



# WEB DEVELOPMENT CAMP



# NICE TO MEET YOU!

Let's get to know each other.



What is your name?



How old are you?



How do you use your computer?

# GROUND RULES

1. Treat everybody with Respect
2. Sharing is caring
3. No questions too big or small
4. Breaks & refreshments
5. Attendance & being on time
6. Certifications & Gift Cards

- Welcome to our lesson on the Internet, Web development and HTML. We will explore the exciting world of web pages, understand the role of HTML, and in our next lessons guide you through the process of creating your first web page. So, let's dive in!



# WHAT IS THE INTERNET?



# WHAT IS THE INTERNET?

Imagine you have a magic portal at home. When you step through it, you can instantly visit your friends who live far away, see what they're doing, and talk to them. That's a bit like the internet. It helps people connect with each other, learn new things, and have fun.

[\*\*Click here to watch a video\*\*](#)



# HISTORY OF THE INTERNET

The Internet was created a long time ago, in the late 1960s. It started as a project by a group of smart people who wanted computers to talk to each other. They wanted to find a way for computers in different places to share information and work together.

At first, the Internet was used mostly by scientists, researchers, and the military. They could send messages and share data between computers in different locations. It was like a special network just for those smart people.

Then, in the 1990s, something amazing happened. A clever man named Tim Berners-Lee came up with an idea to make the Internet even more useful and fun. He created the World Wide Web!

The World Wide Web, or WWW, was a way to organise information on the Internet and make it easy for people to find and share things. It was like building roads and signposts on the Internet so that everyone could navigate it easily.



# WWW VS THE INTERNET

**The Internet** is like a huge network of computers all around the world. It's like a big web that connects them all together. It helps computers talk to each other and share information.

**The World Wide Web**, or WWW, is like a special part of the Internet. It's where you can find websites, which are like pages on the computer that show pictures, videos, and other cool stuff. It's like a big playground with lots of different things to see and do.



So, the Internet is the big network that connects computers, and the World Wide Web is the fun part of the Internet where you can visit websites and explore all sorts of cool things.

# HOW TO ACCESS THE INTERNET?





# THE WEB BROWSER

We can view and access data over the web using a special program on our computers or devices called a web browser. A web browser is like a magic window that helps us see and interact with things on the internet.

When we open a web browser, we can type in the address of a website we want to visit, like www.example.com. The web browser sends a request to the internet asking for the information from that website.

Then, the website's server, which is like a special computer that holds the website's data, sends back the information as a response. This information includes things like text, images, videos, and more.

The web browser takes that information and shows it to us on our screen, just like opening a book or watching a movie. We can read the text, look at the pictures, and even click on links to go to other webpages.

# HOW DOES THE INTERNET WORK?



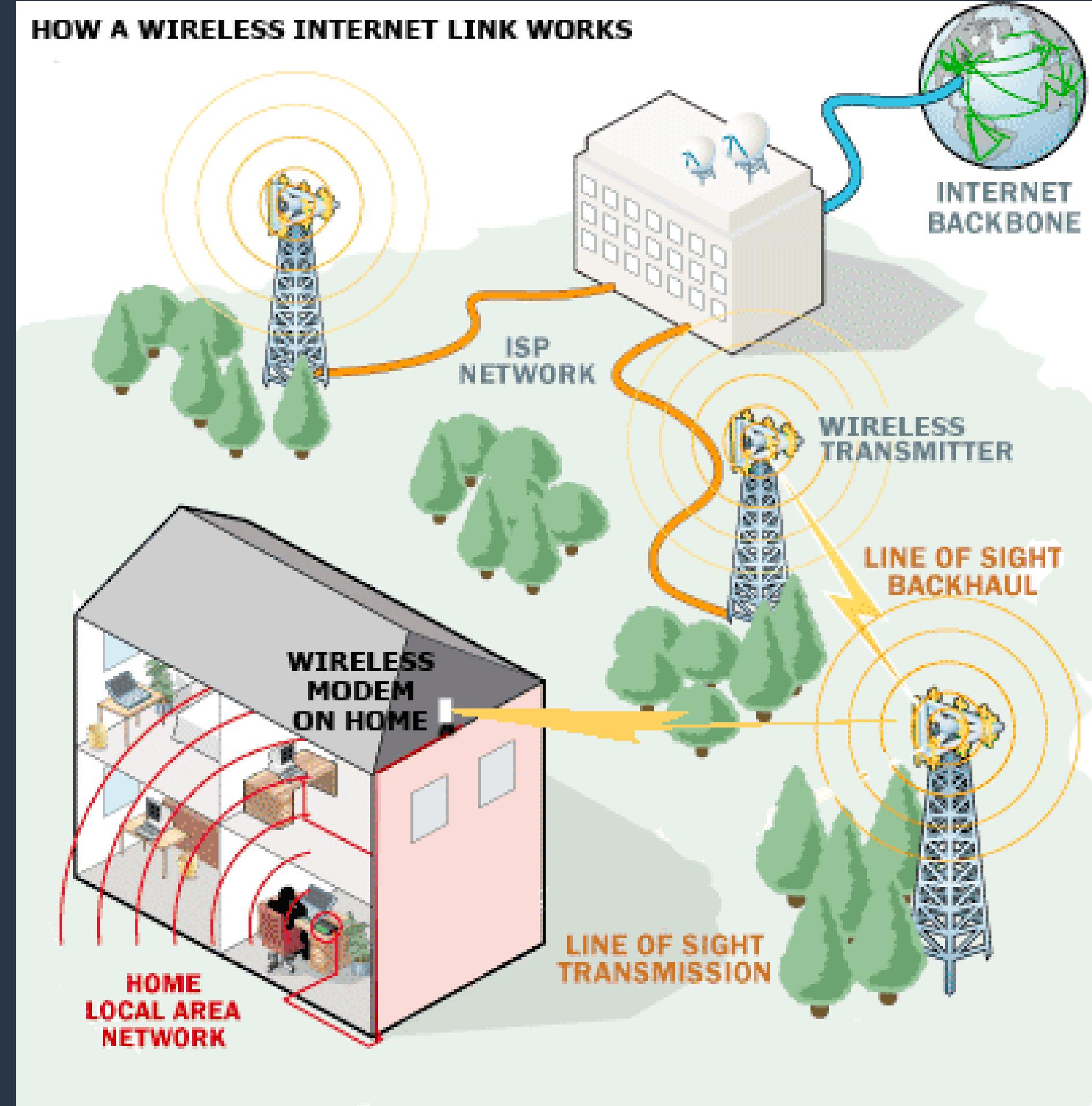
# HOW DOES THE INTERNET WORK?

Browser > ISP > DNS  
(Domain Name System) >  
Internet Backbone

Hypertext Transfer Protocol

IP Addresses

What is The Cloud?





# THE BACKBONE OF THE INTERNET



# SUBMARINE CABLES

Submarine cables are like long, underwater highways that carry information across the oceans. They are made up of thick, durable cables that are laid on the ocean floor. These cables allow data, like messages, pictures, and videos, to travel quickly from one continent to another. Just like roads connect different places on land, submarine cables connect countries and people around the world, making the internet work seamlessly and enabling us to communicate and share with others across vast distances.

[Check out this cool map of all submarine cables!](#)









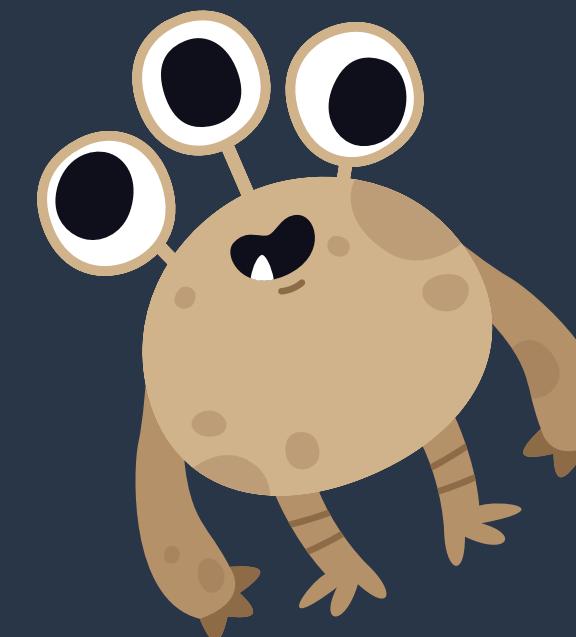
# WHAT IS WEB DEVELOPMENT?

# WHAT IS WEB DEVELOPMENT?

Web development is like building a special place on the internet where people can go to see and do cool things. It's like creating a playground with slides, swings, and games, but instead of physical things, we use special codes to make it all happen on a computer or phone. Web developers are like the architects and builders who make the playground fun and exciting for everyone to enjoy.



# WHAT ARE WEB PAGES?



# WHAT ARE WEB PAGES?



Web pages are the building blocks of the Internet. Whenever you visit a website, you are actually viewing a web page. These pages contain different elements such as text, images, and links that come together to form the content you see on your screen. Web pages are created using a special language called HTML.



# INTRODUCING HTML



HTML, short for **HyperText Markup Language**, is the language used to create web pages. It acts as a set of instructions that tell web browsers how to display the content of a web page.

HTML uses **tags** to define the structure and format of the content. These tags are like labels that surround different parts of the content and provide instructions to the browser.



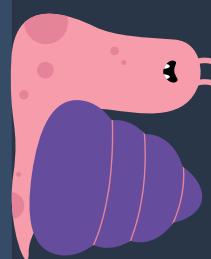
# HTML <TAGS>



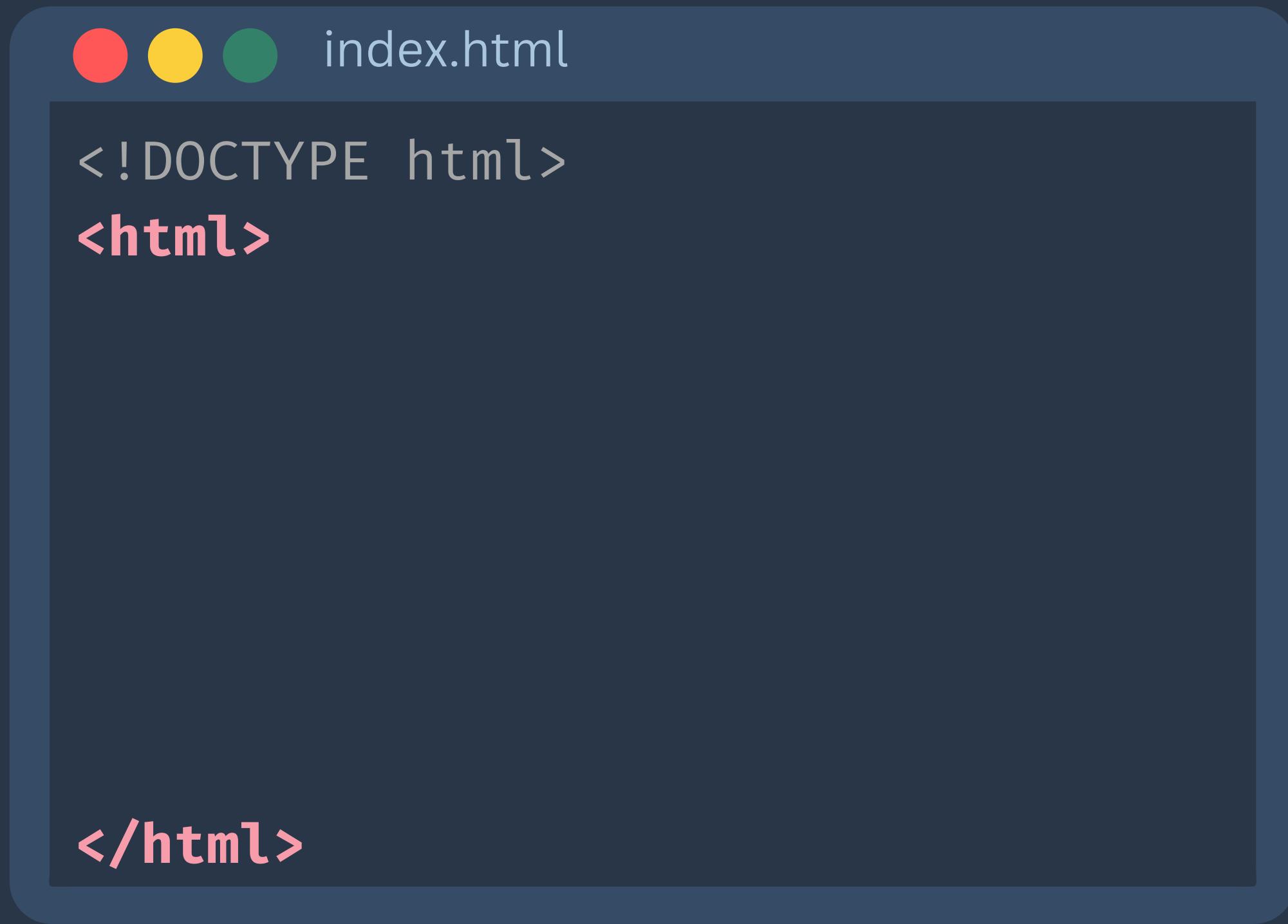
HTML tags are special codes used in web development to define the structure and formatting of elements on a webpage. They help display text, images, links, and more in a structured way.



# BASIC HTML STRUCTURE

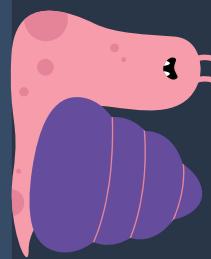


# BASIC HTML STRUCTURE

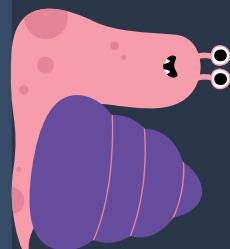


A blue rounded rectangle contains a code editor window with a dark background. At the top, there are three colored circles (red, yellow, green) followed by the text "index.html". The code editor displays the following HTML structure:

```
<!DOCTYPE html>
<html>
</html>
```



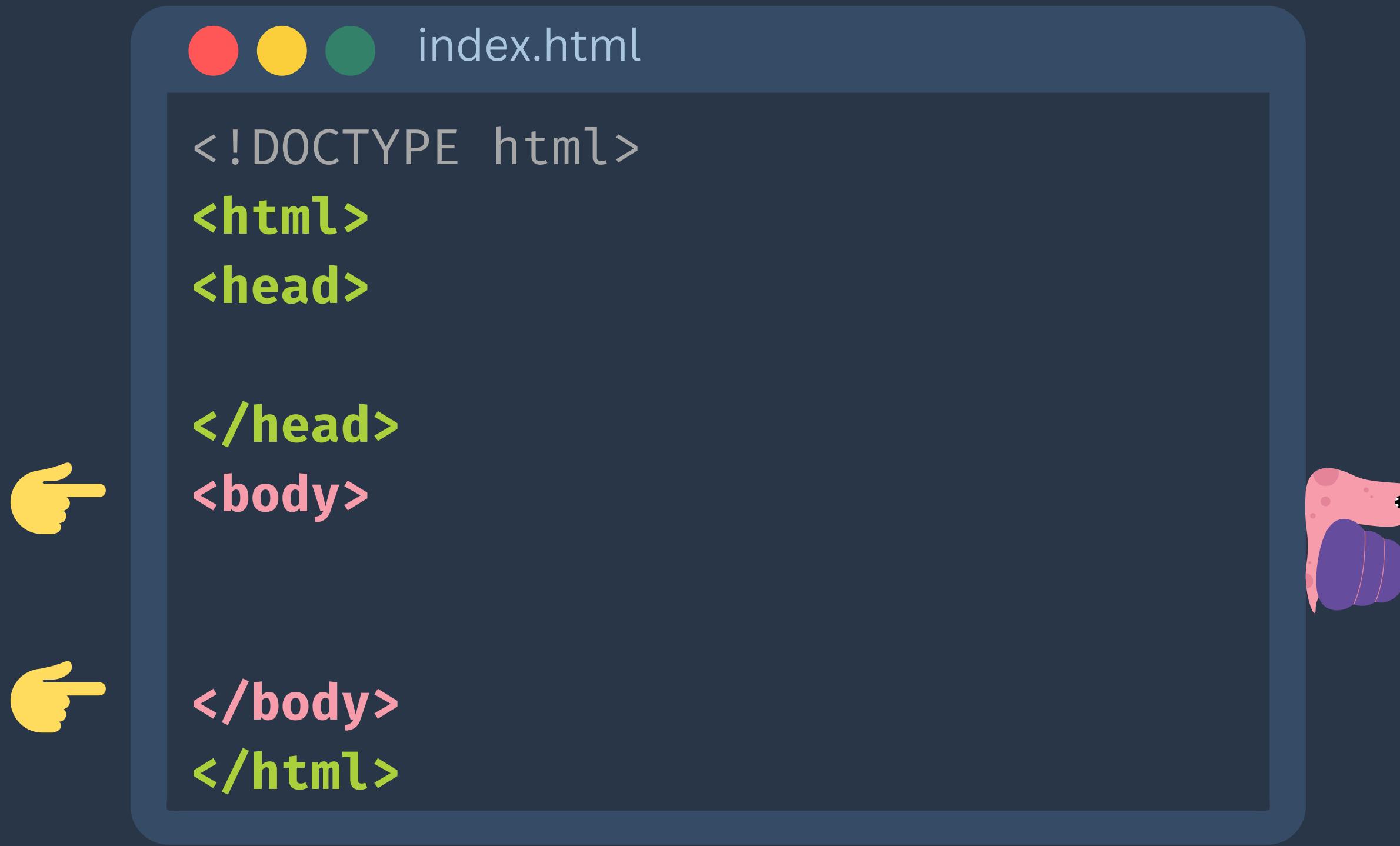
# BASIC HTML STRUCTURE



```
index.html

<!DOCTYPE html>
<html>
<head>
</head>
</html>
```

# BASIC HTML STRUCTURE



# BASIC HTML STRUCTURE



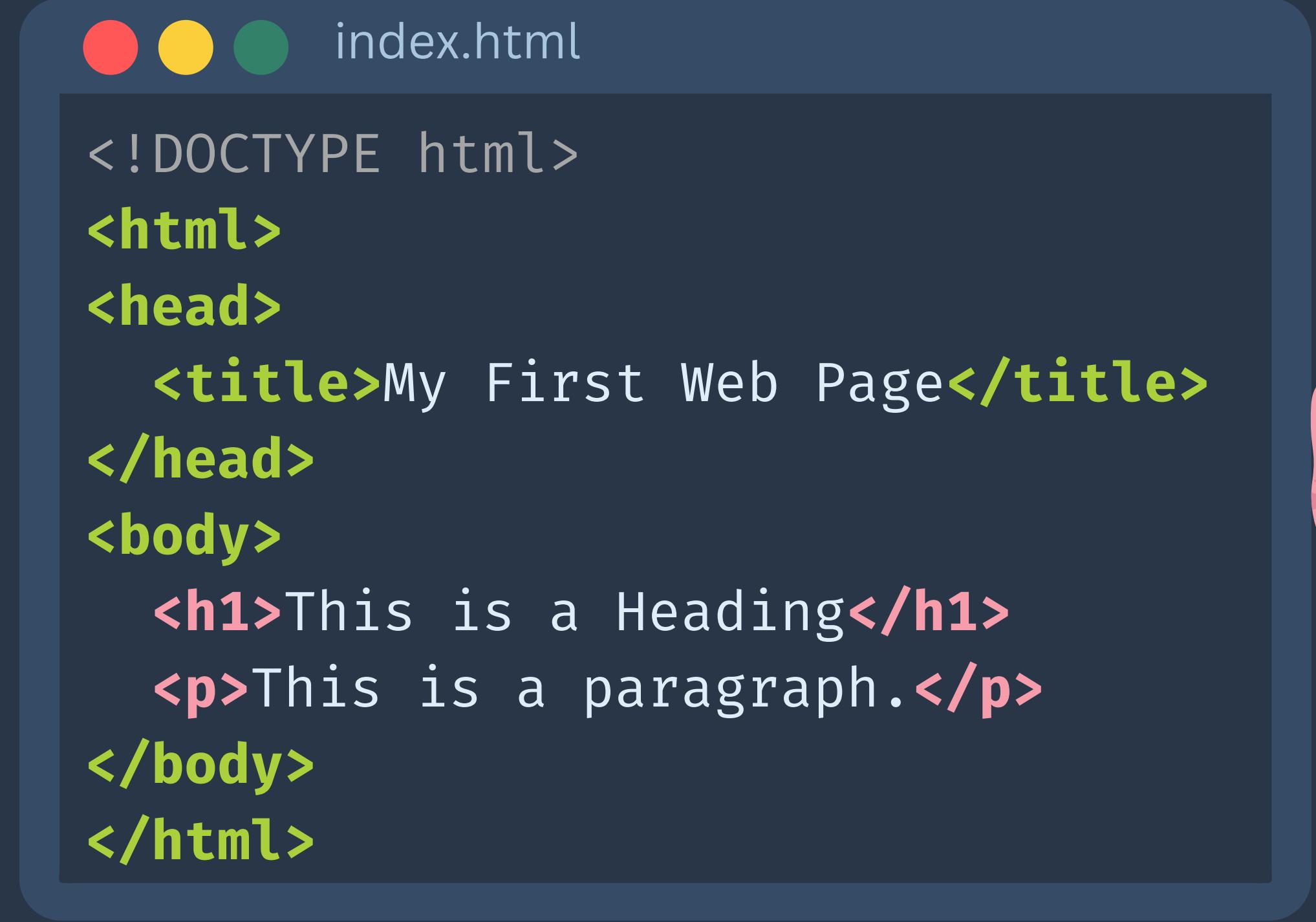


index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My First Web Page</title>
</head>
<body>

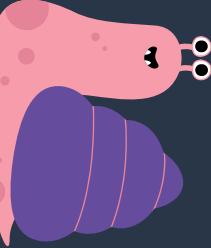
</body>
</html>
```

# BASIC HTML STRUCTURE



index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My First Web Page</title>
</head>
<body>
  <h1>This is a Heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```



# BASIC HTML STRUCTURE



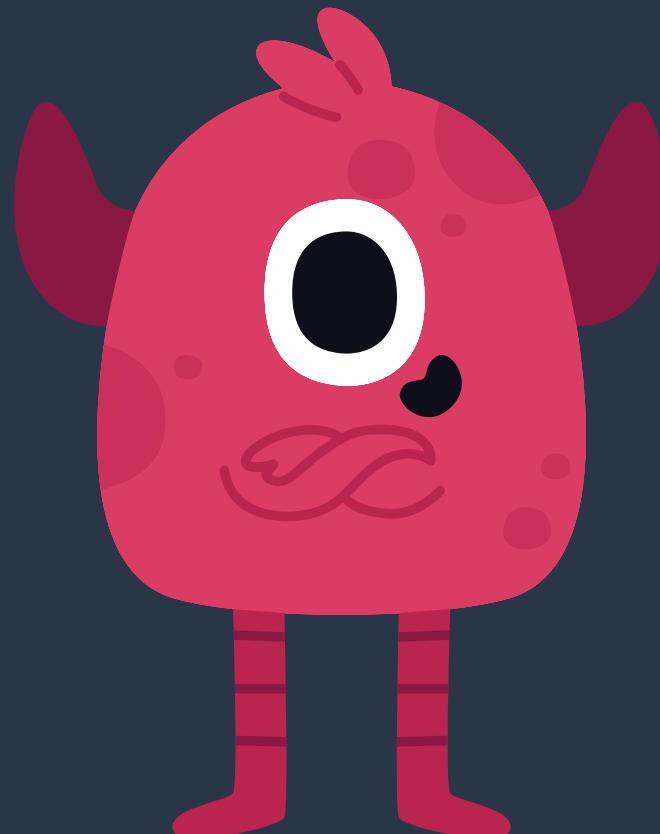
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# ADDING CONTENT TO YOUR WEB PAGE

In order to create your own HTML all you need is a simple text editor app and an Internet browser. This week we will do some quick exercises to prepare us for a deeper dive into HTML next week.



Now that we understand the basic structure, let's explore how to add content to our web page. Here are a few essential HTML tags you can use:

# HEADINGS

Headings define the importance and structure of your text content. HTML provides six levels of headings, ranging from **<h1>** to **<h6>**. The **<h1>** tag represents the highest level of heading, while **<h6>** represents the lowest.

Example:

```
<h1>Welcome to My Web Page!</h1>
```



## Practice

In **Real-time HTML Editor** create six headings, starting with the highest level **<h1>** and going down to **<h6>**

# PARAGRAPHS

Paragraphs are used to organise and present blocks of text content. You can create a paragraph using the `<p>` tag. Don't forget to add the closing tag `</p>`.

`<p>`This is my first web page. I'm excited to learn more about HTML!`</p>`



## Practice

In [Real-time HTML Editor](#) add two paragraphs.

# IMAGES

Images play a crucial role in web design. To insert an image, you can use the **<img>** tag and specify the image source (**src**) attribute. Additionally, it's important to provide alternative text (**alt**) for accessibility purposes. Note that the img tag is self-closing, meaning that you don't need to add a closing tag like with **<h1>** and **<p>**.

```

```



## Practice

In **Real-time HTML Editor** add Nevenka's photo on your page.

Use the following value for your source attribute:

<https://coderz.hartcliffe.org/neve.webp>



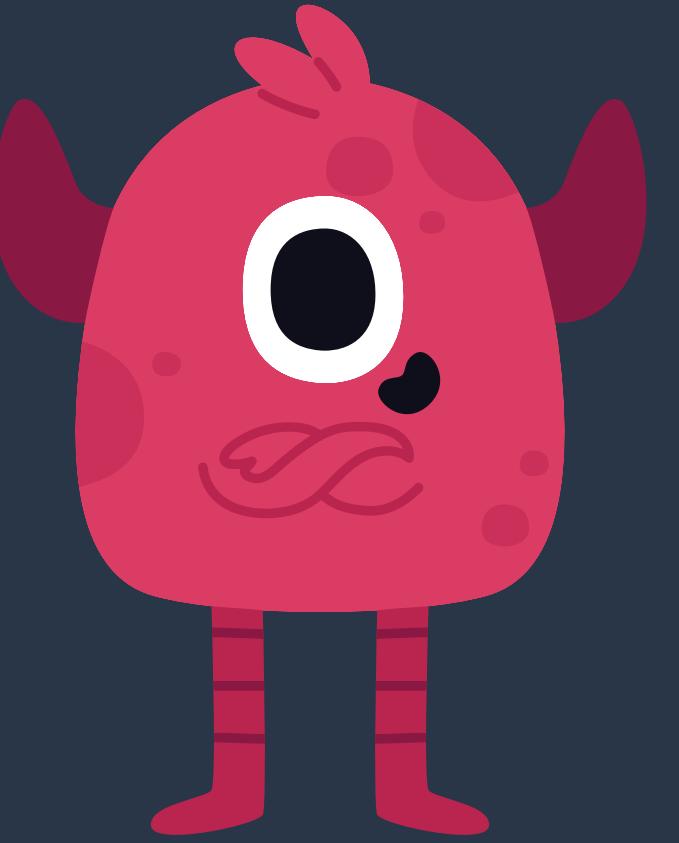
# REMEMBER!

This is just the beginning of your journey into the world of Web development. HTML offers a vast range of tags and elements that you can explore to create even more exciting web pages.

# QUIZ TIME!

Let's do a quick quiz together. Feel free to work with your partners in order to pick the right answer. Be quick! You will only have 45 seconds to answer each question. Don't worry if you aren't sure about the answers or make a mistake. It's normal!

[Click here to open the Quiz!](#)



# QUESTIONS?

# THANK YOU!

Don't hesitate to reach out if you have any questions. Enjoy creating your web page and stay tuned for our upcoming lessons where we will delve deeper into HTML and explore more captivating aspects of web development.



QUIZ SESSION