Skill Training
Advanced CSS

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Schedule for Advanced CSS & JS

Day1   : Advanced JS : ES6, Arrow Functions,…

Day2   : Advanced JS : OOPs, Modules, Closures

Day3   : Advanced JS : Asynchronous, Promises,…

Day4   : Advanced CSS : CSS3 Layouts, Media Queries

Day5   : Advanced CSS: UI Frameworks

Advanced CSS
CSS3 Layouts, Media Queries

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Index – Day4

1. **CSS3 new features**

2. **Media Queries**

3. **Page designing using Flexbox**

4. **CSS Grid Layouts (Responsive websites)**

CSS Layouts

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Responsive Web Design (RWD)

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Media Queries

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Media Queries

- Responsive web page designing can be implemented using Media Queries.

- Media query is a CSS technique introduced in CSS3.

- It is used control the web designing settings across multiple devices like desktop, mobile, tablet etc..

- Media queries helps us to control the layout based on the devices dimensions.

CSS Media Queries

Media Queries

```
@media only screen and (max-width: 400px)
{

    .......

}
```

Media Queries

```
@media only screen and (max-width: 400px)
{
        #div1
        {
        column-count : 1;
        background-color : lightblue;
        }
}
```

Media Queries

```
<link
        rel="stylesheet"
        href="MyStyles_Mobile.css"
        media="only screen and (max-width: 500px)" />
```

Flexbox Layout

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- Block, for sections in a webpage
- Inline, for text
- Table, for two-dimensional table data
- Positioned, for explicit position of an element

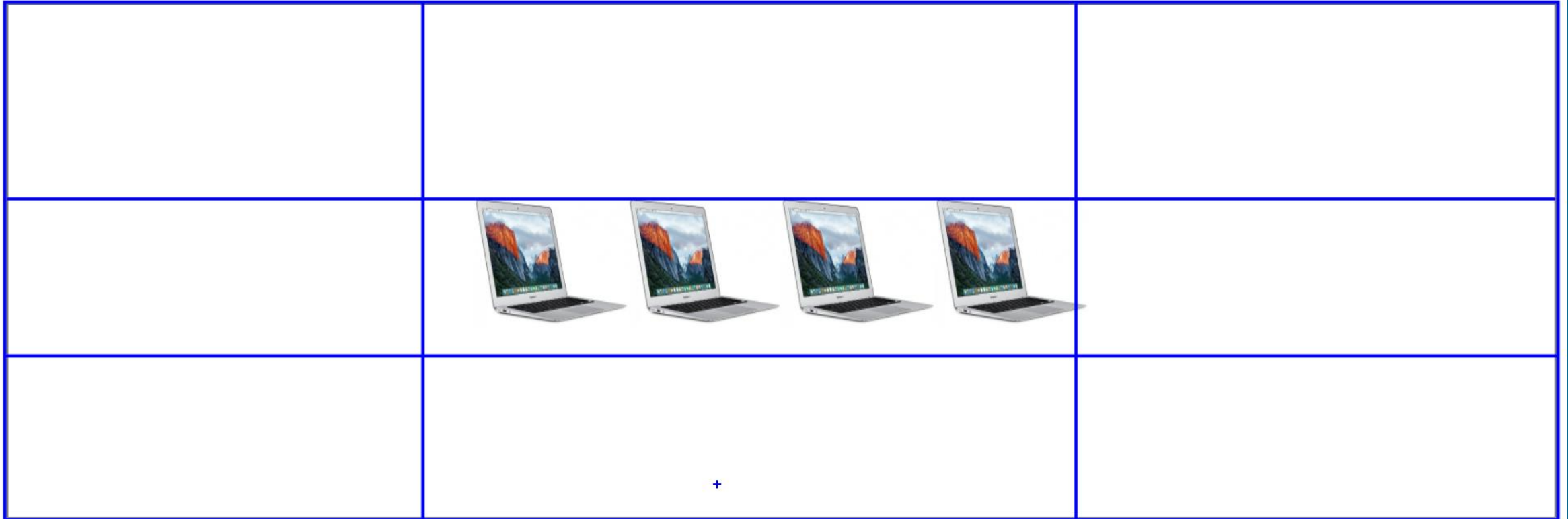# What is FlexBox?

- CSS flexbox is a layout pattern that makes it easy to design flexible and effective layouts.
- The use of flexbox ensures that elements are properly placed and are predictable.
- Flex items are positioned inside a flex container along a flex line.
- By default, there is only one flex line per flex container.

What is FlexBox?

- Flex Container
  a. display : flex
  b. flex-direction : row / column / row-reverse / column-reverse ;
  c. flex-wrap: wrap / wrap-reverse / nowrap;
  d. justify-content : flex-start / flex-end / center;
  e. align-items: flex-start / flex-end /center;

- Flex Container Items
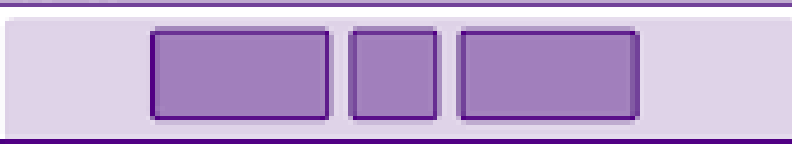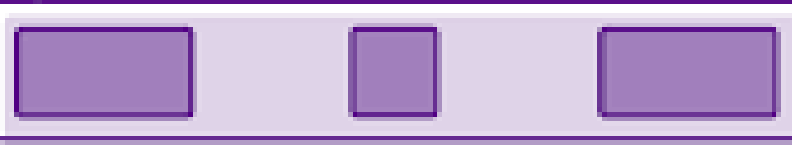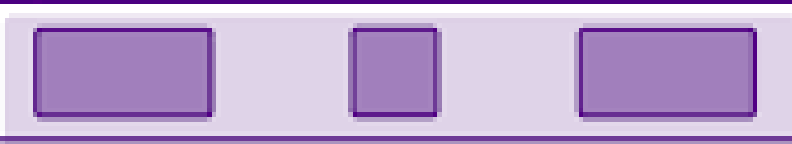 a. flex : 30%

Working with CSS3

Justify-content
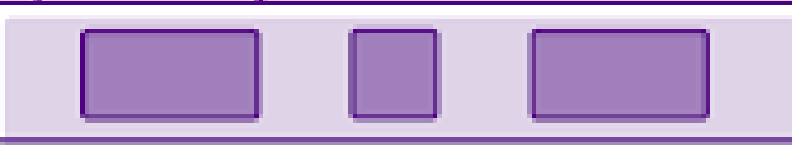
Further References

- https://www.w3schools.com/css/css3_flexbox.asp
- https://css-tricks.com/snippets/css/a-guide-to-flexbox/
- https://www.freecodecamp.org/news/css-flexbox-tutorial-with-cheatsheet/

Grid Layout

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Grid - Properties

- display: grid;
- grid-template-rows: 1fr 1fr 1fr;
- grid-template-columns: 1fr 1fr 1fr;
- grid-gap: 2vw;

Grid – using repeat()

- grid-template-rows: 1fr 1fr 1fr 1fr 1fr;
- grid-template-rows: repeat(5, 1fr);

Practice Hands-Ons

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Q & A

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CSS3 Modules

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CSS3 Modules

- Selectors
- Box Model and Borders
- Text Effects
- Animations
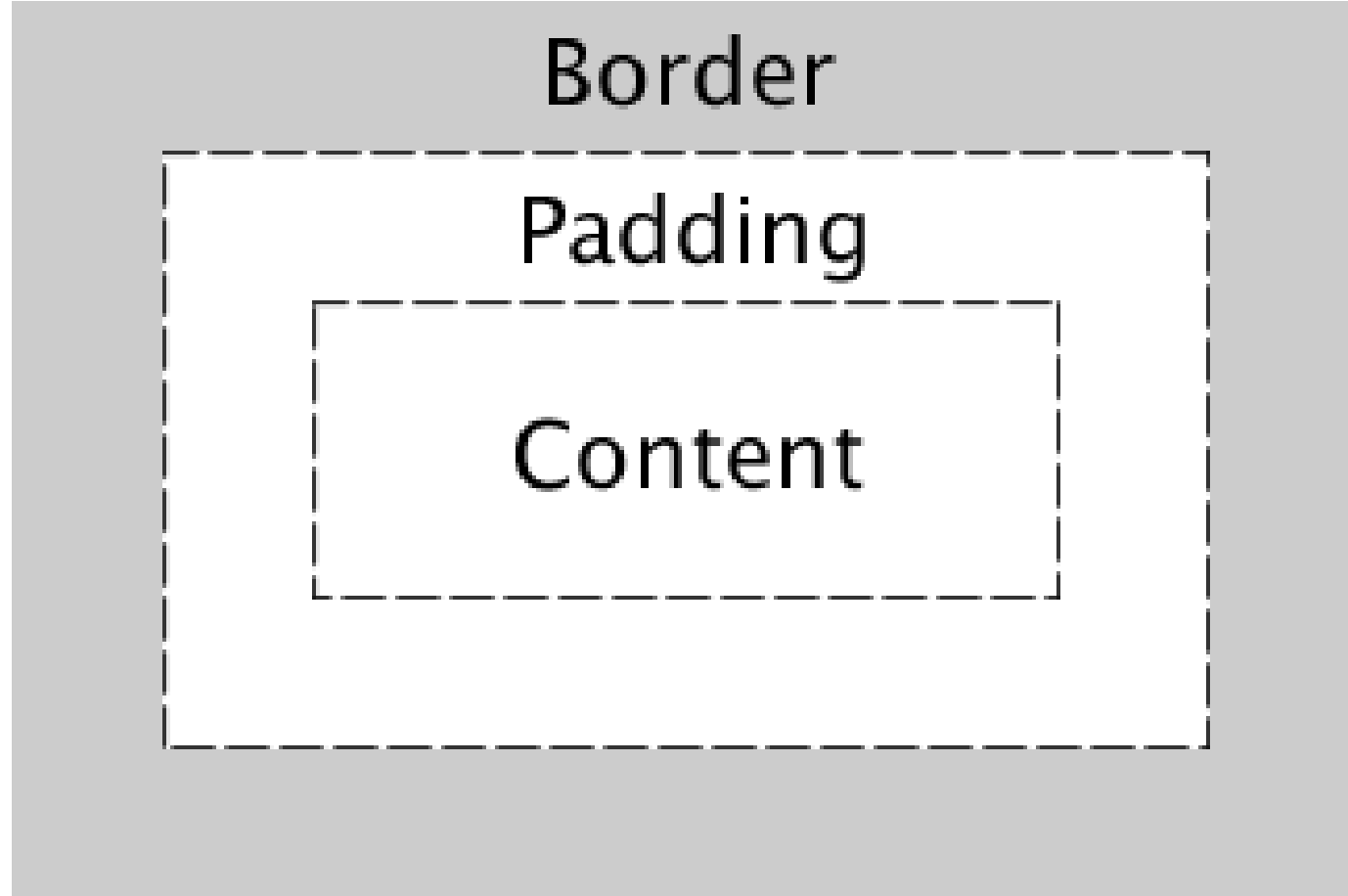- Multiple Columns
- FlexBox Layouts & Grid Layouts
- Media Queries

Box Models

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Box Model

1. box-shadow: 10px 10px 5px Pink;

2. border-top-left-radius   : 25px;

3. border-top-right-radius : 25px;

4. border-bottom-left-radius : 25px;

5. border-bottom-right-radius : 25px;

Multi-column

Multi-column

Tincidunt urna, turpis rhoncus placerat non odio et sit integer et dolor rhoncus pellentesque enim urna ultrices vut cursus tortor a dis, ac nunc cum. Eu. Nec elementum. Turpis pulvinar in risus? Amet pid eu parturient nisi egestas proin. Cum, pulvinar nunc parturient porta, vel enim pellentesque! Lorem, scelerisque cursus in natoque vel porta? Magna augue tincidunt lacus rhoncus placerat, a

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Multi-column

CSS3

Sunrisers Hyderabad captain David Warner credited his bowlers after his side registered a massive 10-wicket win over Gujarat Lions on Thursday night. Opting to bowl, Bhuvneshwar Kumar's four for 29 helped SRH restrict Gujarat Lions to 135 for eight on a two-paced track.

Boosted by his team's bowling performance, Shikhar Dhawan too roared back to form to hit an unbeaten 53 as SRH posted their second successive victory in the Indian Premier League 2016. Skipper Warner too continued with his rich vein of form to hit 74 not out off just 48 balls.

I have to give credit to the bowlers. Gives us a great opportunity to play the way we want to play with the bowlers restricting the opposition. Our bowlers were fantastic. Bhuvi and Fizzy, his change of pace is very different. I faced him in Bangalore and he tried to knock my block off. It's a great art to change the pace as he does.

way in the tournament," Warner said.

Man of the Match Bhuvneshwar Kumar was elated with his performance and said Aaron Finch's wicket was a big boost.

It was a big boost. He was the one who scored runs for them, won all three matches for them. Wanted to get him early on. Heavily dependent on top three, they are. If we could get them out, the team wouldn't score too many," Bhuvneshwar said.

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rich vein of form to hit 74 not out off just 48 balls.

"I have to give credit to the bowlers. Gives us a great opportunity to play the way we want to play with the bowlers restricting the opposition. Our bowlers were fantastic. Bhuvi and Fizzy, his change of pace is very different. I faced him in Bangalore and he tried to knock my block off. It's a great art to change the pace as he does.

"Proud of the way the bowlers are bowling and if we keep chasing totals like this, we'll go a long way in the tournament," Warner said.

Man of the Match Bhuvneshwar Kumar was elated with his performance and said Aaron Finch's wicket was a big boost.

"It was a big boost. He was the one who scored runs for them, won all three matches for them. Wanted to get him early on. Heavily dependent

Multi-columns

1. column-count:4;

2. column-gap : 10px;

3. column-rule: 5px double Red;

CSS3 Animations

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Animation Properties

1. Define Animation behavior using @keyframes
2. Apply the animation

1. Define Animation

@keyframes AnimationName
{

       from { …… }
       to { …..}
}

@keyframes Animation1
{
  from {width:50px;   height: 50px; }
  to   {width:300px; height:300px; }
}

2. Apply Animation

1. animation-name: AnimationName;
2. animation-duration: 4s;
3. animation-delay: 2s;
4. animation-iteration-count: 1/n/infinite;
5. animation-direction: reverse / alternate / normal;

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