

CSS grid

Container {

display: grid;

grid-template-columns: 1fr 1fr

grid-template-rows: 300px 300px

}

column-width

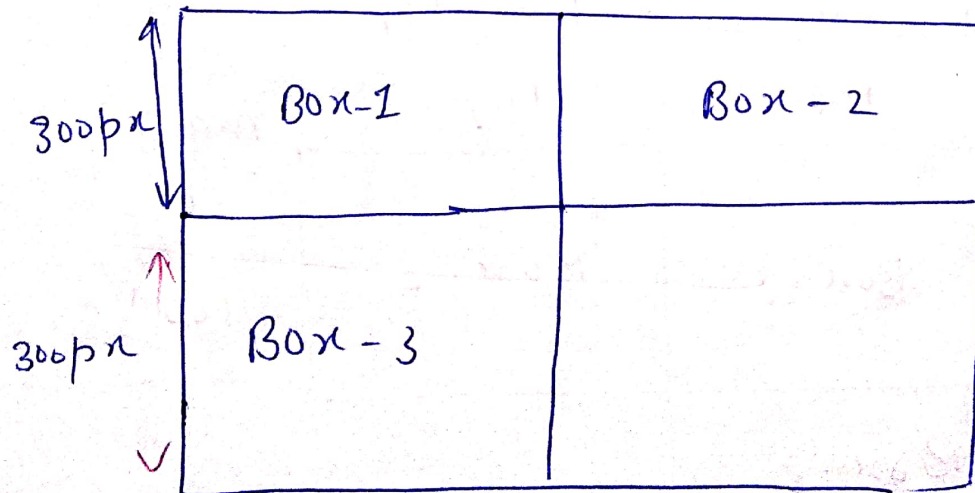
1st row-height

2nd row-height

Let assume there are three boxes

1fr

1fr



if all the fr are equal then it will take equal space that available in a single row

#2

main {

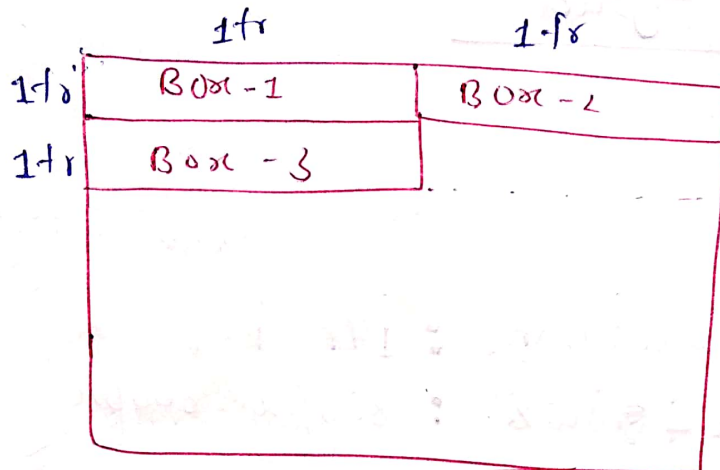
display : grid;

display - templates - column : 1fr 1fr

grid - template - rows : 1fr 1fr

}

let assume we have only three box in main



Because it's column width and row width is in fr it only takes the available space for the content required inside the Boxes

But if we set the height for main container now

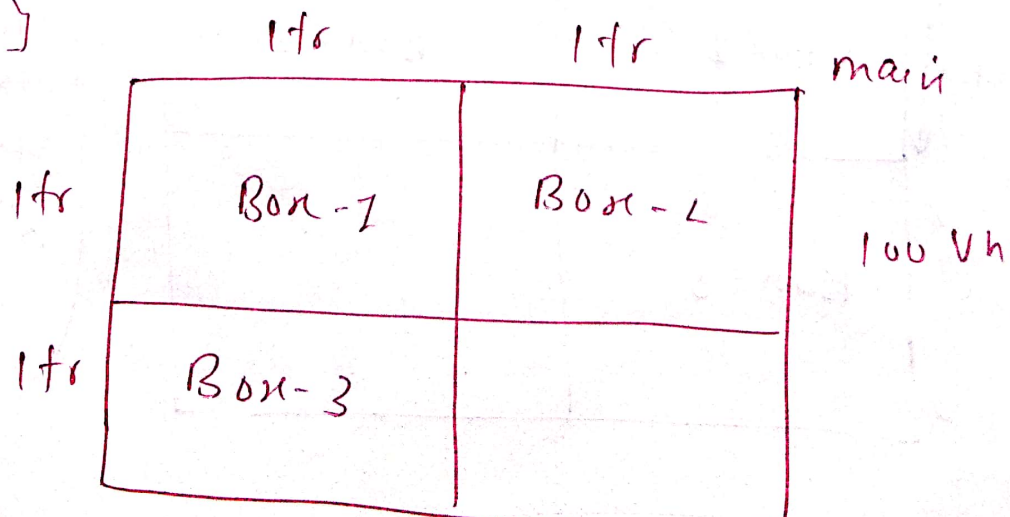
main { height : 100vh;

display : grid;

grid - template - column : 1fr 1fr

grid - template - row : 1fr 1fr

}



Grid-template (Shorthand)

~~grid-column-start~~

main {

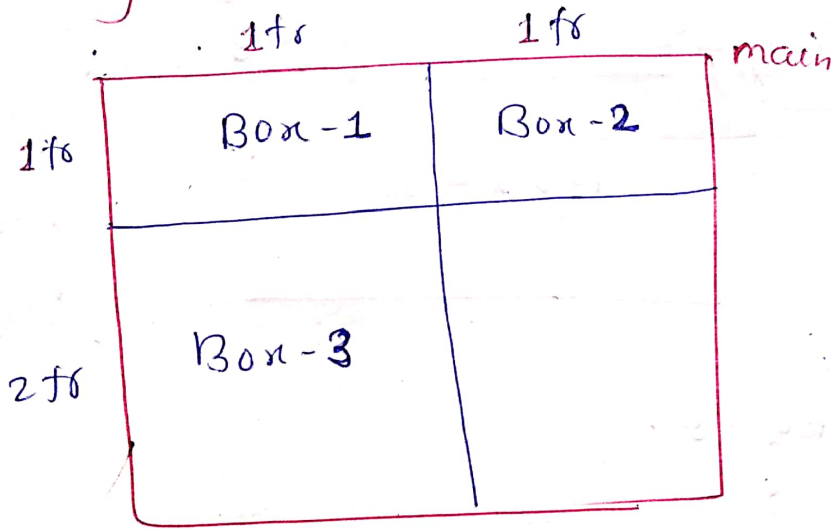
height: 100vh;

display: grid;

grid-template: 1fr 2fr / 1fr 1fr

}

Second-column

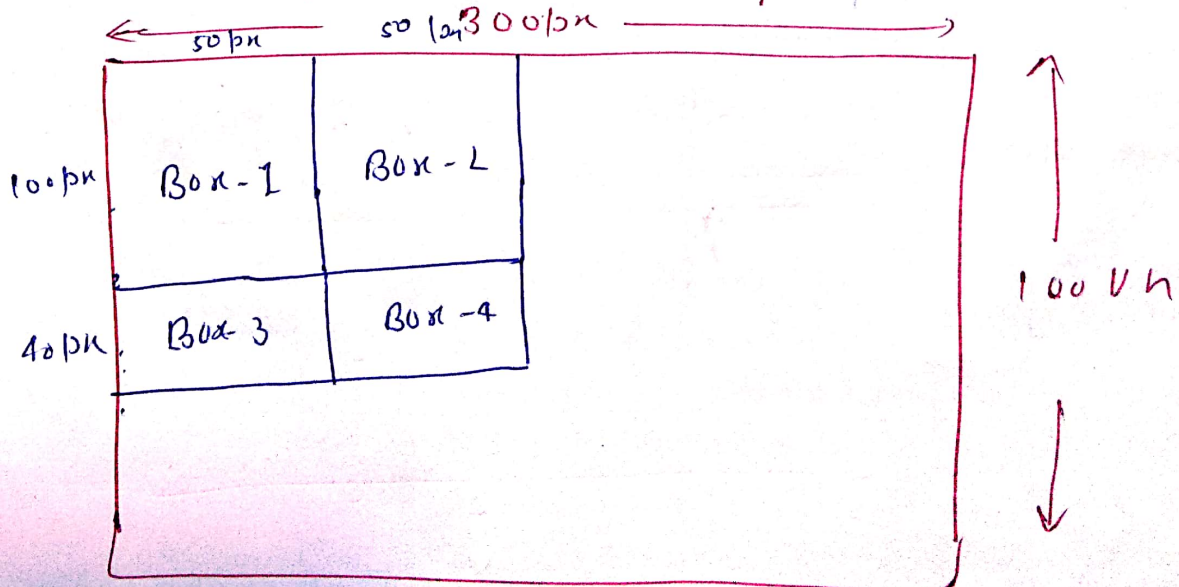


main {

height: 100vh;

display: grid;

grid-template: 50px 50px / 100px 10px



grid-column-start | grid-column

#4

- It is property for item, to manage the start & end position of column

main {

height : 100vh;

display : grid;

grid-template : 1fr 1fr / 1fr 1fr

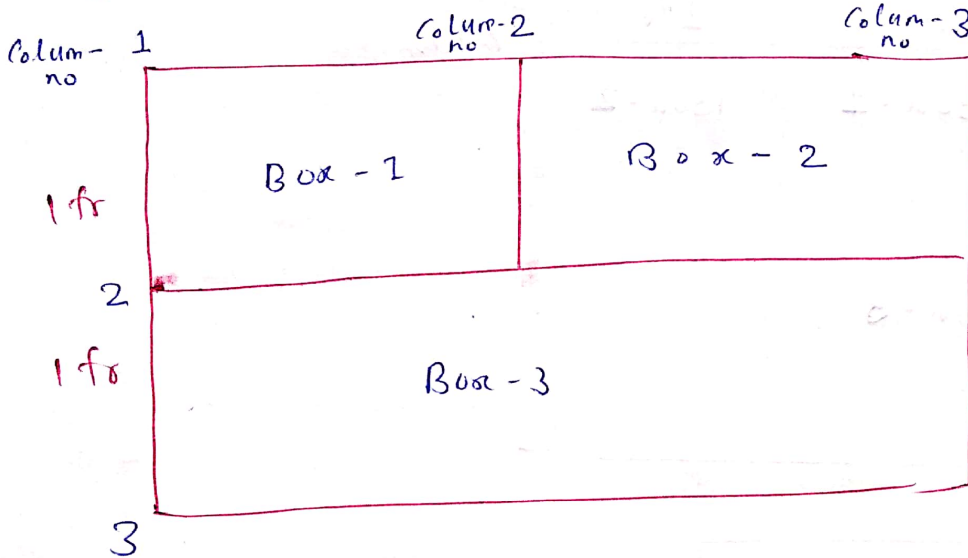
2 rows

2 column

.box 3 {

grid-column-start : 1;

grid-column-end : 2;



Shorthand :

grid-column : 1/3 ;

Grid-row-start | Grid-row #5
Grid-row-end

main {

height: 100vh;
display: grid;
grid-template: 1fr 1fr / 1fr 1fr

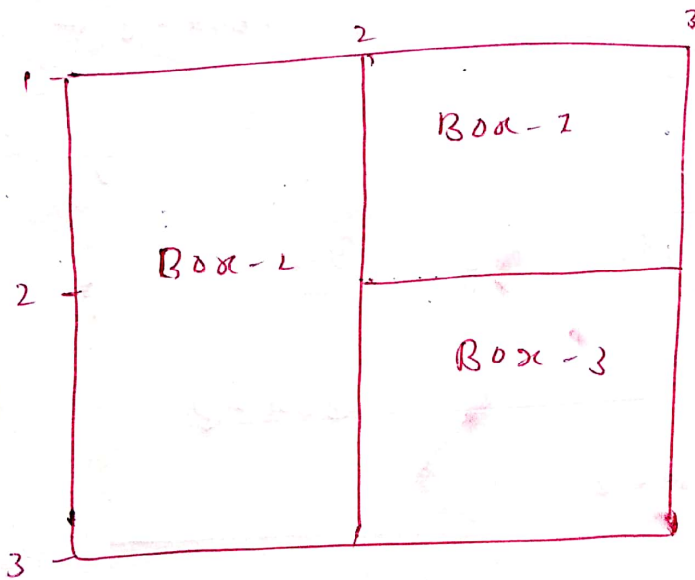
}

.Box-2 {

grid-row: 1/3

}

after applying this there
will be some issue



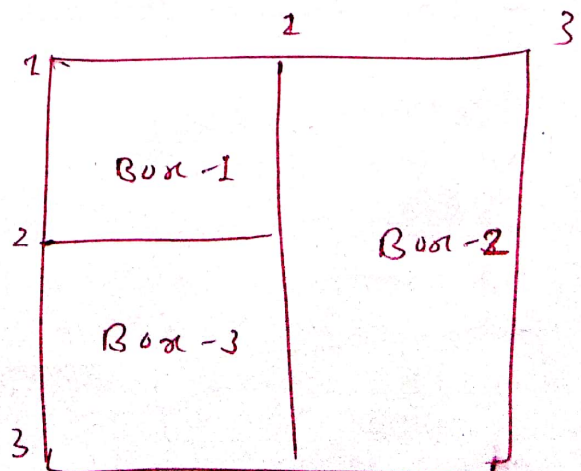
to fix this we have to apply the
property in box-1 & box-3 also

.Box-2 {

grid-column: 1/2

grid-row: 1/2

}



another example grid for grid with 3x3 #6

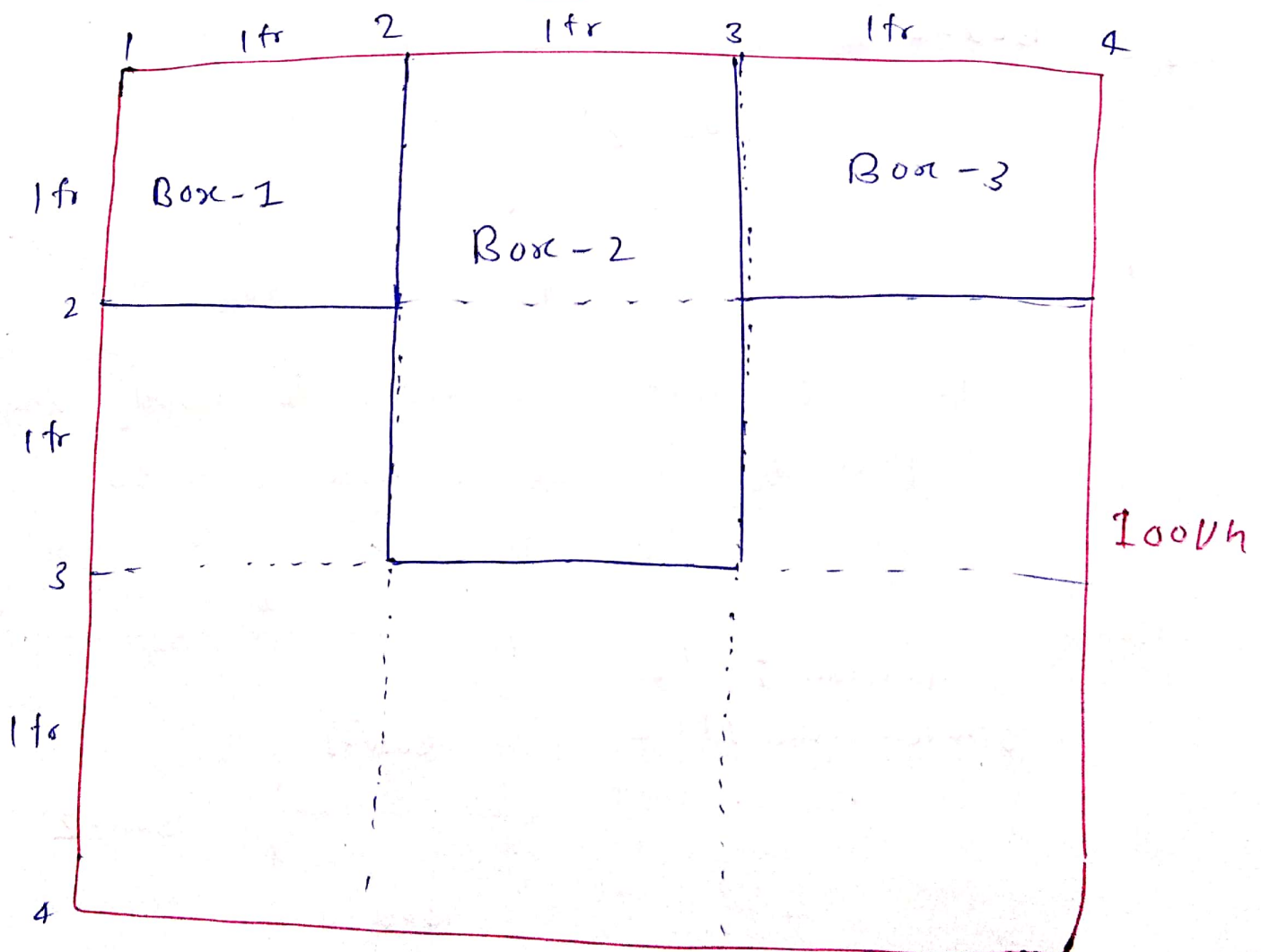
main {
height: 100vh;
display: grid;
grid-template-row: 1fr 1fr 1fr
grid-template-column: 1fr 1fr 1fr

box-2 {
grid-row: 1/3

box-1 {
grid-column: 1/2
grid-row: 1/2

~~box-3 {~~

The layout will be



Grid-template-area.

#7

main {

height: 100vh;

display: grid;

grid-template-columns: 1fr 1fr

grid-template-rows: 1fr 1fr

grid-template-areas:

"Box-1 box-2"

"box-3 .";

To leave the empty
space just put
the dot (.) in
row * column . box

box-1 {

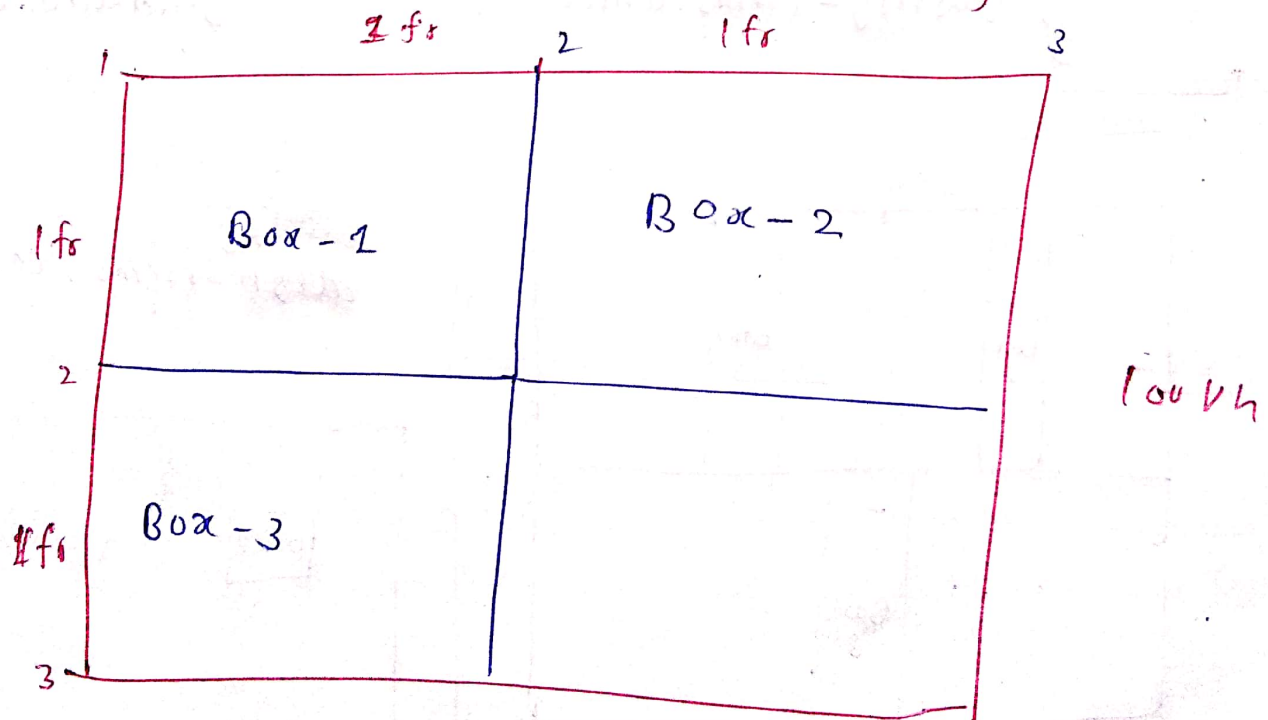
grid-area: box-1;

box-2 {

grid-area: box-2;

box-3 {

grid-area: box-3;



If you want box-3 from Column-1 to Column-2
just put the 2nd row & 2nd column is box-3

- #8
- we can move element inside all the boxes like we can do in flexbox, justify content etc
 - But instead we use justify items for horizontal alignment.
 - align-items for vertical alignment.

ex main {

display: grid
height: 100vh

grid-template-row = 1fr 1fr
" " " " -column = 1fr 1fr

grid-template-areas:

"box1 . box2"

" box3 box3 " ;

} justify-items: center

.box-1 {

grid-area: box1;

}

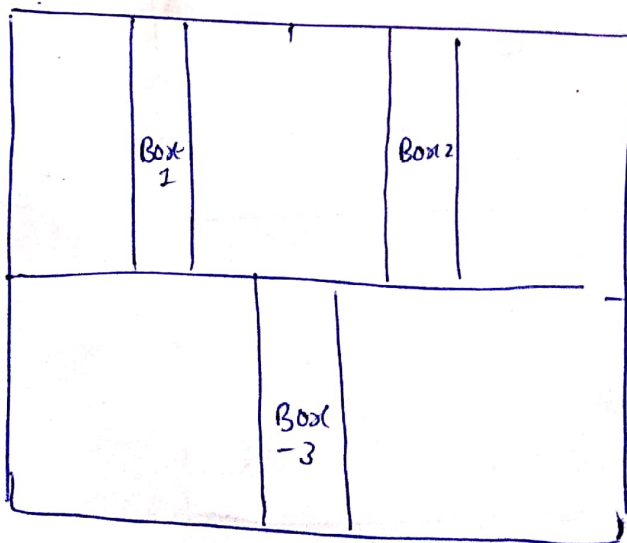
.box-2 {

grid-area: box2

}

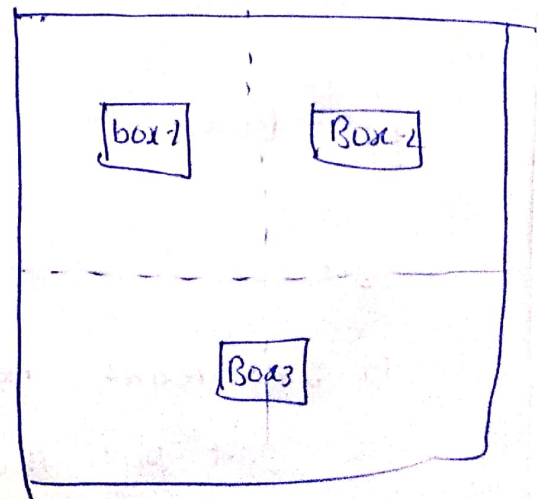
.box-3 {

grid-area: box3;



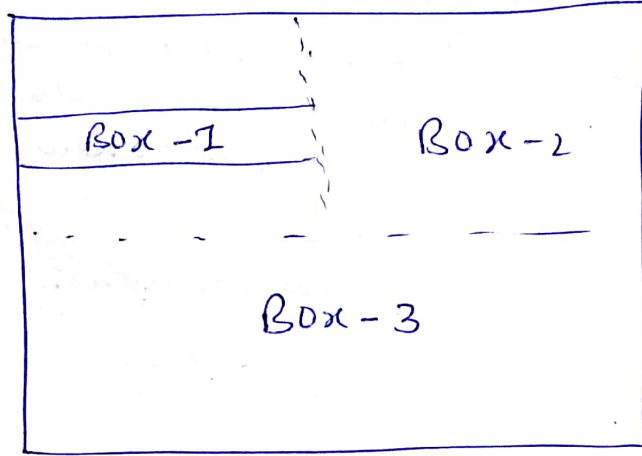
~~justify~~

align-items: center;



- Align-self: It is grid property of child items #9
- we can align item by self alignment.
- It align item vertically.

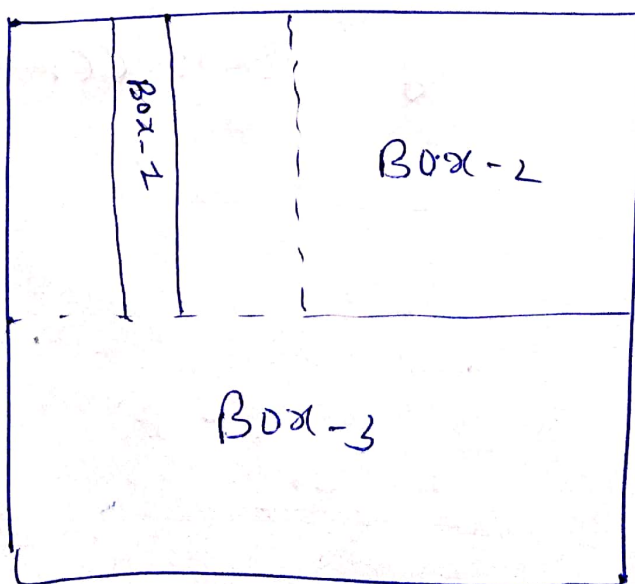
align-self: center



Box-1 ✓

Align-self: center

- justify-self: It is also the property of child element.
- It align item horizontally.



Box-1 ✓

justify-self: center

✓

Flex-Box

10

Align-Content :- we use align content when we use wrap (flex-wrap: wrap) ^{It works as vertical alignment but whole content with wrap.}

• flexwrap without align-content

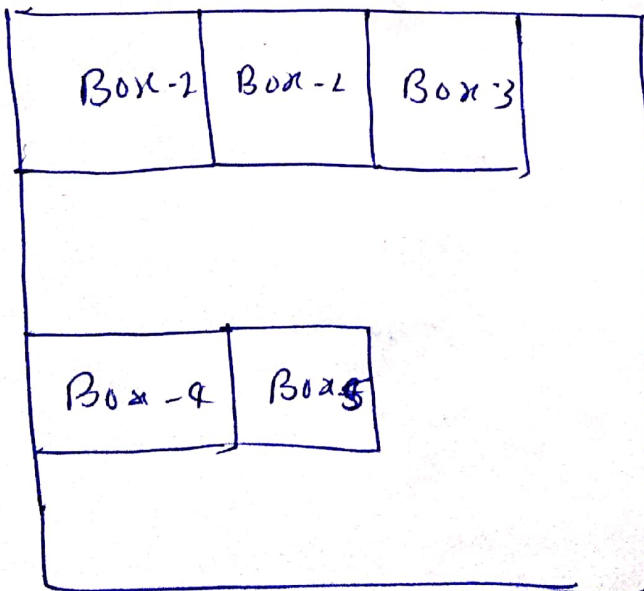
Container

```
height: 100vh;  
display: flex;  
flex-wrap:  
}
```

```
box-1 {  
width: 200px;  
height: 200px;  
}
```

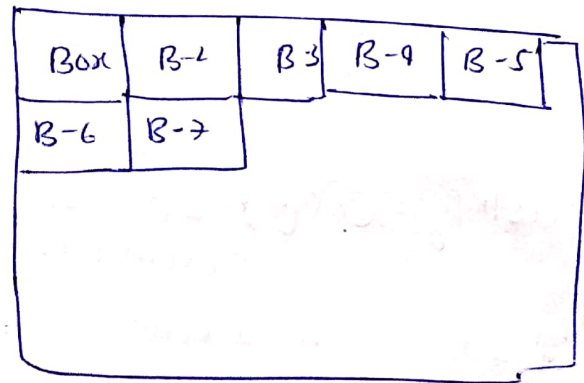
```
box-2 {  
Same as box-1  
}
```

```
box-3 { Same as above }
```



if we want to wrap the box without leaving the space after first row

use
align-content: flex-start;
in container



align-content: center;

