Lecture 02: Intro to HTML & CSS, Divs, Box Model
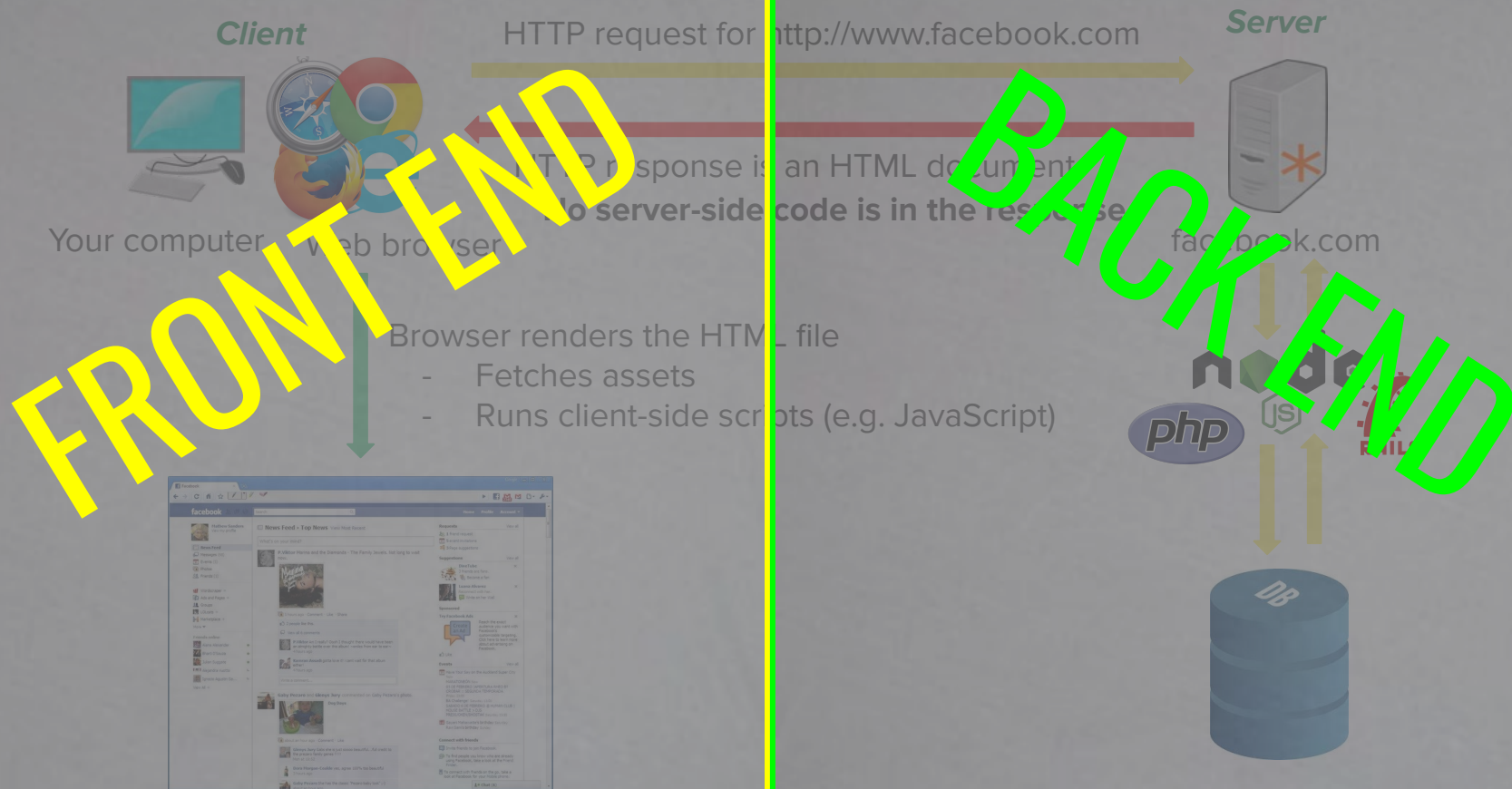
ITP 303 Full-Stack Web Development

Key Takeaways Today
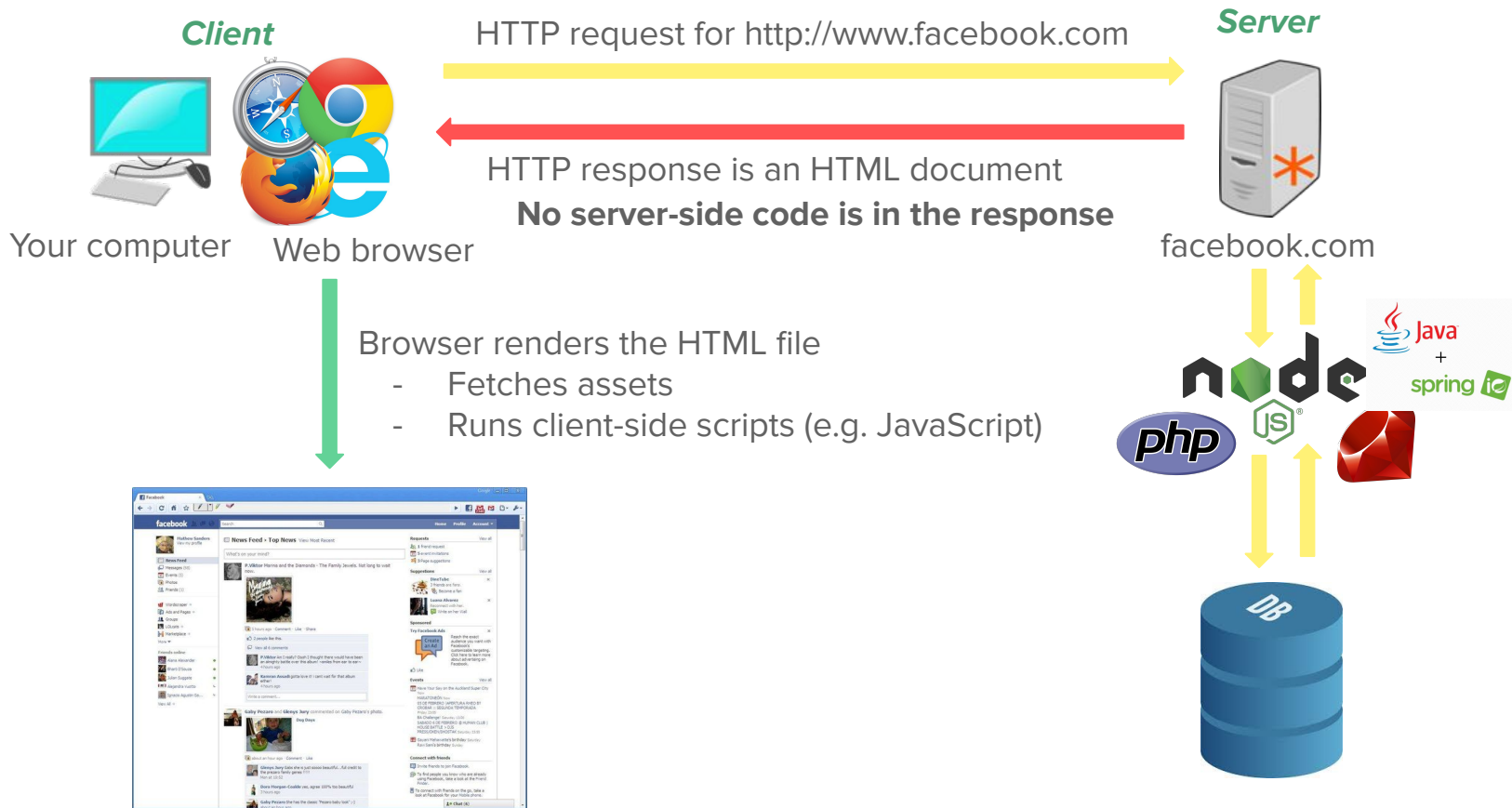
1. HTML basic concepts and syntax (tags, attributes, etc)
2. CSS basic concepts and syntax (properties, values, etc)
3. <div> tag
4. CSS float

HTML

A dynamic website

Client

HTTP request for http://www.facebook.com

HTTP response is an HTML document
No server-side code is in the response

Your computer   Web browser

Browser renders the HTML file
- Fetches assets
- Runs client-side scripts (e.g. JavaScript)

Server

facebook.com

FRONT END

BACK END

A dynamic website

Client

Your computer   Web browser

Server

HTTP request for http://www.facebook.com

HTTP response is an HTML document
No server-side code is in the response

facebook.com

Browser renders the HTML file
- Fetches assets
- Runs client-side scripts (e.g. JavaScript)
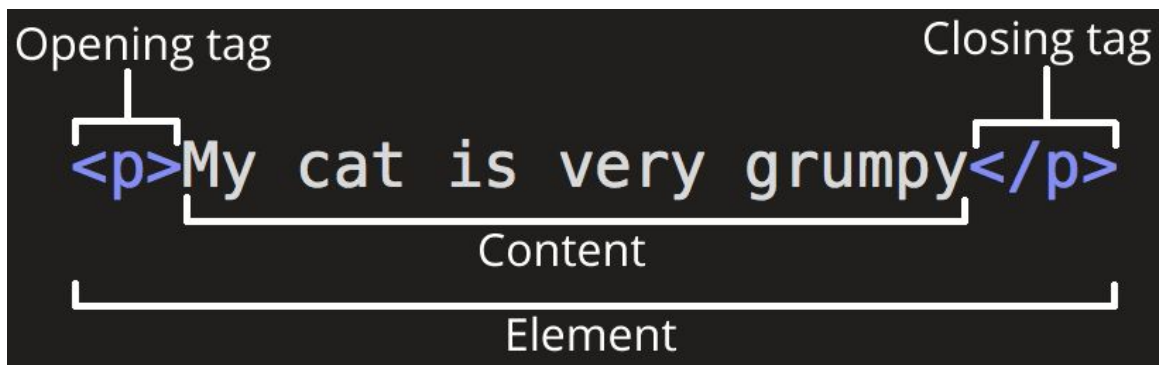
Inside a HTML file

- **HTML** (Hyper Text Markup Language) - used to **structure** the content of the page

- **CSS** (Cascading Stylesheet) - used to control the **look and feel** of the page

- Web **browsers** like Chrome, Safari, etc open the HTML file and render it as it is coded
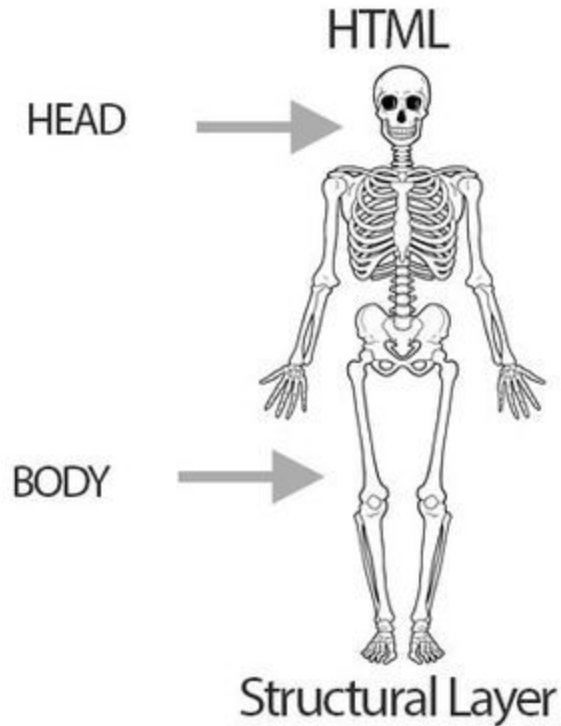
HTML

- Standard language for creating websites.
- "Markup" means HTML is used to annotate or tag text in the document.

Syntax:
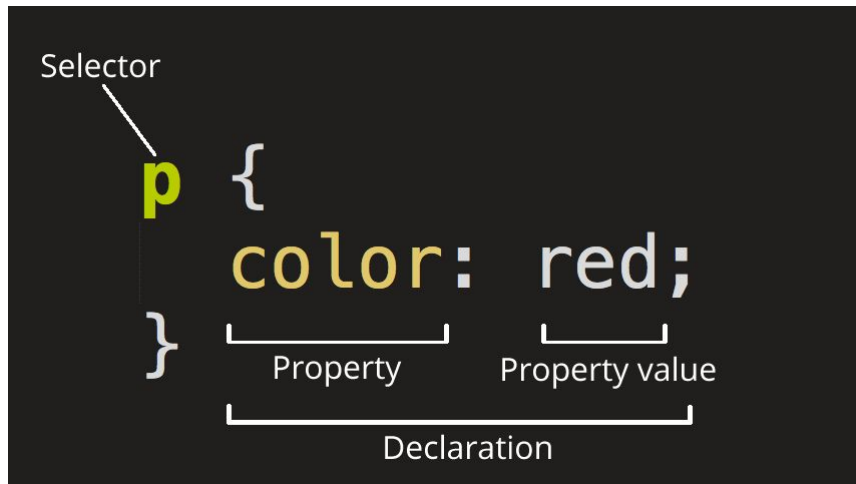
CSS

CSS (**C**ascading **S**tyle**s**heet)

HTML — Structural Layer
- HEAD
- BODY

HTML with CSS — Presentation Layer
- APPEARANCE
- LOOK

CSS (**C**ascading **S**tyle**s**heet)

A rule-based language — you define **rules** specifying styles that should be applied to particular elements or groups of elements on your web page.

Syntax

CSS (**C**ascading **S**tyle**s**heet)

```html
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <title>A HTML Page</title>
5       <style>
6           p {
7               color: red;
8           }
9           p strong {
10              background-color: yellow;
11          }
12      </style>
13  </head>
14  <body>
15      <p>I am not throwin' away my <strong>shot</strong></p>
16      <p>Hey yo, I'm just like my country</p>
17      <p>I'm young scrappy and hungry</p>
18      <p>I am not throwin' away my <strong>shot</strong></p>
19  </body>
20  </html>
```

Result

I am not throwin' away my **shot**

Hey yo, I'm just like my country

I'm young scrappy and hungry

I am not throwin' away my **shot**

CSS (**C**ascading **S**tyle**s**heet)

```html
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>A HTML Page</title>
5      <style>
6          p {
7              color: red;
8          }
9          p strong {
10             background-color: yellow;
11         }
12         .blue-text {
13             color: blue;
14         }
15     </style>
16 </head>
17 <body>
18     <p class="blue-text">I am not throwin' away my <strong>
       shot</strong></p>
19     <p>Hey yo, I'm just like my country</p>
20     <p>I'm young scrappy and hungry</p>
21     <p class="blue-text">I am not throwin' away my <strong>
       shot</strong></p>
22 </body>
23 </html>
```

Result

I am not throwin' away my **shot**

Hey yo, I'm just like my country

I'm young scrappy and hungry

I am not throwin' away my **shot**