



Global Knowledge®



Angular Extended Module - Inleiding

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WORLDWIDE LOCATIONS

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SAUDI ARABIA SINGAPORE SPAIN SWEDEN UNITED ARAB EMIRATES UNITED KINGDOM UNITED STATES OF AMERICA

Peter Kassenaar

- Trainer, author, developer – since 1996
- Specialty: *"Everything JavaScript"*
- JavaScript, ES6, Angular, NodeJS, TypeScript, React, Vue, Phonegap

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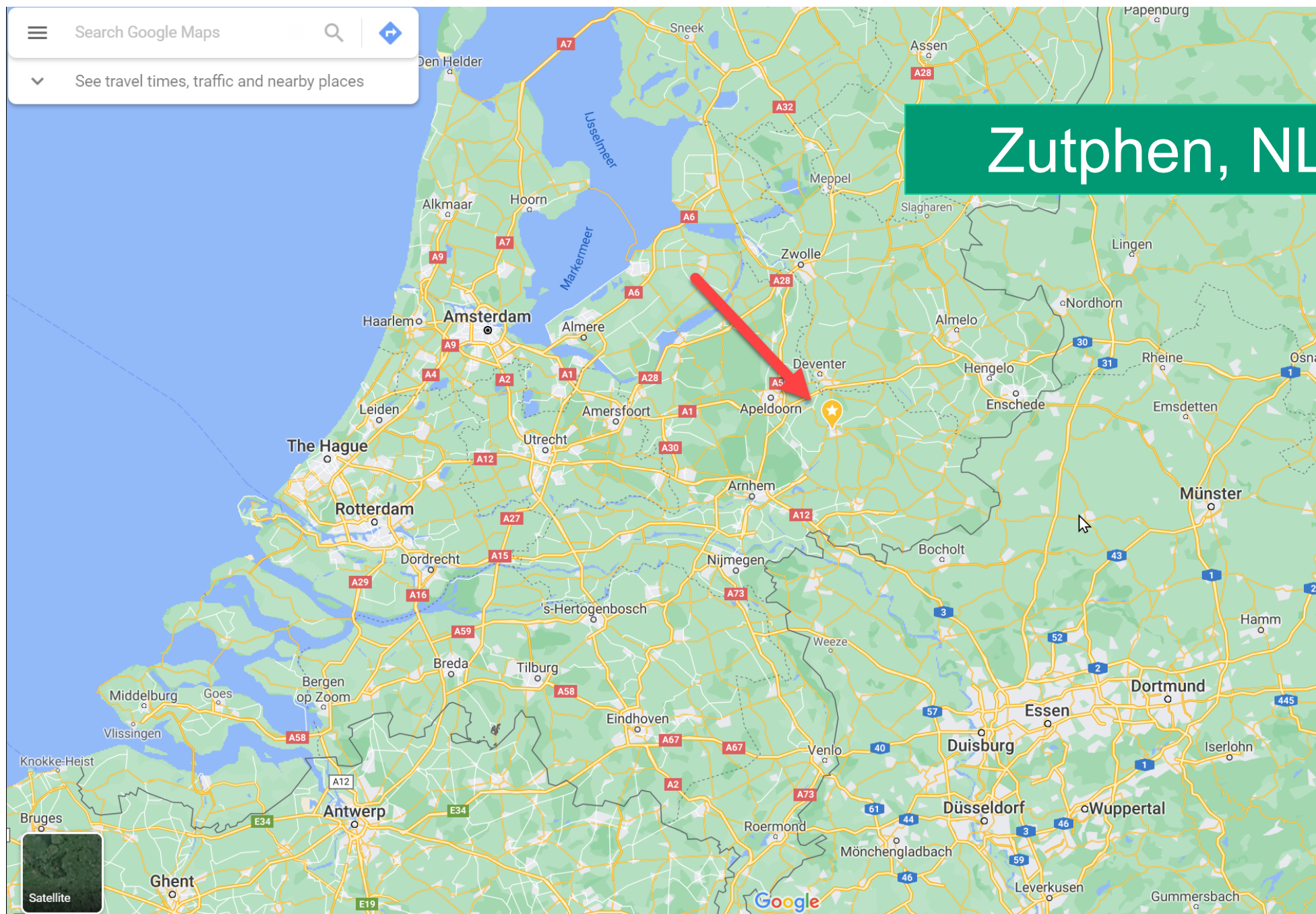
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BETERE ZEKERHEID
VOOR ONDERNEMERS

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ROC West-Brabant

the eforum
FACTORY



Zutphen, NL

Angulartraining.nl Home Training Dates Information Contact

2018 dates now available!



```
const routes: Routes = [
  { path: '', redirectTo: 'home', pathMatch: 'full' },
  { path: 'home', loadChildren: './home/home.module#HomeModule' },
  { path: 'training', loadChildren: './training/training.module#TrainingModule' },
];

const config: ExtraOptions = {
  enableTracing: false, // this on to for console logging of route events
  preloadingStrategy: PreloadingStrategyNoPreload,
};

@NgModule({
  imports: [RouterModule.forRoot(routes, config)],
  exports: [RouterModule]
})
export class AppRoutingModule {}
```

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github.com/PeterKassenaar/pink

The screenshot displays the GitHub repository page for `PeterKassenaar / pink`. The repository is currently on the `main` branch, with 1 branch and 0 tags. It has 1 watch, 0 stars, and 0 forks. The repository contains a folder named `slides` and three files: `.gitignore`, `LICENSE`, and `README.md`. The `README.md` file is selected and its content is displayed below the file list. The content of the `README.md` file includes the title `PinkRoccade`, a description `Slides and links on the training Angular, PinkRoccade, summer 2021`, and a section titled `Links` with a bullet point linking to `Angular Fundamentals` repository.

Repository Overview:

- Repository: `PeterKassenaar / pink`
- Branches: `main` (1 branch)
- Tags: 0 tags
- Actions: 3 commits

File List:

File	Commit Message	Time
<code>slides</code>	added first slides	27 days ago
<code>.gitignore</code>	Initial commit	27 days ago
<code>LICENSE</code>	Initial commit	27 days ago
<code>README.md</code>	Update README.md	27 days ago

README.md Content:

PinkRoccade

Slides and links on the training Angular, PinkRoccade, summer 2021

Links

- `Angular Fundamentals` repo met voorbeeldcode: <https://github.com/PeterKassenaar/voorbeeldenAngular2>

Over jullie



Stel jezelf kort voor

Voorkennis webdevelopment, (mobile/web-) apps?

(Kennis AngularJS 1.x?)

Voorkennis **andere** (web)talen?

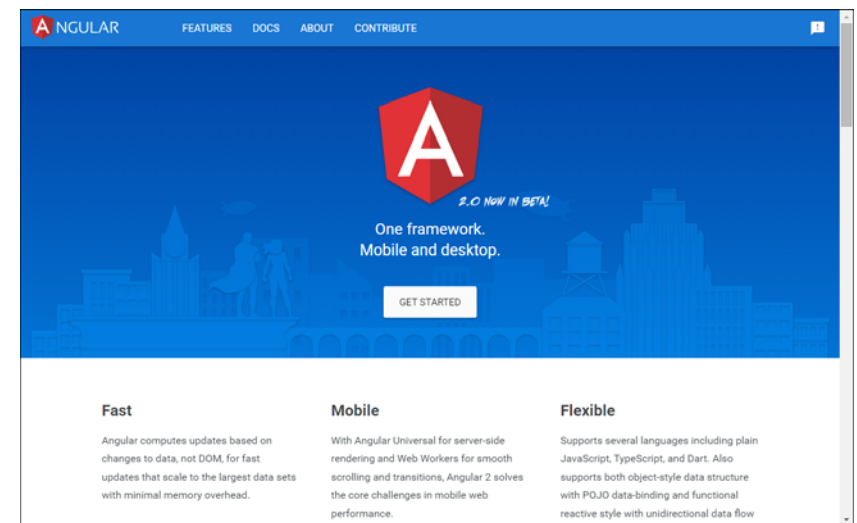
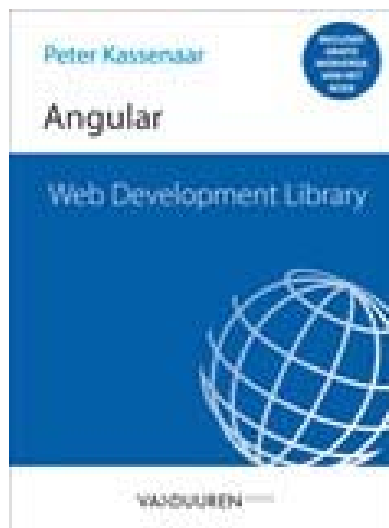
Verwachtingen van de cursus?

Concrete projecten?

Specifieke **vragen of technieken** die je wilt behandelen?

Materialen

Software	(Angular, NodeJS + NPM, editor, browser)
Handouts	(Github - PDF)
Oefeningen	(Github)
Websites	(online)



angular.io/

Agenda - globaal

08 – 09 juli 2021 – do - vr – *Angular Extended*

~9:00 start

~ 10:30 Break

~12:00 lunch

~ 14:30 Break

~16:00-16:15 einde

Korte Herhaling - Fundamentals

*Je wordt **geen** **Angular wizard** in 2
dagen (sorry)*

maar....

Goals

1. Je leert over de **structuur en architectuur** van Angular Apps. Van een kleine `hello-world` app tot een grote Enterprise applicatie.
2. Je bent bekend met de belangrijkste **Angular concepten** van het framework. Specifieke details kun je altijd Googelen.
3. Je hebt **enige hands-on ervaring** met het maken van apps en componenten, services, API's/backends, component communicatie.
4. Je hebt een **algemeen begrip** van de manier waarop moderne web apps worden gemaakt met Angular, TypeScript en build tools.

Agenda

- Day 1 – Intro & Data binding
 - Theory - Introductie & geschiedenis - why Angular
 - Hello World in Angular –boilerplate-code
 - Concepts, context & architecture
 - Angular CLI
 - Components
 - Data binding

Agenda

- Day 2 – Services & Communication
 - Services & DI
 - Observables (RxJS)
 - HTTP, Live API's,
 - Component communication
 - @Input ()
 - @Output ()

Agenda Extended - 2 dagen

- Short recap - questions?
- Architecture
 - Multiple modules, flexible applications
 - Shared modules, to reuse code
- Design patterns
 - Smart Components/view components
 - Content Projection
- Creating monorepo's
 - Discussion
 - Multiple apps / shared libraries
 - Publishing your shared library

Next up – Advanced (19-20 July)

- Advanced architecture
 - Routing (basic, routing parameters, guards)
 - Advanced routing & Lazy loading modules
 - Loading strategies
- Reactive Forms
- Introduction State Management & @ngrx/store
- Concise: testing w/ Jasmine, Karma, Cypress
- Documenting your project

2 Richtlijnen

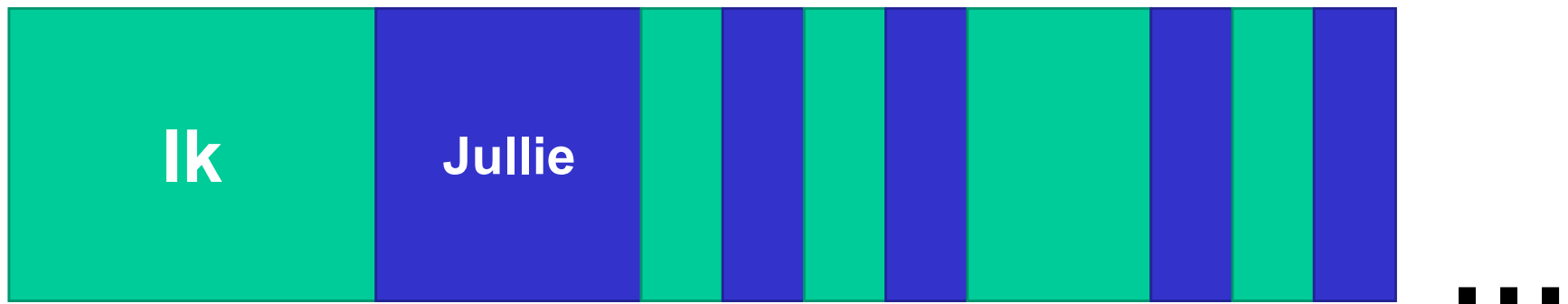
1. Oefeningen

- Maar: neem ook vooral zijpaden, experimenteer, lees verder, maak een eigen project, app, website...

2. Voorbeeldcode

- Als ondersteuning bij de oefeningen, zie boven
- Work in progress – check de Angular-site!
- <https://github.com/PeterKassenaar/AngularAdvanced>

Globale werkwijze



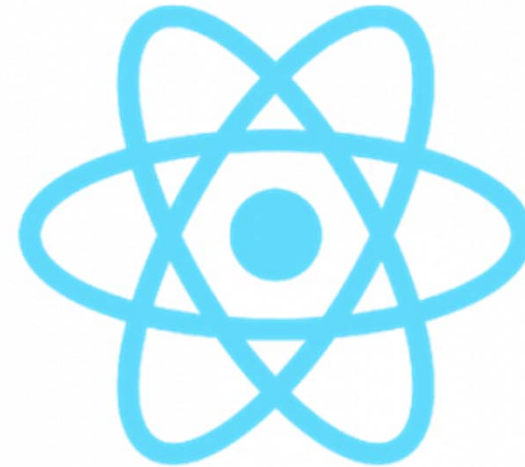
Vragen?



Short Recap

Short recap on the fundamentals training

Front-end Frameworks – the big four

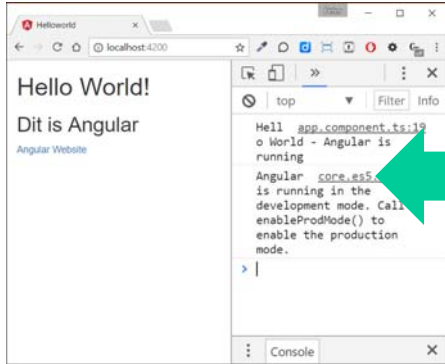


React



Platform Features

	Scaffolding	Code completion & Refactoring	Debugging
Tooling	Angular CLI	Language Services	DevTools
Libraries	Material 2	Mobile	Universal
	AOT- Compile	Change Detection	Renderer
Core	Components & Dependency Injection	Decorators	Zones



main.ts / bootstrapper

ngModule / root module

AppComponent

Services

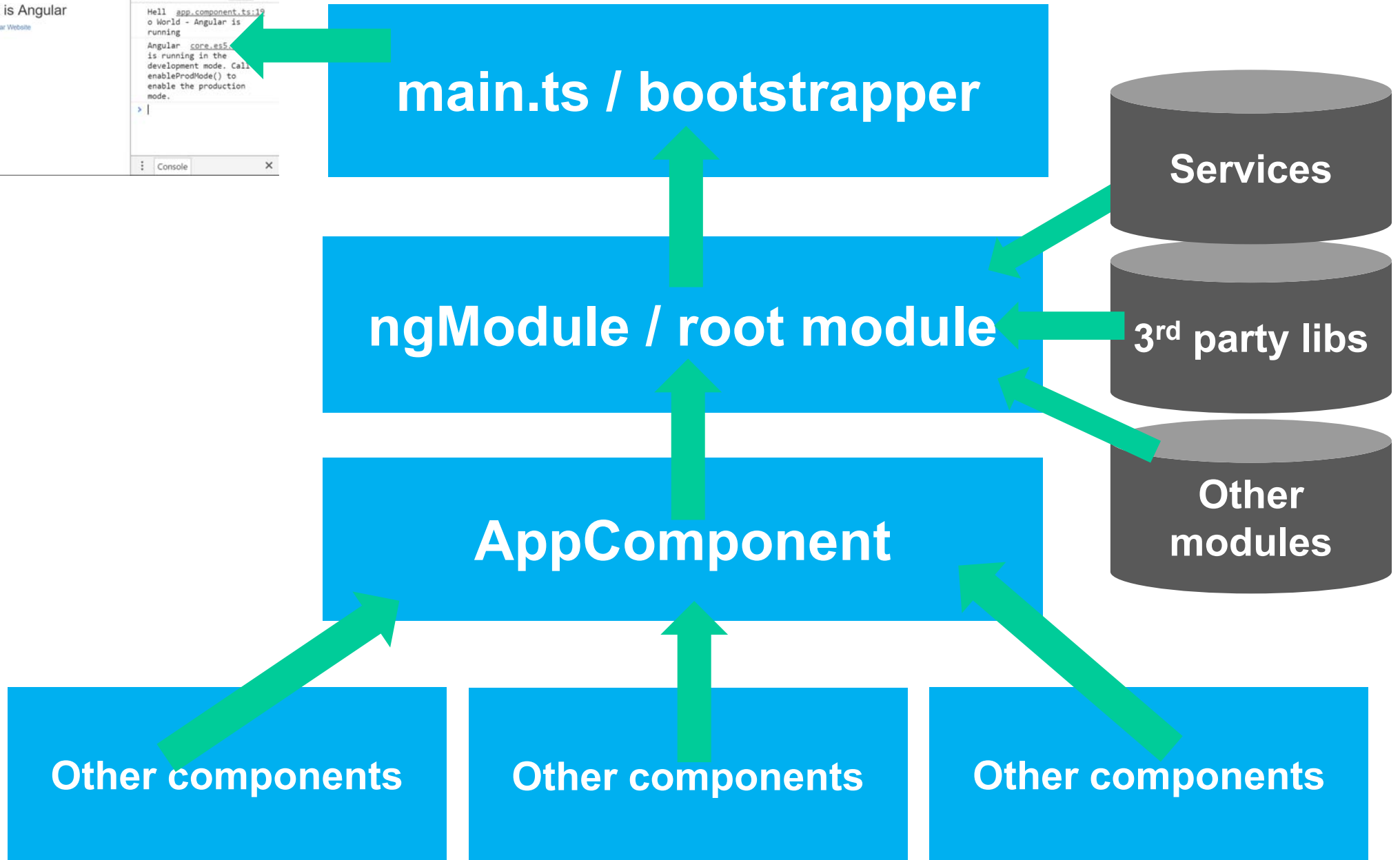
3rd party libs

Other modules

Other components

Other components

Other components





A Venn diagram consisting of three concentric circles. The outermost circle is dark green and contains the text 'TypeScript'. Inside it is a medium-sized teal circle containing the text 'ES6'. Inside the ES6 circle is the smallest, lightest green circle containing the text 'ES5'. This visualizes the relationship where TypeScript is a superset of ES6, and ES6 is a superset of ES5.

TypeScript

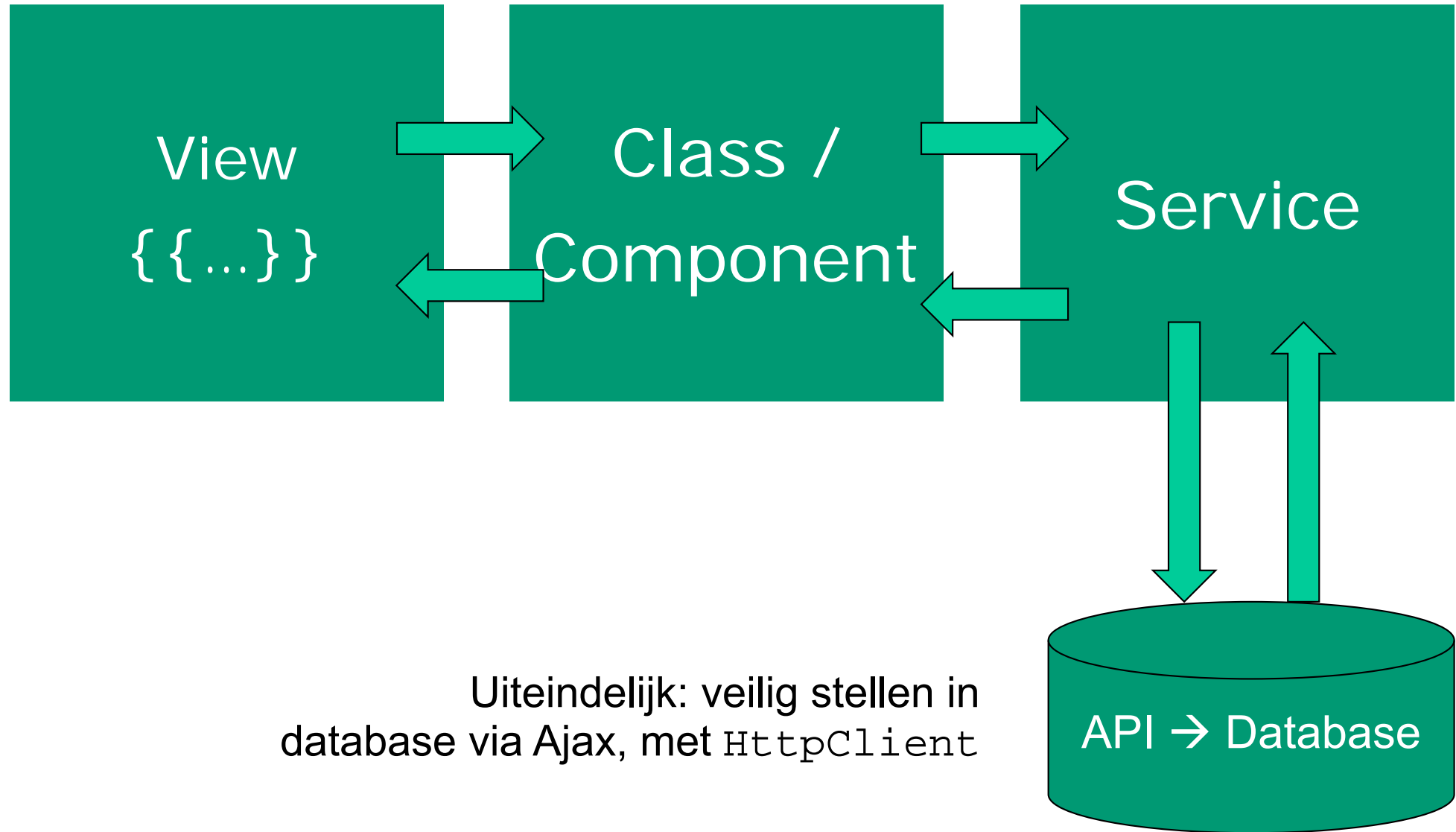
ES6

ES5

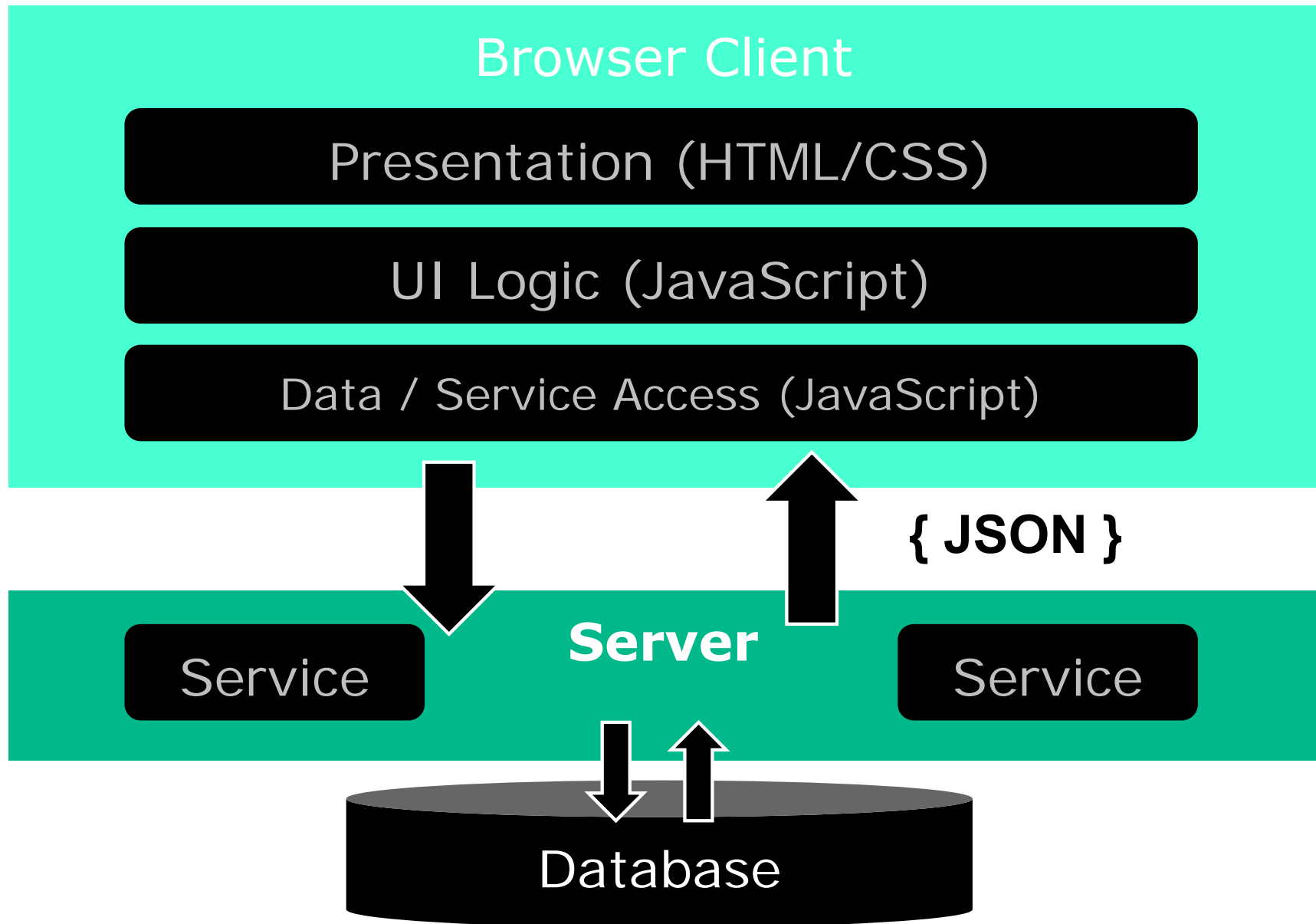
Data binding

- Notatiewijze in HTML-views/templates
 1. Simple data binding `{{ ... }}`
 2. Event binding `(...)="..."`
 3. One-way data binding `[...]="..."`
 4. Two-way data binding `[(ngModel)] = "..."`

Data flow



Single Page Application



**Anderere
vragen?**