

CSS Media Queries

1. CSS Media Queries:

- a. The **@media** rule, introduced in CSS2, made it possible to different style rules for different media types.
- b. Media Queries can be used to check many things such as:
 - i. Width and height of the viewport.
 - ii. Orientation of the viewport (Landscape or Portrait)
 - iii. Resolution
- c. Using Media queries are a popular technique for developing a responsive for the desktops, laptops, and mobile phones.
- d. *Simple use of media queries is that it will adapt the resolution according the screen size and change the styles of an element as per requirement of the screen size.*

2. Why do we use media queries?

- a. We use CSS media queries for making a responsive design of web page according to each and every screen size with the help of some breakpoints.

3. Media Query Syntax:

- a. A media query consists of a media type and can contain one or more media features which resolve to either true or false.
- b. **Syntax:**

```
@media mediatype (media-feature) and (media-feature) {  
    CSS Code;  
}
```

c. The anatomy of media queries ⇒

| | | | | |
|---------|------------|--------------------|----------|--------------------|
| @media | screen | (min-width: 320px) | and | (max-width: 768px) |
| AT-RULE | MEDIA TYPE | MEDIA FEATURE | OPERATOR | MEDIA FEATURE |

d. Typical Device Breakpoints ⇒

- i. *Extra small devices* (phones, *600px and down*) → @media only screen and (max-width: 600px) {...}
- ii. *Small devices* (portrait tablets and large phones, *600px and up*) → @media only screen and (min-width: 600px) {...}
- iii. *Medium devices* (landscape tablets, *768px and up*) → @media only screen and (min-width: 768px) {...}
- iv. *Large devices* (laptops/desktops, *992px and up*) → @media only screen and (min-width: 992px) {...}
- v. *Extra large devices* (large laptops and desktops, *1200px and up*) → @media only screen and (min-width: 1200px) {...}

e. Media Type ⇒

- i. *screen* ⇒ Used for computer screens, tablets, smart-phones etc.
- ii. *print* ⇒ Used for print preview mode
- iii. *speech* ⇒ Used for screen readers purpose.
- iv. *all* ⇒ Matches all the device types.

f. Orientation Media queries can also be used to change layout of a page depending on the orientation of the browser.

- i. landscape
- ii. portrait