HTML Responsive Web Design

Responsive Web Design is about using HTML and CSS to automatically resize, hide, shrink, or enlarge, a website, to make it look good on all devices (desktops, tablets, and phones):

Setting the Viewport

To create a responsive website, you have to set the viewport of the code so that the browser looks out for the viewport (i.e. width of the browsing device) and then set the content to fit the screen width.

To set the viewport, add this line of html code:

```
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
```

Responsive Images

Responsive images are images that scale nicely to fit any browser size. You can make images responsive by setting their width to 100% and the height to auto.

Another way to do this is to set the max-width property to 100% and the height to auto. The max-width recognizes the actual width of the image so that it does not get blur: this is the major difference between the max-width and the width properties.

You can also use the `<picture>` tag. The picture tag usually contains nested source tags that set the image to be display at what media width. It also contains the default image just in case none of the media queries returns true.

Responsive Text Size

The text size can be set with a "vw" unit, which means the "viewport width".

That way the text size will follow the size of the browser window. There are other responsive font styles.

Media Queries

In addition to resize text and images, it is also common to use media queries in responsive web pages.

With media queries you can define completely different styles for different browser sizes.

Responsive WebDesign - Frameworks

All popular CSS Frameworks offer responsive design. They are free, and easy to use. Some examples are w3.css, bootstrap, and foundation.

W3.CSS

W3.css is a modern CSS framework with support for desktop, tablet, and mobile design by default. W3.css is similar and faster than similar CSS frameworks. W3.css is designed to be a high quality to Bootstrap. W3.css is designed to be independent of jQuery or any other JavaScript library.

Bootstrap

Another popular CSS framework is Bootstrap. Bootstrap uses HTML, CSS and jQuery to make responsive web pages.

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