Tooling

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Agenda

CLI

Server-Side Rendering

Mobile/Native Frameworks

Testing

AOT Compiler

Editors

The Angular CLI

Running a JavaScript Application

Module Handling

Bundling

Minifying

Typescript/ES6 Transpilation

Browser Shims

Zone.js

By Hand

Module Handling

Minifying

Shims

Zone.js

Bundling

Transpilation

By Hand

CLI

CLI Capabilities

New Application

New Component/Service/Pipe/Etc

Serving up the Application

Linting

Testing

Building

Server-Side Rendering

Main Benefits

Performance

- Initial Download Size
- Render Time

Search Engine Optimization

Server-Side Rendering Operation Modes

Full Pre-Render

Dynamic Pre-Render

Client-Side Switch
- Download App
- Hidden Div
- Boots
- Replays Events
- Swap Display

Mobile & Native Frameworks

Native Mobile & Desktop Applications

Mobile
- Ionic
- NativeScript

Desktop
- Electron

Testing Tools

Angular Testing Tools

Karma

Protractor

Alternatives
- Jest
- theIntern
- Cypress.io

Angular Testing Utilities
- TestBed
- Async & fakeAsync
- MockBackend

AOT Compiler

JIT Process

Server

Browser

Code & Framework

Templates

DOM Functions

Compiler

AOT Process

Server

Browser

Code & Framework

Templates

Compiler

Editors

Editors

TypeScript
- Better IntelliSense
- Catch Typing Bugs

Angular Language Service
- VS Code
- WebStorm
- Sublime Text

Summary

CLI

AOT

Better Editors