

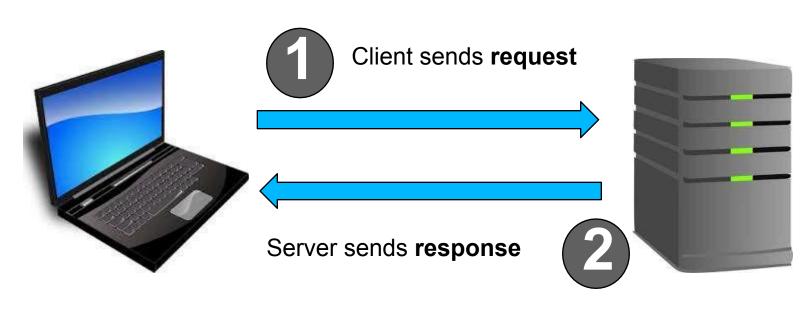
Introduction to HTML

SENG 4640
Software Engineering for Web Apps
Winter 2023

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Review

- Browser and the World Wide Web utilize Hypertext
 Transfer Protocol (HTTP) to transfer documents
- Uses the following structure:



Client

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 HTML is a plain-text, human-readable language that is used for representing content on the Web

- HTML specifies how to structure the data but not (necessarily) how to display it
- The browser chooses how to display the content

- HTML structure is hierarchical
- Elements may be nested, i.e. content of an element can be another element

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<!DOCTYPE html>
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   <head>
          <title>
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Important HTML Tags: <!DOCTYPE>

- NOT actually a tag, rather a declaration to the web browser of what version of html the following document uses
- For HTML5, doctype declaration is as follows:
 - <!DOCTYPE html>
- This declaration must be the very first line of an html document

```
<!DOCTYPE html>

(all content of html document should go
below this declaration)
```

Important HTML Tags: <html>

After the declaration, HTML pages must start with the <html> tag

 Often referred to as the root element because it can be considered the root of the tree-like structure of elements in an HTML page

```
<!DOCTYPE html>
<html>
    (all other elements should go here)
</html>
```

Contains information about the document, not content

```
<!DOCTYPE>
<html>
<head>
    <title>My Web Page 2.0</title>
    link rel="stylesheet" type="text/css" href="/style.css">
    <meta name="description" content="Learning about HTML.">
    <meta name="keywords" content="html, web development">
    <script src="code.js"></script>
</head>
</html>
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Important HTML Tags: <body>

- Appears directly beneath the head element
- Contains all web page content (images, text, etc.)
- Most web pages have one single body element

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<!DOCTYPE html>
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<head>
...
</head>

<body>
Hello world!
</body>
</html>
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Server: Apache/1.4

Last-Modified: Wed, 04 Apr XXXX

Connection: close

Content-Type: text/html

Content-Length: 228

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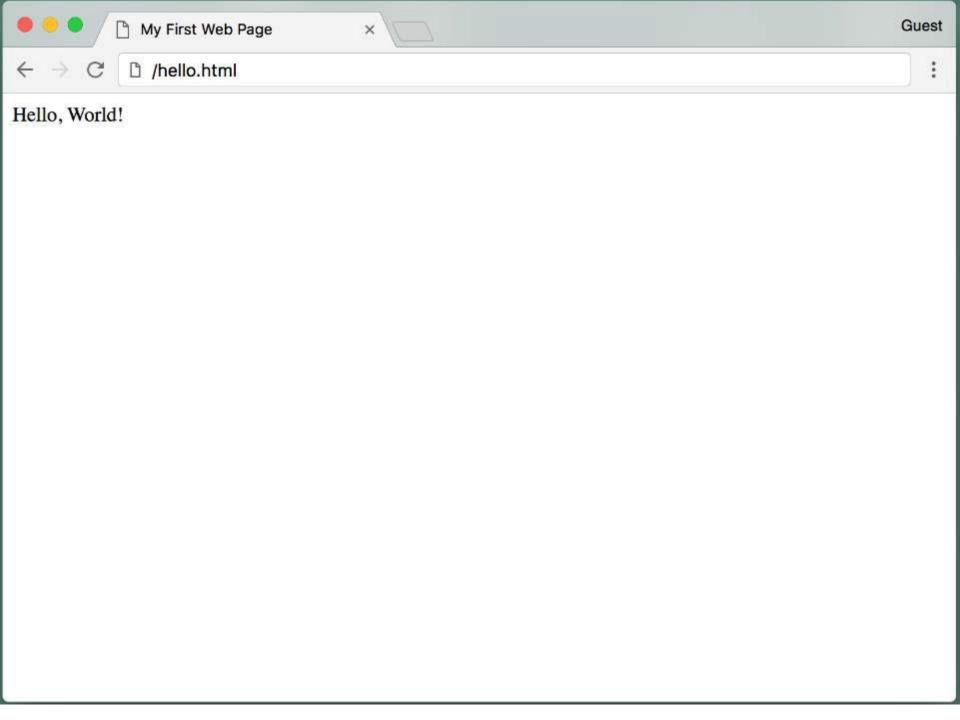
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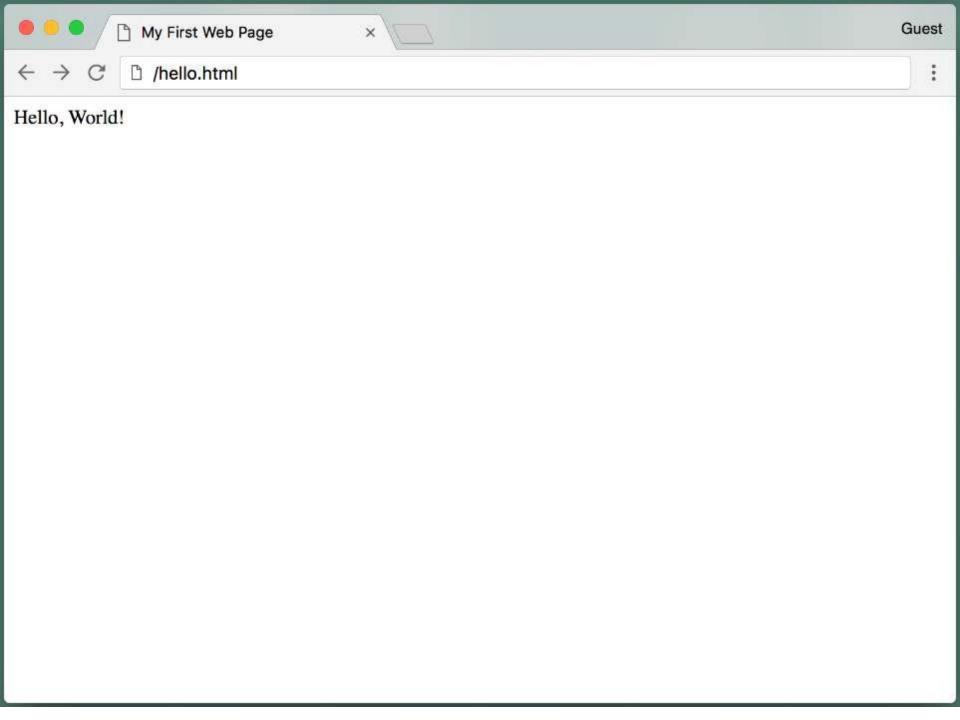
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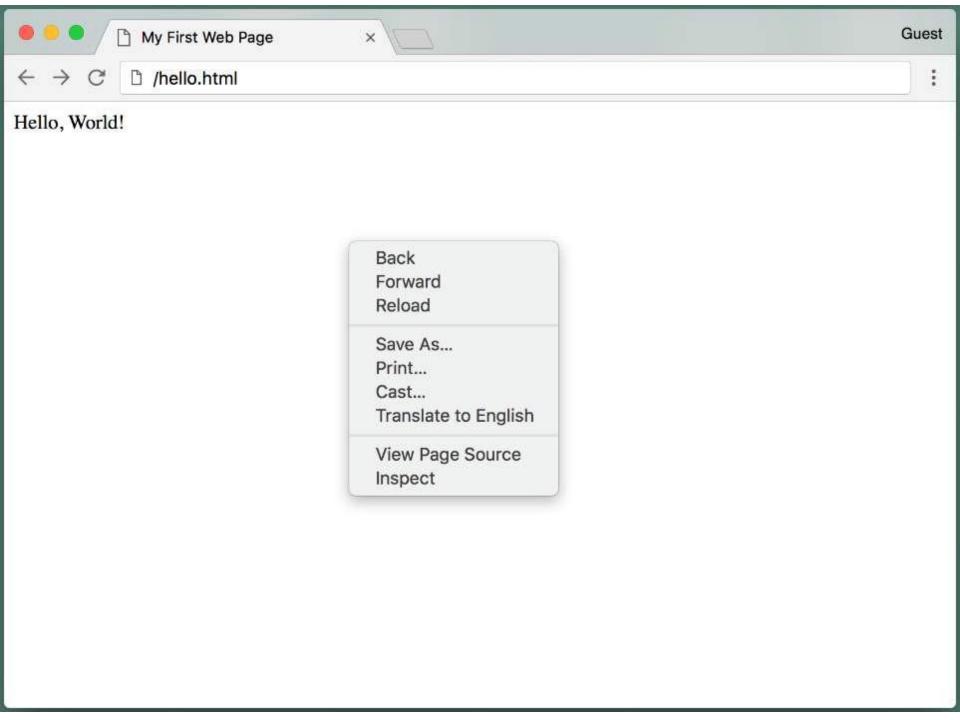
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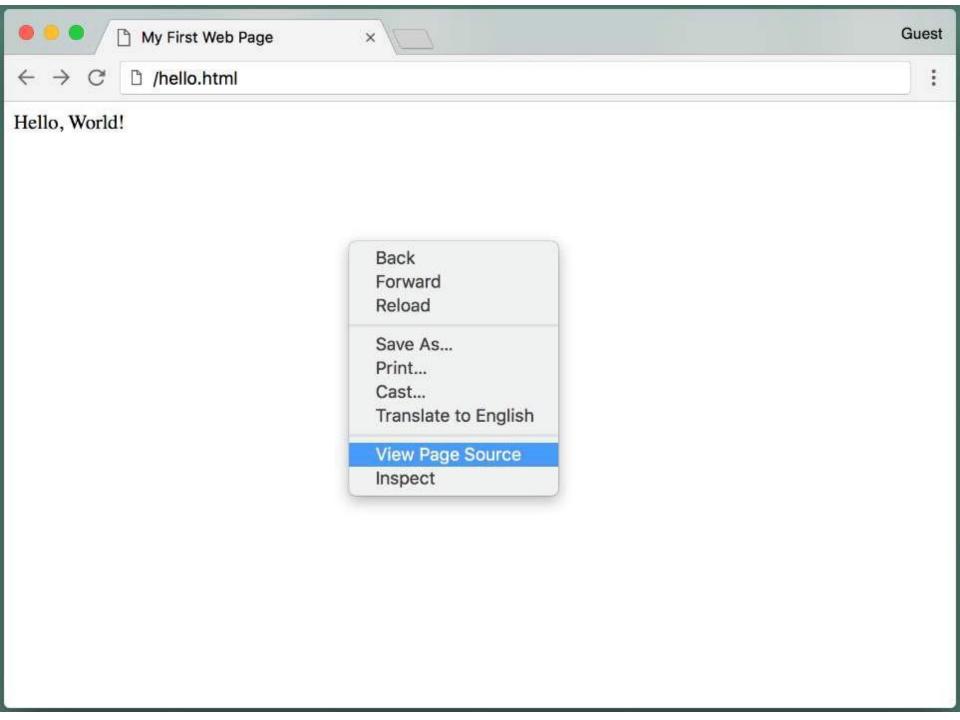


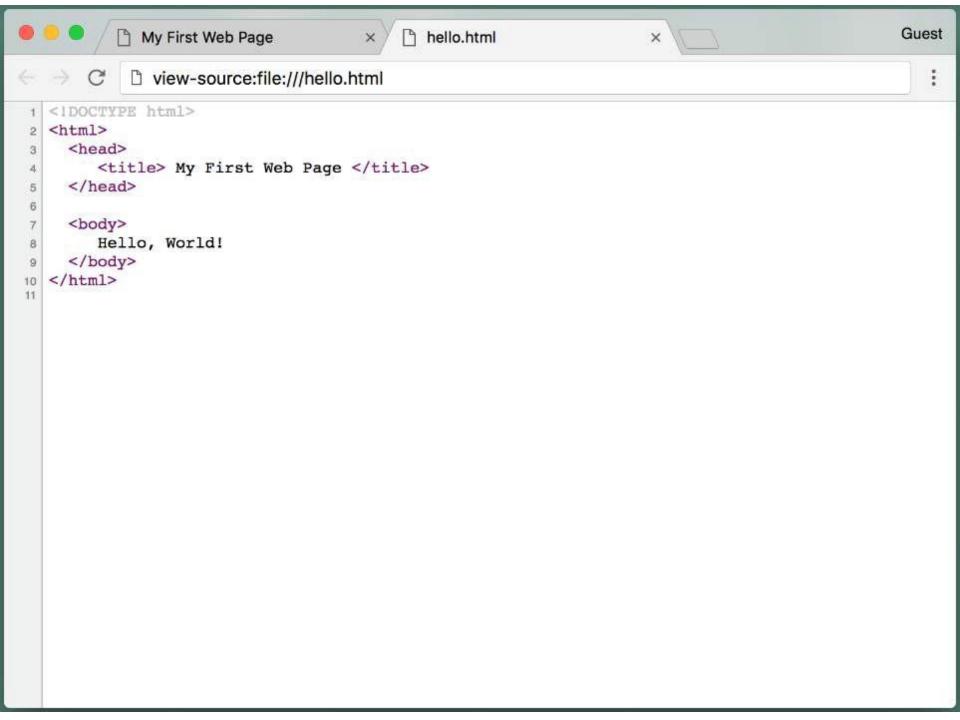
Environment Setup

- 1. Download a text editor
- 2. Once installed, create new text file
- 3. Write HTML in file
- 4. Save document as "hello.html"
- 5. Open local file (hello.html) in browser
- 6. You can view the HTML source in the browser!









Looking Ahead

How else can we structure the content in HTML?

How can we affect the appearance of the content?