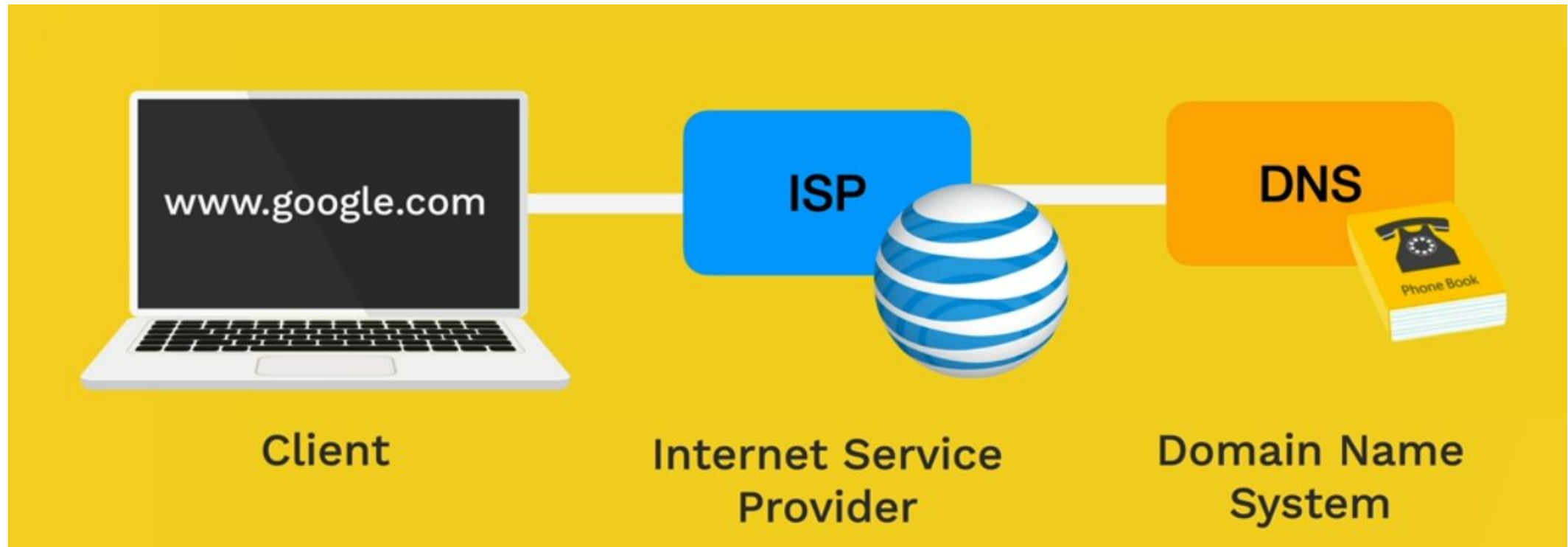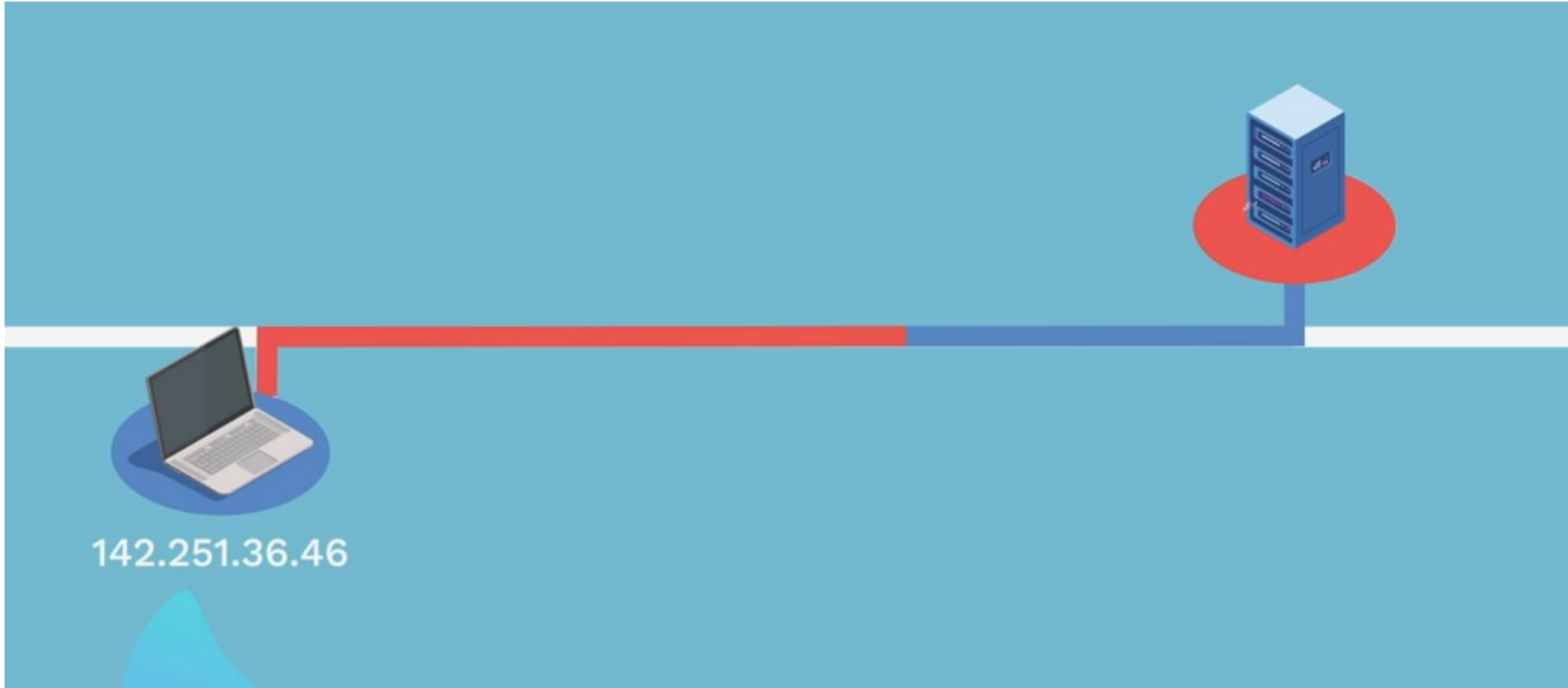# Programming for AI

Abdul Haseeb

BS(AI)-IV
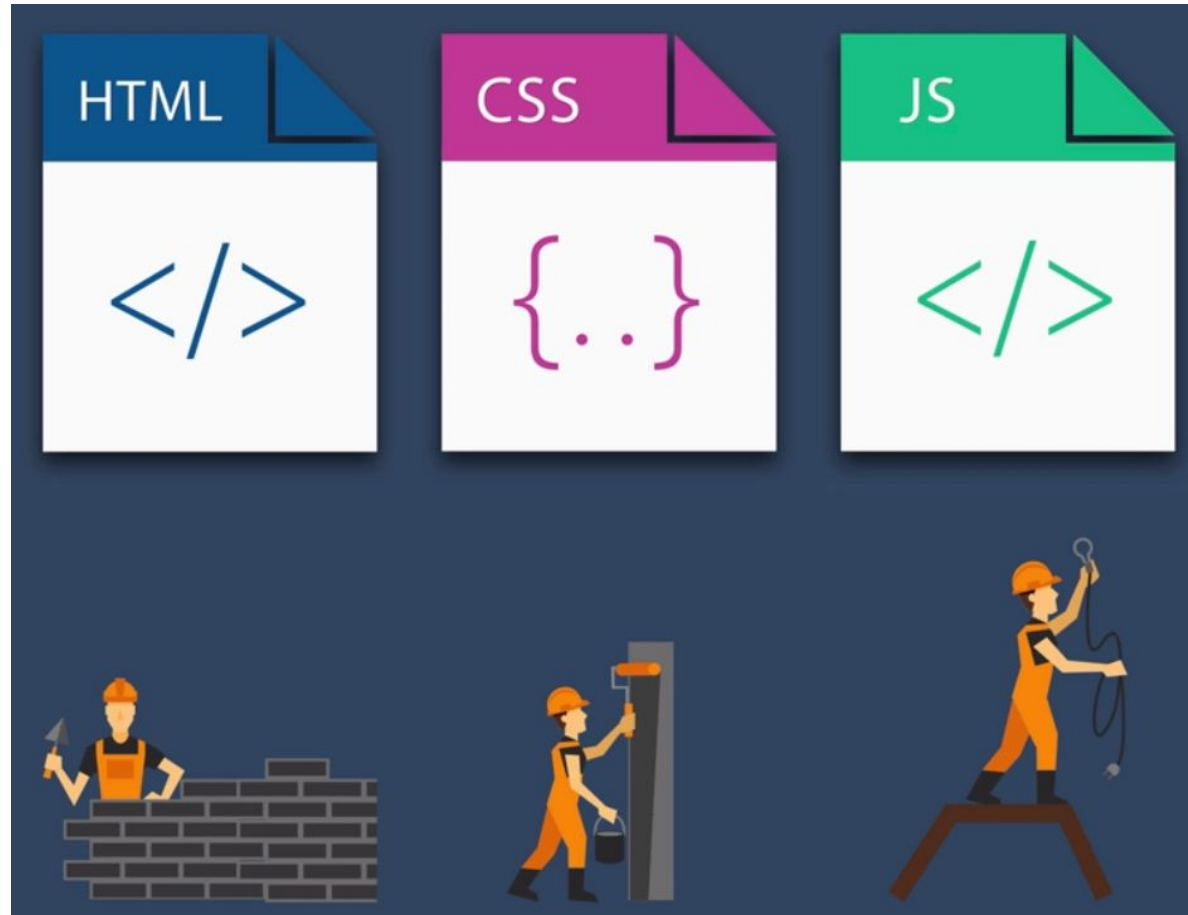
How Does the Internet Works?
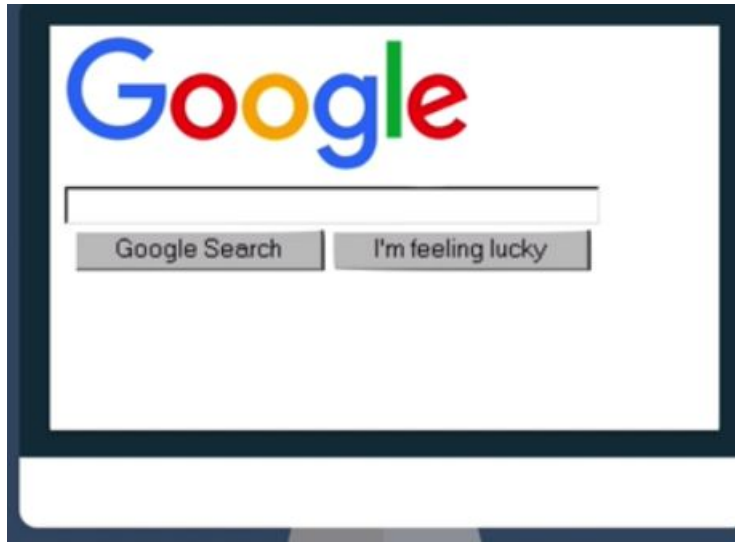
Once you got the IP Address, You can directly make requests to the server

142.251.36.46

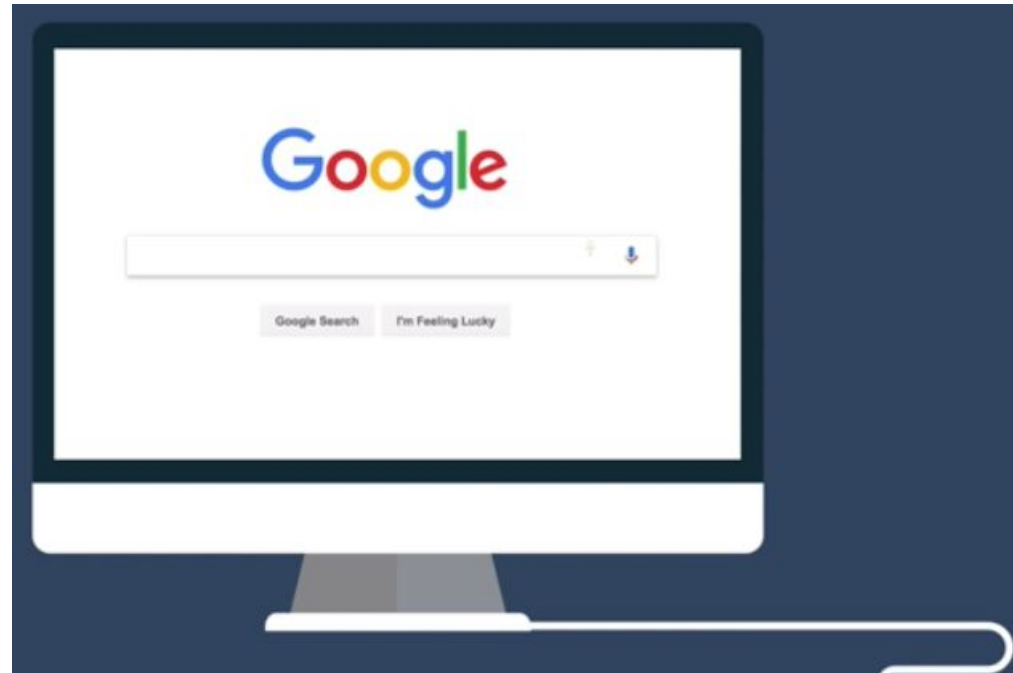# Type of code files on web

HTML

CSS

Java Script

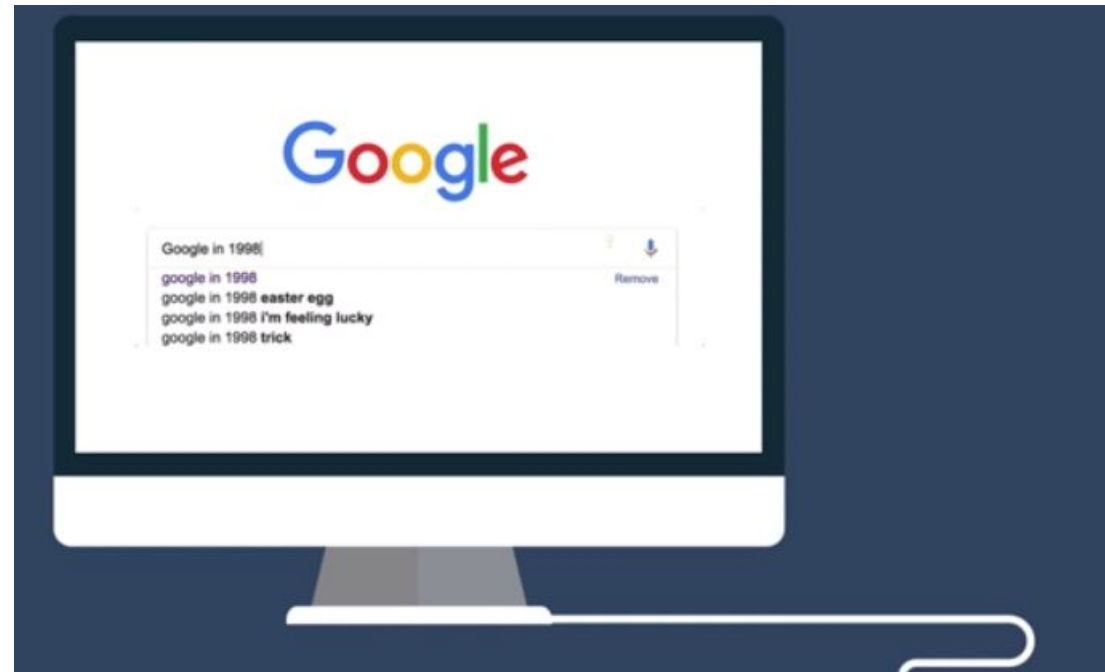# HTML Boilerplate

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>My Website</title>
  </head>

  <body>
    <h1>Hello World!</h1>
  </body>
</html>
```

HTML Refresher: Let's design this

My top 3 movies of all-time.

Spirited Away

This is my favourite anime. I love the beautiful images.

Ex Machina

Really cool sci-fi movie.

Drive

Super beautiful film. Really artistic.

Which Tags we did cover

- Paragraph Tag
- Headings
- Self closing tags (br, hr)

HTML Refresher: Let's Design this

It's My Birthday!

On the 12th May

What to bring:

- Baloons (I love baloons)
- Cake (I'm really good at eating)
- An appetite (There will be lots of food)

This is where you need to go:

Google map link

Which Tags we did cover:

- List
- Image
- Anchor

Types of CSS (Cascading Style Sheet)

Inline

`<tag style="css" />`

Internal

`<style>css</style>`

External

`<link href="style.css"/>`

Inline

- Goes in the same line as html element
- Concerned with an element

Internal

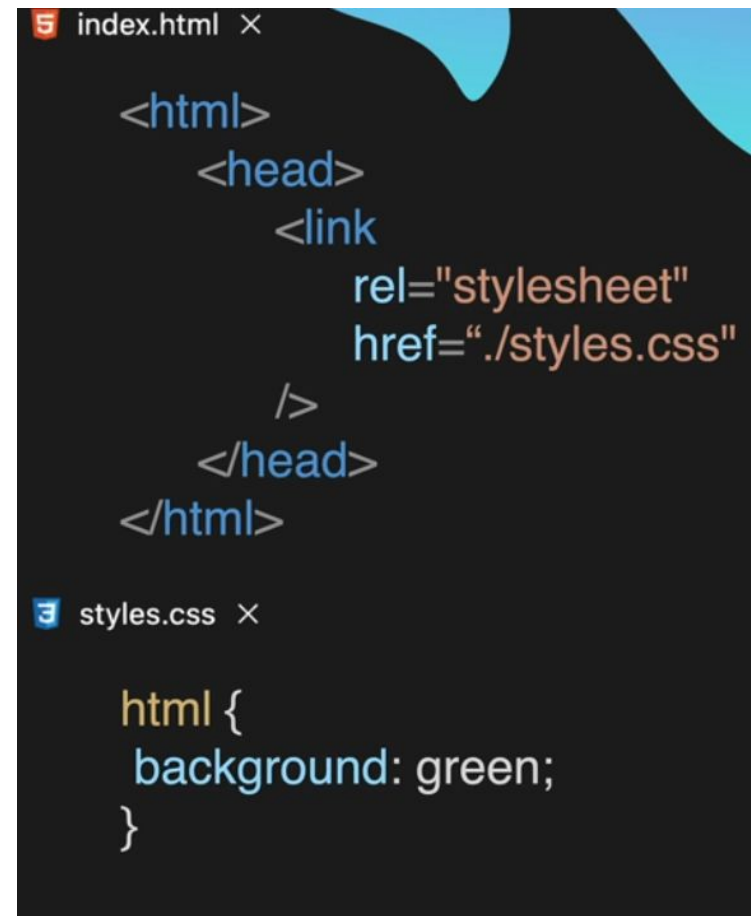- Concerned with a web page

```
<html>
    <head>
        <style>
            html {
                background: red;
            }
        </style>
    </head>
</html>
```

External

- Concerned with whole website

Task#01

Three Methods of Adding CSS

Inline Internal External
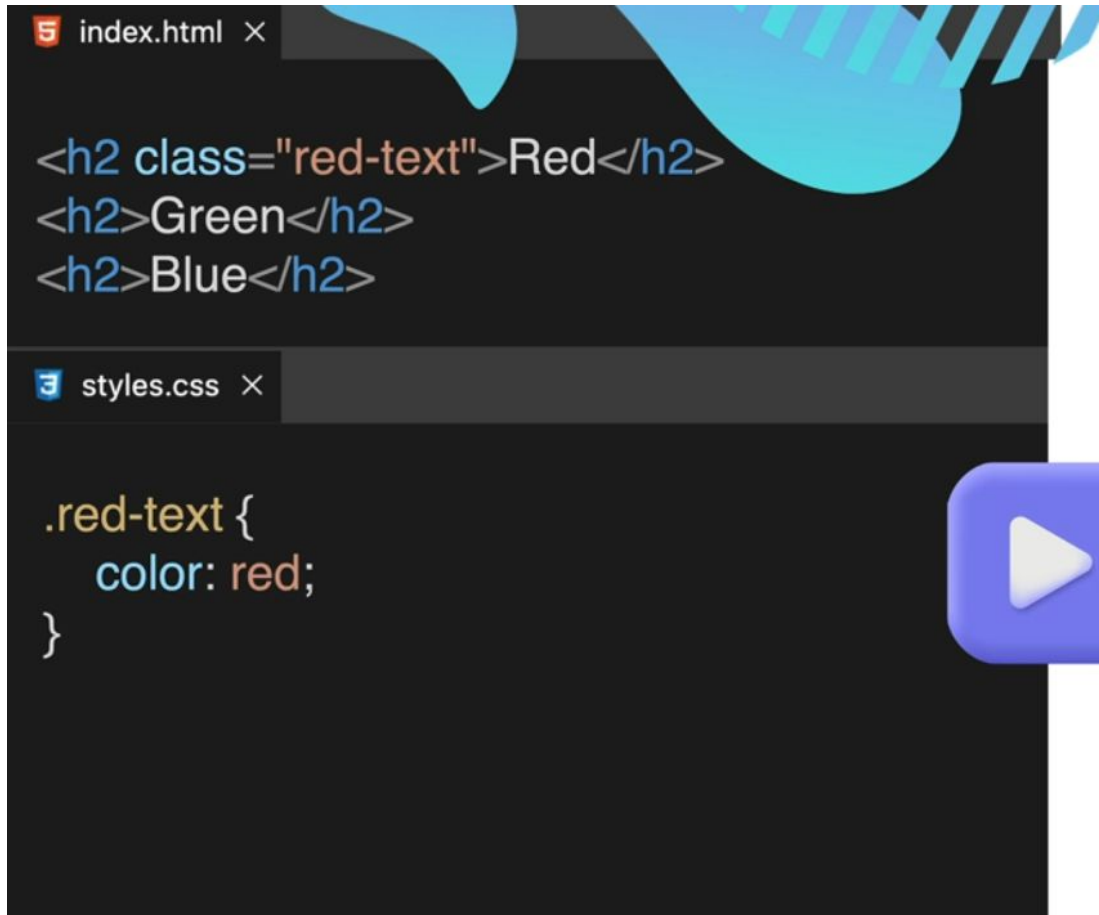
Element Selector

- Select a particular element and apply changes to all its instances

```
h1 {
    color: blue
}
```

Class Selector

```css
.red-heading {
    color: red
}
```

Class Selector Example

Class Selector Example

Id Selector

```html
index.html  ×
<h2 id="main">Red</h2>
<h2>Green</h2>
<h2>Blue</h2>
```

```css
styles.css  ×

#main {
    color: red;
}
```
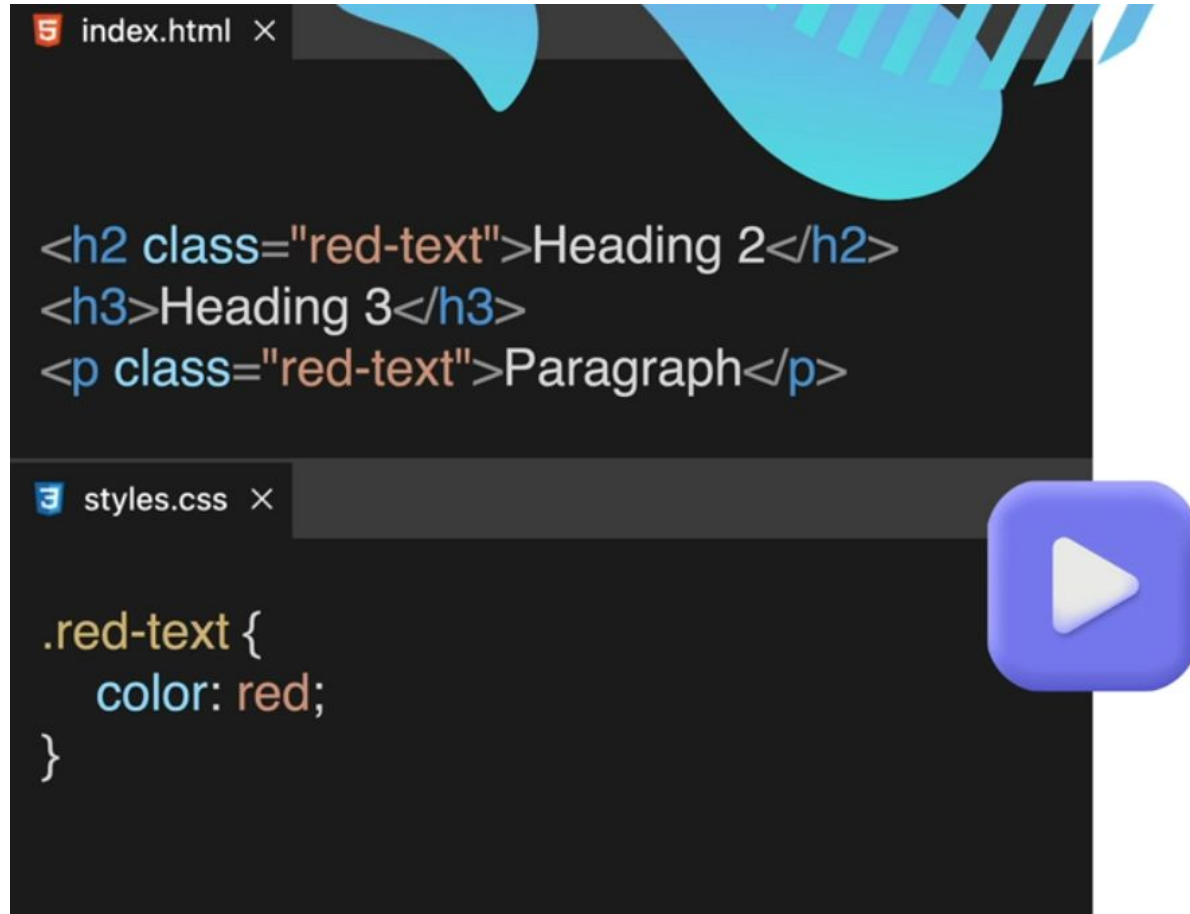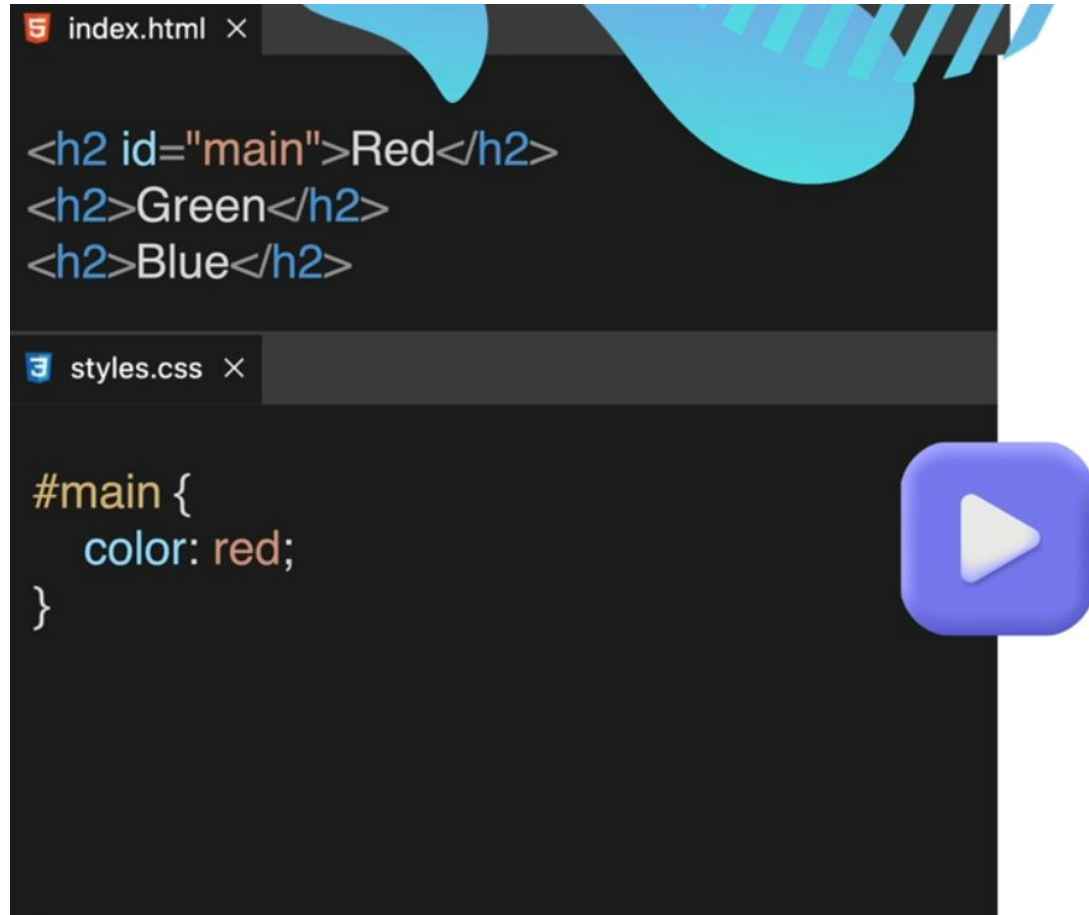
Red

Green

Blue

Difference between Id and Class

- Id can be applied to one element per file
- Class can be applied to many elements

Solve this using Selectors, and Ordered list

CSS Selectors

Applying CSS to Different Parts of HTML

1. The element selector targets elements based on their HTML tag name.
2. Class selectors target elements based on the value of the class attribute.
3. ID selectors target elements based on the value of the id attribute.
4. Attribute selectors target elements based on their attributes and values.
5. The universal selector targets all elements.

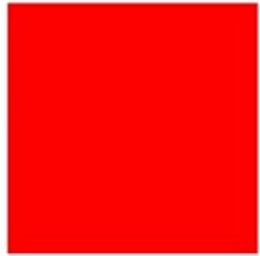# Specify the color of text using Id Selector, and also specify image width and height using css

Colors

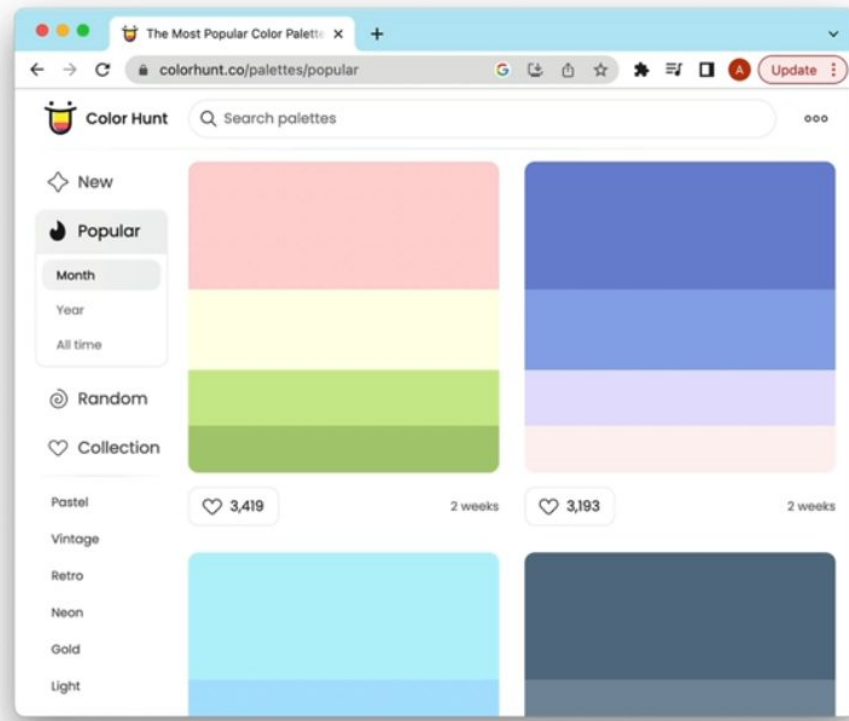**Learn the colors in Spanish!**

Rojo

Azul

Anaranjado

CSS Colors

```css
html {
    background-color: red
}

h1 {
    color: blue
}
```

Color Palletes

Exercise

```html
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <title>Colors</title>
  <style>
  /* Write your CSS code here. */
    /* 1. Make the background of the webpage "antiquewhite"
    2. Make the h1 "whitesmoke"
    3. Make the background of the h1 "darkseagreen"
    4. Make the h2 #FAF8F1
    5. Make the background of the h2 "#C58940" */
  </style>
</head>

<body>
  <h1>Hello</h1>
  <h2>World</h2>
</body>

</html>
```

Hello

World

Font properties

- You can also change font family size etc
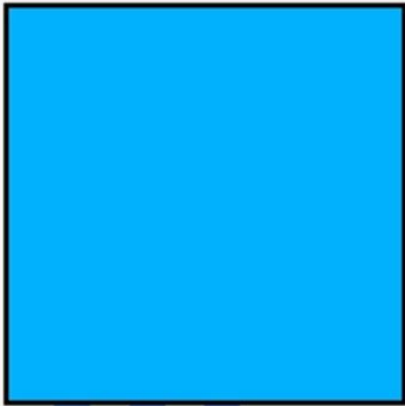
CSS Box Model

- Each element is a box

Widht and Height

- You can change the width and height of a box to allow it to take more space horizontally or vertically
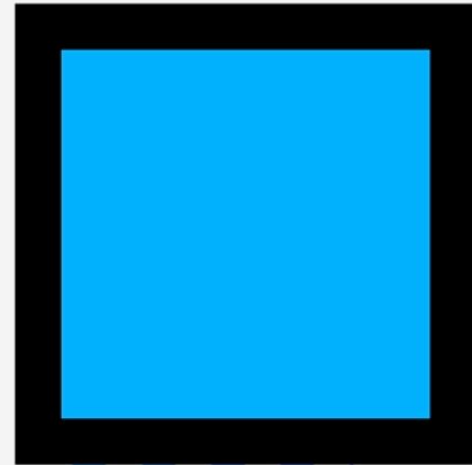
Setting the Border

border: 10px solid black;
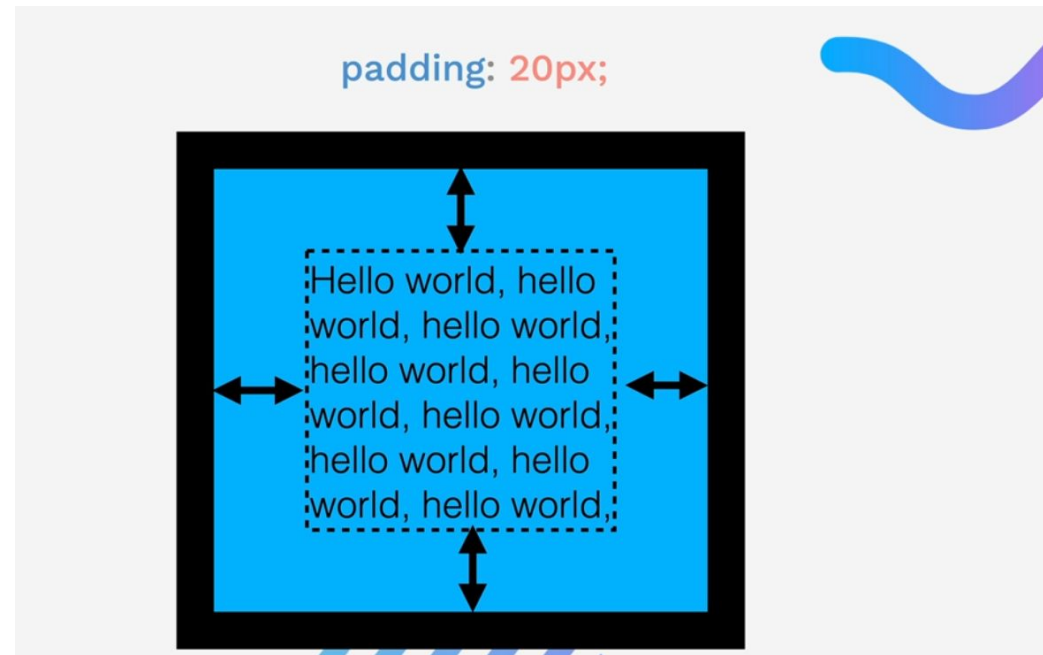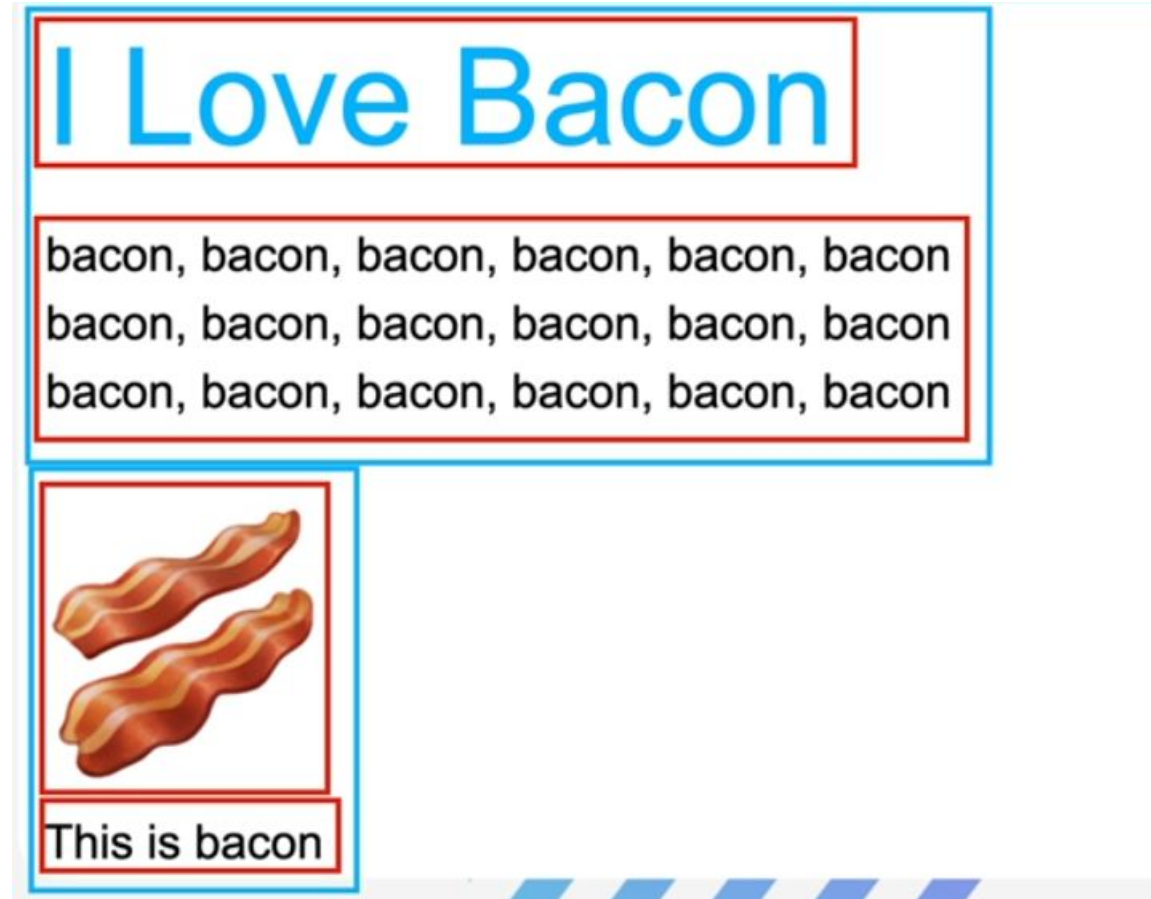

border: 30px solid black;

Padding

- Push border out by 20px
- Height and Width of box doesn't change, denoted by dashes

Grouping for styling to gather

Content division element

```
<body>
  <div>
    <p>Hello World</p>
    <img src="./world.png"/>
  </div>
  <div>
    <p>Good Night World</p>
    <img src="./night-world.png"/>
  </div>
</body>
```

Exercise for Box Model

- Create 3 Boxes using the div element.
- Set their sizes to 200px heigh by 200px wide.
- Set different background colors for each of the boxes (I used cadetblue, gold and indianred)
- Add a paragraph <p> element into the first div and add the following words:
  - Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam at sapien porttitor urna elementum lacinia. In   id magna pulvinar, ultricies lorem id, vehicula elit. Aliquam eu luctus nisl, vitae pellentesque magna. Phasellus   dolor metus, laoreet ac convallis sit amet, efficitur sed dolor.
- Set the 1st div to have 20px padding all around with a black 10px border.
- Set the 2nd div to have a 20px border on top and bottom and 10px border left and right. (See goal image)
- Set the 3rd div to have a 10px border

Last Exercise: Poster Design