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| Angular  JavaScript vs TypeScript | -Expressive HTML. Powerful data binding, modular by design, built in back end integration  TS  -open source language and Superset of JS  -Transpiles (convert newer code to older) to plain JS  -sub! :Subscription (telling Ang we will define it later) |
| npm  npm install //install other packages  -generates node\_modules (where node installs all of our packages)  npm install -g @angular/cli | -free, open source registry of JS packages (pre-written code modules)  -CLI for interacting with repository/registry  -can also do scripts  -install node to use npm  -uses package.json file to install all of the packages and dependencies |
| Decorator @( )  Directive (custom HTML tag)  Angular compiler will find the directives if its declared in Angular module  Bootstrap | -function that adds metadata to class  Structural Directives (\*ngIf, \*ngFor (for..of vs for…in))  -import BrowserModule to use  -self starting process that loads and goes  -defines the starting component of app |
| Angular Module  -helps us organize our apps into blocks of functionality  -Components must be declared to only one Angular module | style.css  -global style sheet  -make the style sheet available to all templates    A close-up of a computer code  Description automatically generated |
| Interpolation  Property Binding    Event  Two Way [()]  import Forms module | -only string  -can do back ticks for expressions  -allows other types other than string  -allows us to connect an |
| Pipes  A screen shot of a computer code  Description automatically generated | -Directives, components, pipes are declared in declarations array  -Angular stuff are defined in the imports array  ­­­­­­­­­ |
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| A screenshot of a computer code  Description automatically generatedUnique Component Styles  -Inline the style directly into HTML but makes it harder to see  Private variable: prefix with \_ | Lifecycle Hooks  -interface  A close-up of a white background  Description automatically generated |
| Nested Components  -still needs to be declared in module  Parent HTML    Nested Child class      Use backticks for evaluating expression | @Output event is the only way to pass eventA screenshot of a computer code  Description automatically generated |
| Service  -a class with focused purpose  -independent from components  -Components can create an instance of a service but local and can’t share data and difficult  Instead, register the service with Angular, then it creates a Singleton (single instance) | Injector  -maintains a container of created service instances  -Define the service as a dependency  Dependency Injection  -Coding pattern in which a class receives the instances of objects it needs (dependency) from an external source than creating itself |
| A screenshot of a computer  Description automatically generated  A black text on a white background  Description automatically generated  -Then can access the service from any component, no need for modules | A screenshot of a computer program  Description automatically generated  providers: [] in component to make it for that component and its children  providers: is an old but valid way. Use @Injectable instead |
| Injecting a service    -Remember that constructor is always executed when an instance of class is created  A screenshot of a computer program  Description automatically generated  -TS shorthands it for us because its so common | A close-up of a keyword  Description automatically generated |
| RxJS  -library for composing data using observable sequences  Observable  -Nothing until we subscribe (think of a streaming service)  -Once subscribed, Observable emits 3 type of notifications next, error and complete | A screenshot of a computer  Description automatically generated    -Need to define the location of JSON file so the Angular CLI can find it when it serves up the app  -In angular.json add this  A close-up of a computer code  Description automatically generated |
| A close-up of a computer screen  Description automatically generated  -To generate using cli  Angular Router  -must import like http module  A close-up of a white background  Description automatically generated-Define a base element in index.html | A screenshot of a computer screen  Description automatically generated  -:id is a route parameter  -\* denotes a wildcard path  -no leading slashes  -first match strategy so order matters |
| A close up of a sign  Description automatically generated  -Can’t use shortcuts when passing parameter |  |
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