center :- Align items at the center of main axis.

Ex:- justify-content: center;
Output:-



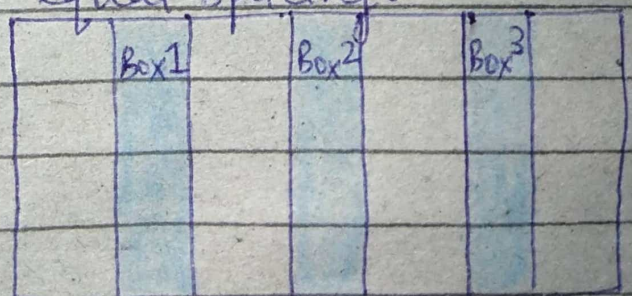
⑧ space-around :- It gives equal space between the items but left and right sides still contain uneven spacing.

Ex:- justify-content: space-around;
Output:-



⑨ space-between :- It gives equal spaces to all the items and left-right sides also have equal spacing.

Ex:- justify-content: space-between;
Output:-



• All the spaces are equal here in space-between including left & right.

- ④ space-between: first and the last items will stick to the starting and ending of the parent container.
- All the space will evenly distribute among the other items.

Ex:- justify-content: space-between;
output:-

Box 1		Box 2		Box 3