

Angular. Angular CLI. Components

Angular CLI

- The Angular CLI is a command line interface tool that can create a project, add files, and perform a variety of ongoing development tasks such as testing, bundling, and deployment.

Установка Angular CLI

```
npm install -g @angular/cli
```

```
ng new my-app
```

```
ng serve --open
```

Компоненты

- Представление части отображения на странице.
- Взаимодействует с отображением.

```
@Component({  
  selector:    'hero-list',  
  templateUrl: './hero-list.component.html',  
  providers:   [ HeroService ]  
})  
export class HeroListComponent implements OnInit {  
  /* . . . */  
}
```

Template expressions

Data direction	Syntax
One-way from data source to view target	<pre>{{expression}} [target]="expression" bind-target="expression"</pre>
One-way from view target to data source	<pre>(target)="statement" on-target="statement"</pre>
Two-way	<pre>[(target)]="expression" bindon-target="expression"</pre>

Взаимодействие между компонентами

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

@Component({
  selector: 'my-app',
  template: `
```

```
import { Component, EventEmitter, Input, Output } from '@angular/core';

@Component({...})
class ChildComponent {
  ...
  @Input() userName: string;
  @Input() userAge: string;
  ...
}
```

Привязка к событиям дочернего компонента

```
import { Component, EventEmitter, Input, Output } from '@angular/core';

@Component({...})
class MyComponent {
  ...
  @Output() onChanged = new EventEmitter<boolean>();
  ...
}
```

Lifecycle Hooks

Hook	Purpose and Timing
<code>ngOnChanges()</code>	Respond when Angular (re)sets data-bound input properties. The method receives a <code>SimpleChanges</code> object of current and previous property values. Called before <code>ngOnInit()</code> and whenever one or more data-bound input properties change.
<code>ngOnInit()</code>	Initialize the directive/component after Angular first displays the data-bound properties and sets the directive/component's input properties. Called <i>once</i> , after the <i>first</i> <code>ngOnChanges()</code> .
<code>ngDoCheck()</code>	Detect and act upon changes that Angular can't or won't detect on its own. Called during every change detection run, immediately after <code>ngOnChanges()</code> and <code>ngOnInit()</code> .
<code>ngAfterContentInit()</code>	Respond after Angular projects external content into the component's view. Called <i>once</i> after the first <code>ngDoCheck()</code> . <i>A component-only hook.</i>
<code>ngAfterContentChecked()</code>	Respond after Angular checks the content projected into the component. Called after the <code>ngAfterContentInit()</code> and every subsequent <code>ngDoCheck()</code> . <i>A component-only hook.</i>
<code>ngAfterViewInit()</code>	Respond after Angular initializes the component's views and child views. Called <i>once</i> after the first <code>ngAfterContentChecked()</code> . <i>A component-only hook.</i>
<code>ngAfterViewChecked()</code>	Respond after Angular checks the component's views and child views. Called after the <code>ngAfterViewInit</code> and every subsequent <code>ngAfterContentChecked()</code> . <i>A component-only hook.</i>
<code>ngOnDestroy</code>	Cleanup just before Angular destroys the directive/component. Unsubscribe Observables and detach event handlers to avoid memory leaks. Called <i>just before</i> Angular destroys the directive/component.

Ресурсы

- <https://angular.io/>
- <https://metanit.com/web/angular2/>

Q&A