Introduction to Web Design

Responsive Design

A Dao of Web Design

"The control which designers know in the print medium, and often desire in the web medium, is simply a function of the limitation of the printed page. We should embrace the fact that the web doesn't have the same constraints, and design for this flexibility. But first, we must 'accept the ebb and flow of things.'"

—John Allsopp, "A Dao of Web Design"

Responsive Design

Mobile traffic is as (if not more) relevant as desktop traffic now.

We should build for the type of screens that will be used to access our sites.

Responsive web design uses "media queries" to figure out what resolution of device it's being served on.

Flexible images and fluid grids size correctly to fit the screen.

Responsive web design is design for flexibility.

Foundations of Responsive Design

Responsive Design

Flexible grids (fluid layouts)

Media queries

Flexible, responsive images

Media Queries

Features you can include in a media query include :
width, height, device-width, device-height, orientation,
aspect-ratio, device-aspect-ratio, color, color-index,
monochrome, resolution, scan grid

Most of the above can be combined with `min-` and `max-`
prefixes.

The most common media queries assess `min-width` and
`max-width`.

Media queries can be used to load an alternate style sheet or,
more commonly, to offer alternate styles within an existing
style sheet.

Media Query Syntax

CSS media queries use the @media rule followed by two optional values: "`only`" or "`not`"

"`only`" screens out older browsers from reading the rest of the query.

"`not`" negates the result: "`not screen`" means everything except screen-based media.

A feature: value pair, enclosed by parentheses, comprises the essence of the media query.

Media features that can be assessed are predefined.

Multiple feature: value pairs can be combined with "`and`".

Introduction to Web Design

CSS Rule Set

```css
body {
  background-color: orange;
}
```

Responsive Design

CSS Rule Set with a Media Query

```css
@media only screen and (min-width: 480px) {
  body {
    background-color: orange;
  }
}
```