

Angular 2 - Concepts, Code, and Collective Wisdom

- Components - HTML template, CSS styles, logic
 - TypeScript
 - Common mistakes
- Templates and Data Binding
 - Interpolation - the easy one
 - Dynamic data binding
 - Template Expressions and their restrictions
 - Idempotent rule
 - Pipes to transform data for viewing
 - The often overlooked Elvis/Safe Navigation operator
 - TypeScript getter, arrow functions
- App architecture - multiple components
- More Data Binding
 - Input properties: Parent -> Child communication
 - Property binding
 - HTML Attributes and DOM properties
 - Attribute, Class, and Style Binding
- Attribute Directives
- Event Binding
 - DOM Event binding
 - DOM Events
 - Local Template Variables
 - Template Statements and their restrictions
- A better development environment
 - Visual Studio Code, a TypeScript-aware editor
 - TypeScript interfaces
- Structural Directives: NgIf, NgSwitch, NgFor
- Parent-Child Communication
 - Output properties: Child -> Parent communication
 - Parent <-> Child communication patterns
- JavaScript Types and Input Properties: Reference vs primitive types
- Two-way data binding
 - NgModel (Component and DOM)
 - Component to Component
- Host Binding and Attribute Directives (again)
 - Avoiding ElementRef
- App Enhancements
 - Material Design - styling only!
 - What if your view data is not available yet?
- Services, Observables, Promises
 - HTTP GET request

- Dealing with HTTP errors
 - Services and data flow
 - Caching application data in a service
- Dependency Injection (DI)
 - Injector Hierarchy
 - Registering Providers
 - Tokens and Recipes
 - The different types of providers
 - Injector decorators
 - Other injectables
 - Dynamic event binding using Renderer
 - Structural directives and structural components
- Change Detection
 - How did they make it so fast?
 - The classic change detection problem: Why isn't my view updating?
 - What exactly is change detection?
 - Angular's three trees
 - Change detection phases
 - Lifecycle hooks
 - Change detection control knobs
 - The OnPush change detection strategy vs the default strategy
- Architecture
 - Best practices
 - Architecting an Angular application
- What's next?
 - Websites for learning more Angular