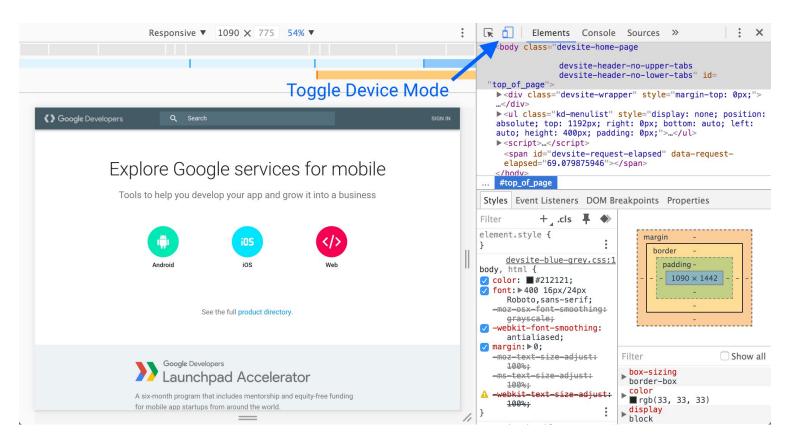
Week 6 Responsive Design

2017, Fall
Web Application Programming
Pusan National University
Ki-Joune Li

Before we start

- Click the responsive link and download wp_week6.zip file on the lecture site;
 http://lik.pusan.ac.kr/WP/2017/WP2017Fall.html
- Unzip and open extracted folder
- You can see responsive and navbar folders

Simulate Mobile Devices with Device Mode

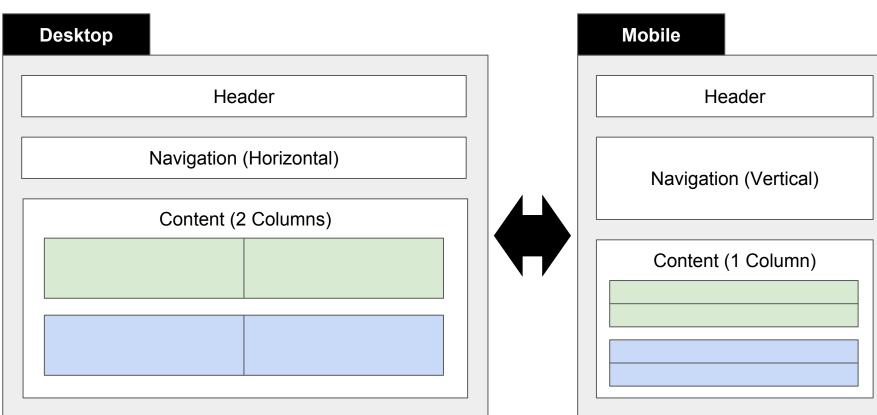


Setting The Viewport

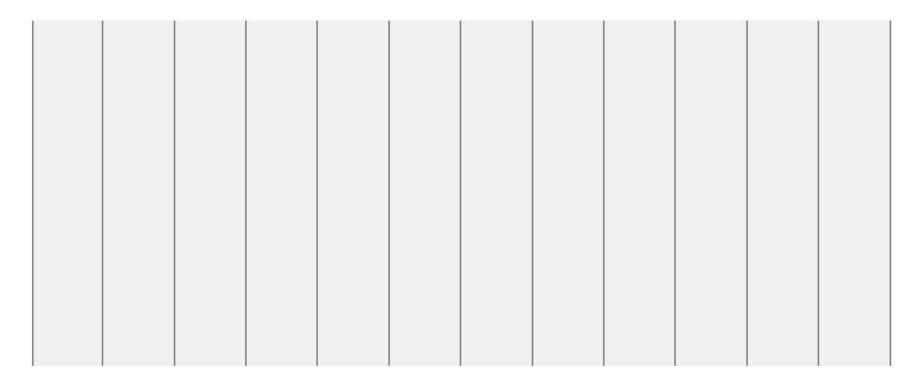
<meta name="viewport" content="width=device-width, initial-scale=1">

reference: https://www.w3schools.com/css/css_rwd_viewport.asp

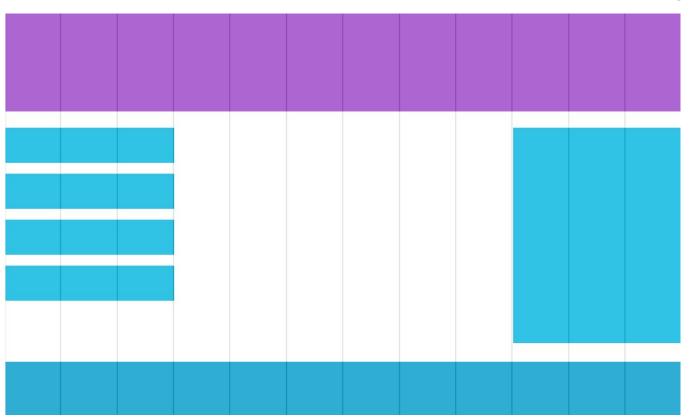
Let's Design the Layout



Grid-View



Grid-View makes it easier to place elements on the page



box-sizing property set to border-box

```
f {
    box-sizing: border-box;
}
```

This property makes sure that the padding and border are included in the total width and height of the elements

Responsive grid-view with 12 columns

.col-1 {width: 8.33%;}

.col-2 {width: 16.66%;}

.col-3 {width: 25%;}

.col-4 {width: 33.33%;}

.col-5 {width: 41.66%;}

.col-6 {width: 50%;}

.col-7 {width: 58.33%;}

.col-8 {width: 66.66%;}

.col-9 {width: 75%;}

.col-10 {width: 83.33%;}

.col-11 {width: 91.66%;}

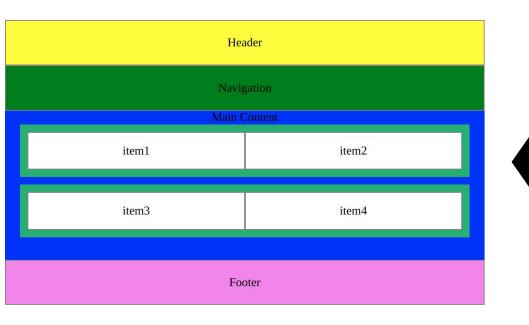
.col-12 {width: 100%;}

100% / 12 columns = 8.33 %

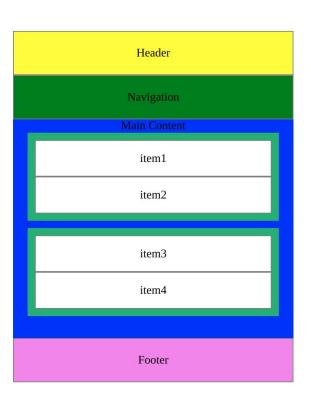
All these columns should be floating to the left

```
[class*="col-"] {
  float: left;
  padding: 15px;
  border: 1px solid red;
}
```

Try - Hint : CSS3 Media Queries



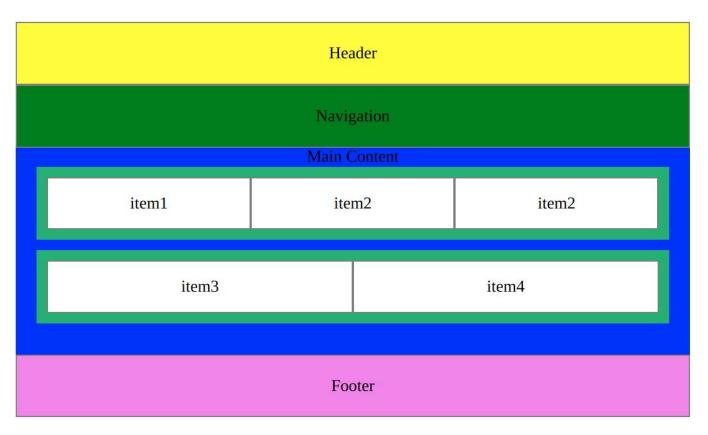




Hint: CSS3 Media Queries

```
@media screen and (max-width: 600px) {
}
```

Try - 3 Columns or 4 Columns Row



Navigation Bar

- Mainly Used :
 - HTML , , <a>
 - CSS: float, display, box model(padding, margin, border), psedo_class



Add style to tag

```
ul.nav {
           list-style-type: none;
           margin: 0;
           padding: 0;
           background-color: #333;
```

Add style to and <a> tags

```
ul.nav li a {
ul.nav li {
                                            display: block;
     display: inline;
                                            text-align: center;
    float: left;
                                            padding: 14px 16px;
                                            color: gray;
                                            text-decoration: none;
```

Add Home Icon

To use the Font Awesome icons, add the following line inside the <head> section of your HTML page

- link rel="stylesheet"
 href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
- refer http://fontawesome.io/icons/



Change the link color on hover and right align link

```
ul.nav li a:hover {
    color : <color>;
    background-color: <color>;
}

Logo About Services Portfolio Contact
```

ul.nav li.right {float: right;}

Create Fixed Navigation Bars

```
ul.nav {
    position: fixed;
    top: 0;
    width:100%
}
.content {
    margin-top: 50px;
}
```

Try - Responsive Navigation Bar



Homework

- Make it as similar to this example as possible without bootstrap or other libraries,
 - Portfolio-2-column-example based on bootstrap
 - You may refer it : https://www.w3schools.com/css/css3_pagination.asp
 - You don't need to use same pictures.
 - Deadline and submission page will be announced on the lecture website

Next Step - Bootstrap

Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

Get started

Download

Currently v4.0.0-beta

