Getting started with Code

Editor and setup to write CSS - create an html file add CSS

Tools needed - browser to run the html code.
Chrome Browser comes with Developer tools that are a powerful way to interact with your code, including debugging, inspecting and viewing changes.
https://developer.chrome.com/docs/devtools/

Online Code Editor - great to practice code without a need for download of applications
https://codepen.io/pen/

Help and Code Samples - MDN developer of Firefox has an excellent resource with code samples and browser compatibility/
https://developer.mozilla.org/en-US/docs/Web/HTML

Code Editor - write code with a code editor as it can help structure and suggest tags for code.
https://code.visualstudio.com/

Adding Styling to your HTML

- Google Chrome Dev Tools
- Adding Styling to HTML tags style <style> link to CSS file
- CSS rule CSS Syntax (Selector) (Declaration) {Property:value}
- Element Selection by tag name, id, class

Styling Overview

- Comments in Code /* */
- find help with CSS
- Google Fonts
- https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/CSS_basics
- https://fonts.google.com/

```html
<!DOCTYPE html>
<html>
<head>
 <meta charset="utf-8">
 <link rel="stylesheet" href="style1.css">
 <title>My Page</title>
</head>
<body>
 <div>
   <h1 class="blue">Hello World!</h1>
   <div style="font-size:2em">Welcome to my site.</div>
   <hr>
   <p title="My Name">My name is <span
class="blue">Laurence</span> <span></span>Svekis</span>.</p>
 </div>
 <hr>
 <h2 class="blue" >Heading 2</h2>
 <h4 class="red">Heading 4</h4>
```

```
 <h6 >Heading 6</h6>
 <span class="h6">Heading 6 #2</span>
 <div id="bottom">
    hello world blah blah blah. <a href="#myID">Go to the top
element with ID of myID.</a>
    <div class="green" >TEST</div>
 </div>
</body>
</html>
```

```
/*
Comments
*/
@import
url('https://fonts.googleapis.com/css2?family=ZCOOL+KuaiLe&displ
ay=swap');
body {
    font-family: 'ZCOOL KuaiLe', cursive;
}
h1, h6, h4{
    background-color: purple;
}
```

Colors Background and Font Color

- Colors - Color types named colors HEX RGB RGBA
- Background - color - image - repeat - attachment - position - background shorthand

https://developer.mozilla.org/en-US/docs/Web/CSS/color_value
https://developer.mozilla.org/en-US/docs/Learn/CSS/Building_blocks/Values_and_units

```
.blue {
    background-color: rgba(255,0,255,0.5);
```
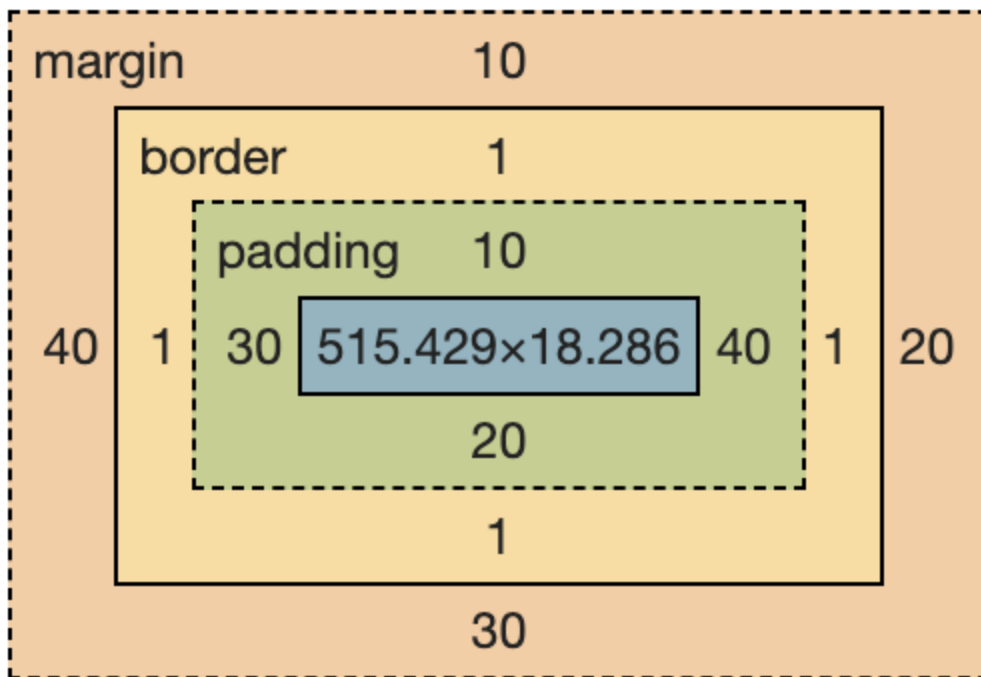
```css
    color:white;
}
.red{
    background-color:#ff00ff80;
    color:rgb(255,255,255);
}
.h6{
    background-color:hsl(120,50%,50%);
    color:hsla(0,100%,50%,0.5);
}
body{
    background-color:#000000;
    color:violet;
}
```

Box Model Border Padding Margin

- Box Model - Borders - Margins - Padding - Height and Width

https://developer.mozilla.org/en-US/docs/Learn/CSS/Building_blocks/The_box_model

```css
div {
    border-style: solid;
    border-width: 1px;
    border-color:red;
}
h2{
    border:solid 1px blue;
    background-color:aqua;
    width:100px;
    height:20px;
    overflow:hidden;
    margin-top:10px;
    margin-bottom:30px;
    margin-right:20px;
    margin-left:40px;
}
.red{
    background-color:red;
```
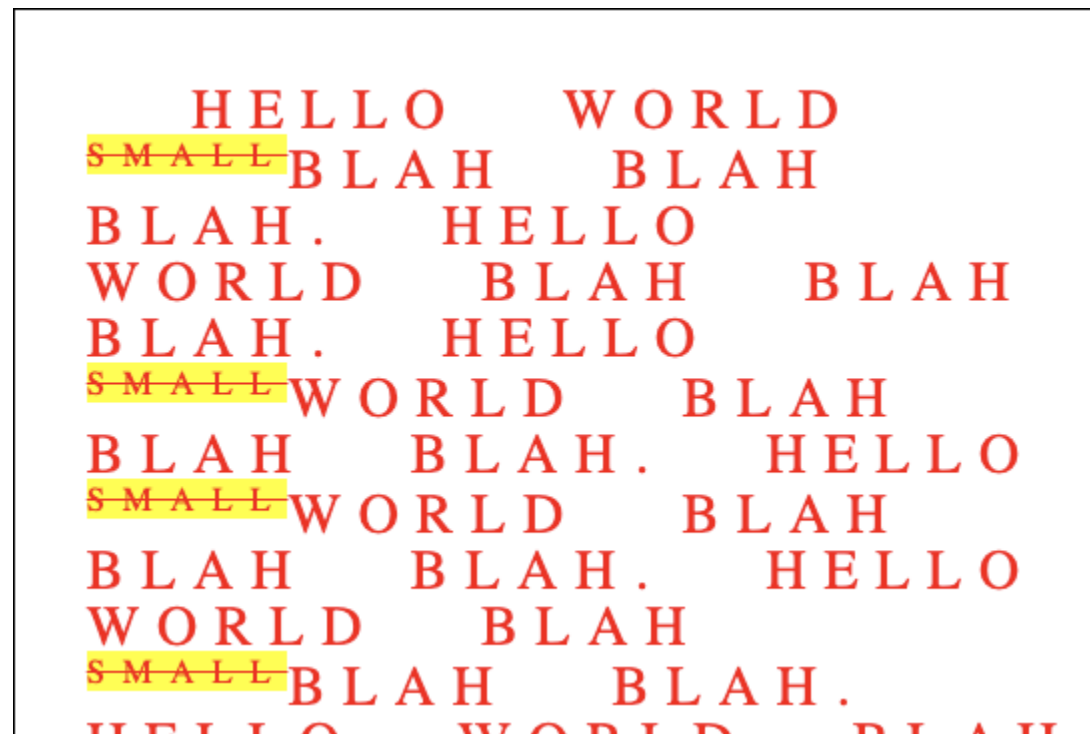
```
    border:1px dotted black;
    padding-top: 10px;
    padding-bottom: 20px;
    padding-left: 30px;
    padding-right: 40px;
    margin:10px 20px 30px 40px;
}
#bottom{
    border:1px dotted black;
    padding:10px 20px 30px 40px;
    background-color:yellow;
}
```

Text options

- Text - text-align text-decoration text-transform

HELLO WORLD SMALL BLAH BLAH BLAH. HELLO WORLD BLAH BLAH BLAH. HELLO SMALL WORLD BLAH BLAH BLAH. HELLO SMALL WORLD BLAH BLAH BLAH. HELLO WORLD BLAH SMALL BLAH BLAH. HELLO WORLD BLAH

```css
#bottom {
    color:red;
    border:1px solid black;
    padding:20px;
    margin-top:50px;
    line-height: 1;
    text-align: left;
    text-transform: uppercase;
    text-indent: 30px;
    letter-spacing:5px;
    word-spacing: 20px;
    white-space: normal;
}
.small{
     font-size:0.6em;
    background-color:yellow;
    vertical-align:text-top;
    text-decoration:line-through;
}
a{
    text-decoration: none;
    text-shadow: 5px 2px 5px black;
}
```

Fonts and Font Styles

- Fonts - font-style Google Fonts

Hello World!

Welcome to my site.

My name is Laurence Svekis.

CSS Heading 2

CSS Heading 4

Heading 6

Cascading Stylesheets

Cascading Stylesheets — or CSS — is the

https://fonts.google.com/specimen/Fira+Sans?category=Sans+Serif#standard-styles
https://developer.mozilla.org/en-US/docs/Web/CSS/font-size

```css
@import
url('https://fonts.googleapis.com/css2?family=Fira+Sans&display=
swap');

body{
    font-family: 'Fira Sans', sans-serif;
    font-style: italic;
    font-weight: bold;
    font-variant: small-caps;
    font-size:100%;
}
h1{
    font-size: 12vw;
    color:blue;
    text-align: center;
}
.h6{
    color:aquamarine;
    font: italic bold 1.5em Arial;
    background-color:black;
}

#bottom{

    font-size: 1.5em;
}

.bigger{
    color:red;
    font-size:16px;
}
```

Link States Pseudo-Classes

- Link states - a:link a:visited a:hover a:active

- **Home**
- **Servics**
- **About**
- **Contact**

Hello World!

Welcome to my site.

My name is Laurence Svekis.

```
<nav>
  <ul>
    <li><a href="#">Home</a></li>
    <li><a href="#">Servics</a></li>
    <li><a href="#">About</a></li>
    <li><a href="#">Contact</a></li>
  </ul>
</nav>



a:link{
    color:red;
```

```css
}

a:visited{
    color:chartreuse;
}

a:hover{
    color:darkblue;
    text-decoration: none;
}

a:active{
    color:darkmagenta;
}
h1{
    background-color:black;
    color:white;
}
h1:hover{
    background-color:darkorange;
}
h1:active{
    background-color:red;
}

#bottom span:first-child {
    color:red;
}
```

Display Properties

- Display Properties - inline - none - block
https://developer.mozilla.org/en-US/docs/Web/CSS/display

```css
li {
    background-color:black;
    display:inline-block;
    padding:10px;
    list-style: none;
}
ul {
    margin:0;
    padding:0;
}
a {
    color:white;
}


#bottom {
    display:block;
}


span{
    visibility:visible;
    display:none;
    border:1px solid black;
    font-size:1em;
}

<nav>
    <ul>
        <li><a href="#1">Home</a></li>
        <li><a href="#2">Services</a></li>
        <li><a href="#3">About</a></li>
```

```
    <li><a href="#4">Contact</a></li>
  </ul>
</nav>
```

CSS Position

- Position : static relative fixed absolute sticky

```css
header{
    background-color:rgba(255,0,0,0.5);
    padding:10px;
    position:static;
}


header{
    position:relative;
}


header{
    position:fixed;
}


header{
    position:absolute;
    top:10px;
    left:10px;
    width:200px;
    height:200px;
}
header{
    position:sticky;
}
```

CSS Float

- Float and clear left right and none

Welcome to my Website

- HomeServicesAboutContact

side memu

Hello World!

Welcome to my site.

My name is Laurence Svekis.

Cascading Stylesheets — or CSS is used to style it and lay it out.
For example, you can use CSS
to alter the font, color, size, and
spacing of your content,
HTMLsplit it into HTML
multiple columns, or add
animations and other decorative
features.
HTML

Thank you for visiting Laurence Svekis
Go to the top element with ID of myID.
TEST

```html
<!DOCTYPE html>
<html>
<head>
 <meta charset="utf-8">
 <link rel="stylesheet" href="style9.css">
 <title>My Page</title>
</head>
<body>
 <header>
   <h1>Welcome to my Website</h1>
 </header>
 <nav>
   <ul>
     <li><a href="#1">Home</a></li>
     <li><a href="#2">Services</a></li>
     <li><a href="#3">About</a></li>
     <li><a href="#4">Contact</a></li>
   </ul>
 </nav>
 <section>
   <article class="left">
     <h1 class="blue">Hello World!</h1>
     <div style="font-size:2em">Welcome to my site.</div>
     <hr>
     <p title="My Name">My name is <span
class="blue">Laurence</span> <span></span>Svekis</span>.</p>
     <span class="bigger">Cascading Stylesheets </span>— or CSS
is used to style it and lay it out. <img src="download.png"> For
example, you can use CSS to alter the font, color, size, and
spacing of your content, <span>HTML</span>split it into
<span>HTML</span> multiple columns, or add animations and other
decorative features.<br><span>HTML</span>
```

```
   </article>
   <aside>
      side memu
   </aside>
</section>
 <footer id="bottom">
    <div>Thank you for visiting Laurence Svekis</div>
     <a href="#myID">Go to the top element with ID of myID.</a>
    <div class="green" >TEST</div>
 </footer>
</body>
</html>
```

```css
li {
   float:right;
}
li {
   float:left;
}
ul{
   border:1px solid black;
   padding:30px;
}

article{
   width:80%;
   background:lightpink;
   float:left;
}
aside{
   width:20%;
   background:lightblue;
```

```
    float:left;
}
img{
    float:right;
}
footer{
    clear:both;
    background:lightslategray;
}
```

Useful CSS Properties

- Max Width
- Overflow
- Z-index
- outline

```
header {
    outline-color: magenta;
    outline-width: 2px;
    outline-style: solid;
    border: 5px solid yellow;
    max-width:800px;
    margin:auto;
}

ul{
    z-index: -1;
    position:fixed;
    top:0px;
    left:0px;
```

```css
    outline: solid 2px green;
    background-color:midnightblue;
}
article, aside{
    position:absolute;
    left:0px;
    top:0px;

}
article{
    background:rgba(255,0,0,0.5);
    z-index: 5;
}
aside{
    background:blue;
    z-index: 3;
}
footer{
    font-size: 2em;
    height:20px;
    width:70%;
    background:black;
    color:white;
    overflow:auto;
    margin-bottom:100px;

}
```

CSS Combinators

- CSS combinators for selection - space child selector >
https://developer.mozilla.org/en-US/docs/Learn/CSS/Building_blocks/Selectors/Combinators

Welcome to my Website

TEst H1

- Home
- Services
- About
- Contact

Hello World!

Welcome to my site.

My name is Laurence Svekis.

Cascading Stylesheets — or CSS is used to style it and lay
HTML

```css
header h1{
    background-color: red;
}
article span{
    background-color:pink;
}
article > span{
    background-color:yellow;
}


article > p ~ span{
    background-color:purple;
}


article > p + span{
    background-color:rgb(27, 204, 56);
}


a[href="#2"] {
    color:red;
    background-color: moccasin;
}

h1,h2,h4,h6{
    padding:10px;
    border:5px dotted pink;
}
```

```html
<!DOCTYPE html>
<html>
<head>
 <meta charset="utf-8">
```

```html
 <link rel="stylesheet" href="style11.css">
 <title>My Page</title>
</head>
<body>
 <header>
   <h1>Welcome to my Website</h1>
 </header>
 <h1>TEst H1</h1>
 <nav>
   <ul>
     <li><a href="#1">Home</a></li>
     <li><a href="#2">Servics</a></li>
     <li><a href="#3">About</a></li>
     <li><a href="#4">Contact</a></li>
   </ul>
 </nav>
 <section>
   <article class="left">
     <h1 class="blue">Hello World!</h1>
     <div style="font-size:2em">Welcome to my site.</div>
     <hr>
     <p title="My Name">My name is <span
class="blue">Laurence</span> <span>Svekis</span>.</p>
     <span class="bigger">Cascading Stylesheets </span>— or CSS
is used to style it and lay it out. <img src="download.png"> For
example, you can use CSS to alter the font, color, size, and
spacing of your content, <span>HTML</span>split it into
<span>HTML</span> multiple columns, or add animations and other
decorative features.<br><span>HTML</span>
   </article>
   <aside>
     side memu
```

```
      </aside>
</section>
 <footer id="bottom">
    <div>Thank you for visiting Laurence Svekis</div>
     <a href="#myID">Go to the top element with ID of myID.</a>
    <div class="green" >TEST</div>
 </footer>
</body>
</html>
```

CSS Pseudo Elements

- Pseudo-Elements - ::first-line , ::first-letter, ::after
https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-elements

```css
article::first-line{
    color:navy;
}
article::first-letter{
    color:red;
    font-size:3em;
}

article::before{
    content:'NEW content';
}
article::after{
    content:'After';
}
```
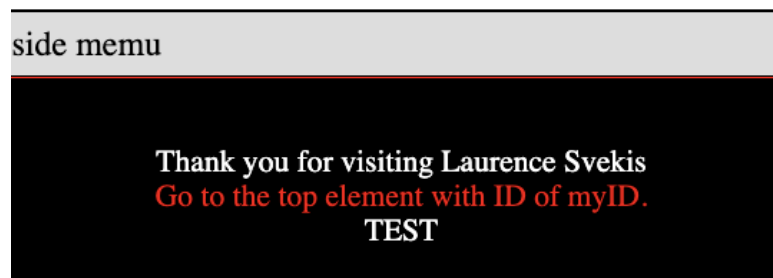
Responsive Website CSS Float

Welcome to my Website

Home
Services
About
Contact

Hello World!

Welcome to my site.

My name is Laurence Svekis.

Cascading Stylesheets — or CSS is used to style it and
lay it out. For example, you can use CSS to alter the
font, color, size, and spacing of your content,
HTMLsplit it into HTML multiple columns, or add
animations and other decorative features.
HTML

side memu

Thank you for visiting Laurence Svekis
Go to the top element with ID of myID.
TEST

```
<!DOCTYPE html>
<html>
<head>
 <meta charset="utf-8">
```

```html
 <link rel="stylesheet" href="site1.css">
 <title>My Page</title>
</head>
<body>
 <header class="header">
   <h1>Welcome to my Website</h1>
 </header>
 <div class="main">
   <aside class="col">
     <ul>
       <li><a href="#1">Home</a></li>
       <li><a href="#2">Services</a></li>
       <li><a href="#3">About</a></li>
       <li><a href="#4">Contact</a></li>
     </ul>
   </aside>
   <article class="left col">
     <h1 class="blue">Hello World!</h1>
     <div style="font-size:2em">Welcome to my site.</div>
     <hr>
     <p title="My Name">My name is <span
class="blue">Laurence</span> <span>Svekis</span>.</p>
     <span class="bigger">Cascading Stylesheets </span>— or CSS
is used to style it and lay it out.  For example, you can use
CSS to alter the font, color, size, and spacing of your content,
     <span>HTML</span>split it into <span>HTML</span> multiple
columns, or add animations and other decorative
     features.<br><span>HTML</span>
   </article>
   <aside class="col">
     side memu
   </aside>
```

```
  </div>
  <footer class="footer">
    <div>Thank you for visiting Laurence Svekis</div>
    <a href="#myID">Go to the top element with ID of myID.</a>
    <div class="green">TEST</div>
  </footer>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <link rel="stylesheet" href="site1.css">
  <title>My Page</title>
</head>
<body>
  <header class="header">
    <h1>Welcome to my Website</h1>
  </header>
  <div class="main">
    <aside class="col">
      <ul>
        <li><a href="#1">Home</a></li>
        <li><a href="#2">Servics</a></li>
        <li><a href="#3">About</a></li>
        <li><a href="#4">Contact</a></li>
      </ul>
    </aside>
    <article class="left col">
      <h1 class="blue">Hello World!</h1>
      <div style="font-size:2em">Welcome to my site.</div>
```
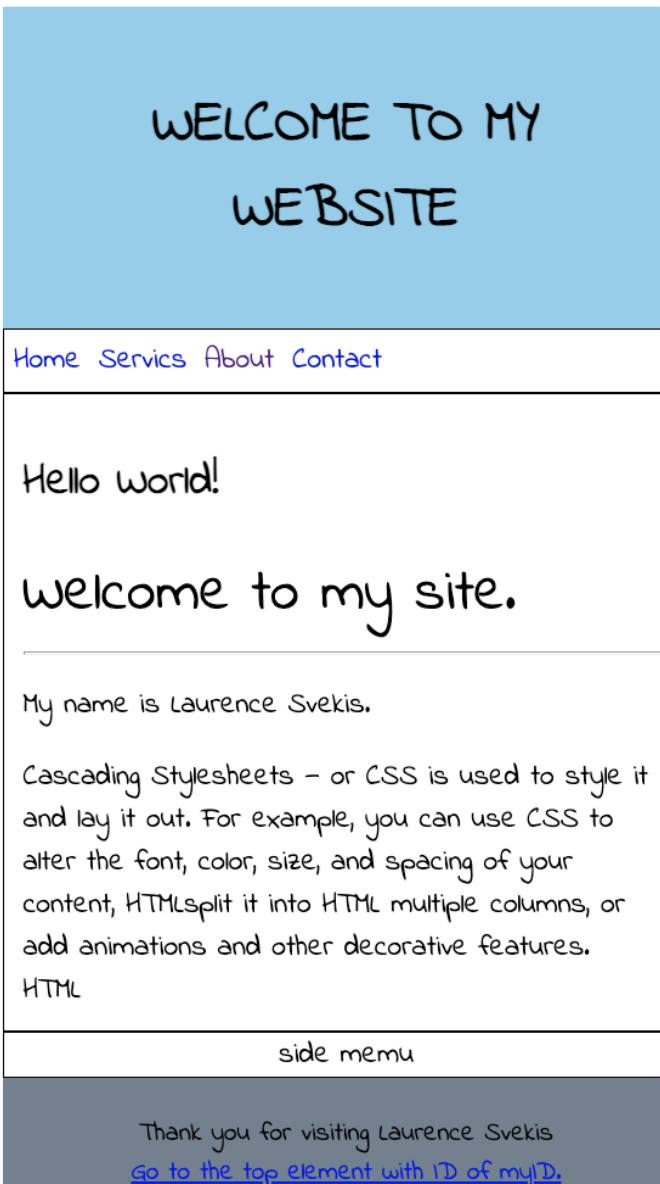
```html
      <hr>
      <p title="My Name">My name is <span
class="blue">Laurence</span> <span>Svekis</span>.</p>
      <span class="bigger">Cascading Stylesheets </span>— or CSS
is used to style it and lay it out.  For example, you can use
CSS to alter the font, color, size, and spacing of your content,
      <span>HTML</span>split it into <span>HTML</span> multiple
columns, or add animations and other decorative
      features.<br><span>HTML</span>
    </article>
    <aside class="col">
      side memu
    </aside>
  </div>
  <footer class="footer">
    <div>Thank you for visiting Laurence Svekis</div>
    <a href="#myID">Go to the top element with ID of myID.</a>
    <div class="green">TEST</div>
  </footer>
</body>
</html>
```

Responsive Website Flexbox


```css
@import url('https://fonts.googleapis.com/css2?family=Indie+Flower&display=swap');


* {
    box-sizing: border-box;
}


body {
    font-family: 'Indie Flower', cursive;
}
```

```css
.header {
    background-color: skyblue;
    text-align: center;
    padding: 20px;
    text-transform: uppercase;
}

ul {
    display: flex;
    flex-direction: row;
    margin: 0;
    padding: 0;
}

li {
    list-style-type: none;
    padding: 5px;

}

li:hover {
    background-color: steelblue;
}

li:hover a {
    color: white;
}

li a {
    text-decoration: none;

}

.main {
    display: flex;
    flex-direction: column;
}

.main article {
    flex: 3;
    padding: 10px;
}
```

```css
.main aside {
    flex: 1;
    text-align: center;
}

.col {
    border: 1px solid black;
}

.footer {
    background-color: slategrey;
    padding: 20px;
    text-align: center;
    font-size: 0.9em;
}

@media (min-width:640px) {
    body {
        background-color: #ddd;
    }

    .main {
        flex-direction: row;
    }

    ul {
        flex-direction: column;
    }

    li {
        padding: 10px;
    }
}
```

Responsive Website CSS Grid

Welcome to my Website

Home
Servics
About
Contact

Hello World!

Welcome to my site.

My name is Laurence Svekis.

Cascading Stylesheets — or CSS is used to style it and lay it out. For example, you can use CSS to alter the font, color, size, and spacing of your content, HTMLsplit it into HTML multiple columns, or add animations and other decorative features.
HTML

side memu

Thank you for visiting Laurence Svekis
Go to the top element with ID of myID.

```
* {
    box-sizing: border-box;
}
body{
    background-color:#ddd;
```

```css
    font-family: Verdana, Geneva, Tahoma, sans-serif;
}


.header , .footer{
    background-color: black;
    color:white;
    text-align: center;
    padding:10px;
}
.main{
    display:grid;
    grid-template-areas:
    'cola colb  colb colc';
}


ul {
    margin:0px;
    padding:0px;
}
li{
    list-style-type: none;
}
li a{
    text-decoration: none;
    display:block;
    background-color:blue;
    color:white;
    text-align: center;
}
li a:hover{
    background-color:red;
}
.col{padding:5px;}
.main aside:first-child{
    grid-area: cola;
    background-color:steelblue;
    padding:20px;
}
.main article{
    grid-area: colb;
    background-color:white;
}
```

```css
.main aside:last-child{
    grid-area: colc;
    background-color:red;
}
.footer{}

@media (max-width:640px){
    .main{
        grid-template-areas:
        'cola'
        'colb'
        'colc';
    }
}
```