

Date: 19-05-2020

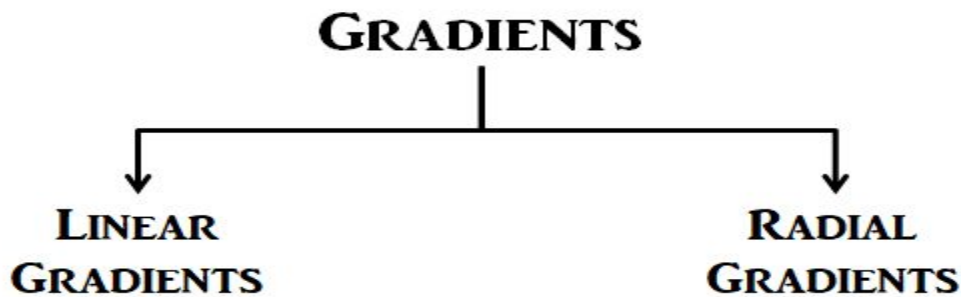
Morning Session: 9 am – 12 PM

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Today Topics: Flex & Gradient

Gradients : Gradients allow to display smooth transitions between two or more colors.

There are two types of Gradients.



- Linear Gradients (goes down /up /left /right /diagonally)
- Radial Gradients (defined by their center)

Resource :

- 1) https://www.w3schools.com/css/css3_gradients.asp
- 2) <https://www.youtube.com/watch?v=4kWHW7da4U8>
- 3) Beautiful UI gradients : <https://uigradients.com/#Shifty>

Flex: which is allows you to align elements in one dimension manner either rows / columns

Grid : which is allows you to align elements in two dimensions manner rows and columns

(A better way to have layouts in our websites...)

Syntax:

`display:flex;`

Flex Properties:

- 1) **flex-wrap:** The flex-wrap property is used to define the wrap of flex-items. If flex-wrap property is set to wrap then the browser's window sets the box. If the browser window is smaller than elements then elements go down to the next line.

```
// Wrap flex items when necessary
flex-wrap: wrap;

// Flex items will not wrap
flex-wrap: nowrap;
```

- 2) **align-content:** This property defines how each flex line is aligned within a flexbox and it only applicable if flex-wrap: wrap is applied i.e. if there are multiple lines of flexbox items present.

```
// Displays the flex lines with equal space between them  
align-content: space-between;
```

```
// Displays the flex lines at the start of the container  
align-content: flex-start;
```

```
// Displays the flex lines at the end of the container  
align-content: flex-end;
```

```
// Dy using space-around property space will be  
// Distributed equally around the flex lines  
align-content: space-around;
```

```
// Stretches the flex lines  
align-content: stretch;
```

- 3) **justify-content:** The justify-content property is used to align the flex items according to the main axis within a flexbox container.

```
// Aligns the flex items at the center
justify-content: center;

// The space is distributed around the flexbox items
//and it also adds space before the first item and after the last one.
justify-content: space-around;

// Space between the lines
justify-content: space-between;

// Aligns the flex items at the beginning of the container
justify-content: flex-start;

// Aligns the flex items at the end of the container
justify-content: flex-end;
```

- 4) **align-items:** This property is used to align flex items vertically according to the cross axis.

```
// Aligns the flex items in the middle of the container
align-items: center;

// Flexbox items are aligned at the baseline of the cross axis
align-items: baseline;

// Stretches the flex items
align-items: stretch;

// Aligns the flex items at the top of the container
align-items: flex-start;

// Aligns elements at the bottom of the container
align-items: flex-end;
```

flex-direction: The flex-direction is used to define the direction of flexible item. The default axis is horizontal in flexbox, so the items flow into a row.

```
// Stacking flex items column wise
flex-direction: column;

// Stacking flex items from bottom to top
flex-direction: column-reverse;

// Stacking flex items row wise
flex-direction: row;

// Stacking flex items from right to left
flex-direction: row-reverse;
```

Note : The **flex-flow** is a shorthand for **flex-direction** and **flex-wrap**.

Resources :

- 1) <https://www.youtube.com/watch?v=-Wlt8NRtOpo>
- 2) <https://www.youtube.com/watch?v=fYq5PXgSsbE>
- 3) <https://www.freecodecamp.org/news/flexbox-the-ultimate-css-flex-cheatsheet/>

Other Resources :

- 1) Flexbox froggy: <https://flexboxfroggy.com/>
- 2) Flexbox zombies <https://mastery.games/flexboxzombies/>

Coding challenge :

<https://docs.google.com/document/d/108T0Jt4vz67CLMR9eGgxxWsyWUYKHnm4612sTiKy0Q0/edit>

SESSION - END

THANK YOU