# Intro to Angular CLI

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# Intro to Angular CLI

**Outline**

**Prerequisetes**

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**Why Angular?**

**Most Popular Web Frameworks**

**Angular CLI**

   **Command Summary**

**Angular Version**

**Help!**

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Angular CLI

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## Prerequisites

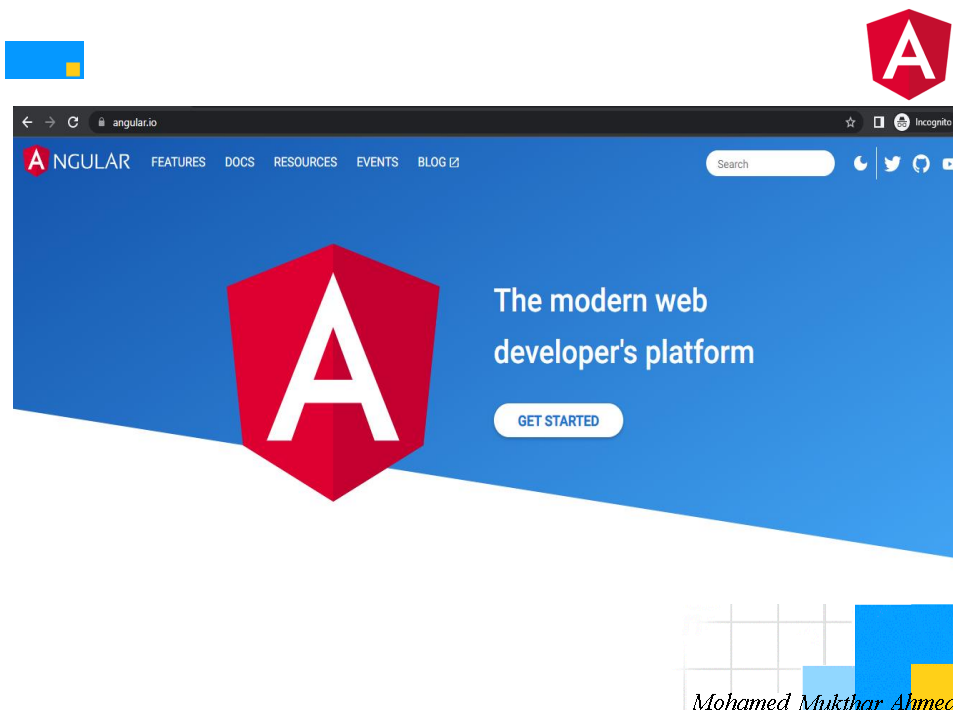What you should already know 💡



Object-Oriented Concepts ?

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# Why Angular?

## The modern web developer's platform.

### ■ Develop Across Platforms

- ■ Learn one way to build applications with Angular and reuse your code and abilities to build apps for any deployment target. For web, mobile web, native mobile and native desktop.

### ■ Speed & Performance

- ■ Achieve the maximum speed possible on the Web Platform today, and take it further, via Web Workers and server-side rendering.

- ■ Angular puts you in control over scalability. Meet huge data requirements by building data models on RxJS, Immutable.js or another push-model.

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# Why Angular?

### The modern web developer's platform.
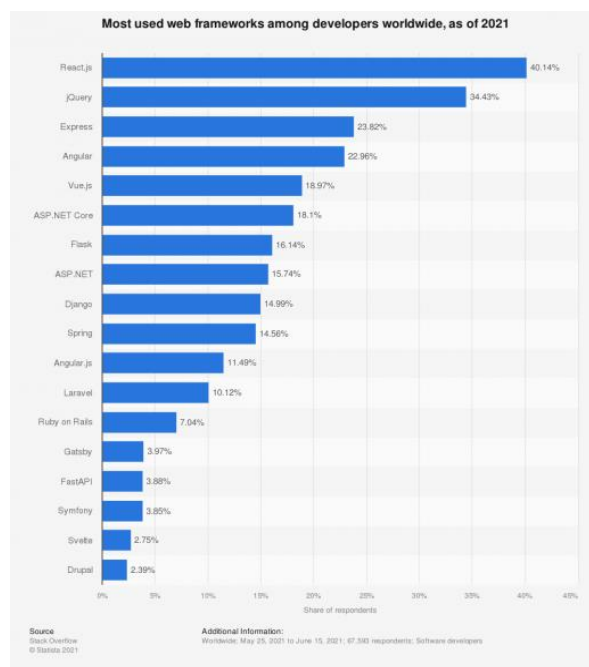
- **Loved By Millions**
  - From prototype through global deployment, Angular delivers the productivity and scalable infrastructure that supports Google's largest applications.

- **Incredible Tooling**
  - Get immediate Angular-specific help and feedback with nearly every IDE and editor.
  - Build features quickly with simple, declarative templates. Extend the template language with your own components and use a wide array of existing components.

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Most used web frameworks among developers worldwide, as of 2021

| Framework | Share |
|-----------|-------|
| React.js | 40.14% |
| jQuery | 34.43% |
| Express | 23.82% |
| Angular | 22.96% |
| Vue.js | 18.97% |
| ASP.NET Core | 18.1% |
| Flask | 16.14% |
| ASP.NET | 15.74% |
| Django | 14.99% |
| Spring | 14.56% |
| Angular.js | 11.49% |
| Laravel | 10.12% |
| Ruby on Rails | 7.04% |
| Gatsby | 3.97% |
| FastAPI | 3.88% |
| Symfony | 3.85% |
| Svelte | 2.75% |
| Drupal | 2.39% |

Source
Stack Overflow
© Statista 2021

Additional Information:
Worldwide; May 25, 2021 to June 15, 2021; 67,593 respondents; Software developers
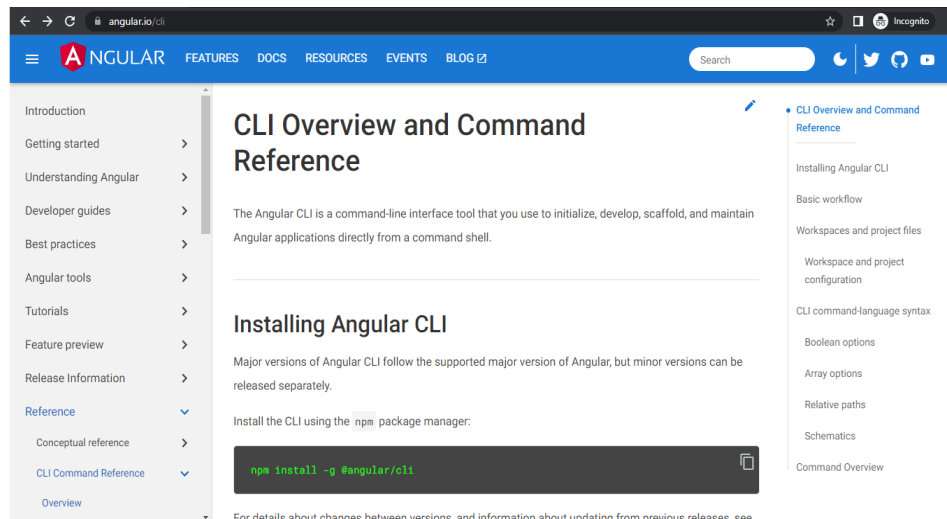
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The Angular CLI

Angular applications can be generated using the Angular Command-Line Interface (CLI): https://cli.angular.io

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CLI Overview and Command Reference

The Angular CLI is a command-line interface tool that you use to initialize, develop, scaffold, and maintain Angular applications directly from a command shell.

Installing Angular CLI

Major versions of Angular CLI follow the supported major version of Angular, but minor versions can be released separately.

Install the CLI using the npm package manager:

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

For details about changes between versions, and information about updating from previous releases, see

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## The Angular CLI

```
ng --version
ng --help
ng new my-app-name
ng generate
    [component | directive | pipe | service | class | interface | enum | guard]
ng build
ng serve
ng lint
ng test
```

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## Angular CLI  Version

```
Command Prompt                                                    —  □  ×

C:\Users\Mohammed Mukthar>ng version


      Angular CLI




Angular CLI: 14.0.6
Node: 14.17.6
Package Manager: npm 6.14.15
OS: win32 x64

Angular:
...

Package                      Version
-------------------------------------------------
@angular-devkit/architect    0.1400.6 (cli-only)
@angular-devkit/core         14.0.6 (cli-only)
@angular-devkit/schematics   14.0.6 (cli-only)
@schematics/angular          14.0.6 (cli-only)


C:\Users\Mohammed Mukthar>
```

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# Angular CLI  Help



```
Command Prompt                                                        —    □    ×

C:\Users\Mohammed Mukthar>ng --help
ng <command>

Commands:
  ng add <collection>              Adds support for an external library to your project.
  ng analytics                     Configures the gathering of Angular CLI usage metrics. See
                                   https://angular.io/cli/usage-analytics-gathering
  ng build [project]               Compiles an Angular application or library into an output directory named dist/ at the
                                   given output path.                                            [aliases: b]
  ng cache                         Configure persistent disk cache and retrieve cache statistics.
  ng completion                    Set up Angular CLI autocompletion for your terminal.
  ng config [json-path] [value]    Retrieves or sets Angular configuration values in the angular.json file for the
                                   workspace.
  ng deploy [project]              Invokes the deploy builder for a specified project or for the default project in the
                                   workspace.
  ng doc <keyword>                 Opens the official Angular documentation (angular.io) in a browser, and searches for a
                                   given keyword.                                                 [aliases: d]
  ng e2e [project]                 Builds and serves an Angular application, then runs end-to-end tests.  [aliases: e]
  ng extract-i18n [project]        Extracts i18n messages from source code.
  ng generate                      Generates and/or modifies files based on a schematic.         [aliases: g]
  ng lint [project]                Runs linting tools on Angular application code in a given project folder.
  ng new [name]                    Creates a new Angular workspace.                              [aliases: n]
  ng run <target>                  Runs an Architect target with an optional custom builder configuration defined in your
                                   project.
  ng serve [project]               Builds and serves your application, rebuilding on file changes.  [aliases: s]
  ng test [project]                Runs unit tests in a project.                                 [aliases: t]
  ng update [packages..]           Updates your workspace and its dependencies. See https://update.angular.io/.
  ng version                       Outputs Angular CLI version.                                  [aliases: v]

Options:
```

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