Web 101

About Me

- ABC News Intern, summer 2017

- Founder @ beachparking.com 2015-2016

- CSE Senior @ UConn

- @richinfante on twitter

- I've been building websites and stuff for about 10 years.

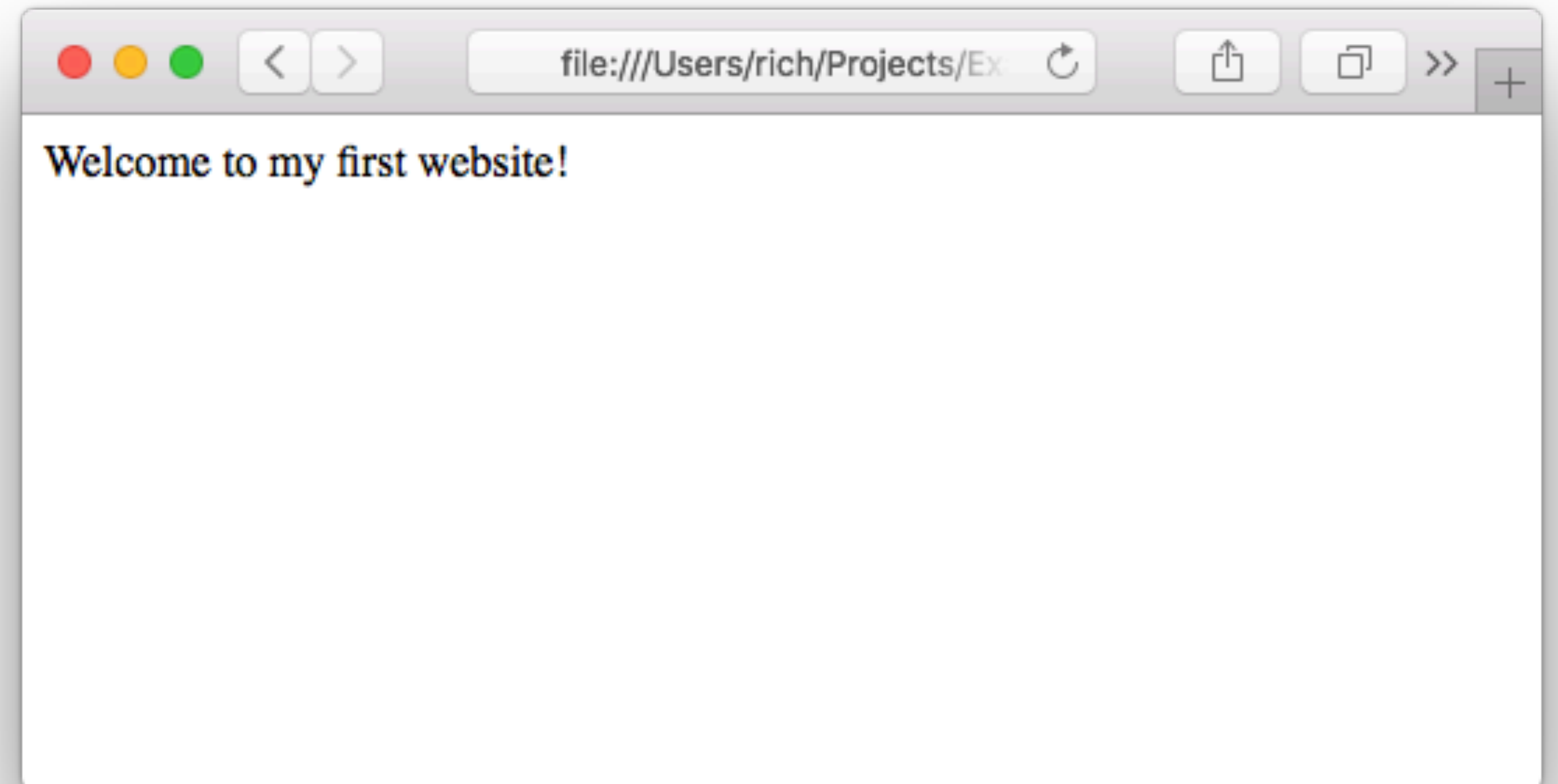# So, you want to build a website?

- HTML, CSS, JS overview

- Interactive Demo!

- Domain Names

- Hosting

- Other Alternatives

HTML, CSS, and JavaScript

- This is how your website is actually built.

- If you're using a website builder you don't need to worry about this.

- HTML is for page structure - text, links, images.

- CSS is how the page looks to the user

- JavaScript is for more advanced scripting and user interaction features.

HTML

```
<!DOCTYPE html>

<html>

<head>

    <title>Hello</title>

</head>

<body>

    Welcome to my first website!

</body>

</html>
```

file:///Users/rich/Projects/Ex

Welcome to my first website!

Plain HTML

```html
<h1>My Dog Website</h1>

<p>Here are some pictures of dogs I
wanted to share with the internet.</p>

<h2>Reasons I like dogs</h2>

<ul>

    <li>They fetch</li>

    <li>They are fun</li>

</ul>

<img src="dog.jpg">

<p><a href="https://google.com">Visit
Google for more dog pictures</a></p>
```
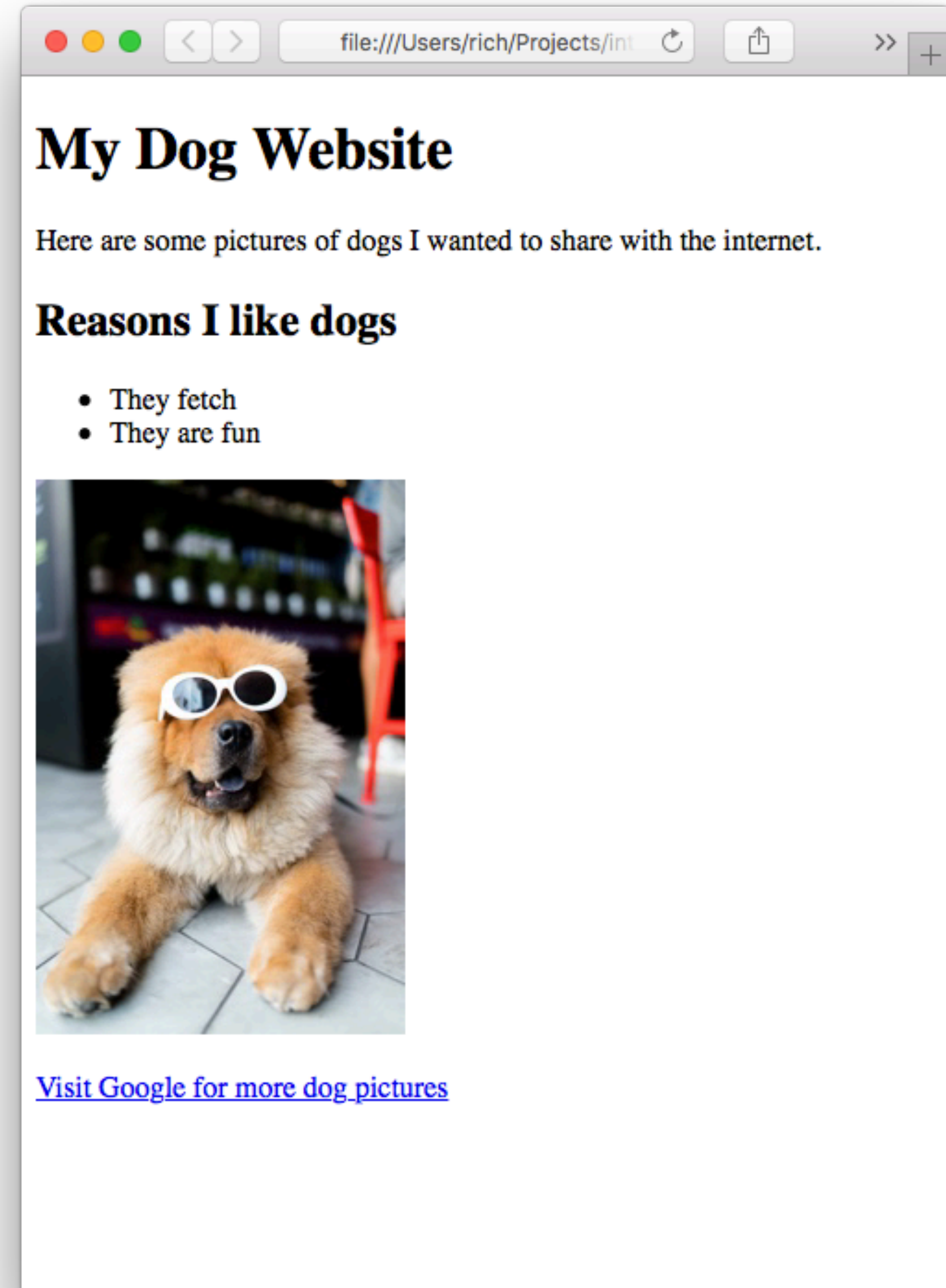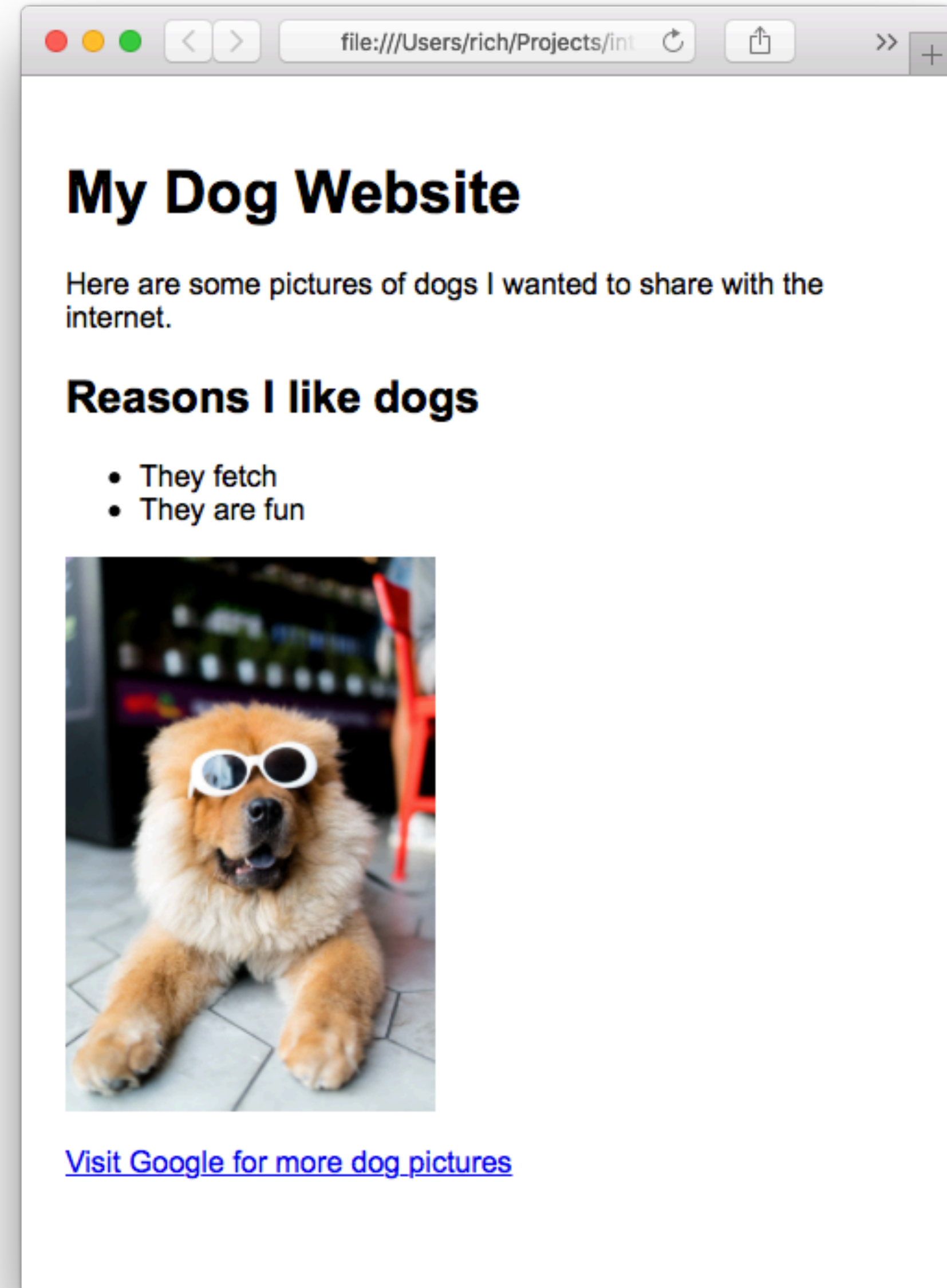
HTML + CSS

```css
body {

    font-family: Arial,
Helvetica, sans-serif;

    padding: 1em;

}
```

HTML + CSS + JS

```
<script>

function sayHello() {

    alert('Hello, World!')

}

</script>

<button onclick="sayHello()">Say Hi</button>
```
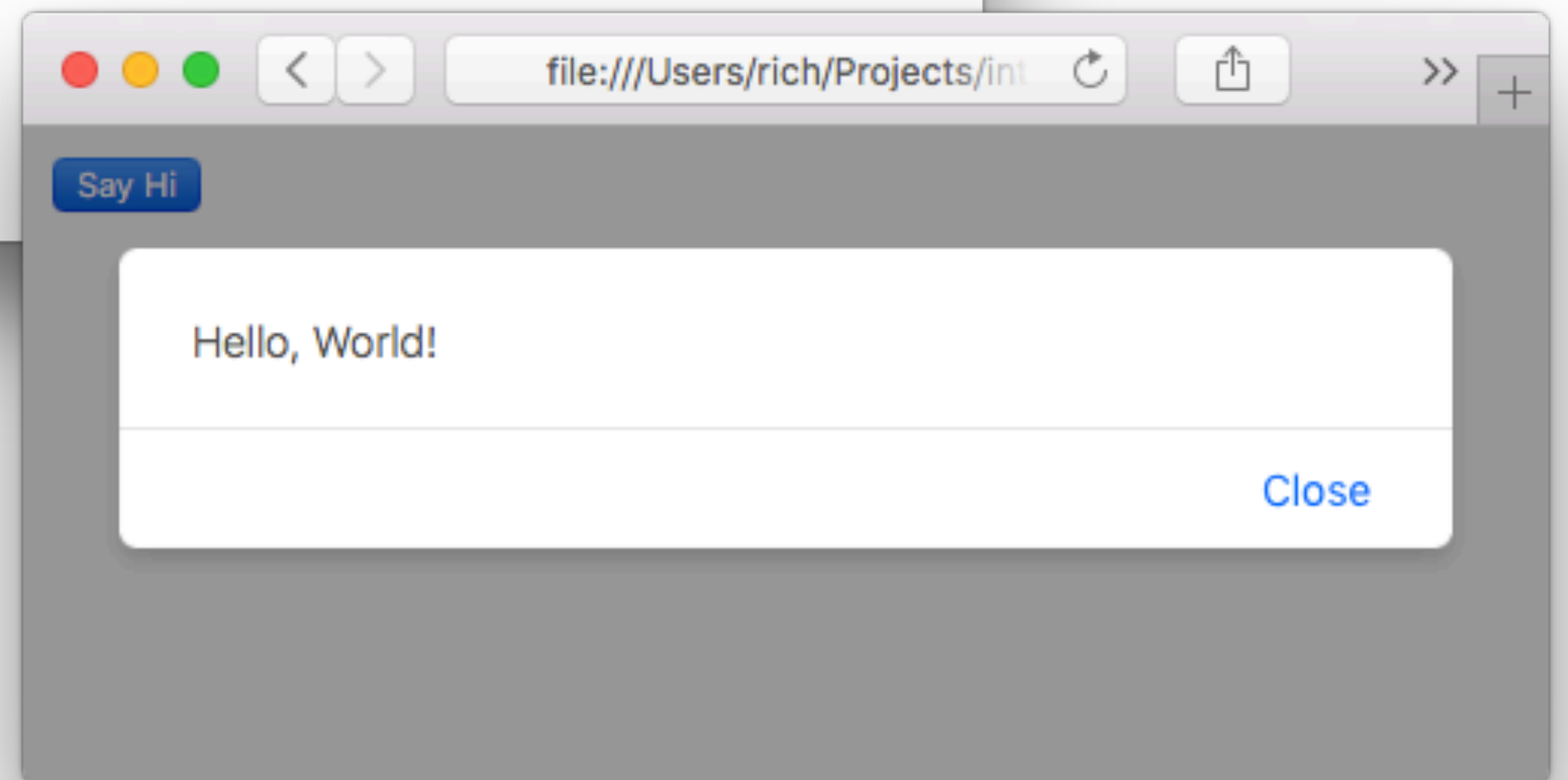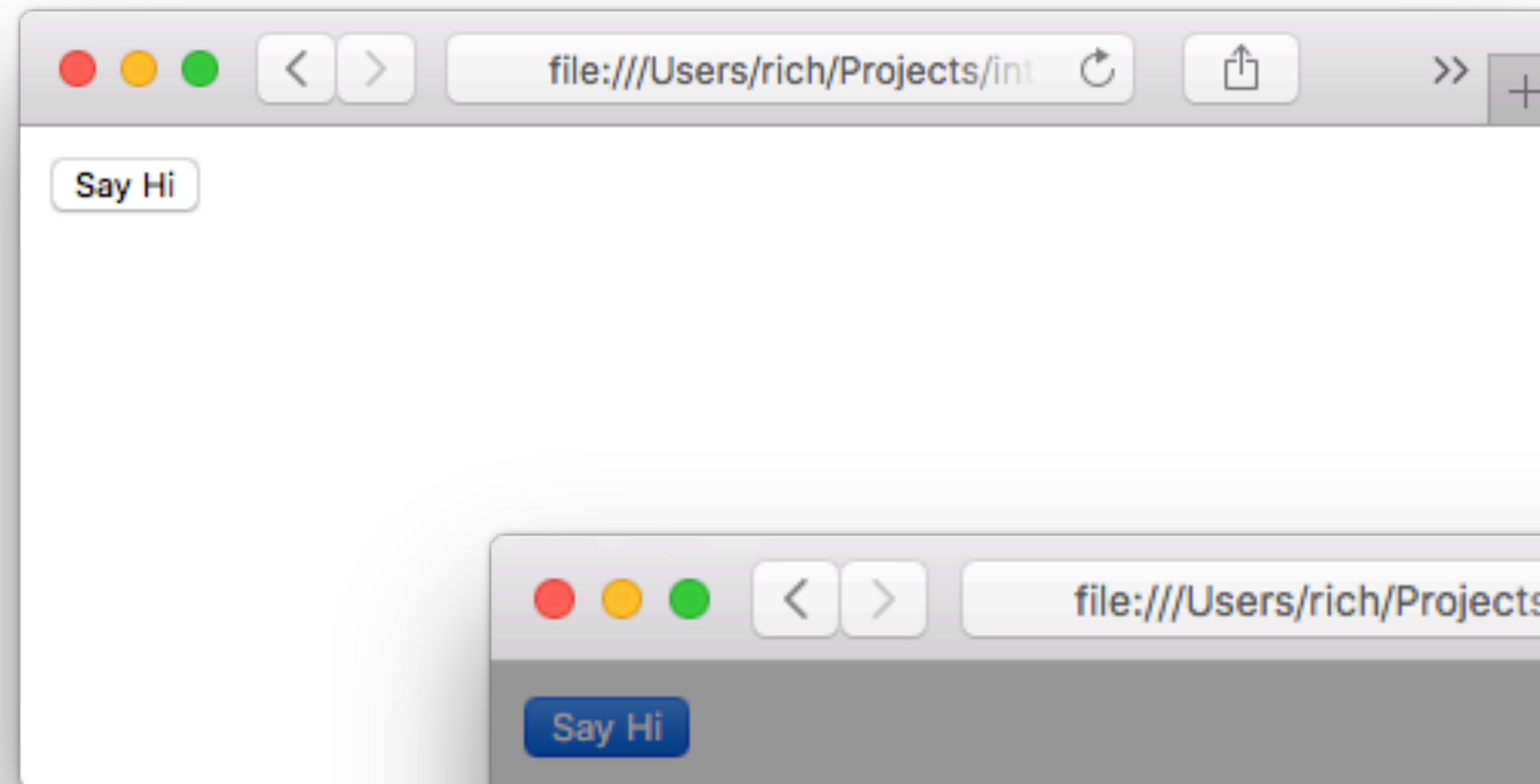
HTML + CSS + JS

```
<script>

function sayHello() {

    alert('Hello, World!')

}

</script>

<button onclick="sayHello()">Say
Hi</button>
```

Try-it-yourself Demo!

(if you have a laptop or phone).

richinfante.com/web

Click "Reset to Starter Template"

Templates & Libraries!

- If you want to build something quickly, there's plenty of templates and libraries to get you started.

- Google search for "Free HTML Templates" shows hundreds of results

- CSS Libraries: Bootstrap (http://getbootstrap.com), others.
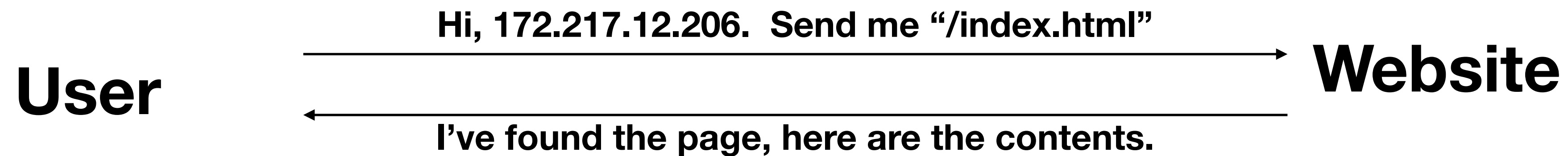
Domain Names

...because it's difficult to remember 172.217.12.206

What is a Domain Name?

- A human readable name for example google.com, that maps to an ip address, such as 172.217.12.206.

- This lets us visit websites much more easily.

- Register from a domain name provider such as Google Domains, Namecheap, or others.

- For a yearly fee, you can point your domain name to a website of your choosing.

- DNS is a core internet technology that is extremely complex.

Visiting a Webpage

User   User types "google.com" in the address bar.

Who is "google.com"?

User ──────────────────────────────────→ **DNS**
     ←──────────────────────────────────

The IP address for google.com is 172.217.12.206

Hi, 172.217.12.206. Send me "/index.html"

User ──────────────────────────────────→ **Website**
     ←──────────────────────────────────

I've found the page, here are the contents.

Time

User   The page can now be displayed.

Hosting Providers

..so you don't need a server rack in your basement.

Hosting Providers

Hosting Providers

- Sites Like squarespace.com, wix.com, weebly.com let you build from templates. Tumblr also offers a way to customize templates as well.

- Sites such as godaddy.com also provide templates, but have options for users to customize your website using technologies such as PHP.

- AWS (Amazon Web Services) and Microsoft's Azure are a commercial-grade web hosting solutions. You can build websites and services that can handle large amounts of traffic for cheap, but you'll need to build and set up everything yourself. My website costs <$0.05/month.

Q&A

questions, anyone?

Thanks!

- These slides will be available at richinfante.com/talks

- Thanks for listening!