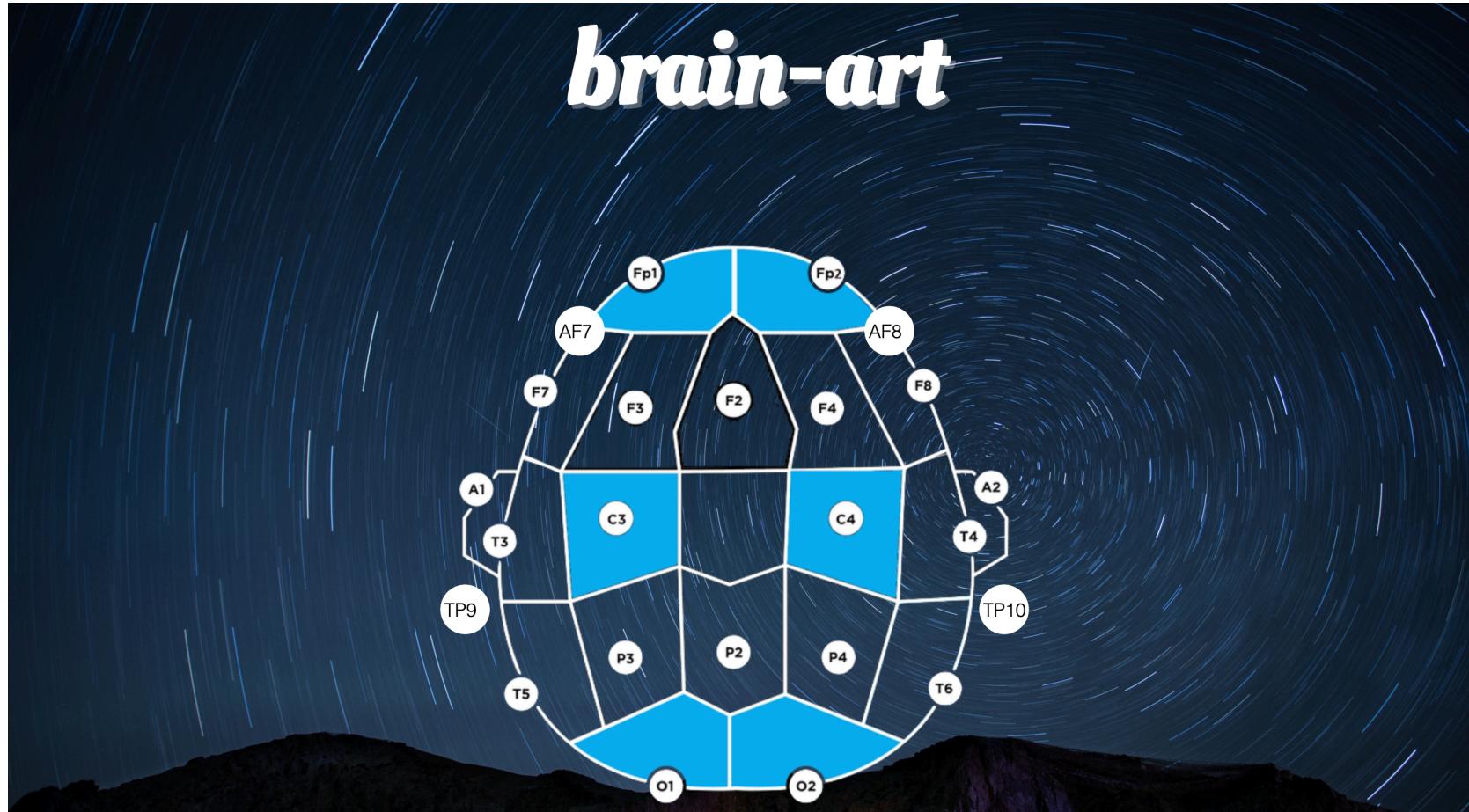


Web App Development with Angular

Recall the Angular application I demo'd...



What is Angular?

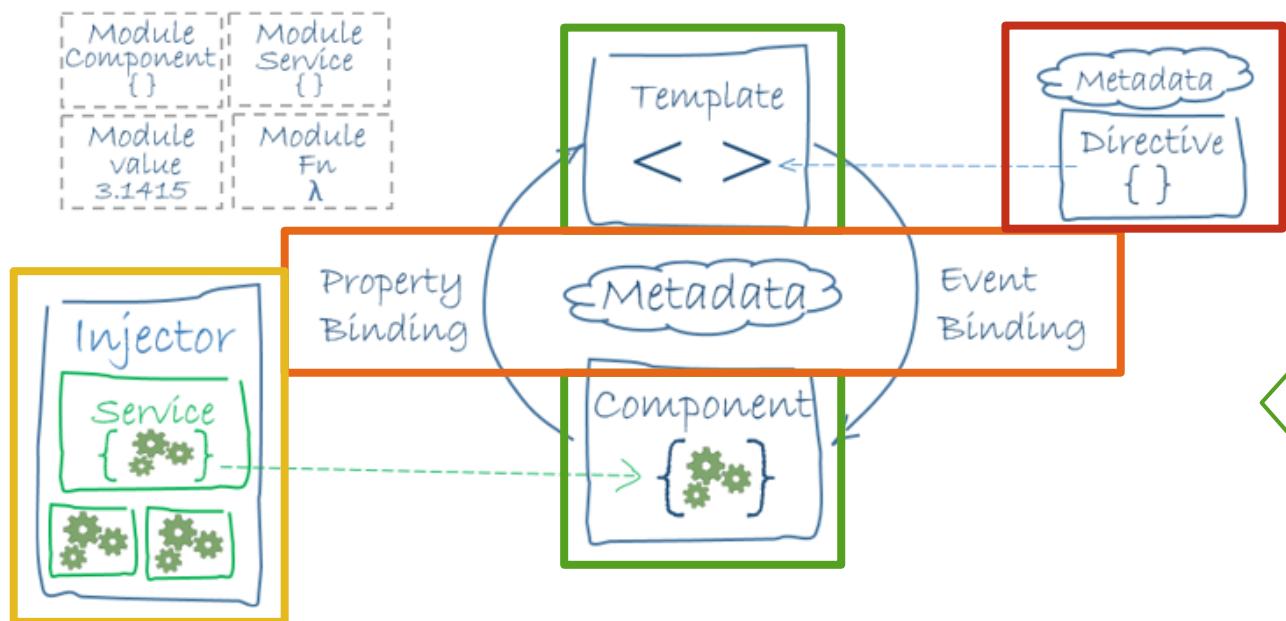
- ▶ A **web application framework** brought to us by Google
- ▶ Used to make single-page client applications with **HTML** and **TypeScript**
- ▶ Basic building blocks are “**components**”, which are organized into **NgModules**. These components...
 - ▶ **Define views**
 - ▶ Sets of screen elements that Angular can choose among and modify according to your program logic and data
 - ▶ **Use services**
 - ▶ Provide specific functionality not directly related to views
 - ▶ Service providers injected as **dependencies**, making your code more modular, reusable, and efficient

What is Angular?

- ▶ **Modules, services, and components** are classes that use **decorators**
 - ▶ **Decorators** mark their type and provide metadata that tells Angular how to use them
 - ▶ **For a component class:** associates with a **template** that defines a view
 - ▶ A template combines ordinary HTML with Angular directives and binding markup that allow Angular to modify the HTML before rendering it for display
 - ▶ **For a service class:** provides the information Angular needs to make it available to components through **dependency injection (DI)**

What is Angular?

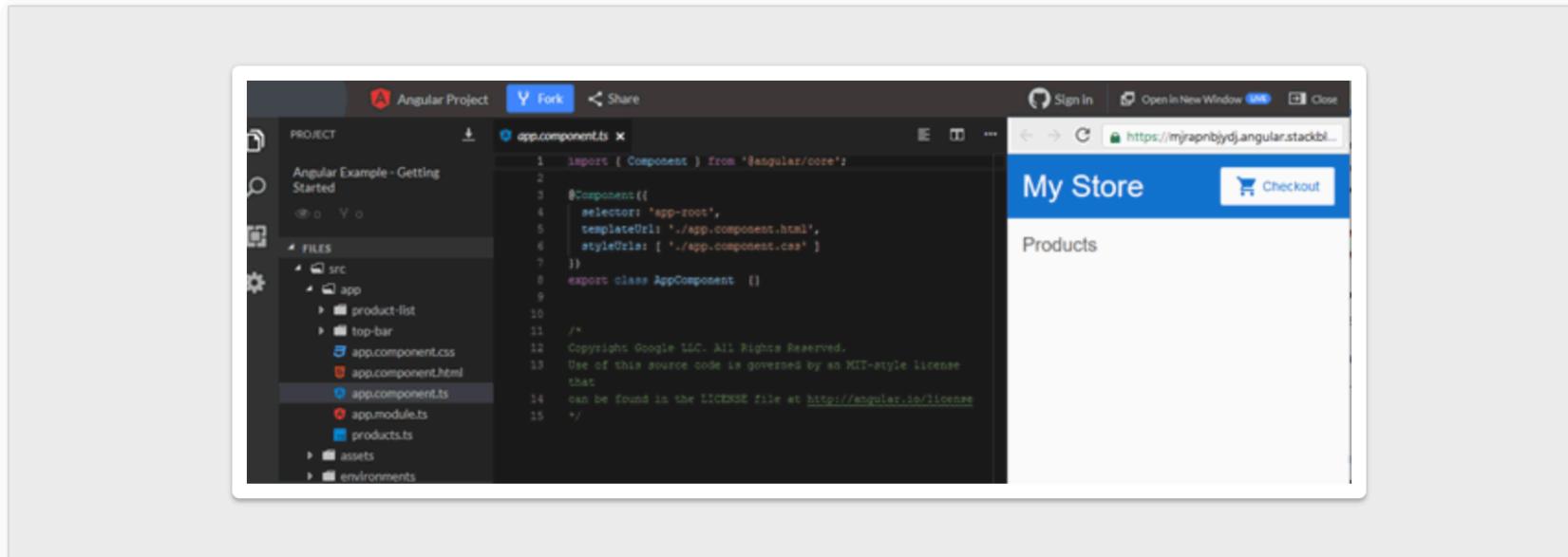
- ▶ An app's **components** typically define many **views**, which are arranged hierarchically
- ▶ Angular provides the **Router** service to help you define navigation paths among **views**
 - ▶ **Router** provides sophisticated in-browser navigational capabilities



- Together, a component and template define an **Angular view**
 - A **decorator** on a component class adds the metadata, including a pointer to the associated template
 - **Directives and binding markup** in a component's template modify views based on program data and logic
- The **dependency injector** provides services to a component, such as the router service that lets you define navigation among views

Create the sample project

[Click here to create the ready-made sample project in StackBlitz.](#)



- The preview pane on the right shows the starting state of the sample Angular app. It defines a frame with a top bar (containing the store name and checkout icon) and the title for a product list (which will be populated and dynamically updated with data from the application).
- The project pane on the left shows the source files that make up the application, including all of the infrastructure and configuration files. The currently selected file shows up in the editor pane in the middle.

While you're working through this exercise...

- ▶ Think about what kind of single-page web applications you could make that incorporate data from a Muse headband
- ▶ In what ways can EEG be...
 - ▶ **visualized?**
 - ▶ **interpreted?**
 - ▶ **applied?**