Day 1 - Intro to HTML

Class Preparation

Download these software
1. visual studio code
   (https://code.visualstudio.com/download)
2. google chrome - web browser

Wifi → hactiv8-guest
Password → javascript

Priambodo Kurniawan

Suitmedia, Calibreworks, Gojek

Do programming since 2016

Muhamad Ariel Akilie

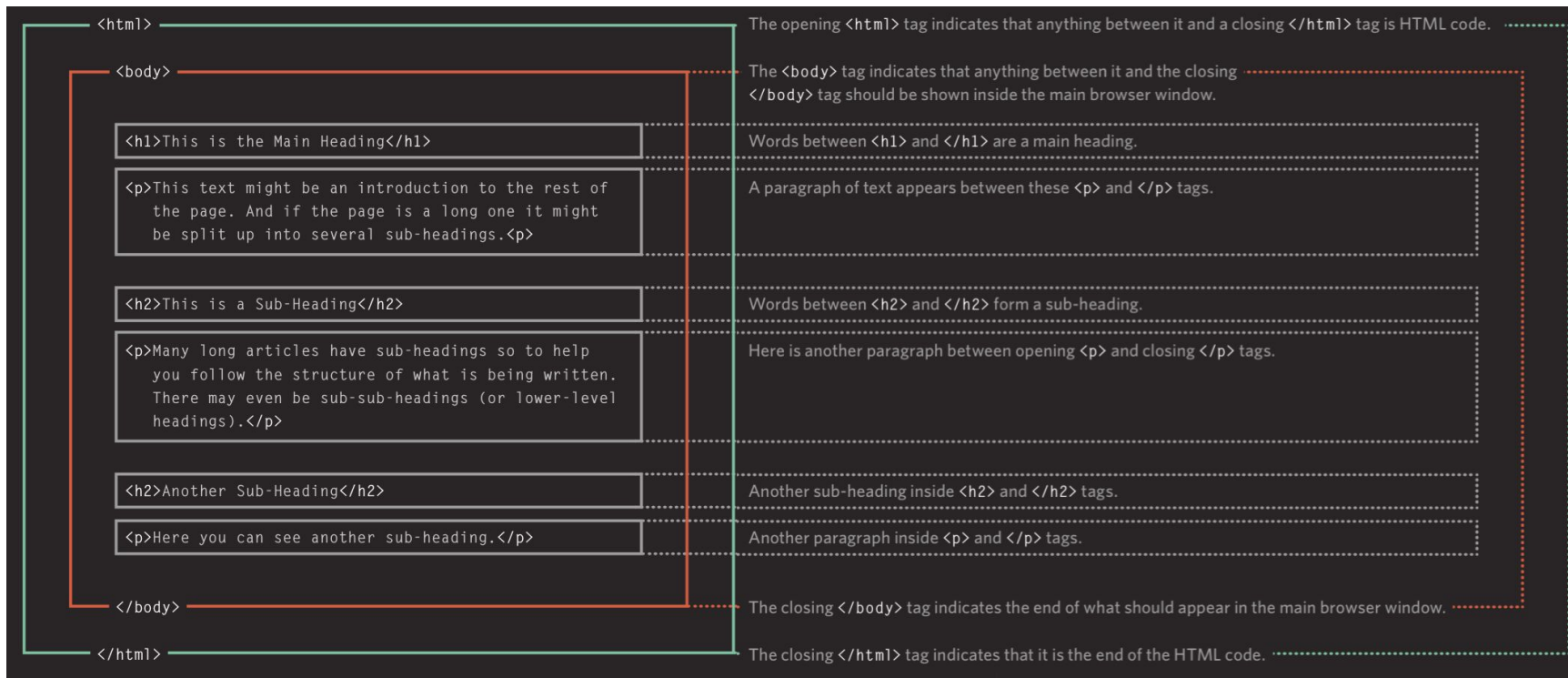Kiranatama, Walden Global Services, Qivtech, Forstok, Tokopedia

Do programming since 2008

Intro

Introduce yourself
1. Bio
2. Programming background
3. Why learn to code
4. Goals for this course
5. Hobbies and interests
6. Your favorite websites

HTML

```
<html>

    <body>

        <h1>This is the Main Heading</h1>

        <p>This text might be an introduction to the rest of
           the page. And if the page is a long one it might
           be split up into several sub-headings.<p>

        <h2>This is a Sub-Heading</h2>

        <p>Many long articles have sub-headings so to help
           you follow the structure of what is being written.
           There may even be sub-sub-headings (or lower-level
           headings).</p>

        <h2>Another Sub-Heading</h2>

        <p>Here you can see another sub-heading.</p>

    </body>

</html>
```

The opening `<html>` tag indicates that anything between it and a closing `</html>` tag is HTML code.

The `<body>` tag indicates that anything between it and the closing `</body>` tag should be shown inside the main browser window.

Words between `<h1>` and `</h1>` are a main heading.

A paragraph of text appears between these `<p>` and `</p>` tags.

Words between `<h2>` and `</h2>` form a sub-heading.

Here is another paragraph between opening `<p>` and closing `</p>` tags.

Another sub-heading inside `<h2>` and `</h2>` tags.

Another paragraph inside `<p>` and `</p>` tags.

The closing `</body>` tag indicates the end of what should appear in the main browser window.

The closing `</html>` tag indicates that it is the end of the HTML code.

What is HTML

HTML is a **markup** language for describing the **structure** and **content** of web documents (web pages). It is comprised of markup **tags** and text content nested inside each other.

HTML Tags

HTML tags are **keywords** (tag names) surrounded by **angle brackets**:

<tagname>content</tagname>

1. HTML tags normally come **in pairs** like <p> and </p>
2. The first tag in a pair is the **start tag,** the second tag is the **end tag**
3. The end tag is written like the start tag, but with a **slash** before the tag name

A small HTML file

As written by the programmer in a code editor, it is an inert document- data sitting on the hard drive- until its code is **executed** by an interpreter:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>My First Heading</h1>
    <p>My first paragraph.</p>
  </body>
</html>
```

Copy it here https://gist.github.com/anonymous/b092f1b933e56b2690bb7b5565a41cfb

Web Browsers

The purpose of a web browser (Chrome, IE, Firefox, Safari) is to read HTML documents and display them.

*Please update your chrome

Reading & Parsing

By following the rules of HTML, a **web browser** understands this to be a document with a heading and a paragraph. Here is what the browser **interpreter** thinks when given this code:

- The **DOCTYPE** declaration defines the document type to be HTML
- The text between **<html>** and **</html>** describes an HTML document
- The text between **<head>** and **</head>** provides information about the document
- The text between **<title>** and **</title>** provides a title for the document
- The text between **<body>** and **</body>** describes the visible page content
- The text between **<h1>** and **</h1>** describes a heading
- The text between **<p>** and **</p>** describes a paragraph

Reading & Parsing

It then **parses** apart the file. The white area below (inside the <body> tag) is the only part that actually appears in the **browser window** (visible to the user).

```
<html>

    <head>

        <title>Page title</title>

    </head>


    <body>

        <h1>This is a heading</h1>

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

    </body>

</html>
```

See for yourself

1. Download Chrome (web browser)
2. Open this file☐ and view its source [CMD + OPTION + U].
3. Use the Elements panel of the Chrome developer tools [CMD + OPTION + I] to answer the following questions:

- What font-size does the browser give an <h1> element by default?
- What font-weight does the browser give an <h1> element by default?
- How does the browser render the extra spaces and new lines in the last paragraph?
- Are there any parts of the body that are not rendered into the browser window?

Exercise!

1. Write a short bio
2. What is your programming background?
3. Why do you want to learn to code?
4. What are your goals for this course specifically?
5. Other hobbies and interests?
6. What are your favorite websites?

Exercise!

6.   Use some <em> and <b> tags
7.   Use some <br> and <hr> tags
8.   Use some <ol> and <ul> tags
9.   Use HTML Comment
10.   Include profile photos use tag <img src=''>
11.   In fact, we'll need plenty of images (on your computer or on the web). Users love images!
12.   Link to some external websites

Deploy!

https://www.netlify.com

more :
https://html.spec.whatwg.org/multipage/semantics.html#text-level-semantics