Media Queries and Sass

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Media Queries  
  
@media  type  and (query)  
{  
  
}  
  
type        : screen, print, speech  
  
Syntax:  
        @media  print  
        {  
        }  
  
        @media screen  
        {  
        }  
  
  
Ex:  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>Keyframes</title>  
        <style>  
            @media screen {  
                p {  
                    border:2px solid red;  
                    background-color: yellow;  
                    color:red;  
                    padding: 5px;  
                }  
            }  
            @media print {  
                p {  
                    border:none;  
                    background: none;  
                    color:black;  
                }  
                img {  
                    display: none;  
                }  
            }  
        </style>  
    </head>  
    <body>  
         
            <p> <img src="../public/images/backpack.jpg" width="100" height="100"> Your use of this software is subject to the terms and conditions of the license agreement by which you acquired this software.  If you are a volume license customer, use of this software is subject to your volume license agreement.  You may not use this software if you have not validly acquired a license for the software from Microsoft or its licensed distributors.</p>  
         
    </body>  
</html>  
  
  
Queries  
======  
width                exact width of window.  
max-width                upto the width defined.  [upto 500px]  
                from starting to 500px  
  
min-width                from the width defined  [from 500px]  
                from 500px to end  
  
orientation                landscape or portrait  
  
  
Ex:  
 @media screen and (max-width:500px) {  
               body {  
                   background-color: yellow;  
               }  
           }  
           @media screen and (min-width:501px) {  
               body {  
                   background-color: lime;  
               }  
           }  
  
Ex:  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>Keyframes</title>  
        <style>  
           li {  
               width: 130px;  
               padding: 10px;  
               font-size: 18px;  
               border:1px solid black;  
               background-color: tomato;  
               color:white;  
           }  
           ul {  
               list-style: none;  
           }  
           @media screen and (max-width:500px) {  
              li {  
                  display: block;  
                  margin-bottom: 20px;  
              }  
           }  
           @media screen and (min-width:500px) {  
              li {  
                  display: inline;  
                  margin-right: 20px;  
                  width: 140px;  
              }  
           }  
        </style>  
    </head>  
    <body>  
        <ul>  
            <li>Home</li>  
            <li>About</li>  
            <li>Contact</li>  
        </ul>  
    </body>  
</html>  
  
  
Ex:  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>Keyframes</title>  
        <style>  
           li {  
               width: 130px;  
               padding: 10px;  
               font-size: 18px;  
               border:1px solid black;  
               background-color: tomato;  
               color:white;  
           }  
           ul {  
               list-style: none;  
           }  
           @media screen and (orientation:portrait) and (max-width:500px) {  
              li {  
                  display: block;  
                  margin-bottom: 20px;  
              }  
           }  
           @media screen and (orientation:landscape) and (min-width:500px) {  
              li {  
                  display: inline;  
                  margin-right: 20px;  
                  width: 140px;  
              }  
           }  
        </style>  
    </head>  
    <body>  
        <ul>  
            <li>Home</li>  
            <li>About</li>  
            <li>Contact</li>  
        </ul>  
    </body>  
</html>  
  
Meta for Responsive:  
  
<meta name="viewport"  content="width=device-width, initial-scale=1">  
  
viewport        :  defines the media type and size  
content        :  width fits to device width.  
initial-scale:  Initial zoom level   1 = 100%  
            starts with 0 and increase fraction  0.5, 1, 1.5, 2 ..  
  
  
                CSS Pre-Compilers  
                ===============  
- Pre compilers will provide all features for reducing the complexity in CSS.  
- They improve code reusability, code extensibility.  
- They improve minification of code and bundling.  
- Minification is reducing file size.  
- Bundling is reducing the number of requests.  
- Popular Pre-Compilers  
        a) Saas  
        b) Less  
- Pre Compilers are not understandable to browser, you have to transcompile into CSS.  
  
       Developer => Sass => Compile => CSS => Browser  
  
  
                  Syntactically Awesome Style Sheet  
                  ------------------------------------------------  
- Sass is a pre-compiler  
- code reusability  
- code extensibility  
- minification  
- bundling  
  
Download and Install Sass on your PC:  
==============================  
1. Open Command Prompt  
  
2. Type the following  
  
        >npm install  -g  sass    
  
  
Using Sass in Web Project  
=====================  
1. Create a sass file with extention  ".scss"  
  
.container {  
    border:2px solid red;  
    padding: 10px;  
    h2 {  
        text-align: center;  
        color:red;  
    }  
    p {  
        color:blue;  
    }  
}  
  
2. Trans compile scss into css.  
  
    > sass  effects.scss   effects.css  
  
  
3. Link the CSS file to web page  
  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>Keyframes</title>  
        <link rel="stylesheet" href="../sass/effects.css">  
    </head>  
    <body>  
       <div class="container">  
          <h2>HTML</h2>  
          <p>It is a markup language</p>  
       </div>  
       <h2>Web Technologies</h2>  
       <p>Building apps for web.</p>  
    </body>  
</html>  
  
                           Variables  
                           =======  
- Variables are storage locations in memory, where you can store a value and use as a part of any expression from any location and any number of times.  
  
- Sass variables are declared by using  
        "$variableName: value"  
  
         selector {  
           attribute : $variableName;  
         }  
  
Ex:  
$shadow : 5px 5px 2px red;  
$border : 2px solid black;  
  
.container {  
    border:$border;  
    padding: 10px;  
    box-shadow: $shadow;  
    h2 {  
        text-align: center;  
        color:red;  
        background-color: yellow;  
        box-shadow: $shadow;  
    }  
    p {  
        color:blue;  
        border:$border;  
        padding: 5px;  
    }  
}