



Angular Module – Advanced Introduction

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WORLDWIDE LOCATIONS

Peter Kassenaar

- Trainer, author, developer sinds 1996
- Specialty: "Everything JavaScript"
- JavaScript, ES6, Angular, NodeJS, TypeScript, jQuery, PhoneGap, Ionic

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www.angulartraining.nl

About you...



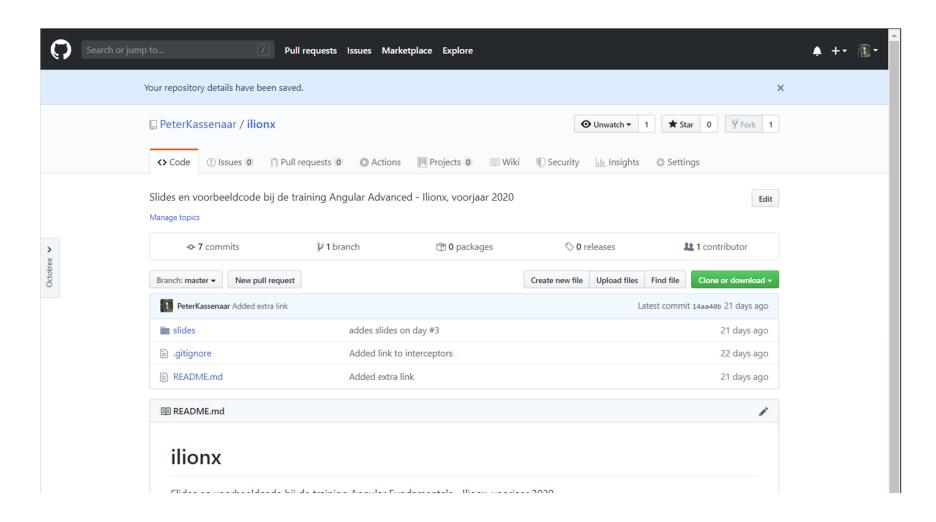
Knowledge of Angular, (mobile/web-) apps?

How long have you worked with Angular yet?

Tell us a little bit about your projects.

What are your expectations of this course?

github.com/PeterKassenaar/ilionx



Agenda

1-2 April 2020 - wo + do

20-21 April 2020 – ma + di – *voorlopig*

~18:00 start

~ 19:30 Break

~21:00 einde

Agenda - 4 nights - Thematic

- Day 1: Architectuur
 - Composing Applications with multiple modules
 - Routing and lazy loading modules
 - Loading Strategies
 - Advanced components
- Day 2: Observables
 - Observables from scratch, more operators
 - Examples (typeahead, fetching data from multiple sources)

Agenda - 4 nights - Thematic

- Day 3: State Management
 - State management with @ngrx/store
 - Concepts actions, dispatchers, reducers, store
 - Payload, complex types
- Day 4: Enterprise applications
 - Working with monorepo's, Angular CLI
 - More on Angular Schematics

Labs and example code

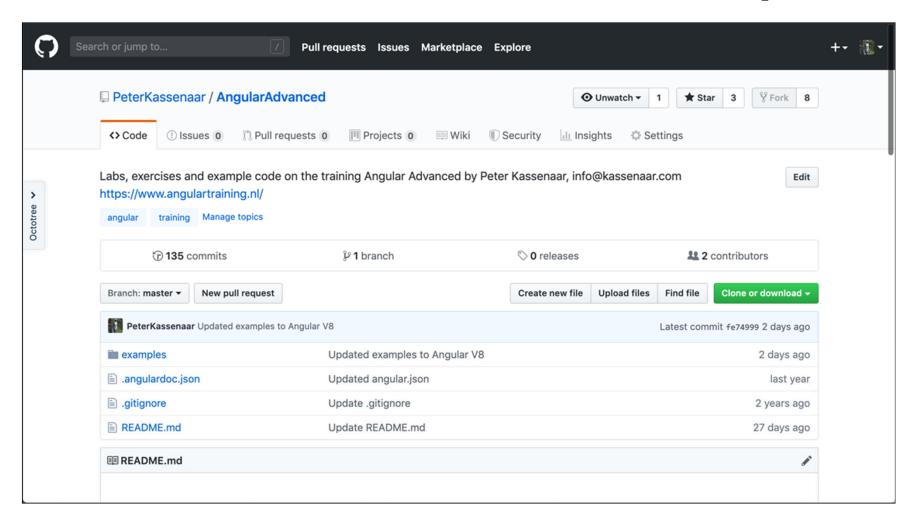
1. Labs/Exercises

 In the PDF's in the Github-repo. But: feel free to deviate. Adapt to suit your own needs! (hobby, work, current projects)

2. Example code

- Executions of the exercises, small projects (npm install, npm start)
- Work in progress let me know of additions/errors!
- github.com/PeterKassenaar/AngularAdvanced

Generic 'Advanced' Github repo



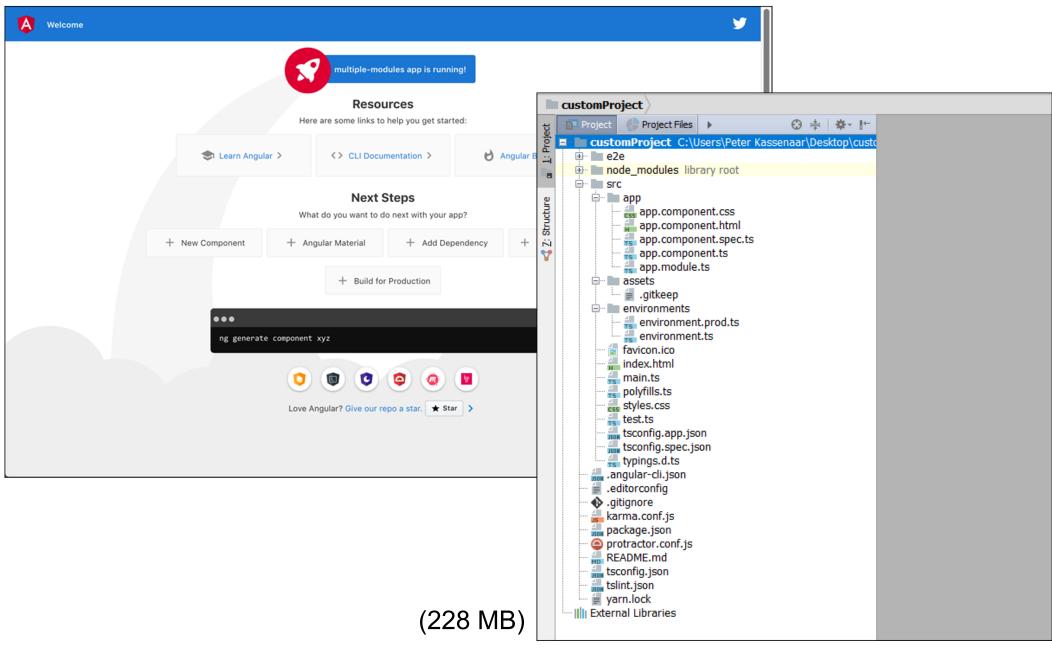
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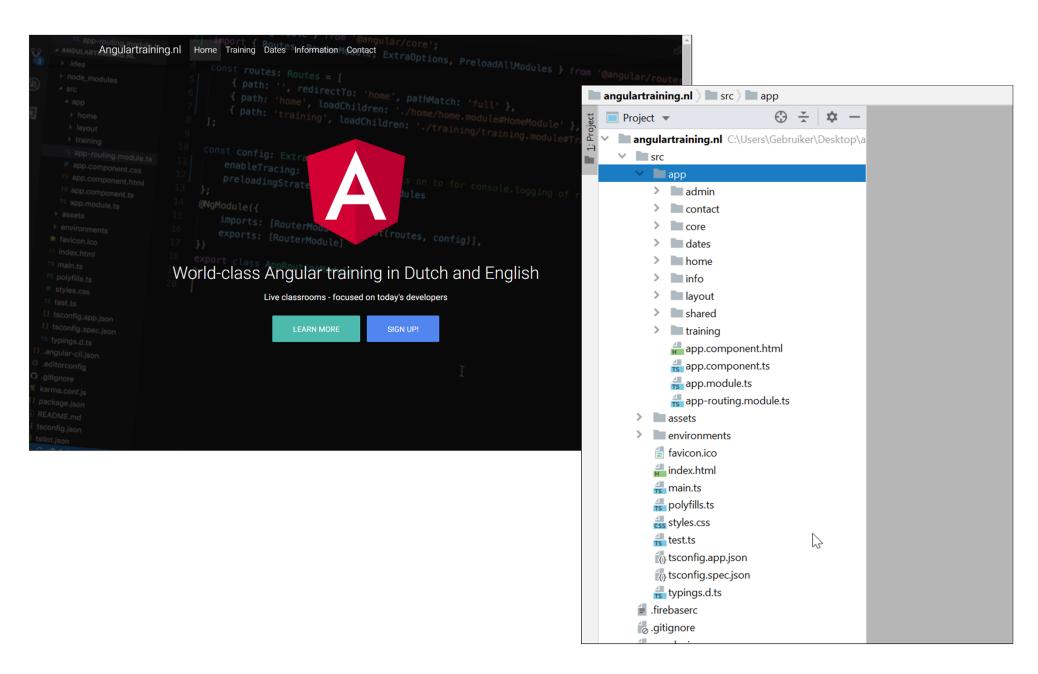
Multiple modules

Splitting your application into separate, reusable modules

Default application – 1 module



Bigger applications – multiple modules



Angular Modules

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

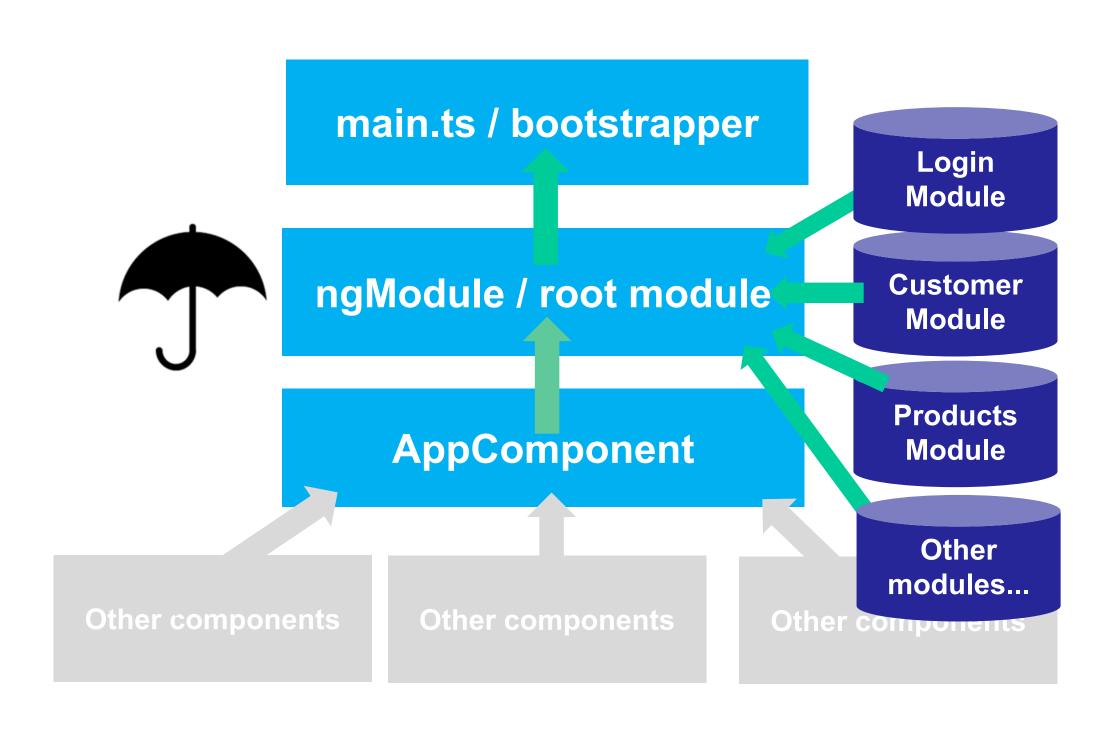
- Use one AppModule the root of your app
- Use one CoreModule containing all singletons in your app
- Use one SharedModule containing all shared resources,
 - possible multiple instances
- Use additional modules per feature
- https://www.youtube.com/watch?v=YxK4UW4UfCk



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.





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 customer.module.ts
 - exports : [CustomerComponent],
 - Otherwise it can't be used in other components!
- 5. Provide new module to app.module.ts
 - imports: [CustomerModule]

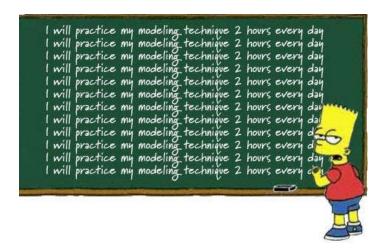
Optional: SharedModule

- 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

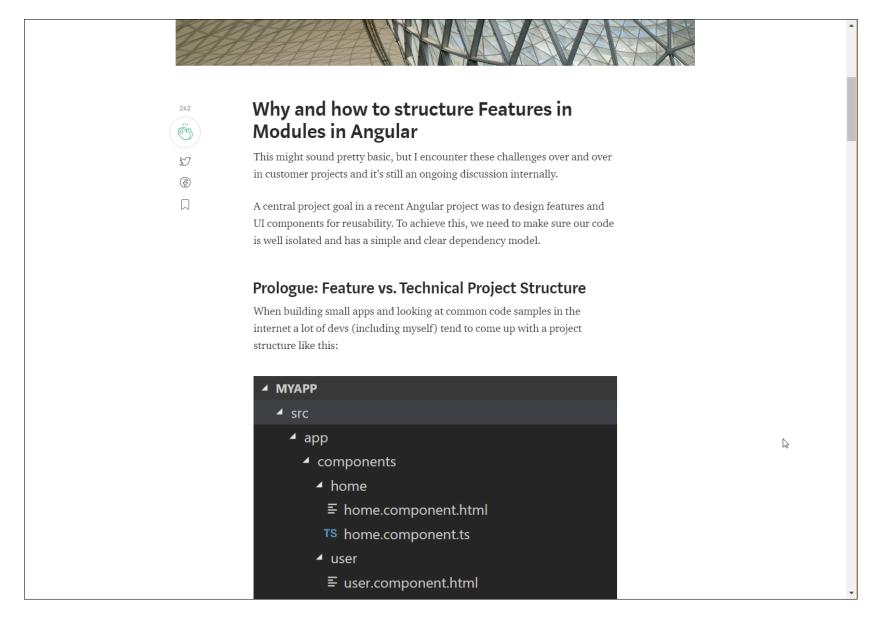


Workshop

- Open .../100-multiple modules.
- 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