

# The Anatomy of a Web Map App: Part 1

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pmacMaps

# Case Study: Esri Shortlist App

- Curated points of interest organized into tabs
- Requires an ArcGIS Online account
- Documentation:
  - [Esri Story Maps Page](#)
  - [GitHub Project Page](#)
- My [Fork](#) of Shortlist
- An example: Interactive Data Map
  - <https://map.cumberlandbusiness.com/>

# Shortlist Build Process

1. Set-up Shortlist layer [and publish as service]
2. Create Web Map in ArcGIS Online and add layers
3. Create Shortlist app from Web Map
4. Configure Shortlist app
5. Deploy on ArcGIS Online or other Web Server

# **Let's Review the Shortlist Project Files!**



# Deploying the App

- Need a web server and domain name
- Domain Name Servers (DNS) translate the website name ("awesome-maps.com") into the IP address (70.42.251.42) of the web server
- Web Server is a computer connected to the internet where you can store the files for your app

# Web Server Options

- Your organization has a server [?]
- Purchase a shared hosting plan
- GitHub Pages (free)
  - gh-pages branch > [username].github.io/[project]
- Apache (Linux) and Windows are common server platforms

# Local Development Options

- The app lives on your computer (not internet!)
- WAMP/MAMP – Apache, MySQL, PHP
- Node.js and http-server package
  - Node cli { **http-server** [path] [options] }

# Hyper Text Markup Language

- Describes & defines content of a webpage
- Markup languages are systems for tagging a document to indicate its logical structure
- **HTML** is like the skeleton for the page
- **CSS** provides rules for the styles and layout
- **JavaScript** provides logic for interactivity



# Bare Bones HTML

```
<!doctype html>
```

```
<html>
```

```
  <head>
```

```
    [...]
```

```
  </head>
```

```
  <body>
```

```
    [...]
```

```
  </body>
```

```
</html>
```

# It's In Your <Head>

- **<meta charset="utf-8">** - defines character encoding
- **<title>** - defines document's title
- **<meta name="[x]" content="[y]">** - provide info on page
- **<link>** - defines relationship between current document and external resource
- **<script>** - usually contains JavaScript code or link to a JavaScript file

# Your `<body>` Is A Wonderland

- `<header>` - groups introductory or navigational content
- `<nav>` - section for navigation links
- `<section>` - container for group of related content
- `<div>` - generic container for content
- `<footer>` - section for content at end of document

# Your `<body>` Is A Wonderland

- `<h1>-<h6>` - six levels of section headings
- `<p>` - paragraph of text
- `<a>` - anchor element; used for hyperlinks
- `<ul>/<ol>` - unordered/ordered list
- `<li>` - represents item in a list
- `<img>` - embeds an image into a document
- Too many tags, not enough time