# HYPER TEXT MARKUP LANGUAGE

## BASICS OF WEB DEVELOPMENT

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# WHAT IS HTML?

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

# HOW DOES AN HTML LOOKS LIKE?

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

<h1>My First Heading</h1>
<p>My first paragraph.</p>

</body>
</html>
```

# Example Explained

- The `<!DOCTYPE html>` declaration defines that this document is an HTML5 document

- The `<html>` element is the root element of an HTML page

- The `<head>` element contains meta information about the HTML page

- The `<title>` element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)

- The `<body>` element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

- The `<h1>` element defines a large heading
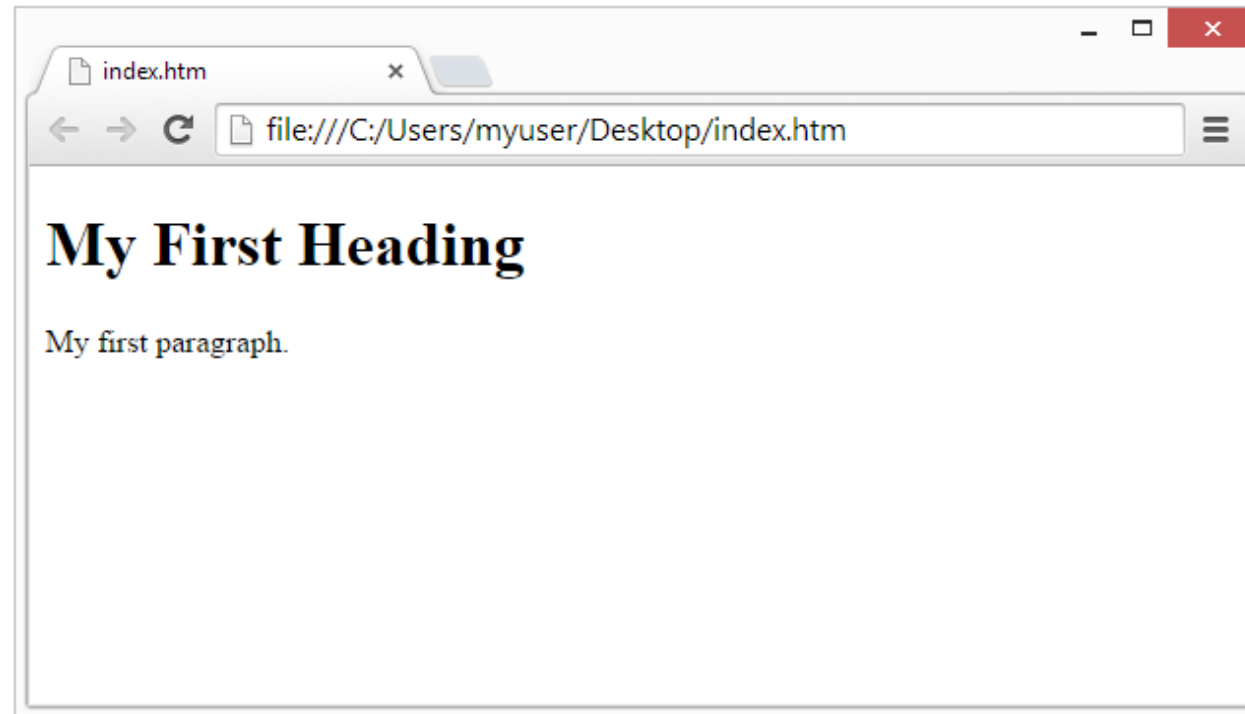
- The `<p>` element defines a paragraph

## What is an HTML Element?

- An HTML element is defined by a start tag, some content, and an end tag:
- **&lt;tagname&gt;** Content goes here... **&lt;/tagname&gt;**
- The HTML **element** is everything from the start tag to the end tag:
- **&lt;h1&gt;**My First Heading**&lt;/h1&gt;**
- **&lt;p&gt;**My first paragraph.**&lt;/p&gt;**

| Start tag | Element content | End tag |
|---|---|---|
| &lt;h1&gt; | My First Heading | &lt;/h1&gt; |
| &lt;p&gt; | My first paragraph. | &lt;/p&gt; |
| &lt;br&gt; | *none* | *none* |

# WEB BROWSERS

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

- A browser does not display the HTML tags, but uses them to determine how to display the document:

# HTML PAGE STRUCTURE

```
<html>

    <head>

        <title>Page title</title>

    </head>

    <body>

            <h1>This is a heading</h1>

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

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

    </body>

</html>
```

# HTML HISTORY

| | |
|---|---|
| 1989 | Tim Berners-Lee invented www |
| 1991 | Tim Berners-Lee invented HTML |
| 1993 | Dave Raggett drafted HTML+ |
| 1995 | HTML Working Group defined HTML 2.0 |
| 1997 | W3C Recommendation: HTML 3.2 |
| 1999 | W3C Recommendation: HTML 4.01 |
| 2000 | W3C Recommendation: XHTML 1.0 |
| 2008 | WHATWG HTML5 First Public Draft |
| 2012 | WHATWG HTML5 Living Standard |
| 2014 | W3C Recommendation: HTML5 |
| 2016 | W3C Candidate Recommendation: HTML 5.1 |
| 2017 | W3C Recommendation: HTML5.1 2nd Edition |
| 2017 | W3C Recommendation: HTML5.2 |

# Creating HTML document
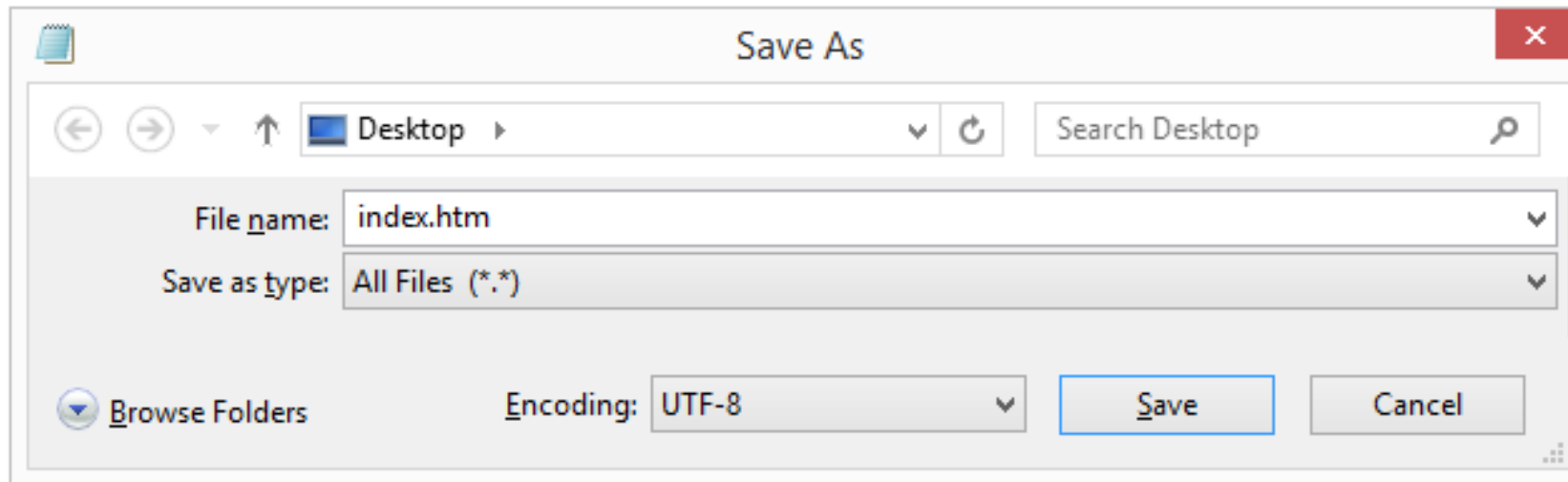
- Open Notepad
- Write Some HTML

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

<h1>My First Heading</h1>

<p>My first paragraph.</p>

</body>
</html>
```
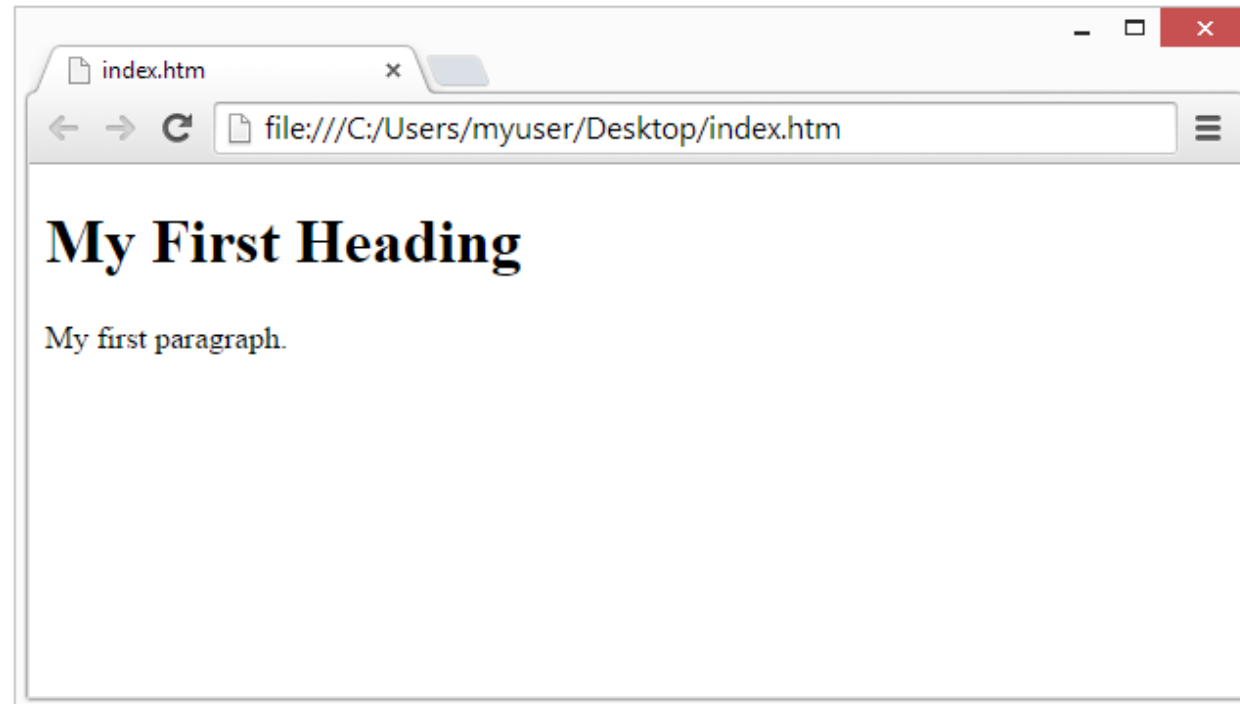
# Save the HTML Page

- Save the file on your computer. Select **File > Save as** in the Notepad menu.

- Name the file **"index.htm"** and set the encoding to **UTF-8** (which is the preferred encoding for HTML files).

# View the HTML Page in Your Browser

- Open the saved HTML file in your favorite browser (double click on the file, or right-click - and choose "Open with").

- The result will look much like this:

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- OR
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