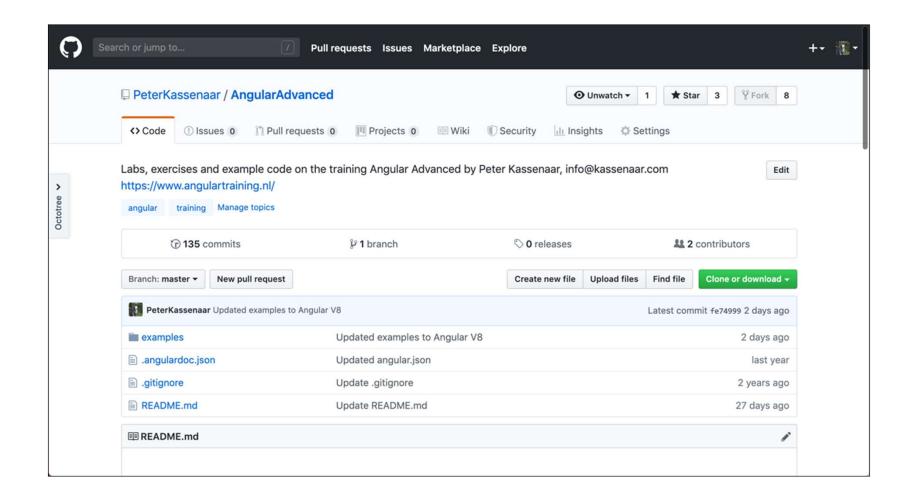


Angular Advanced Introduction, Architecture



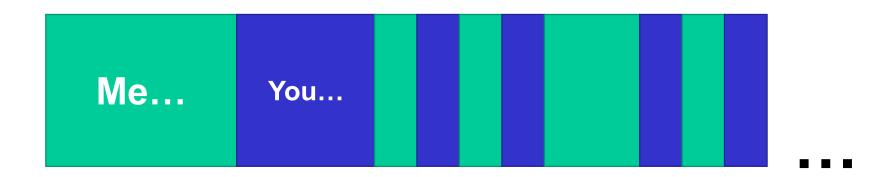
Peter Kassenaar info@kassenaar.com

Generic 'Advanced' Github repo

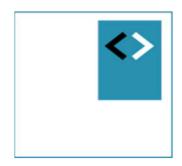


https://github.com/PeterKassenaar/AngularAdvanced

Overall process



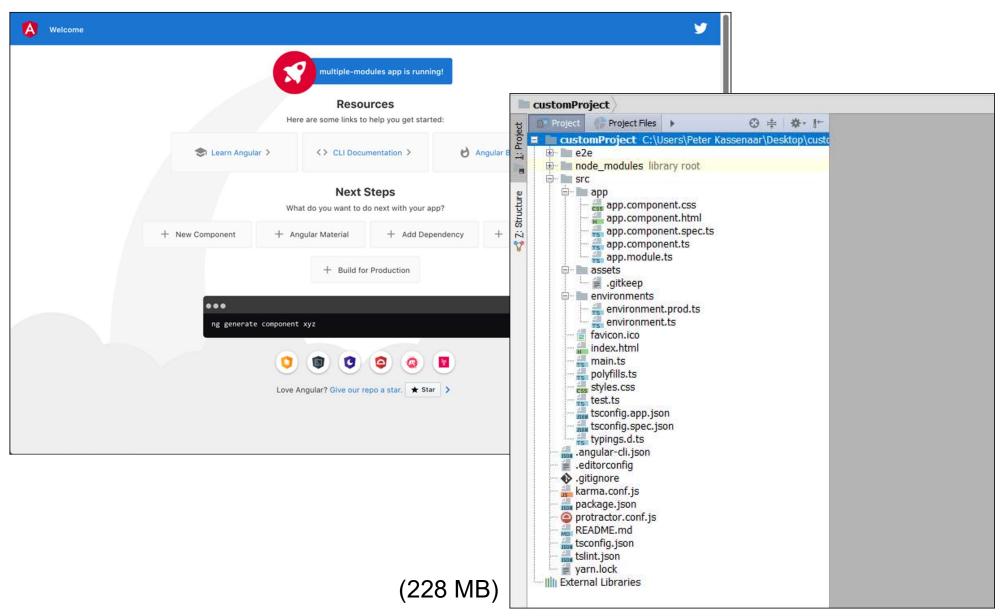
Questions?



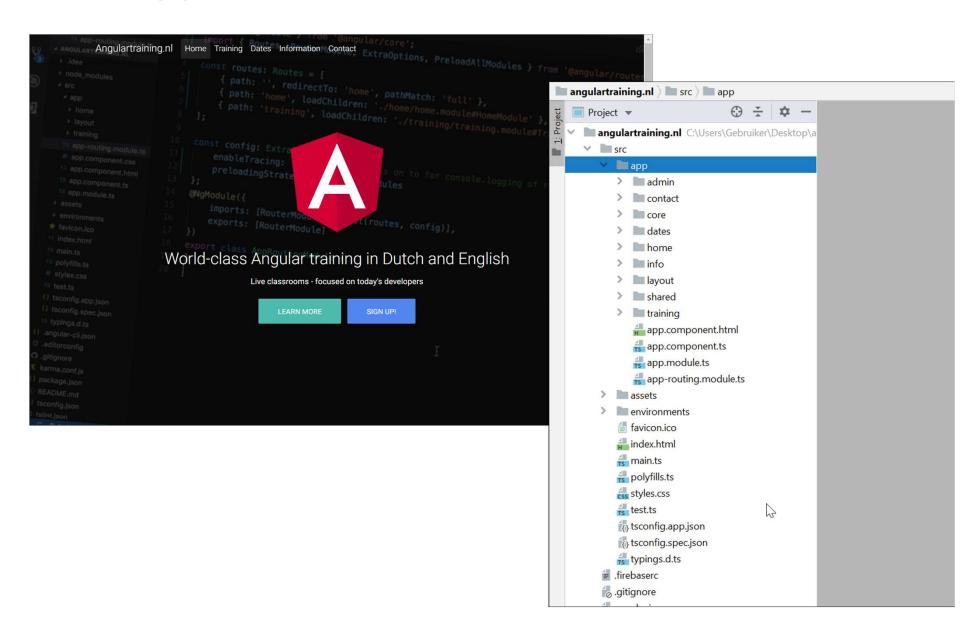
Multiple modules

Splitting your application into separate, reusable modules

Default application – 1 module



Bigger applications – multiple modules



Angular Modules - naming

- 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.

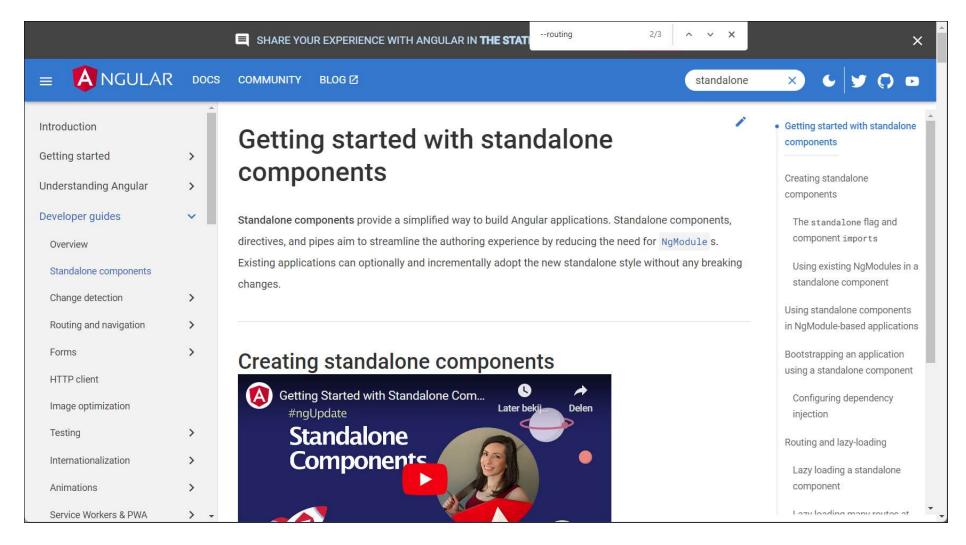


Since Angular 15 – Standalone Components

• Applications and components without an ngModule

"Standalone components provide a simplified way to build Angular applications. Standalone components, directives, and pipes aim to streamline the authoring experience by reducing the need for NgModules. Existing applications can optionally and incrementally adopt the new standalone style without any breaking changes."

More info on standalone components



https://angular.io/guide/standalone-components

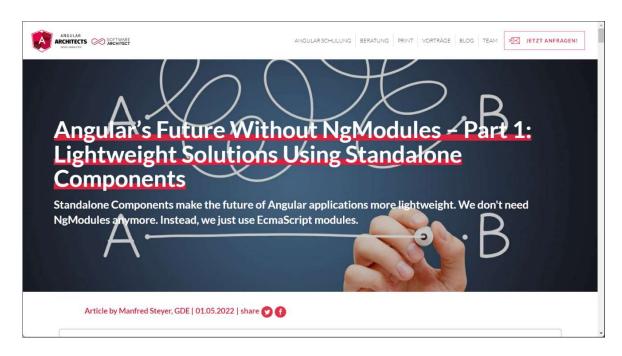
Verdict (personal, opinion!)

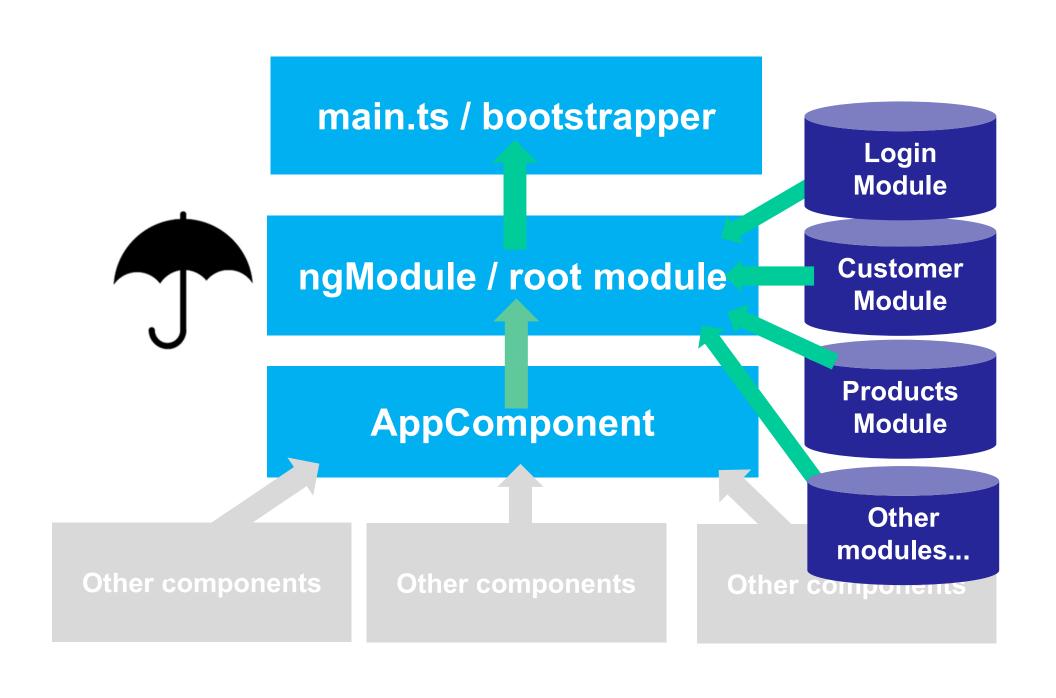
We're NOT using standalone components in this course

- Standalone components might come in handy, in new applications from scratch
- Due to confusion, personally I don't see it implemented 'optionally and incrementally' in existing apps
- It is mostly done (IMO) to mimic Vue, React et all.
- otherwise little advantages, IMO if you already know Angular

But, if you want more information...

- https://blog.angular.io/angular-v15-is-now-available-df7be7f2f4c8
- https://www.angulararchitects.io/aktuelles/angulars-future-without-ngmodules-lightweight-solutions-on-top-of-standalone-components/
- https://netbasal.com/angular-standalone-components-welcome-to-aworld-without-ngmodule-abd3963e89c5





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]

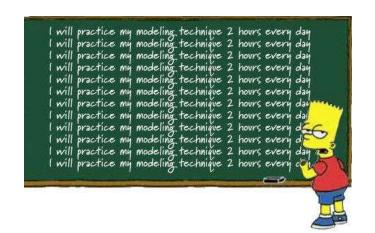
Optional: SharedModule

- 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

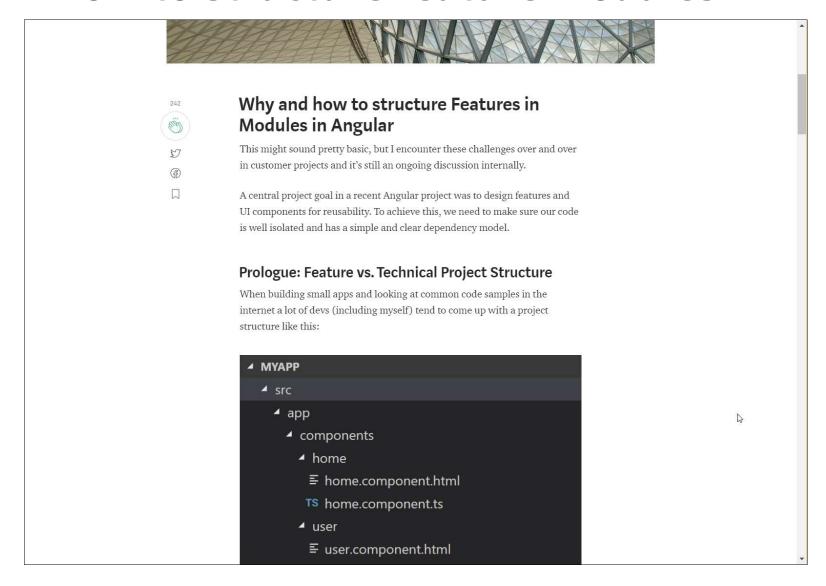


Workshop

- Open ../100-multiple modules. (npm install, npm start)
- 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



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