

Media Queries in CSS:

Media queries are a **tool** in CSS that help you **change** how your website looks based on the device it's being used on. Whether it's a **phone**, **tablet**, or **desktop**, media queries make sure your website **works** on any screen size.

Purpose of Media Queries in Web Design:

- ***Responsive Design:***

Media queries help your website **fit** any screen size. Whether you're on a **phone**, **tablet**, or **desktop**, it will always be **easy to use** and **look good**.

- ***Optimized User Experience:***

They make sure the website is **comfortable** to use. For example, **font size** or **image size** can change to make things **easier** to read, so users have a better experience.

- ***Device Adaptability:***

Different devices show content in different ways. A phone can be used in **portrait** (up and down) or **landscape** (sideways) mode. Media queries adjust the design to make sure everything looks right.

- ***Performance:***

Media queries help your website **load faster**. They can use **smaller images** or hide things when the screen is small, so your site loads more quickly, especially for slower internet speeds.

- ***Efficiency:***

Instead of making a new version of your website for each device, media queries let you use **one version** that works on all devices. This saves time and effort and makes sure everything works well.