Tips, Tricks, & Gotchas

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Agenda
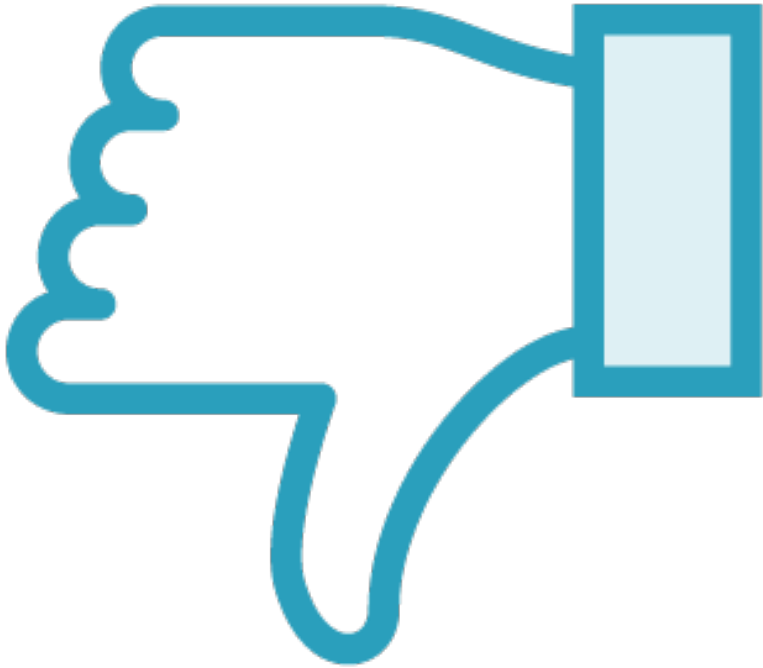
Gotchas

Tips & tricks

Gotchas

Gotchas

Confusing

Difficult to learn

Complex

TypeScript & Decorators

Decorators are a different type of syntax

Decorators

```
@Decorator(parameters…)
```

TypeScript & Decorators

Decorators are a new type of syntax

TypeScript has its own learning curve

TypeScript

```
constructor(private articleSvc: ArticleService)
```

Custom Pipes

Pure vs. impure

- Pure: only evaluated when input changes
- Impure: evaluated on every change detection cycle

Pure are simple, impure are very complex

Module API

imports

exports

bootstrap

providers

declarations

And more...

Module API

```
@NgModule({

    declarations: [ AppComponent, HomeComponent ],

    imports: [ BrowserModule ],

    providers: [ Auth ],

    bootstrap: [AppComponent]
})
```

Multiple Modules

Feature areas

Lazy loading

Difficulties
- Routing
- Importing and exporting

Cryptic Error Messages

Frequent

Frustrating

Slow down development

Build

Complex

Important

Affects performance

Delivery Size

> 1 MB

Constant improvement

CLI

RxJS

Promises vs. observables

Delivering too much

Self-subscribe or not

Forgetting to subscribe

Accidentally making multiple http requests

Hot vs. cold observables

Shared observables

Tips & Tricks

Tips
Part 1

Use the CLI

Follow the style guide

Do sorting & filtering in your component

Learn & use TypeScript

Learn & use Ngrx

Learn Webpack

Tips
Part 2

Use lazy loading

Use VS Code

Don't touch the DOM directly

Understand what you're sending down to the browser

Use immutable or observable data to maximize performance where appropriate

Summary

Build is important

TypeScript, Ngrx, Webpack