

* Grid-Display...

→ By listening to grid what firstly comes to our mind is a 2D structure. A 2D structure like a Matrix.

We use Property → `display: grid;`
`display: inline-grid;`

Ex → `.grid {`

`display: grid;`
`grid-template-columns: 40px auto
50px auto;`

}

So, grid-template-columns gives the space to the elements in that particular 2D structure or as of now we have table so in the table.

→ When we do,

(display: grid;)

→ The elements will occupy the entire width on the screen]

[Whereas, when we do -

(display: inline-grid)

→ The elements will only occupy the width which they need acc. to their actual element width not the complete width present on the screen.]

* Properties →

①

grid-template-columns: 50px 50px auto auto;

Apart from 'px' and 'auto' we can also use

'fr' which stands for 'fraction'.

(Ex → grid-template-columns: 1fr 1fr 1fr 1fr;)

② grid-template-rows: 50px 50px 50px;

③ grid-row-gap: 25px;

"Provides a margin or gap of 25px between each row."]

④ grid-column-gap: 40px;

"Provides a gap of 40px b/w each column."]

* We have a shorthand Property for "grid-row-gap" and "grid-column-gap"

→ grid-gap: 25px 40px;
↓ ↓
row column. ↴

* Just in case we want to style a particular element of a column or a column.

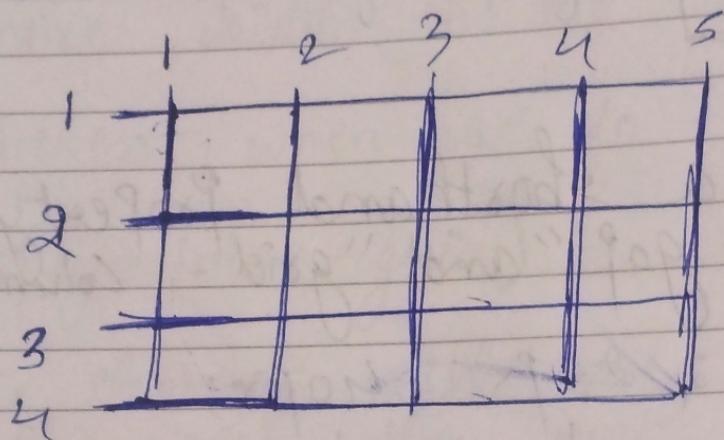
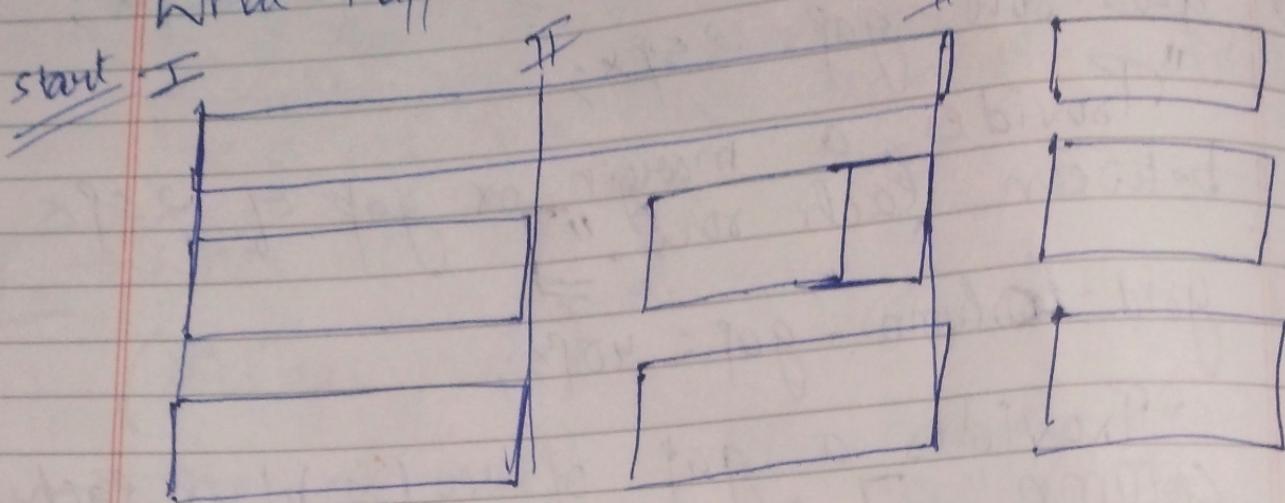
→ We do →

grid-column-start: 1;

grid-column-end: 3;

background-color: yellow; ↴

What happens is → (End).

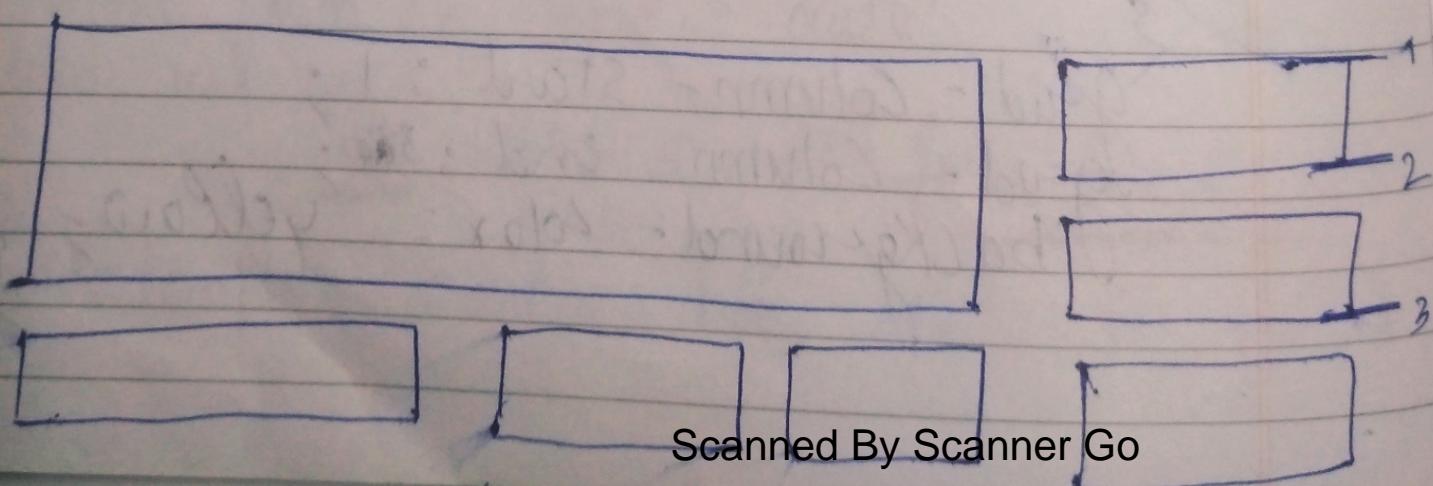


→ Similarly, in the case of rows →

We use,

{

grid - row - start : 1;
grid - row - end : 3;



* If we want to have same width for all columns so instead of writing it again and again what can be done is →

→ grid-template-columns : repeat(4, 150px);
 ↓ ↓
 no. of width
 columns of by

* Shorthand-Property for →

[grid-column-start and grid-column-end]

→ grid-column : 1/4; or 1/span 3;

for row →

grid-row : 1/3; or 1/span 2;

* Grid-Alignment →

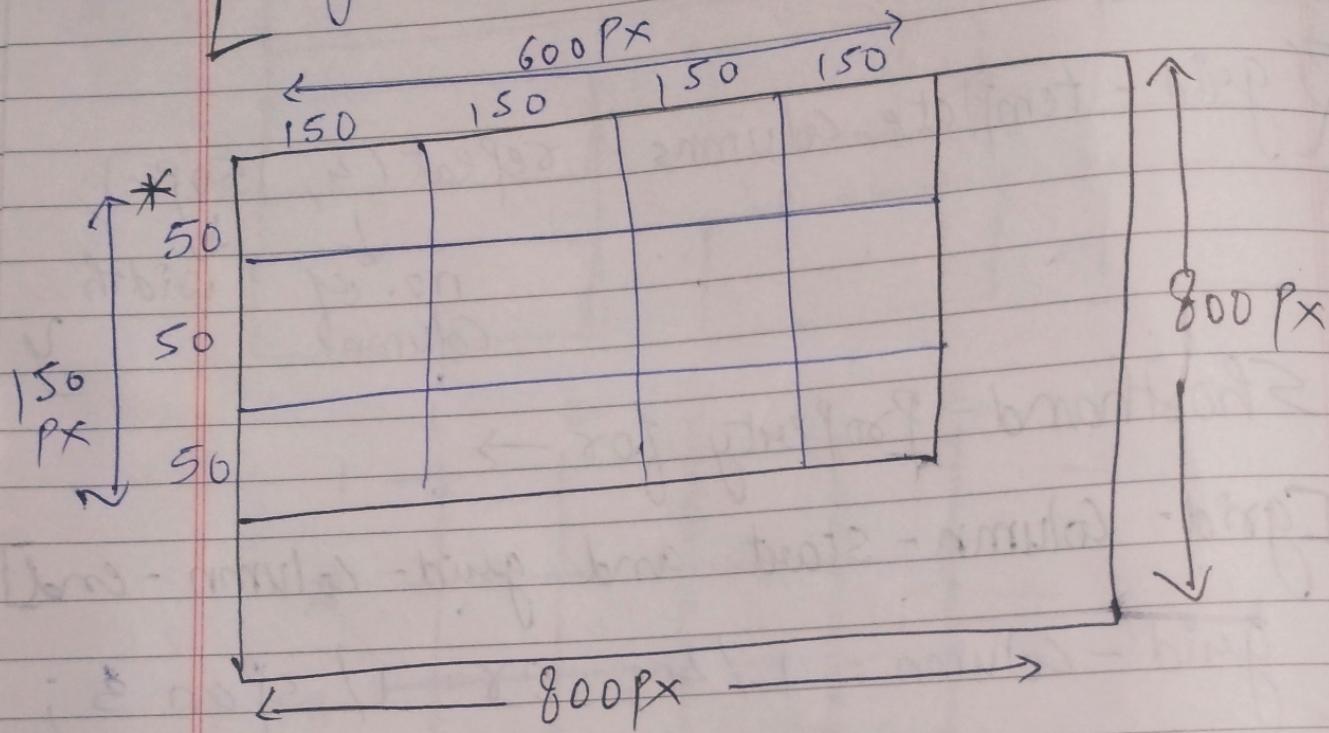
→ To align the items inside grid in a particular cell.

→ for aligning the content horizontally we do is →

[justify-items : center / stretch / start / end;]

Date:

the Content in the grid
→ To Align ~~the~~ vertically we do is →
align-items: baseline, center / stretch / flex-start, / flex-end;



→ So, as in the above fig. the actual container is of 800px width and is of height 800px.

→ Now, when we align content of grid inside the main-container with the width which we require then it will not cover up the whole space ~~in~~ in the container.

→ So, in-order to fix this we use-

"justify-content" and "align-content".
[Horizontally] [Vertically]

{ justify-content: start / end / center / space-between / space-around / space-evenly; }

(gives space b/w the columns)

{ align-content: space-between / space-around / space-evenly; start; }

(gives space b/w the rows)

* In order to align a particular cell we use →

{ align-self: center; }

→ It works vertically...

{ justify-self: center; }

→ It works horizontally...

* Responsive Design →

→ It means that how you are making your website so that it gets accommodated easily in every screen size, be it mobile view, web-view etc..

- 2
- ① → 320 - 480 px → Mobile Devices, tablets
 - ② → 481 - 768 px → iPad, small screens, laptops.
 - ③ → 769 - 1024 px → Desktops, large screens
 - ④ → 1025 - 1200 px → TV, xl screens.
 - ⑤ → 1201 and more → [Complete height/width..]

We do it with →

[The screen on which we see everything on mobile screen.]

<meta name="viewport" content="width=device-width, initial-scale=1.0">

[The width on which rendering is happening should be equal to the device-width.]

[We want things to be shown as it is no zoom-in/out]

So, when we go to mobile view and the width is 360px so everything will be rendered in 360px only.]

We use →

@media screen and (min-width: 320px)
and (max-width: 480px) .

{
body {

background-color: yellow;

}