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> ict and business optimization

Angular Fundamentals
Korte herhaling dag 1

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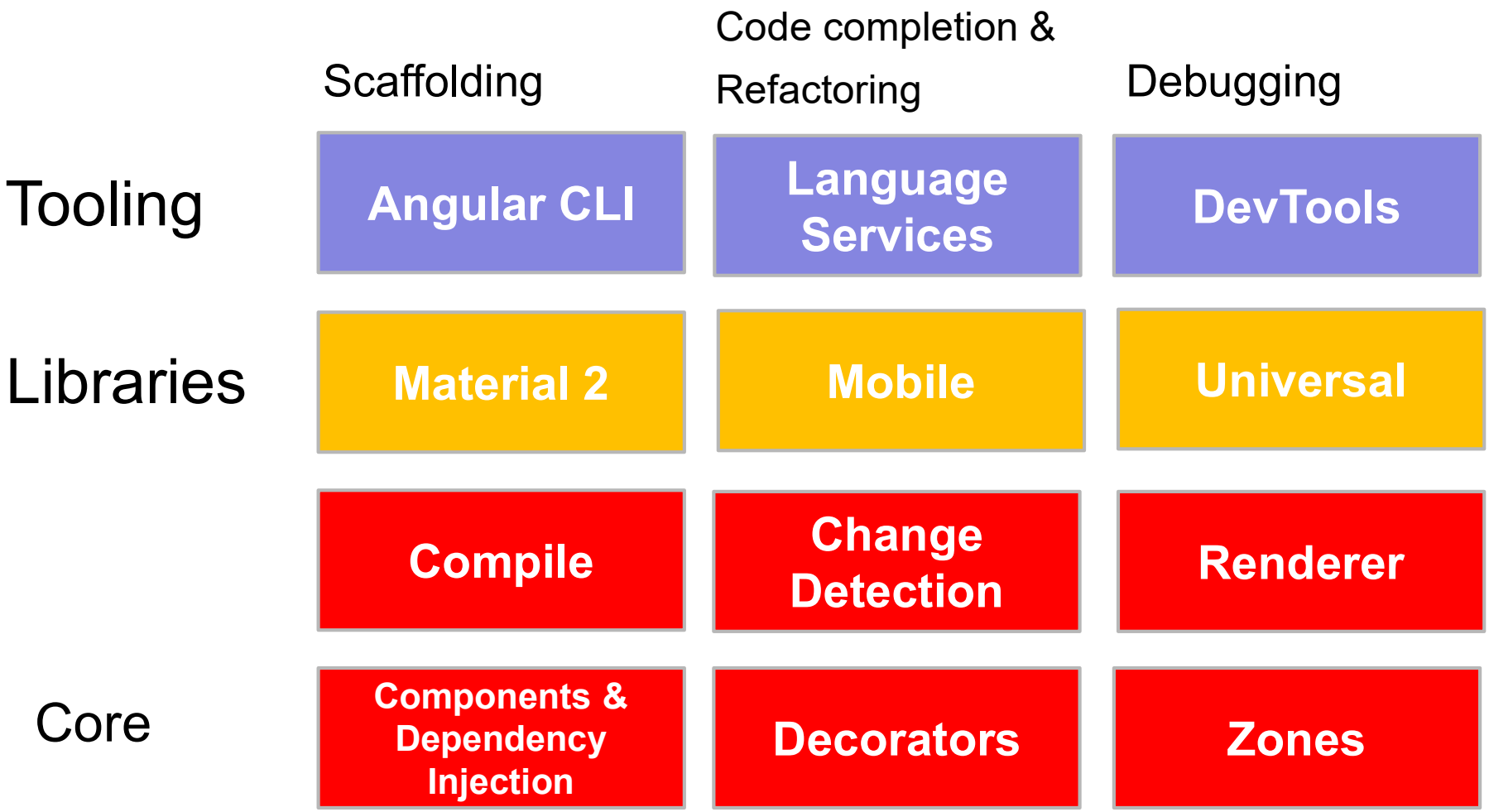
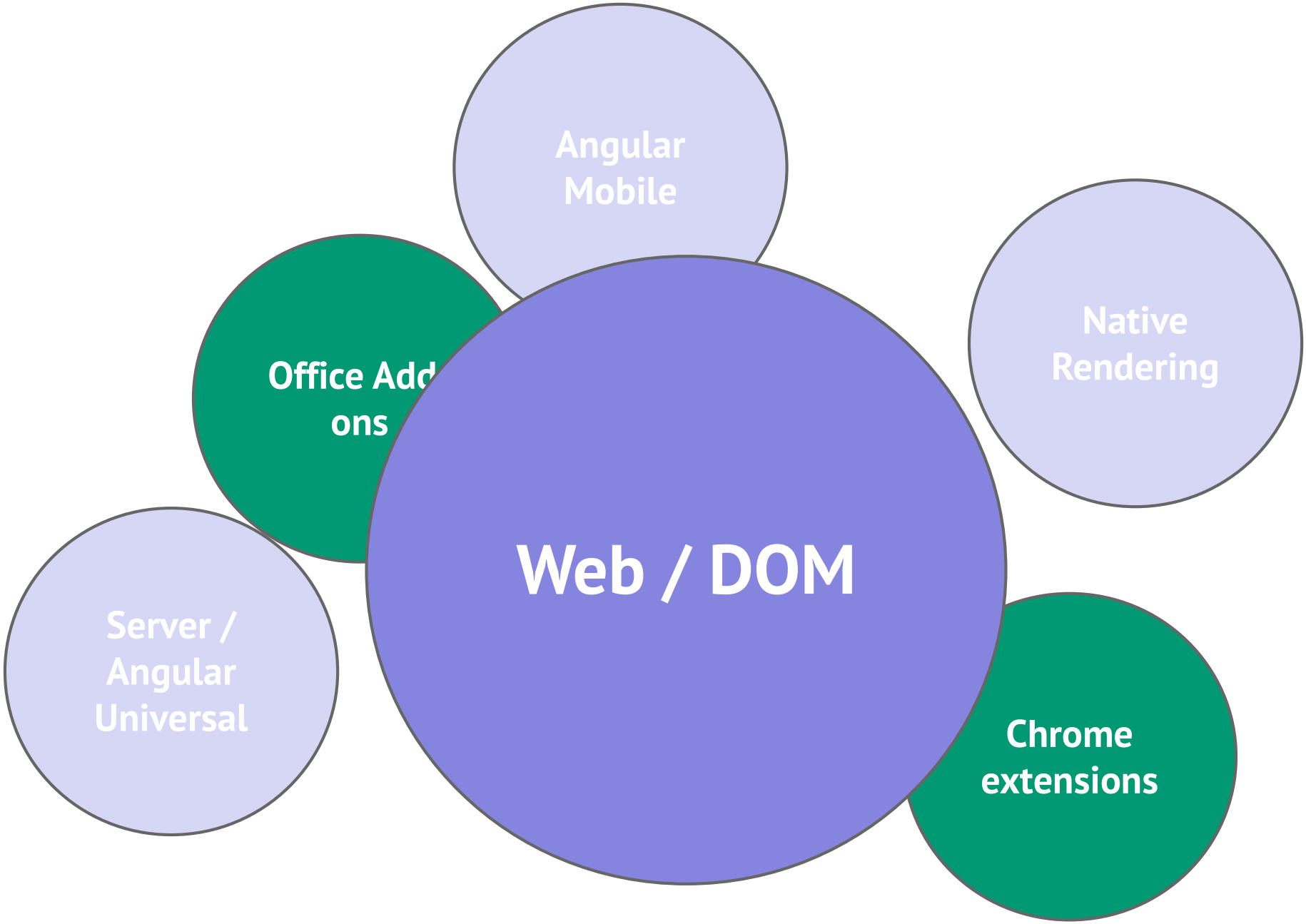
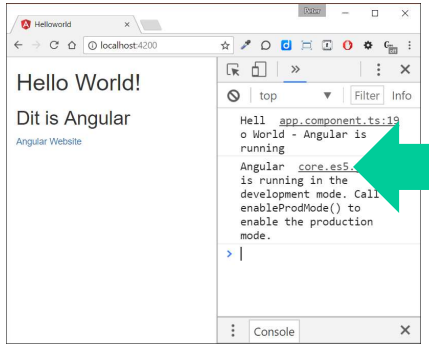
Agenda

- Day 1 – Intro & Data binding
  - Theorie - Introductie & geschiedenis
    - Angular vs Vue, React
  - Hello World in Angular –boilerplate-code
  - Concepts, context & architecture
  - Angular CLI
  - Components
  - Data binding

Framework to Platform




Angular
Mobile
Native
Rendering
Office Add
ons
Web / DOM
Server /
Angular
Universal
Chrome
extensions



main.ts / bootstrapper

ngModule / root module

AppComponent

Other components

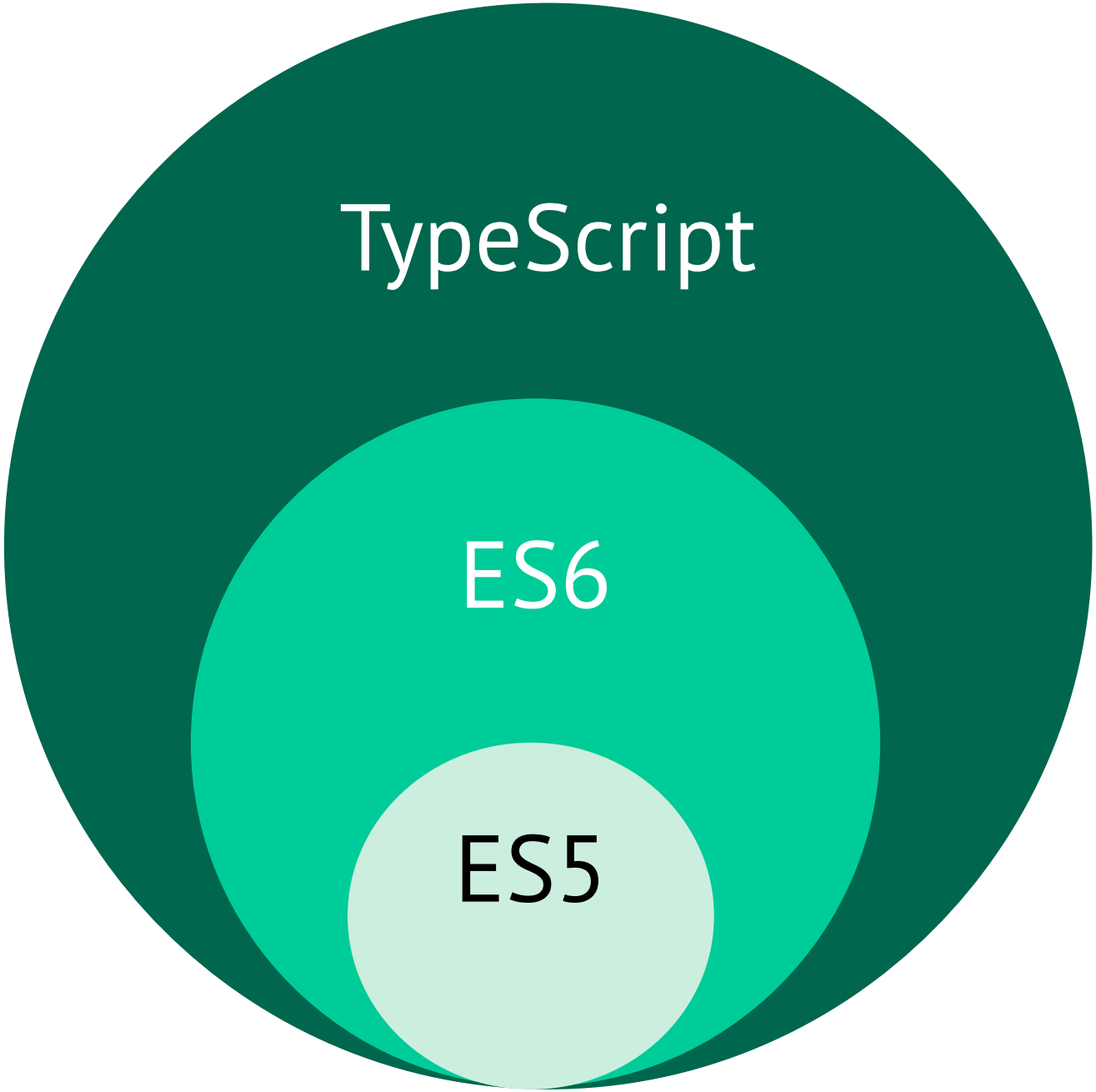
Other components

Other components

Services

3rd party libs

Other modules


TypeScript
ES6
ES5

Boilerplate code - stappenplan

1. Set up environment, boilerplate & libraries
   - `npm install`
2. Schrijf Angular Root Component & Module voor de app
3. Bootstrap
4. Schrijf HTML-pagina (`index.html`)
5. Run applicatie
   - `npm start`

Components

- `@Component` decorator
- View
- Controller / Class

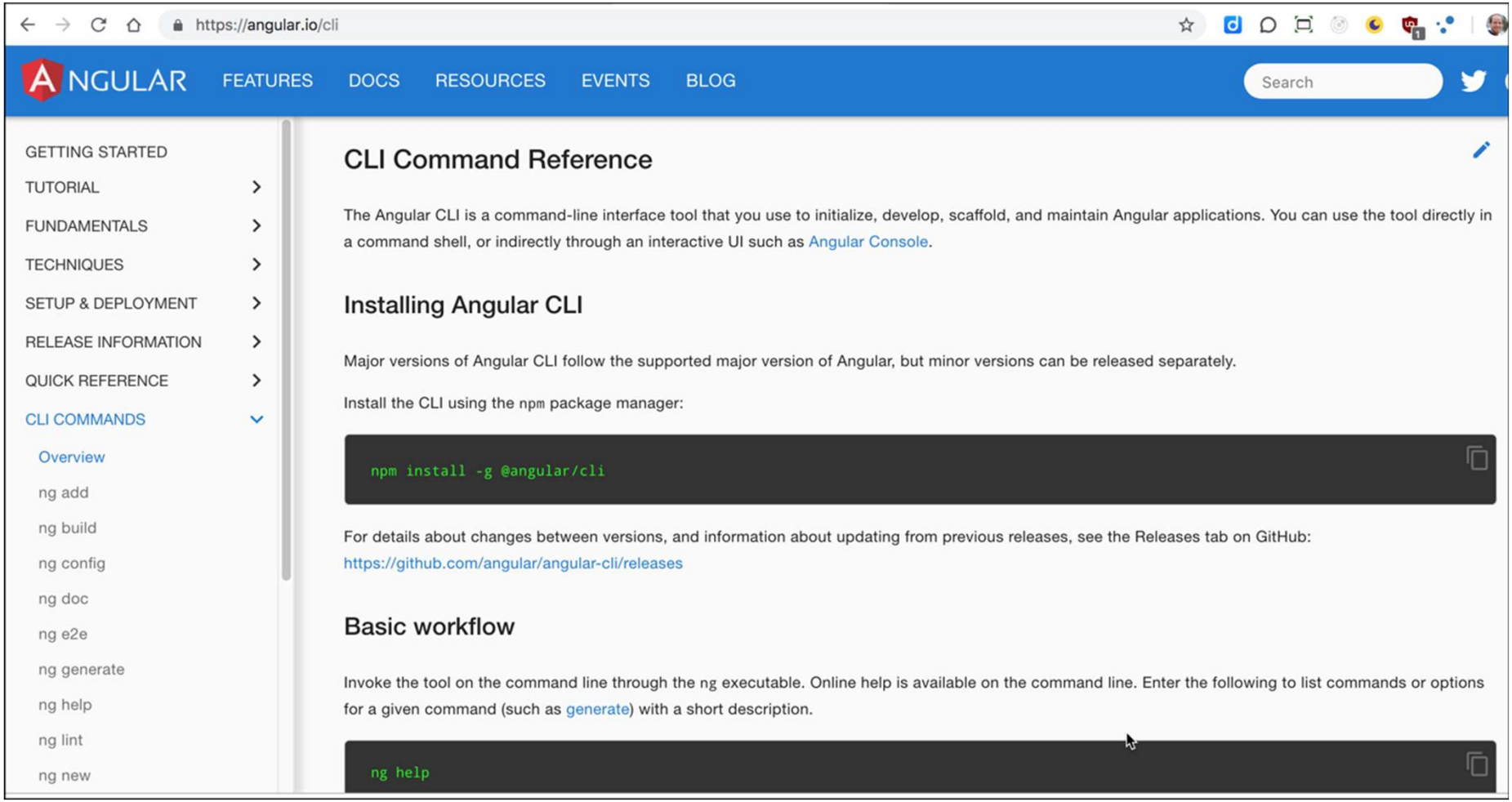
```
import { Component, OnInit } from '@angular/core';

@Component({
    selector: 'app-customer',
    templateUrl: './customer.component.html',
    styleUrls: ['./customer.component.css']
})
export class CustomerComponent implements OnInit {

    constructor() {}

    ngOnInit() {}
}
```

Angular CLI



https://angular.io/cli

Ng serve

- Vervult verschillende rollen (*kan* ook handmatig)
  1. TypeScript compilation
  2. (SASS compilation)
  3. Fire up webserver on http://localhost:4200
  4. Fire up Live Reload
  5. Analyzing and bundling of application by firing up WebPack
  6. Watch for changes and recompile, rebundle, etc.

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)] = " …"`

Vragen?

Vandaag

- data binding – one way-, two-way binding
- Services
  - Static Services
  - Dependency Injection / `@Injectable()`
  - `HttpClientModule`,
  - RxJS / Observables, Live API's
- Component Communication
  - `@Input()`
  - `@Output()`

Morgen

- Component Communication, `@Input(), @Output()`
  - Custom event bus
- Routing
  - Basic routing
  - Routing parameters
- (Forms
  - Template Driven Forms
  - Reactive Forms)

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Tomorrow

09:00 hr