



Frontend development Class 01, Series 02

Frontend

HahuJobs



CLASS 01

- 01 Reflection on your assignment
- 02 HTML recap
- 03 CSS recap
- 04 Javascript recap
- 05 What is frontend?
- 06 Frontend design
- 07 Downloading and creating account on
figma
- 08 Hands on Figma

Reflection on your assignments



Have you had any trouble completing your assignment?



HTML, CSS and Javascript recap

HTML recap



- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for Web pages
- HTML elements are the building blocks of HTML pages
- HTML elements are represented by <> tags

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML</h2>

<p>Hello Bahirdar</p>

<p>This is a paragraph.</p>
<p>This is another paragraph.</p>

</body>
</html>
```

HTML recap



HTML

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML</h2>

<p>Hello Bahirdar</p>

<p>This is a paragraph.</p>
<p>This is another paragraph.</p>

</body>
</html>
```

browser render →

OUTPUT

HTML Paragraphs

HTML paragraphs are defined with the `<p>` tag.

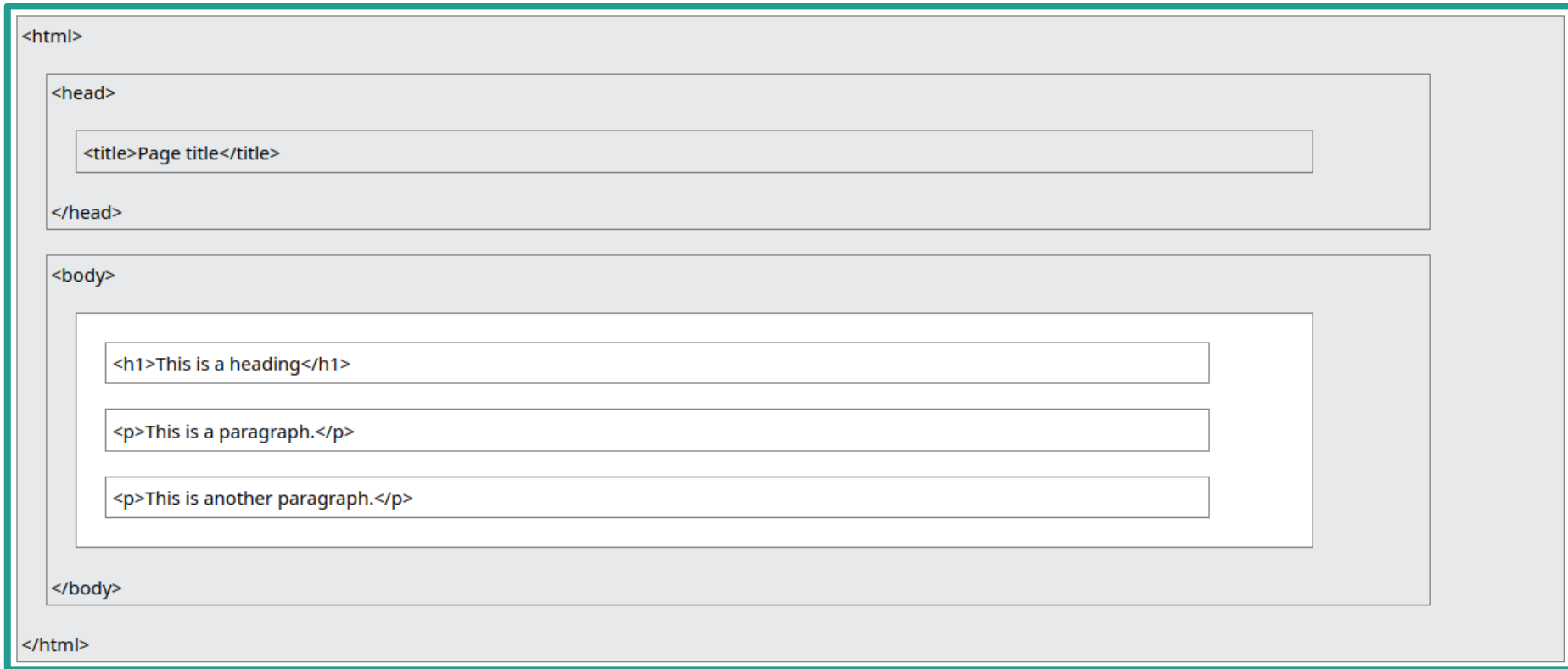
This is a paragraph.

This is another paragraph.

HTML recap



HTML page structure



HTML recap



HTML Element

An HTML element is defined by a start tag, some content, and an end tag.

- HTML elements can be nested
- HTML is Not Case Sensitive

```
<tagname>Content goes here...</tagname>
```

```
<h1>My First Heading</h1>
```

```
<p>My first paragraph.</p>
```


HTML recap



HTML Attributes

HTML attributes provide additional information about HTML elements.

- All HTML elements can have attributes
- Attributes provide additional information about elements
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like:

```
<a href="https://hahu.jobs">Visit Hahujobs</a>
```

```

```

```
<p style="color:red;">This is a red paragraph.</p>
```

HTML recap



HTML Headings

HTML headings are titles or subtitles that you want to display on a webpage.

- Search engines use the headings to index the structure and content of your web pages.
- Users often skim a page by its headings. It is important to use headings to show the page structure

```
<h1>Heading 1</h1>
```

```
<h2>Heading 2</h2>
```

```
<h3>Heading 3</h3>
```

```
<h4>Heading 4</h4>
```

```
<h5>Heading 5</h5>
```

```
<h6>Heading 6</h6>
```

Heading 1

Heading 2

Heading 3

Heading 4

Heading 5

Heading 6

HTML recap



HTML Paragraphs

A paragraph always starts on a new line, and is usually a block of text.

- The HTML `<p>` element defines a paragraph.

```
<p>This is a paragraph.</p>  
<p>This is another paragraph.</p>
```

This is a paragraph.
This is another paragraph.

HTML recap



HTML Tables

HTML tables allow web developers to arrange data into rows and columns.

- Each table cell is defined by a `<td>` and a `</td>` tag.
- Each table row starts with a `<tr>` and end with a `</tr>` tag.
- Sometimes you want your cells to be headers, in those cases use the `<th>` tag instead of the `<td>` tag

```
<table>
  <tr>
    <th>Company</th>
    <th>Contact</th>
    <th>Country</th>
  </tr>
  <tr>
    <td>Alfreds Futterkiste</td>
    <td>Maria Anders</td>
    <td>Germany</td>
  </tr>
  <tr>
    <td>Centro comercial Moctezuma</td>
    <td>Francisco Chang</td>
    <td>Mexico</td>
  </tr>
  <tr>
    <td>Ernst Handel</td>
    <td>Roland Mendel</td>
    <td>Austria</td>
  </tr>
  <tr>
    <td>Island Trading</td>
    <td>Helen Bennett</td>
    <td>UK</td>
  </tr>
  <tr>
    <td>Laughing Bacchus Winecellars</td>
    <td>Yoshi Tannamuri</td>
    <td>Canada</td>
  </tr>
  <tr>
    <td>Magazzini Alimentari Riuniti</td>
    <td>Giovanni Rovelli</td>
    <td>Italy</td>
  </tr>
</table>
```

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Centro comercial Moctezuma	Francisco Chang	Mexico
Ernst Handel	Roland Mendel	Austria
Island Trading	Helen Bennett	UK
Laughing Bacchus Winecellars	Yoshi Tannamuri	Canada
Magazzini Alimentari Riuniti	Giovanni Rovelli	Italy

HTML recap



HTML Lists

HTML lists allow web developers to group a set of related items in lists.

- An unordered list starts with the `` tag. Each list item starts with the `` tag.
- An ordered list starts with the `` tag. Each list item starts with the `` tag.

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

An unordered HTML list:

- Item
- Item
- Item
- Item

An ordered HTML list:

1. First item
2. Second item
3. Third item
4. Fourth item

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

CSS recap



CSS is the language we use to style a Web page.

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

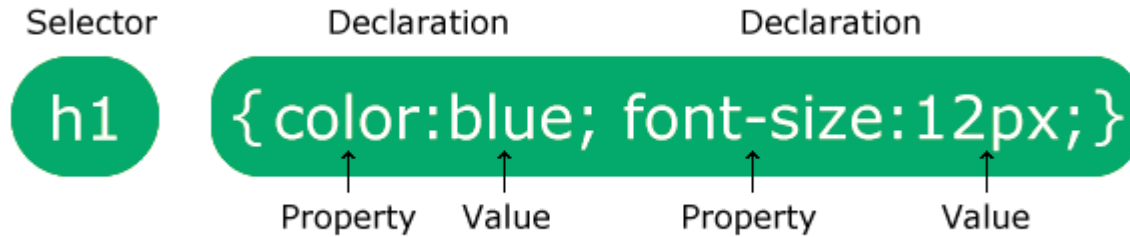
```
body {  
    background-color: lightblue;  
}  
  
h1 {  
    color: white;  
    text-align: center;  
}  
  
p {  
    font-family: verdana;  
    font-size: 20px;  
}
```

CSS recap



CSS Syntax

A CSS rule consists of a selector and a declaration block.



```
p {  
  color: red;  
  text-align: center;  
}
```

- The selector points to the HTML element you want to style.
- The declaration block contains one or more declarations separated by semicolons.
- Each declaration includes a CSS property name and a value, separated by a colon.
- Multiple CSS declarations are separated with semicolons, and declaration blocks are surrounded by curly braces.

CSS recap



CSS Selectors

A CSS selector selects the HTML element(s) you want to style.

Simple selectors (select elements based on

```
p {  
  text-align: center;  
  color: red;  
}
```

```
#para1 {  
  text-align: center;  
  color: red;  
}
```

Pseudo-class selectors (select elements based on a ce

```
a:hover {  
  color: #FF00FF;  
}
```

Combinator selectors (select elements based on a specific relationship between them)

```
div p {  
  background-color: yellow;  
}
```

Pseudo-elements selectors (select and style a part

```
a:hover {  
  color: #FF00FF;  
}
```

Attribute selectors (select elements based on an attribute or attribute value)

```
input[type="text"] {  
  width: 150px;  
  display: block;  
  margin-bottom: 10px;  
  background-color: yellow;  
}
```


CSS recap



How To Add CSS

When a browser reads a style sheet, it will format the HTML document according to the information in the style sheet.

There are three ways of inserting a style sheet

- External CSS
- Internal CSS

```
<head>
<link rel="stylesheet" href="mystyle.css">
</head>
```

```
<head>
<style>
body {
  background-color: linen;
}

h1 {
  color: maroon;
  margin-left: 40px;
}
</style>
</head>
```

```
<p style="color:red;">This is a paragraph.</p>
```



CSS recap

Colors

Colors are specified using predefined color names, or RGB, HEX, HSL, RGBA, HSLA values.

CSS/HTML support_
140 standard color names.

CSS Background Color

```
<h1 style="background-color:Orange;">Orange</h1>
```



CSS Text Color

```
<h1 style="color:Tomato;">Hello World</h1>
```



CSS recap



CSS Padding & Margins

Padding is used to create space around an element's content, inside of any defined borders

This element has a padding of 70px.

Margins are used to create space around elements, outside of any defined

This element has a margin of 70px.

CSS recap



CSS Backgrounds

The CSS background properties are used to add background effects for elements.

CSS Background Color

```
body {  
  background-color: lightblue;  
}
```

Hello World!

This page has a light blue background color!

CSS Background Image

```
body {  
  background-color: lightblue;  
}
```

Hello World!

This page has an image as the background!



Javascript recap

JavaScript is a scripting or programming language that allows you to implement complex features on web pages

- Store useful values inside variables.
- Operations on pieces of text (known as "strings" in programming).
- Running code in response to certain events occurring on a web page.
- And much more!

```
<!DOCTYPE html>
<html>
<head>
<script>
function myFunction() {
  document.getElementById("demo").innerHTML = "Paragraph changed.";
}
</script>
</head>
<body>

<h2>Demo JavaScript in Head</h2>

<p id="demo">A Paragraph</p>
<button type="button" onclick="myFunction()">Try it</button>

</body>
</html>
```

Javascript recap



Javascript Variables

Variables are containers for storing data (storing data values).

4 Ways to Declare a JavaScript Variable

- Using var
- Using let
- Using const
- Using nothing

```
var x = 5;  
var y = 6;  
var z = x + y;
```

```
let x = 5;  
let y = 6;  
let z = x + y;
```

```
x = 5;  
y = 6;  
z = x + y;
```

```
const price1 = 5;  
const price2 = 6;  
let total = price1 + price2;
```



Javascript recap

Javascript Data Types

JavaScript variables can hold different data types: numbers, strings, objects, booleans, arrays, and undefined

To be able to operate on a variable, you need to know something about the type.

```
let length = 16;           // Number
let lastName = "Johnson"; // String
let x = {firstName:"John", lastName:"Doe"}; // Object
```

JavaScript Types are Dynamic

JavaScript has dynamic types. This means that the same variable can be used to hold different data types:

```
let x;           // Now x is undefined
x = 5;           // Now x is a Number
x = "John";      // Now x is a String
```

Javascript recap



Javascript Operators

JavaScript operators are used to assign values, compare values, perform arithmetic operations, and more.

- Assignment operators (`=`, `+=`, `-=`, `*=`)
- Comparison operators (`==`, `>`, `<`, `!=`, `===`)
- Arithmetic operators (`+`, `-`, `*`, `/`)
- Logical operators (`&&`, `||`, `!`)
- String operators (`+`, `+=`)
- Conditional (ternary) operator (`variablename = (condition) ? value1:value2`)
- Bitwise operators (`&`, `|`, `^`, `~`, `>>`, `<<`) and more



Javascript recap

Javascript if/else and switch

Conditional statements are used to perform different actions based on different conditions.

Very often when you write code, you want to perform different actions for different decisions.

if/else

```
if (time < 10) {  
  greeting = "Good morning";  
} else if (time < 20) {  
  greeting = "Good day";  
} else {  
  greeting = "Good evening";  
}
```

switch

```
switch (new Date().getDay()) {  
  case 6:  
    text = "Today is Saturday";  
    break;  
  case 0:  
    text = "Today is Sunday";  
    break;  
  default:  
    text = "Looking forward to the Weekend";  
}
```

Javascript recap

Javascript Loops

Loops can execute a block of code a number of times.
Loops are handy, if you want to run the same code over and over again, each time with a different value.

instead of writing

this

```
text += cars[0] + "<br>";  
text += cars[1] + "<br>";  
text += cars[2] + "<br>";  
text += cars[3] + "<br>";  
text += cars[4] + "<br>";  
text += cars[5] + "<br>";
```

for loop

```
for (let i = 0; i < cars.length; i++) {  
  text += cars[i] + "<br>";  
}
```

while loop

```
while (i < 10) {  
  text += "The number is " + i;  
  i++;  
}
```



Javascript recap

Javascript Functions

A JavaScript function is a block of code designed to perform a particular task.
A JavaScript function is executed when "something" invokes it (calls it).

Function Invocation

- When an event occurs (when a user clicks a button)
- When it is invoked (called) from JavaScript code

```
function myFunction(p1, p2) {  
    return p1 * p2; // The function returns the product of p1 and p2  
}
```

What is Frontend?



the front end is the part of the website a user or customer interacts with

The front end of a website is everything the user either sees or interacts with when they visit the website. It is responsible for the total look and feel of an online experience.

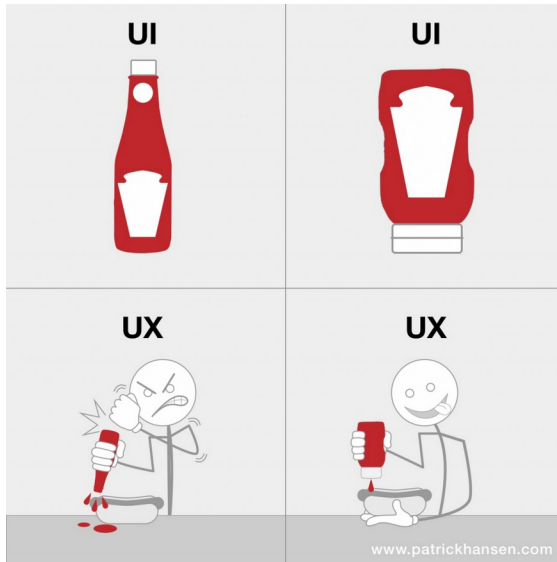
Frontend design



Frontend design



UI/UX



At the most basic level, the user interface (UI) is the series of screens, pages, and visual elements—like buttons and icons—that enable a person to interact with a product or service.

User experience (UX), on the other hand, is the internal experience that a person has as they interact with every aspect of a company's products and services.

Frontend design

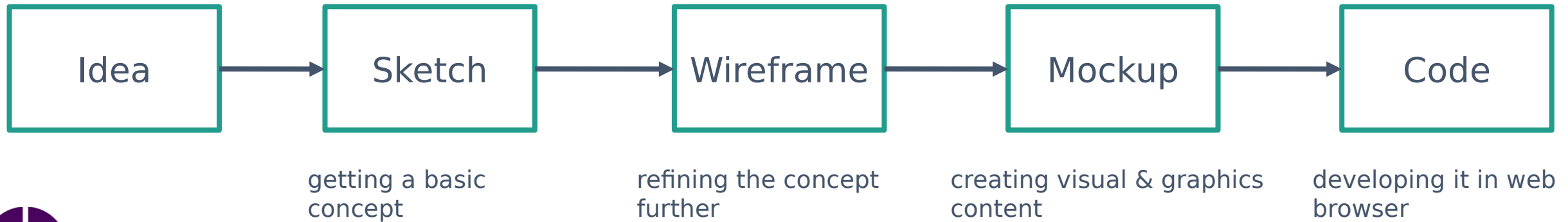


Wireframing and Sketching

Typically, wireframes are produced early in the design process, during the ideation phase when designers need to explore a variety of different options and select the best one.

Wireframes are great at that stage because they help designers to demonstrate how the layout should be organized without explicitly specifying the visual design of a product.

Sketching Always Comes Before Wireframing

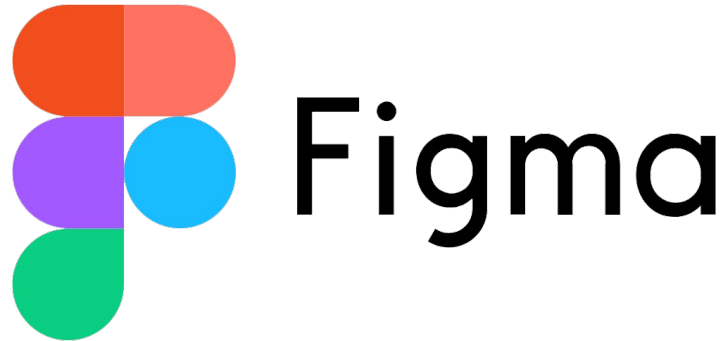


Frontend design



Mockup with Figma

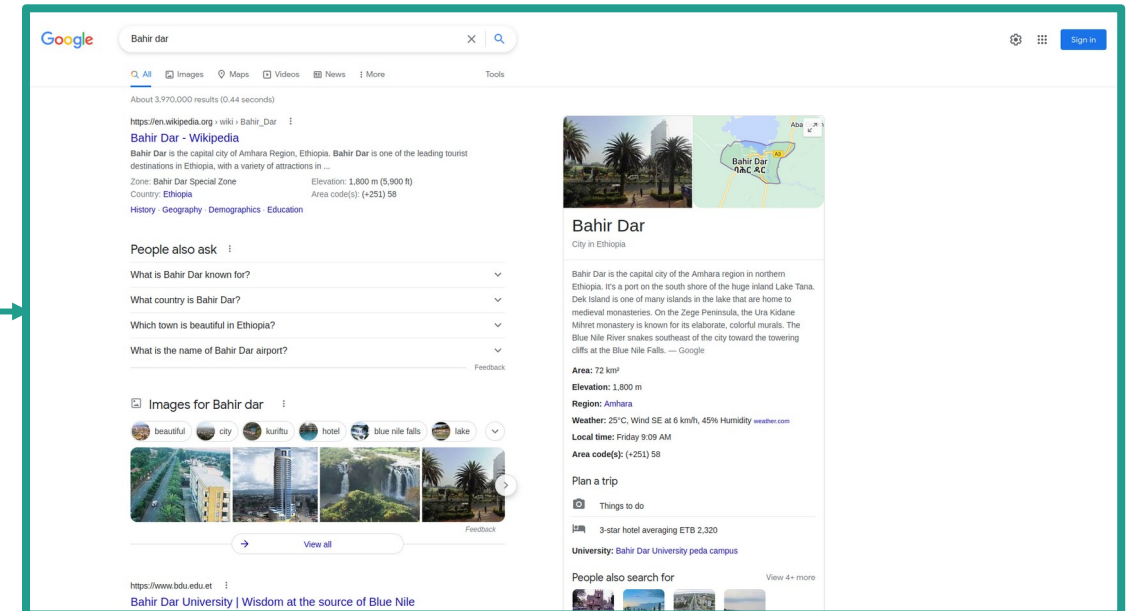
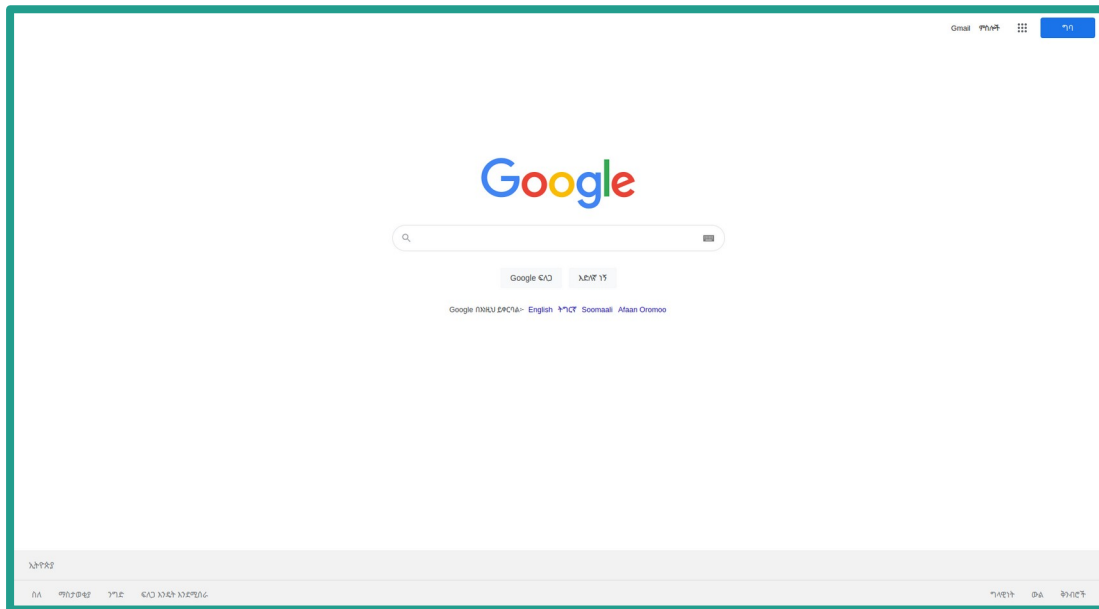
Figma is a fantastic design tool focused on designing ui/ux interfaces and provides you with everything you need.



Frontend design



Design two page mockup of google.com with Figma



Thank you!

HahuJobs

ለህገር ልጅ በህገር ልጅ !

Michael Sahlu
michael.sahlu@hahu.jobs

