

## Topics:

### measurements / Units:

#### Absolute Unit:

px - pixel, pt - point, pc - picas

1px = 1/96th of an inch

1pt = point 1/72th of an inch

1pc = picas, 12 \* 1pt or 1/6th of inch

#### Relative Units:

%, vh, vw,

1% -> 1 percent of the parent's property value

vw -> viewport width

1vw -> 1 % viewport width

vh -> viewport height

1vh -> 1 % viewport height

empheral units (font-size) default font-size ----> 16px

em, rem ---> root em

1rem = fontsize of the root element ( Initial Containing Block )

1em = fontsize of the parent element

2rem = 2 \* fontsize of the root element ( Initial Containing Block )

2em = 2 \* fontsize of the parent element

#### functions in CSS:

calc - calc(100% - 10px); 100% of width/height or any prop - 10px

#### Flex-Box:

display: flex;

it takes over the control of the children's (width & height) & behavior

#### flex-wrap:

wrap -> wraps the children horizontally when a width reduces less than child width

nowrap -> shrinks the width of the children to accommodate inside parent

direction -> row: children placed in single row

justify-content moves content horizontally

align-content moves content vertically

Values:

start

center

end

space-evenly

space-around

space-between

align-items moves content vertically

start

center

end

direction -> column: children placed in single column

justify-content moves content vertically

align-content moves content horizontally

start

center

end

space-evenly

space-around

space-between

```
align-items moves content horizontally
start
center
end
```

Children Props:

```
flex-shrink: 0/1; // shrink flag while there is no enough width
flex-grow: 0/1; // grow flag while there is some width left
```

How to center a div in the page

Layout Building:

Layout is the structure of the website which may contain below elements,

1. Header
2. Sidebar ( May be either or both the sides )
3. Main content
4. Footer

Task:

Create a simple Layout, the layout should have the following,

```
Header
Sidebar
Main Content
Footer
```

Please create a separate folder for each task on Your local system for Your reference.

Do & Keep it ready, next week will give instructions for submission

Next Session:

RWD ( Responsive Web Design )

Make a website look good in all the devices ( all sizes )

Media Query:

Chaining the CSS values based on the sizes of screen ( width of the screen )