Lendex powered by NIBC

Angular Advanced
Using multiple Modules

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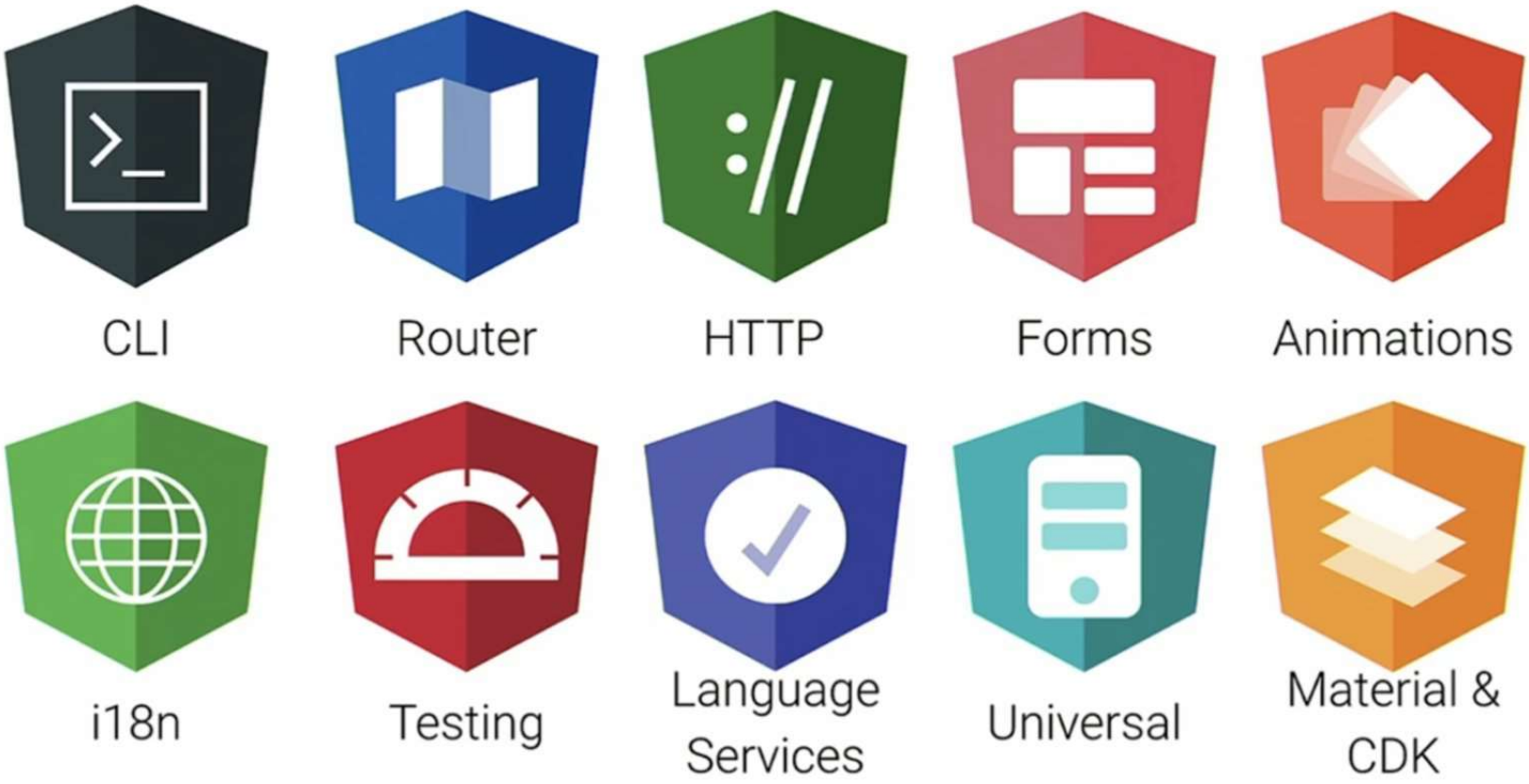
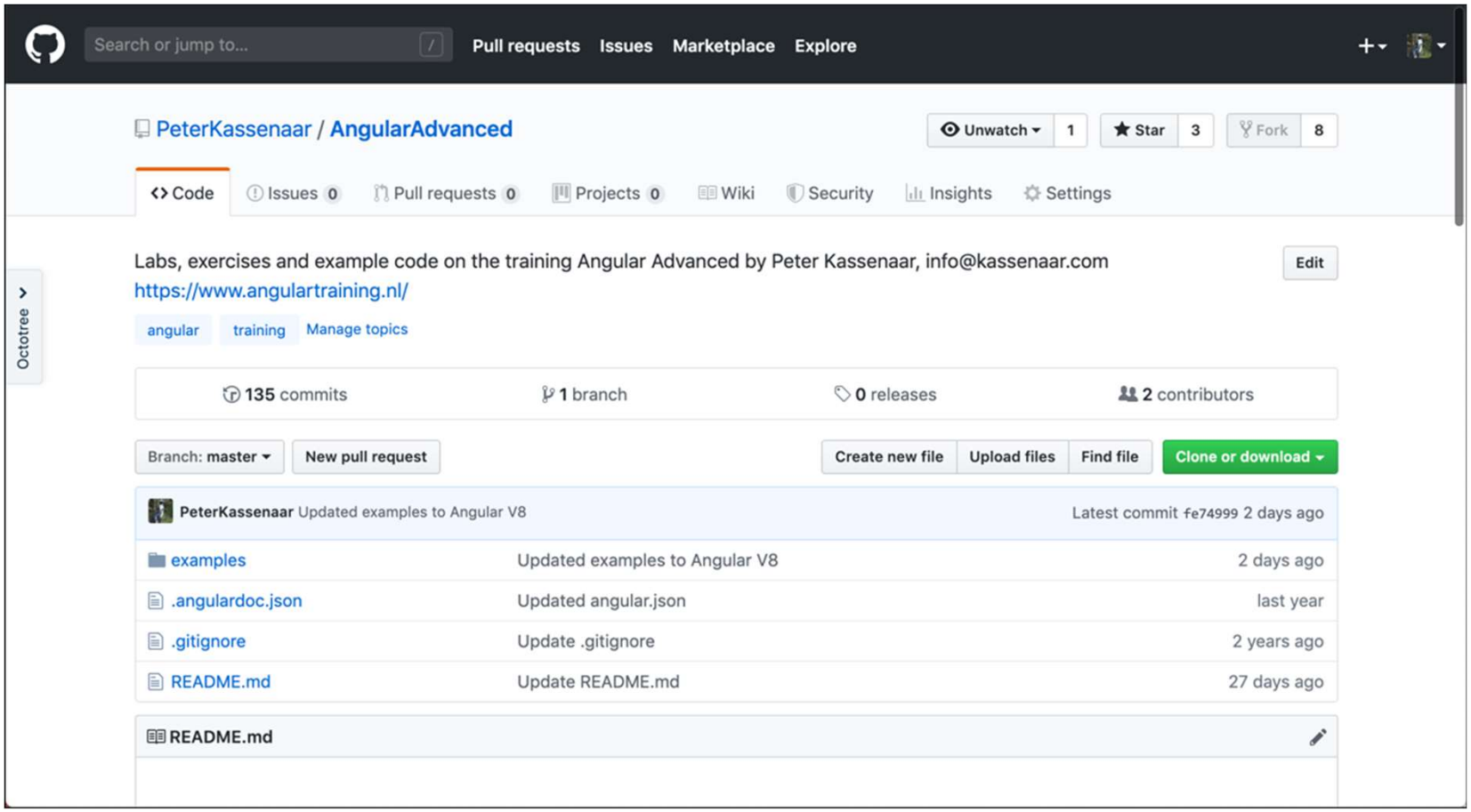
Why devs and enterprises like Angular...



Generic ‘Advanced’ Github repo

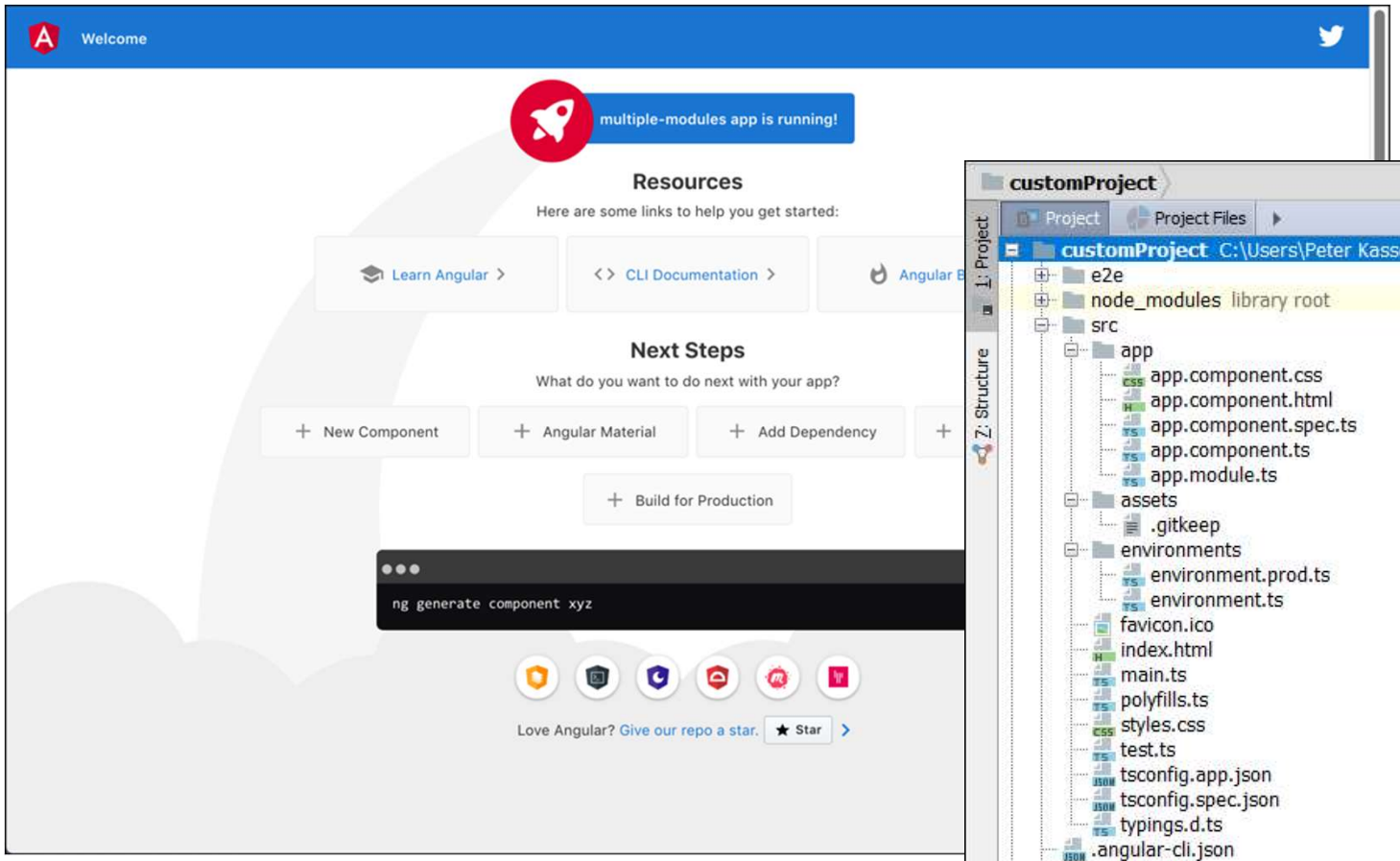


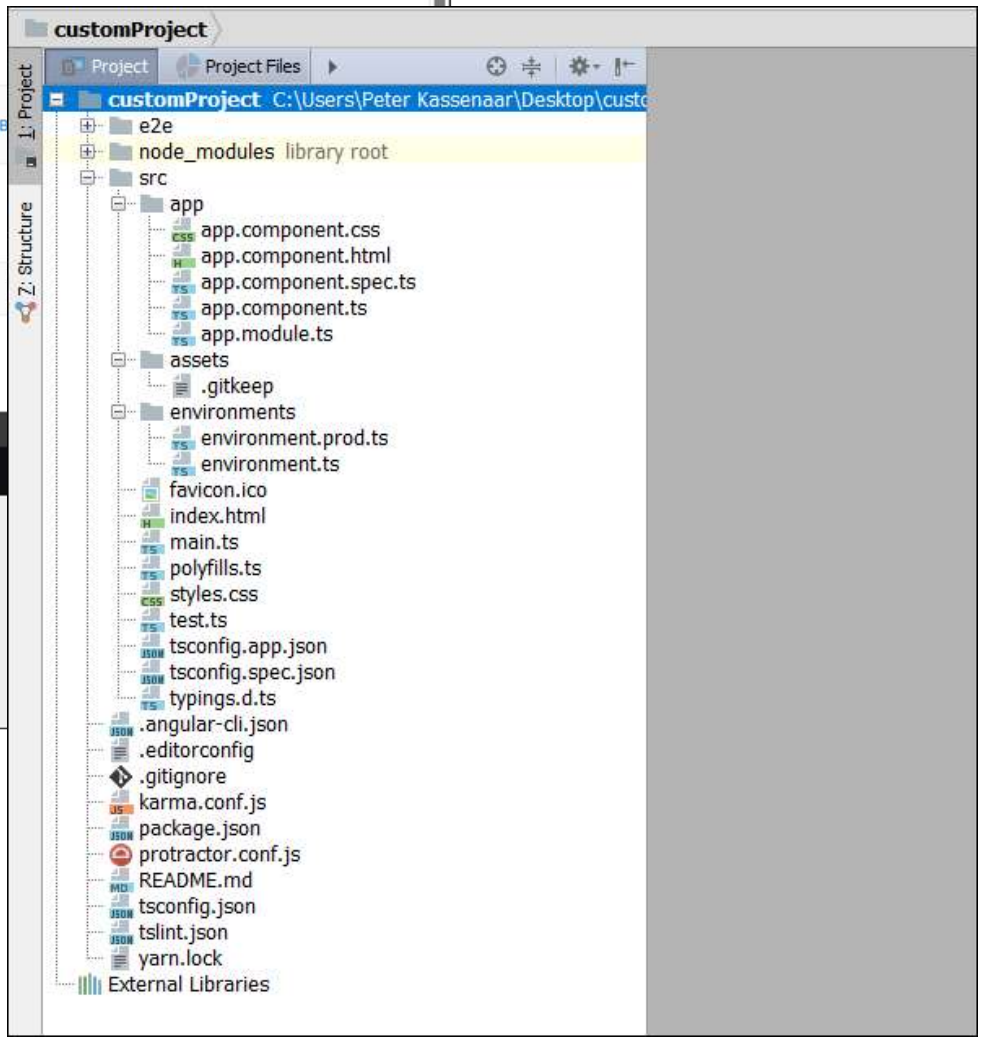
https://github.com/PeterKassenaar/AngularAdvanced

Multiple modules

Splitting your application into separate, reusable modules

Default application – 1 module





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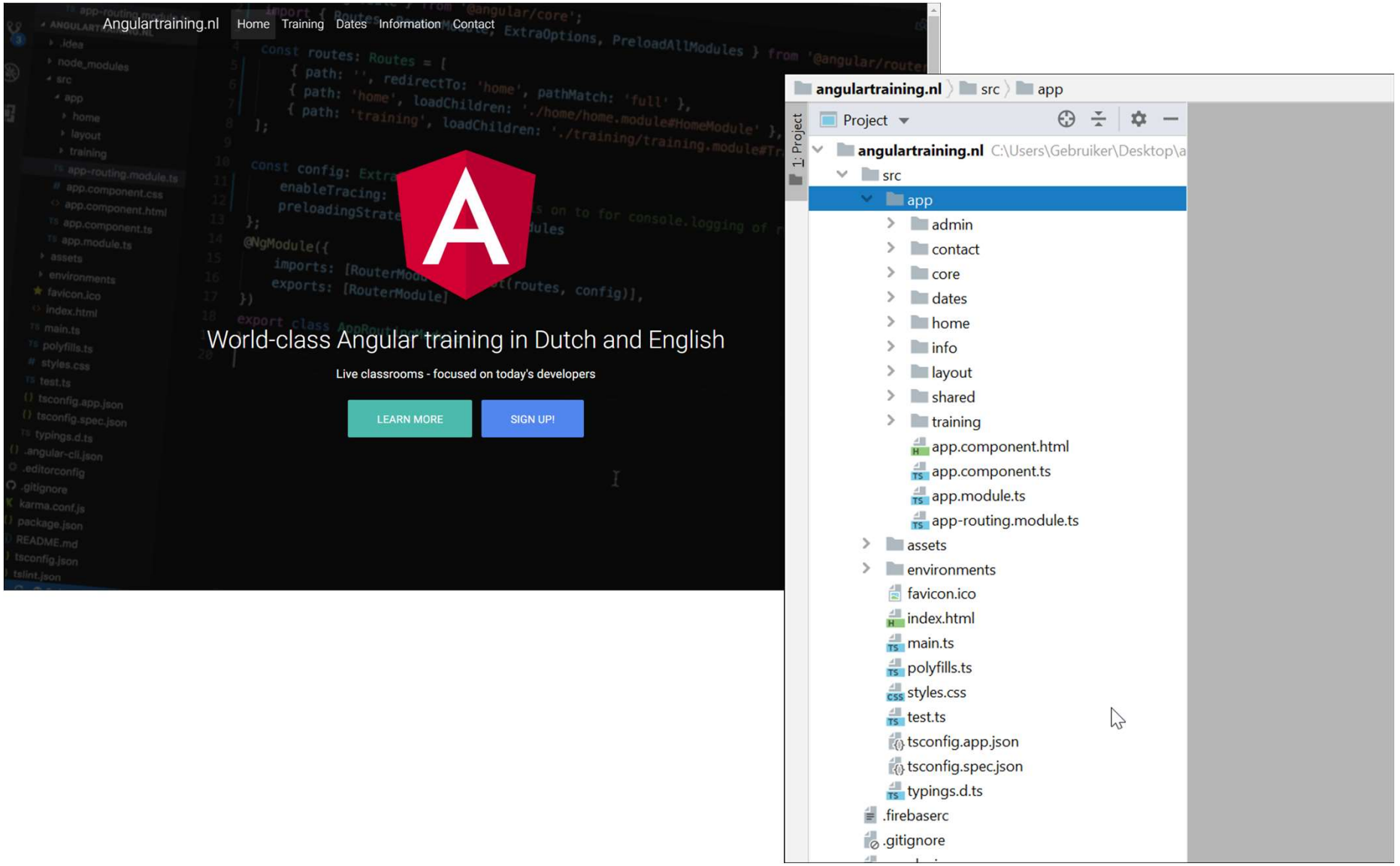
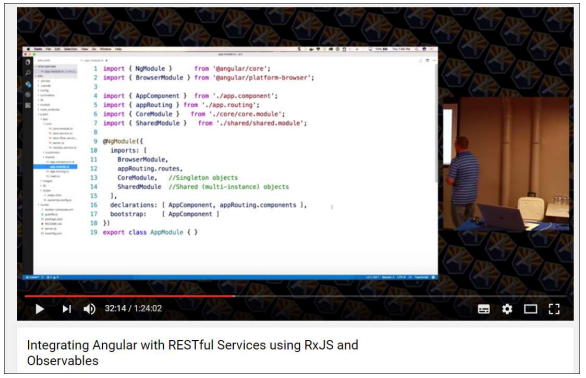
Bigger applications – multiple modules



Angular Modules

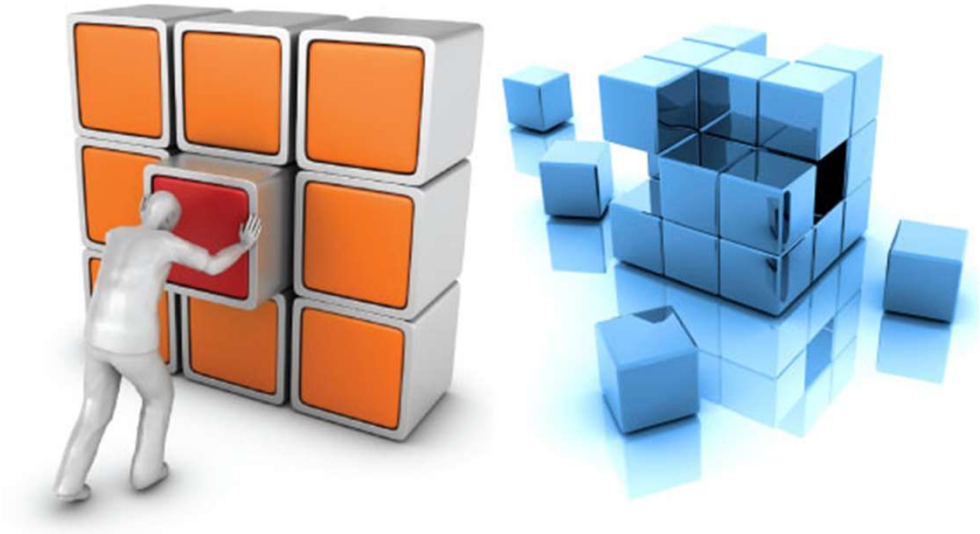
- Divide your app into *logical* and often *reusable* pieces of code
- Keyword : code organization

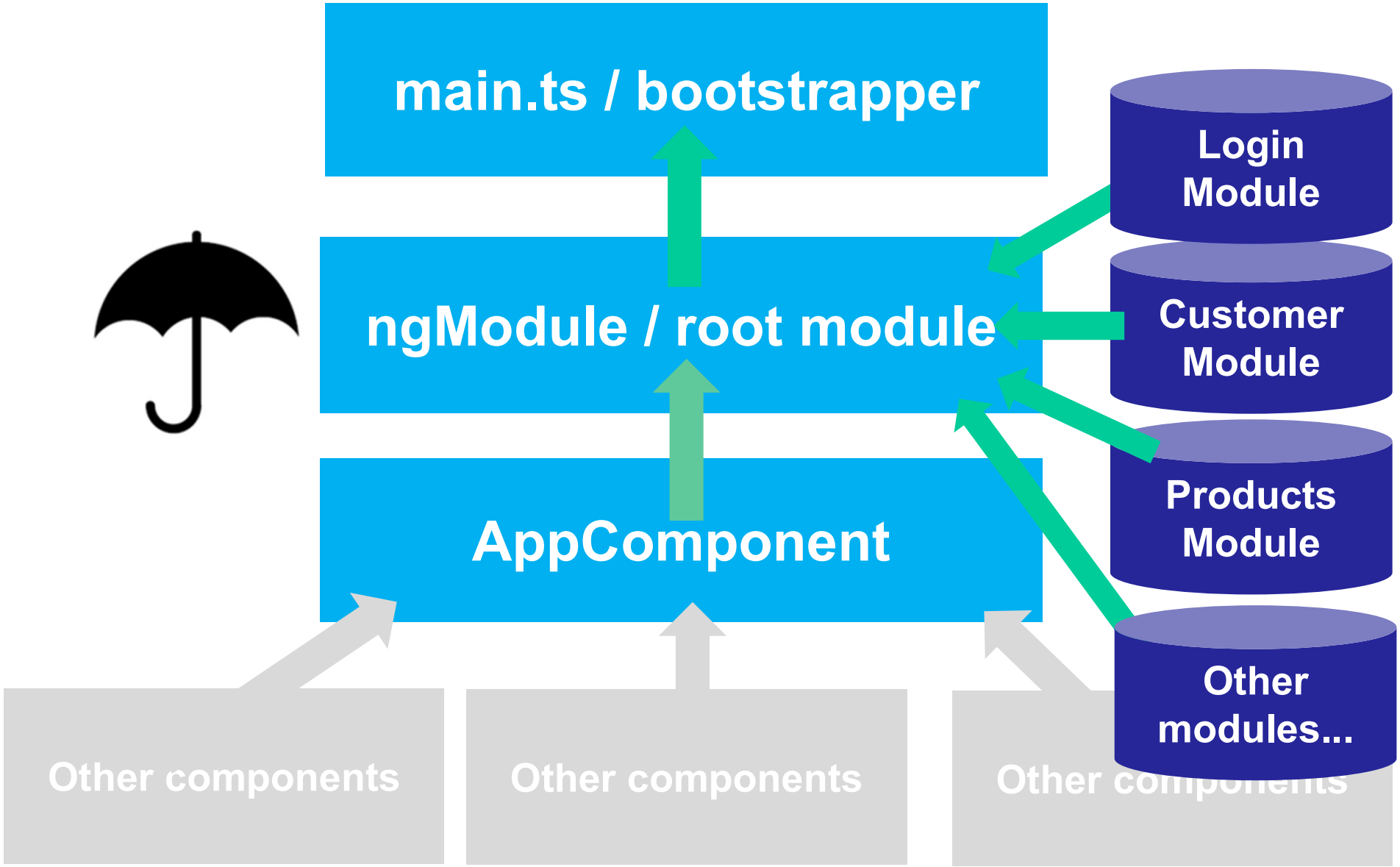
- Use one `AppModule` - the root of your app
- Use one `CoreModule` - containing all *singletons* in your app
- Use one `SharedModule` - containing all shared resources, possible multiple instances
- Use additional modules *per feature*
- https://www.youtube.com/watch?v=YxK4UW4UfCk



Application – multiple Modules – why?

- *Reuse* of Components, Pipes, Routes and Services etc. over different apps
- *Wrap* each set of logical related components, services, etc. in its own module.




main.ts / bootstrapper
ngModule / root module
AppComponent
Login Module
Customer Module
Products Module
Other modules...
Other components
Other components
Other components

Steps

1. Create a new module
   - Optional: test first with `--dry-run`
   - `ng generate module customers --dry-run`
2. Create component(s) inside that module
   - Again: test first with `--dry-run`
   - `ng generate component customers --module customers --dry-run`
3. Apply UI, logic, etc. to your component
4. Export your component inside `customers.module.ts`
   - `exports : [CustomersComponent],`
   - Otherwise it can't be used in other components!
5. Provide new module to `app.module.ts`
   - `imports: [CustomersModule]`

Optional : SharedModule

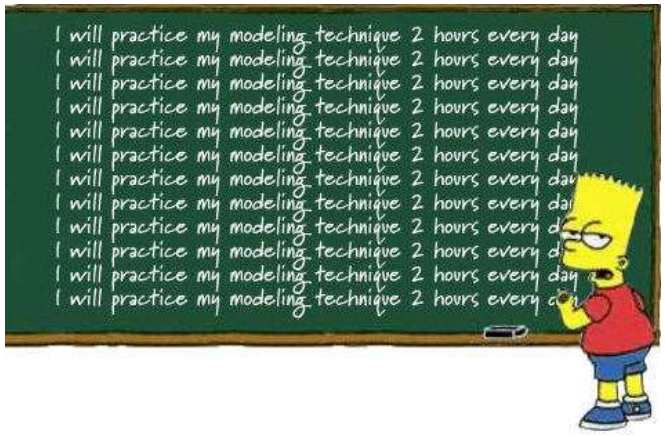
- Reuse components in multiple modules? Use a SharedModule
  - `ng g m shared` – shorthand notation
- Create components inside SharedModule
- Import SharedModule in other modules
- It doesn’t have to be in AppModule if you don’t use it directly!
- It *does* not add size to module bundles


Demo

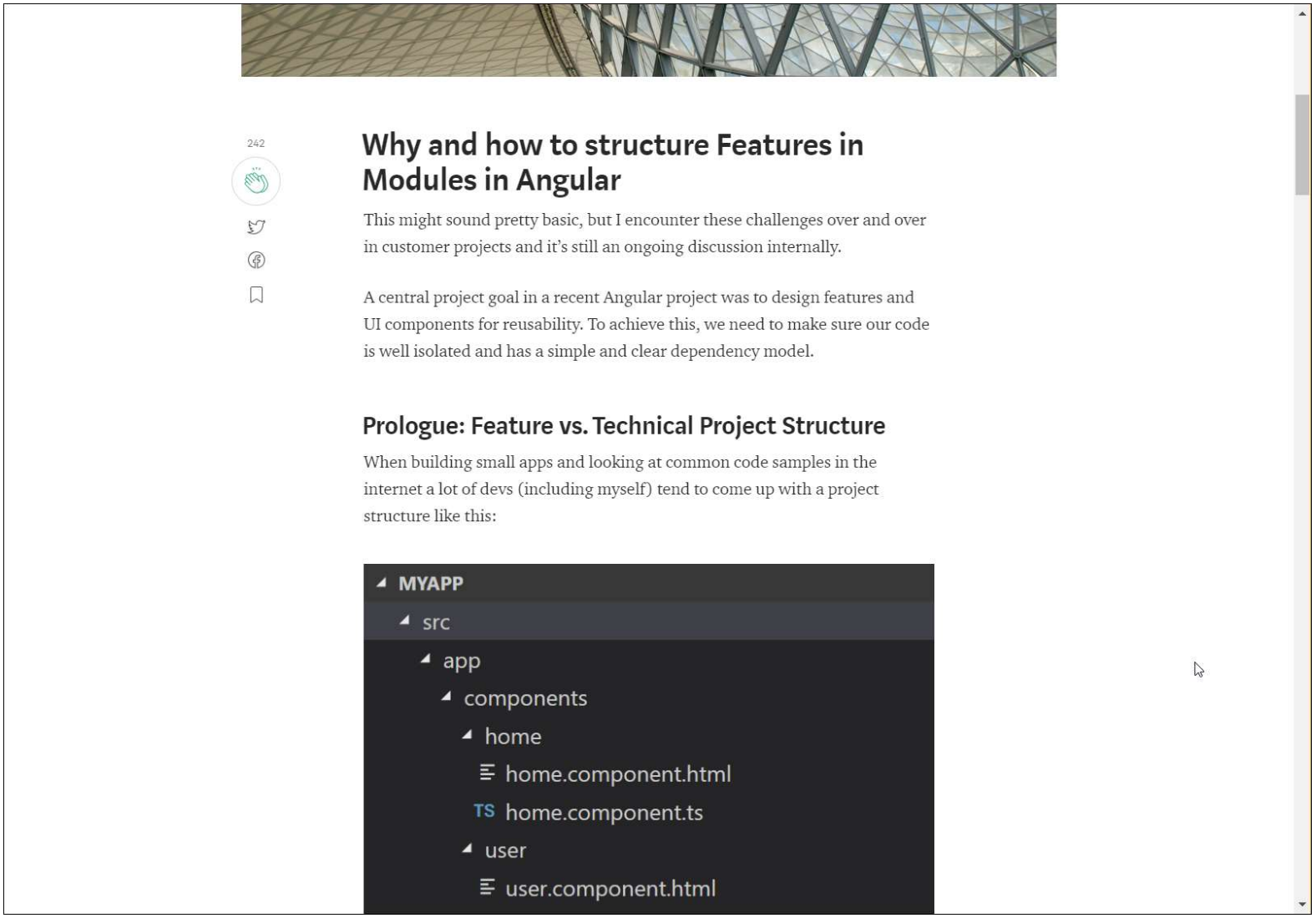
Workshop

- Open `../100-multiple modules`.
- Create a new module
- Create a new component inside this new module and give it some UI.
- Include the module in the Main Module and show it besides other modules
- Include the Search Component in your own module

- *OR:*
- Add Multiple Modules from scratch to your own application, using the steps described in this module.



How to structure feature modules



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Why and how to structure Features in Modules in Angular

This might sound pretty basic, but I encounter these challenges over and over in customer projects and it's still an ongoing discussion internally.

A central project goal in a recent Angular project was to design features and UI components for reusability. To achieve this, we need to make sure our code is well isolated and has a simple and clear dependency model.

Prologue: Feature vs. Technical Project Structure

When building small apps and looking at common code samples in the internet a lot of devs (including myself) tend to come up with a project structure like this:

https://medium.com/@philippbauknecht/why-and-how-to-structure-features-in-modules-in-angular-d5602c6436be