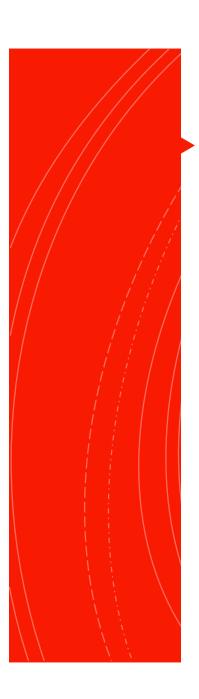
# Web Development **Andrew Kinai**

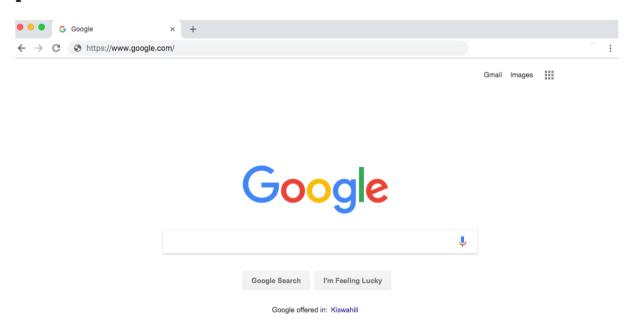
# Agenda

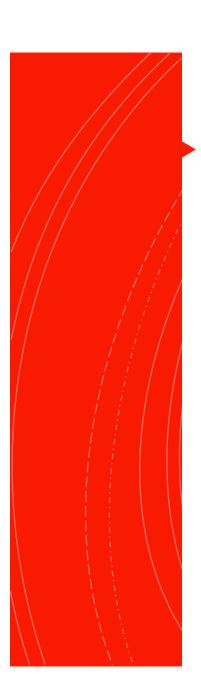
- Introduction
- Web development
  - HTML
  - CSS
  - JavaScript
- Project



# Introduction

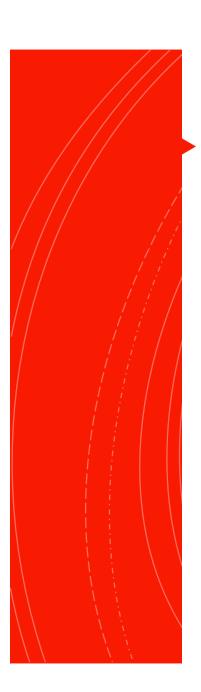
**Website**: a collection of related *web pages*, including multimedia content, typically identified with a common *domain name*, and published on at least one *web server* 





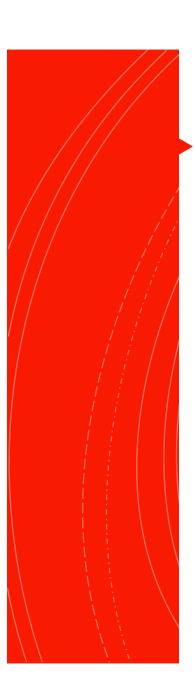
# Introduction

- Developing websites
  - Front end: presentation layer that the user interacts with
  - Back end: handles the business logic and data management
- Publishing a website
  - Domain name
  - Hosting in a web server



# Web development

- Website core technologies
  - HTML (Hyper Text Markup Language): standard markup language for creating web pages
  - CSS (Cascading Style Sheets): style sheet language used for describing the presentation of a document
  - JS (JavaScript): high-level, interpreted programming language

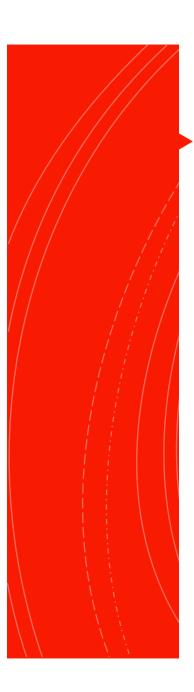


# HTML: web page structure

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<hl>Page Heading</hl>
Page content
</body>
</html>
```

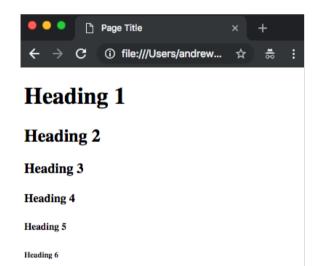


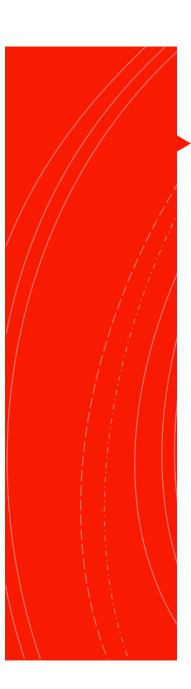
### **Page Heading**



# HTML: headings

```
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
</body>
```





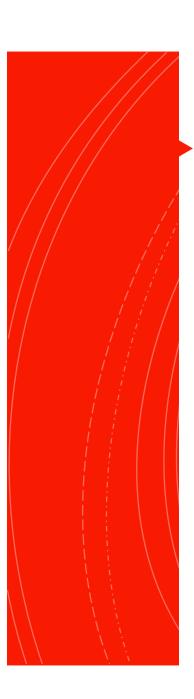
# HTML: tables

```
>
First name
Last name
<th>Age</th>
>
<td>John</td>
Kamau
35
<tr>
Eve
<td>Akoth</td>
28
```



### First name Last name Age

John Kamau 35 Eve Akoth 28



# HTML: lists

```
<hl>val>

Coffee
Coffee
Tea
Milk
Milk

<hl>Ordered list</hl>
Bread
Mandazi
Samosa
```

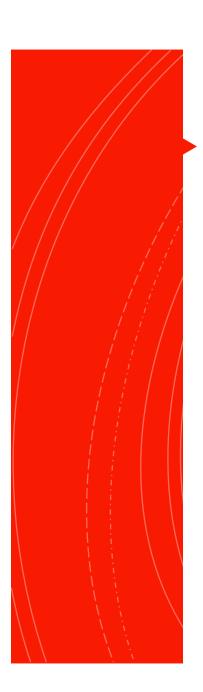


### **Unordered list**

- Coffee
- Tea
- Milk

### **Ordered list**

- 1. Bread
- Mandazi
- 3. Samosa



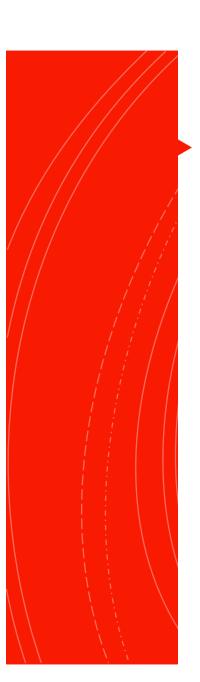
# HTML: images

<hl>Cat</hl>
<img src="images/cat.jpg" alt="cat">



### Cat





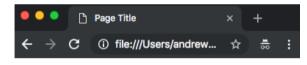
# HTML: links

```
<body>

     <a href="https://www.google.com">This is a link to
Google</a>

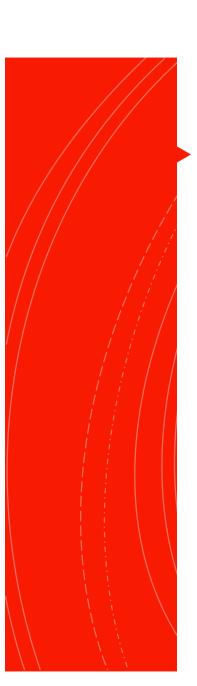
          <a href="index2.html">Page 2</a>
          <a href="index3.html">Page 3</a>

          </body>
```

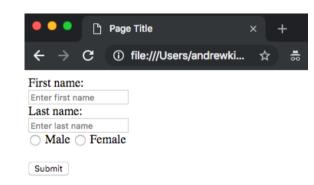


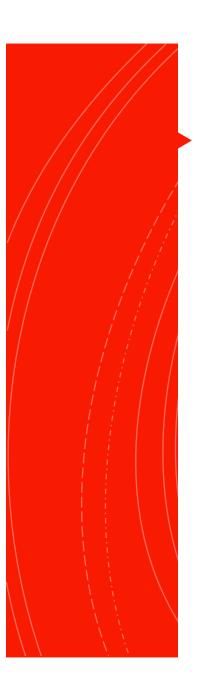
This is a link to Google

Page 2 Page 3



## HTML: forms





# HTML: formatting

```
<body>

   Text can be <b>bold</b> or <i>italic</i>

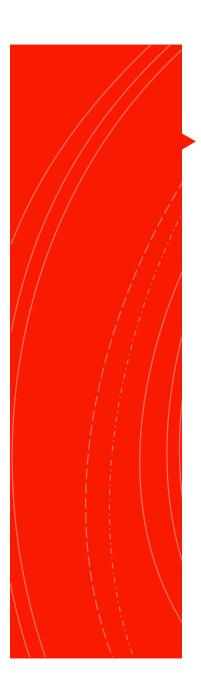
   This is <sub>subscript</sub> and
<sup>superscript</sup>

</po>
```



Text can be **bold** or *italic* 

This is subscript and superscript



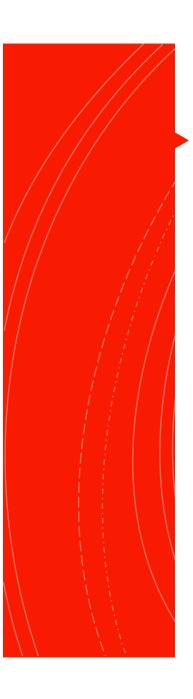
# HTML: styles

<hl style="text-align:center; font-family: verdana;
color: blue;">Centered Heading</hl>
Centered paragraph.



### **Centered Heading**

Centered paragraph.



### **CSS**

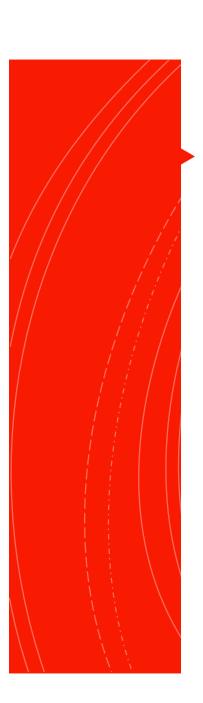
```
HTML
<head>
    <title>Page Title</title>
    link href="css/styles.css" rel="stylesheet">
    </head>

CSS

body {
    font-family: "Helvetica Neue", Helvetica, Arial, sansserif;
}
```



### **Page Heading**



# CSS: id selector

```
HTML

<hl>Page Heading</hl>
Page content 1
Page content 2

CSS

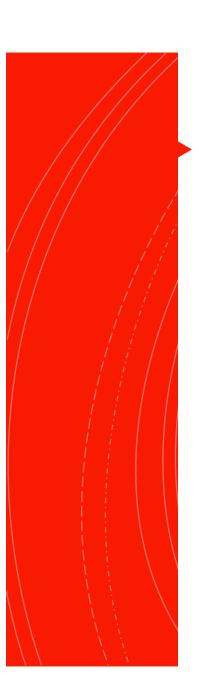
#paragraph1 {
   color: green;
}

#paragraph2 {
   color: blue;
}
```



### **Page Heading**

Page content 1



# CSS: class selector

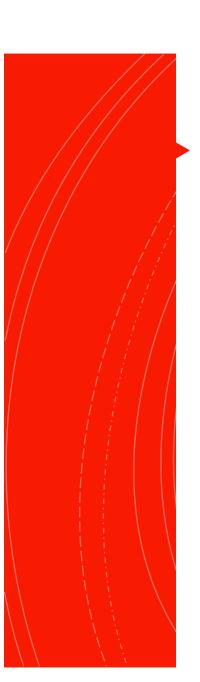
```
HTML
<hl>Page Heading</hl>
class="content center">Page content 1
class="content">Page content 2

CSS
.content {
   color: blue;
}
.center {
   text-align: center;
}
```



### **Page Heading**

Page content 1



# CSS: background

```
HTML

<hl>Page Heading</hl>
Page content 1
Page content 2

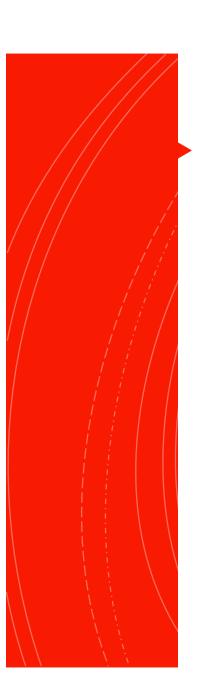
CSS

p {
    color: #fffffff;
}
#paragraph1 {
    background: #007b5e;
}
#paragraph2 {
    background: #0000ff;
}
```



### **Page Heading**

Page content 1
Page content 2



# CSS: padding

```
HTML

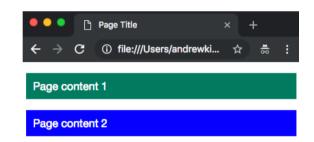
Page content 1
Page content 2

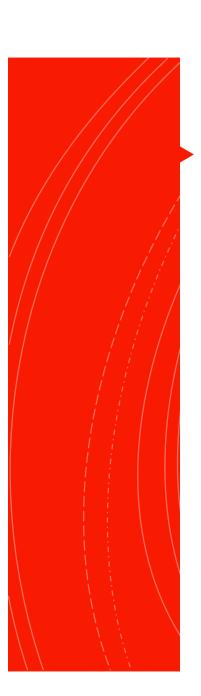
CSS

p {
    color: #ffffff;
    padding: 10px;
}

#paragraph1 {
    background: #007b5e;
}

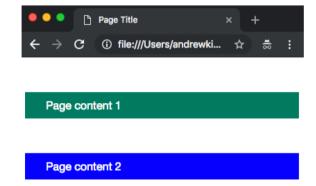
#paragraph2 {
    background: #0000ff;
}
```

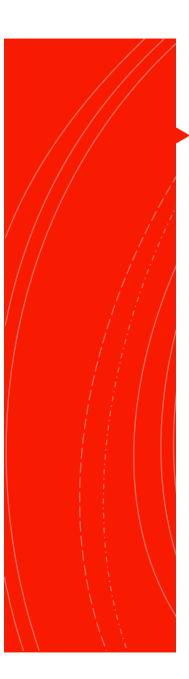




# CSS: margin

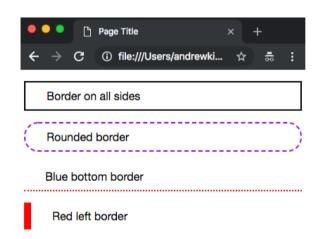
```
HTML
Page content 1
Page content 2
CSS
p {
color: #ffffff;
padding: 10px 30px;
margin: 50px 0 0 0;
#paragraph1 {
background: #007b5e;
#paragraph2 {
background: #0000ff;
```

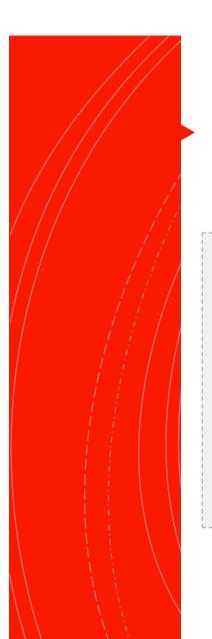




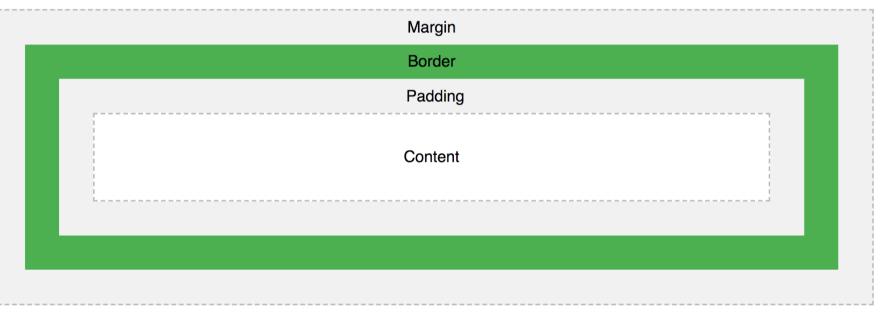
# CSS: borders

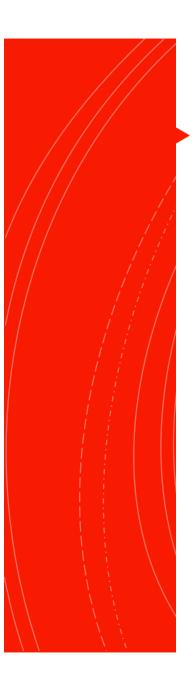
```
HTML
Border on all sides
Rounded border
Blue bottom border
Red left border
CSS
p {
padding: 10px 30px;
#paragraph1 {
border: solid 2px black;
#paragraph2 {
border: dashed 2px #9600ff;
border-radius: 20px;
#paragraph3 {
border-bottom: dotted 2px red;
#paragraph4 {
border-left: solid 10px red;
```





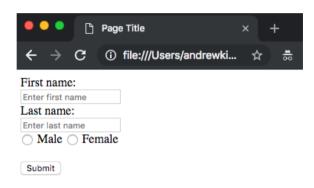
# CSS: box model

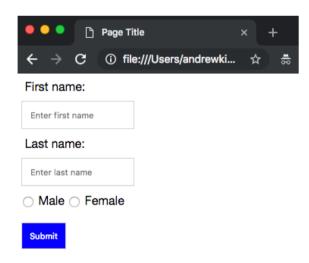




# CSS: forms

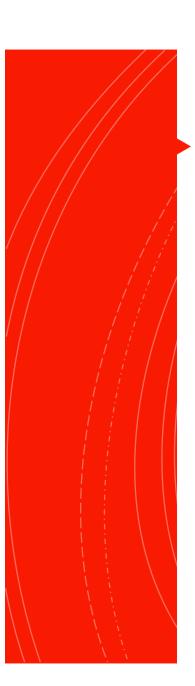
```
input[type=text] {
  padding: l0px;
  margin: l0px 0;
}
input[type=submit] {
  padding: l0px;
  color: white;
  background: blue;
}
```





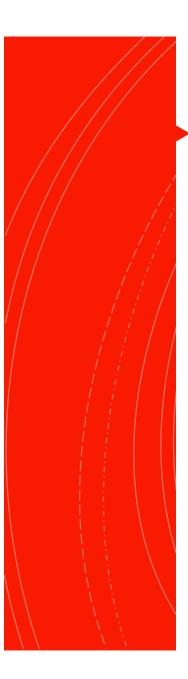






# CSS: website layout

```
<body>
<div id="page-wrap">
 <div id="header-wrap">
   <div id="header" class="content">
   Header
   </div>
   <div id="navigation" class="content">
   Navigation
   </div>
 </div>
 <div id="content-wrap">
   <div id="main-content">
   Main content
   </div>
   <div id="side-content">
   Side content
   </div>
  </div>
  <div id="footer" class="content">
  Footer
  </div>
 </div>
</body>
```



# CSS: website layout

```
.content {
background: #eee;
#page-wrap {
max-width: 960px;
 padding: 10px;
 background: black;
#page-wrap div {
margin-top: 10px;
text-align: center;
 padding: 10px 0;
#header {
margin-bottom: 10px;
 padding: 30px 0;
#content-wrap {
 overflow: hidden;
#main-content {
float: left;
width: 70%;
 margin-right: 2%;
 background: #eee;
#side-content {
 float: left;
width: 28%;
background: #eee;
```

# Agenda

- Introduction
- Web development
  - HTML
  - CSS
  - JavaScript
- Project

