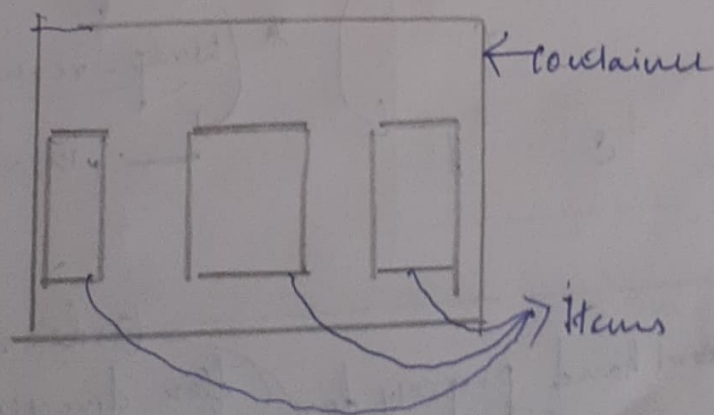


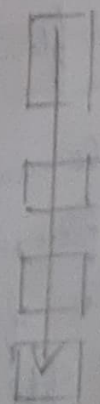
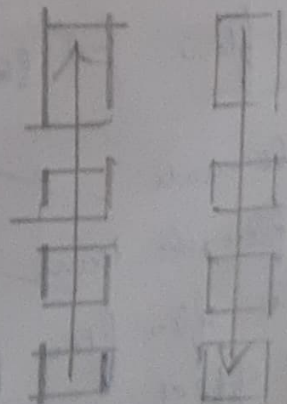
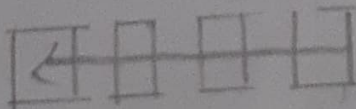
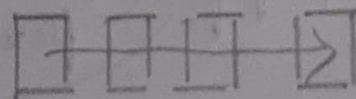
Flexbox

- CSS display type design to help us craft CSS layouts quite easily.
- Control the position, size, spacing of elements relative to their parent elements & each other.
- Makes it easier to design flexible responsive layout structure without using float or positioning.
- Great for responsive designing.
- Has its own set of properties.
- Defines formatting context which controls layout.
- Is parent-child relationship.

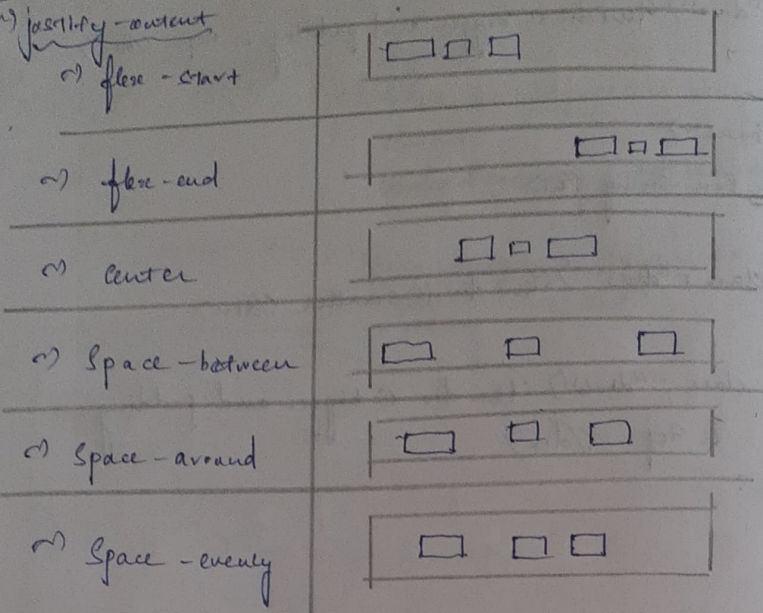


flex-direction

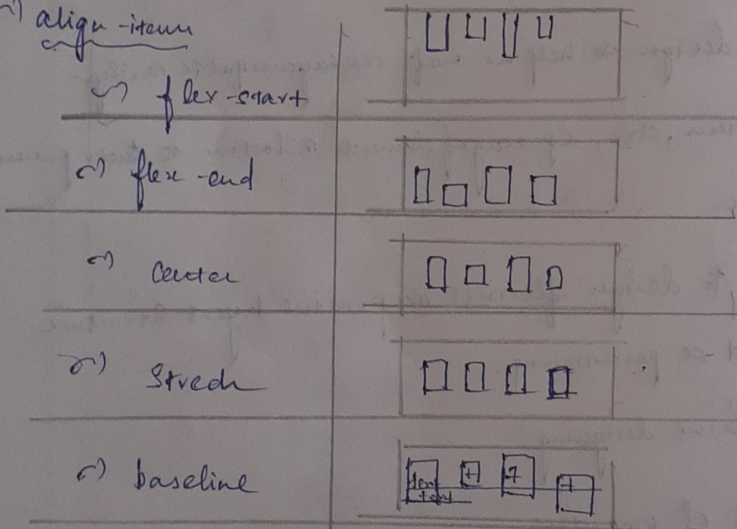
- row
- row-reverse
- column
- column-reverse



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 justify - content
 flex - start

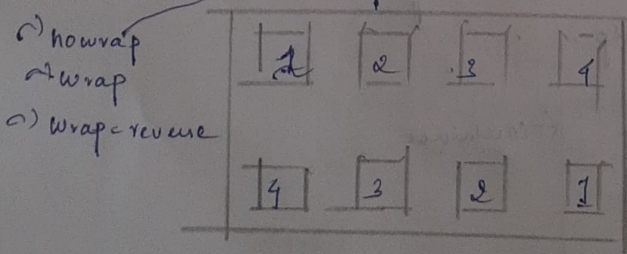


align-items
 flex-start



same size

flex-wrap
 default



wrap that specifies flexible item will wrap if necessary.
 wrap-reverse
 for reverse order.

flex-flow
 shorthand property for flex-direction, flex-wrap, flex-grow, flex-shrink, flex-basis.
 If the elements are not flex items then flex flow property has no effect.

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- 1) align - content : used to align the flex items
 - Stretch - default
 - center
 - all combination of properties of justify content - align-items

2) justify - content : Aligns the flexible container items when the items do not use all available space on main axis
(pg no 168) Horizontally

3) Perfect centering (pg no 171 eq 3)
Set both 1) justify content
2) align items } center & flex item will be centered perfectly.

flexbox.html

eg 17

```

<!DOCTYPE html>
<html>
  <head>
    <style>
      .flex-container {
        display: flex;
        background-color: #d3d3d3;
      }
      .flex-container > div {
        background-color: #d3d3d3;
        margin: 10px;
        padding: 20px;
        font-size: 30px;
      }
    </style>
  </head>
  <body>
    <div class = "flex-container">
      <div> 1 </div>
      <div> 2 </div>
      <div> 3 </div>
    </div>
  </body>
</html>

```

1 ~ ~ 1p direct child elements of the flexible container automatically becomes flexible items. <p> ~ ~

```

</body>
</html>

```

To eg 2) (DOCTYPE html) flex-wrap.html

<html>

<head>

<style>

flex-container-1 {

display: flex;

flex-wrap: wrap;

background-color: #B0E0E6;

}

flex-container-2 {

display: flex;

flex-wrap: nowrap;

background-color: #B0E0E6;

}

flex-container-1 > div {

background-color: #D0E0E0;

width: 100px;

margin: 10px;

text-align: center;

line-height: 1.5em;

font-size: 30px;

}

flex-container-2 > div {

background-color: #D0E0E0;

width: 100px;

margin: 10px;

text-align: center;

line-height: 1.5em;

font-size: 30px;

}

</style>

</head>

<body>

<h3 style="text-align: center;">Try resizing the browser window </h3>

<h3>flex-wrap: wrap; </h3>

<div class="flex-container-1">

<div> 1 </div>

<div> 2 </div>

<div> 3 </div>

<div> 4 </div>

<div> 5 </div>

<div> 6 </div>

<div> 7 </div>

<div> 8 </div>

<div> 9 </div>

<div> 10 </div>

</div>

</div>

(1)

```
<h1>
<h2><h3>
<h3> flex-wrap: nowrap; </h3>
<div class="flex-container">
  <div> </div>
  <div> </div>
  <div> </div>
  <div> </div>
</div>
</body>
</html>
```

eg3: perfect-centering.html

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      .flex-container {
        display: flex;
        justify-content: center;
        align-items: center;
        height: 300px;
        background-color: #0000ff;
      }
      .flex-container > div {
        background-color: #000000;
        color: #ffffff;
        width: 150px;
        height: 100px;
        text-align: center;
      }
    </style>
  </head>
  <body>
    <div class="flex-container">
      <div> PERFECT CENTERING </div>
    </div>
  </body>
</html>
```

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flex-items

(Can refer the diagram in pg no 167)

properties

order

Specify the order of flex items

flex-grow

Specify how much flex item grows relative to rest of flex item.
default: 0

flex-shrink

vice versa of (flex-grow)
default: 1

flex-basis

flex

Specify initial length of flex item.

Shorthand property

flex-grow flex-shrink flex-basis

align-self

Specifies alignment for the selected item inside flexible container.

Overrides the default alignment set by container's align-items property.