



Mobile experiences aid

CSS Media Queries

```
@media only screen and (min-width: 600px) { ... }
```

If screen width is less than or equal to 600px, perform this...

```
@media only screen and (max-width: 1200px) { ... }
```

If screen width is bigger than or equal to 1200px, perform this...

```
@media only screen and (max-width: 1200px) and min-width(600px) {...}
```

If screen width is between 600 and 1200px wide, perform this...

Breakpoints

Example breakpoints from Bootstrap (mobile-up):

```
// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```



mobiledetect

- PHP Library that detects device you are on
- Let you adapt code to the device
- <http://mobiledetect.net/>

```
// Include and instantiate the class.  
require_once 'Mobile_Detect.php';  
$detect = new Mobile_Detect;  
  
// Any mobile device (phones or tablets).  
if ( $detect->isMobile() ) {  
  
}
```

jQuery Mobile



- Touch-optimized web framework
- Useful for forms / user active interaction
- <http://jquerymobile.com/>

Responsive and adaptive template

- A starting template that includes a CSS-file with responsive breakpoints and Mobiledetect to allow for both responsive and adaptive design
- Template: <http://www.it.hiof.no/~toremake/comdes17/responsive-template/responsive-adaptive-template.php>
- Source code:
<http://www.it.hiof.no/~toremake/comdes17/responsive-template/responsive-adaptive-template.php>

Modernizr

- Modernizr tells you what HTML, CSS and JavaScript features the user's browser has to offer.
- <https://modernizr.com/>
- <http://html5doctor.com/using-modernizr-to-detect-html5-features-and-provide-fallbacks/>

Ionic Mobile App Framework



- Both online editor and code framework
- <http://ionic.io/>
- Thorough tutorial: <https://www.youtube.com/watch?v=IrwrZBBOiP8>

Framework 7

- Mobile app HTML5 framework
- <http://framework7.io/>

