

Building Complex Apps with Angular - Basic Info

This course is for organizations who:

- are considering to adopt Angular (5),
- want to have an in-depth knowledge of the framework,
- want to plan, develop & test a single page app.

Prerequisites

- Solid JavaScript knowledge
- Prior Node.js knowledge is nice to have
- Prior TypeScript knowledge is nice to have
- No prior Angular knowledge is required

Training length: 2 days

This training is available in:

- [Barcelona](#) (March 1-2)
- [Warsaw](#) (April 5-6)
- [Berlin](#) (May 3-4)
- [Tel-Aviv](#) (June 6-7)

Building Complex Apps with Angular - Full Agenda

Day One:

1. AngularJS to Angular - a brief history
2. Angular CLI commands in action
3. Modules
4. Directives & Components
5. Data binding
6. Services

Day Two:

7. Pipes
8. Routing
9. Component composition
10. Handling HTTP streams
11. Forms
12. Testing

Building Complex Apps with Angular - Day 1

1. AngularJS to Angular - short brief of history

We'll summarize how Angular came to life and how it became one of the most popular front-end frameworks. You will understand the decisions behind the complete rewrite of the framework and get to know the dependencies under the hood.

2. Angular CLI commands in action

You'll learn how to use the commands in Angular's command line tool and how they can help you through the development, build and test phases.

Building Complex Apps with Angular - Day 1

3. Modules

We'll learn how to bootstrap our application with Angular, and we'll check out the built-in modules.

4. Directives & Components

You'll learn the difference between Angular's structural and attribute directives. You will also understand why components are just the same as attributes extended with lifecycle methods.

Building Complex Apps with Angular - Day 1

5. Data binding

You will learn how the presentation layer is wired to the application logic and get to know the various data binding techniques to display or interact with HTML elements.

6. Services

“Almost anything can be a service” - angular.io

We will master the concept of dependency injection and compare with Angular’s own injector hierarchy.

Building Complex Apps with Angular - Day 2

7. Pipes

We will play with the commonly available data transformation pipes that come with Angular and also try to create our own one.

8. Routing

Angular comes with quite a complex routing configuration. We will master how to setup our base route, lazy-load modules, handle parameters, and examine the route events fired by the framework.

Building Complex Apps with Angular - Day 2

9. Component composition

We will learn how the components interact with each other, create component configurations and we'll also understand the idea of event emitters. After that, we restructure our application into a more maintainable structure introducing SharedModule and CoreModule.

10. Handling HTTP streams

Angular has built-in classes for handling HTTP events. We will learn to make a difference between Promise and Observable and use the underlying power of the framework to fetch, create, update and delete data.

Building Complex Apps with Angular - Day 2

11. Forms

Angular has a powerful module for handling forms and support multiple approach to build one. We will learn the difference between template-driven and reactive approach.

12. Testing

The Angular library comes with built-in support for unit and end-to-end testing. We will take a peek into Jasmine, Karma and Protractor and create a simple example for both techniques.

In case you have any questions regarding this training, or you'd like to invite our team to provide a training exclusively for your company, please reach out to us at info@risingstack.com