Day 1

What is Responsive Web Design?

Responsive web design is about making the HTML and CSS automatically resize, readjust, hide element so that the website will look nice on different devices such as desktop, tablet and phone.

Setting Viewport

To create a responsive website we start by adding the follow <meta> tag to your head section of the HTML.

This tag tell the browser instructions on how to control the website dimensions and scaling.

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

Mobile First

Mobile First design is a design approach of designing the website for mobile first before thinking about how the desktop version will look like.

Always make sure your website have a proper design for mobile since user look at website from mobile phone and tablet a lot these day.

Media Query

Media query are rule to include a block of CSS properties only if certain condition is true. This is useful for checking multiple different screen width size and enabling certain CSS properties.

Example code below -

```css
@media only screen and (max-width: 600px) {
  body {
    background-color: red;
  }
}
```

The CSS code above is checking if the browser windows is 600 px or less. If the browser windows is 600 px or less, it will render the whole background color as red.

Max-width = maximum width of 600px or below.
Min-width = minimum width of certain px and above.

Typical Media Query Breakpoints

These are the typical breakpoints but you may adjust it as needed to make your website looks good on all different screen size.

```css
/* Extra small devices (phones, 600px and down) */
@media only screen and (max-width: 600px) {...}

/* Small devices (portrait tablets and large phones, 600px and up) */
@media only screen and (min-width: 600px) {...}

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

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

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

Now let code a responsive layout and see what can be done.

Making a sliding side menu bar

We will refer to - https://slideout.js.org/

Exercise Time!

Make one of your older project you have done responsive. Make sure it looks good for phone, tablet and desktop views.

Time - 1 Week.