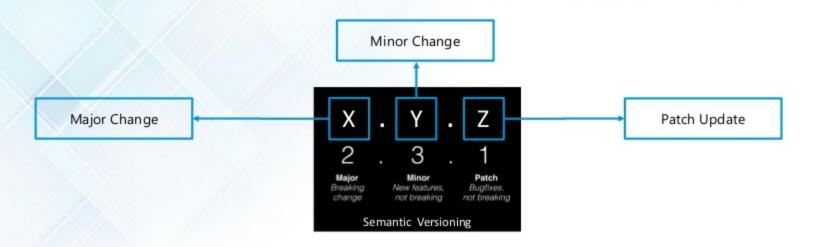


# Angular 4

## **Angular 4 Coming into Picture ...**

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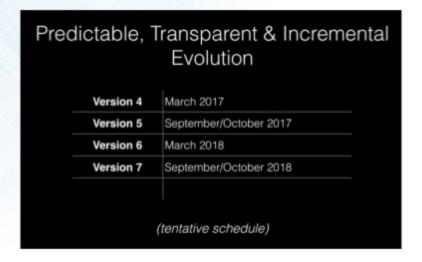
- Changing from version 2 to version 4 ... won't be like changing from Angular 1
- It will simply be a change in some core libraries that demand a major SEMVER version change
- There will be proper deprecation phases to allow developers to adjust their code



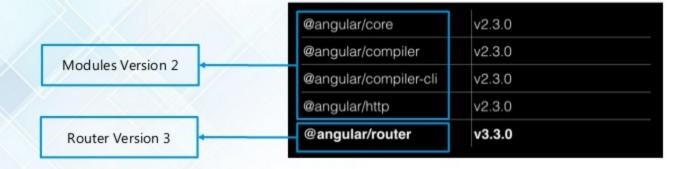
Back in September, the Angular team also announced they will switch to Semantic Versioning (SEMVER)

The Angular team committed to time based releases that occur in three cycles:

- · patch releases every week
- · 3 monthly minor release after each major release
- a major release with easy-to-migrate-over breaking changes every 6 months



- Due to this misalignment of the router package's version, the team decided to go straight for Angular v4
- In this way again, all the core packages are aligned which (easier to maintain and avoid confusion in future)
- The core Angular libraries are all versioned the same way except routes



So... they decided to go with Angular 4

Team announced that from now on, you should address Angular versions 2.0.0 or later as simply "Angular"... #ItIsJustAngular

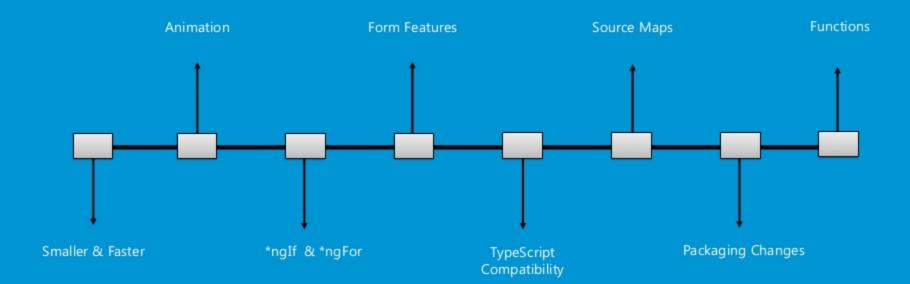
Angular adopted Semantic Versioning and is backwards compatible with 2.x.x





Even upgrading TypeScript dependency from v1.8 to v2.1/v2.2 and compile Angular with it, would cause a breaking change

Angular 4: What's New???



## **Smaller & Faster**

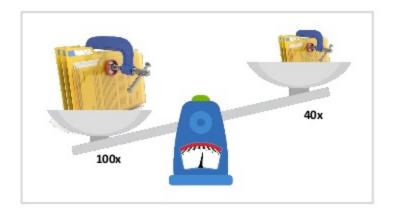




## View Engine

- Changes were done under the hood to what AOT generated code looks like
- Purpose is to reduce the size of the generated code for app components by averagely 60 percent
- During the candidate period release, many developers that migrated to 4, reduced their production bundles by hundreds of kilobytes







#### **Animation Package**

- Angular team has pulled animations out of @angular/core and into their own package
- Add animations to main NgModule by importing BrowserAnimationsModule from @angular/platformbrowser/animations

```
import {Component, OnInit} from '@angular/core';

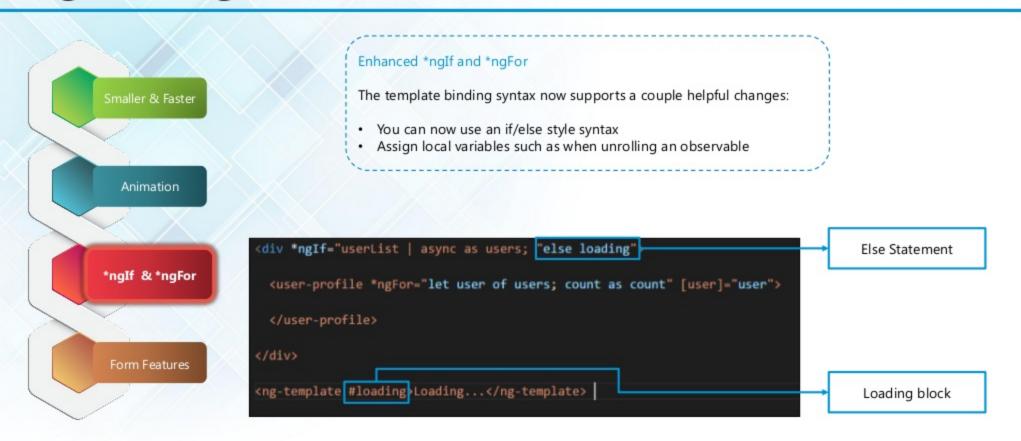
import {
    animate,
    state,
    style,
    transition,
    trigger } from '@angular/animations';

Importing Properties

Animation Module
```

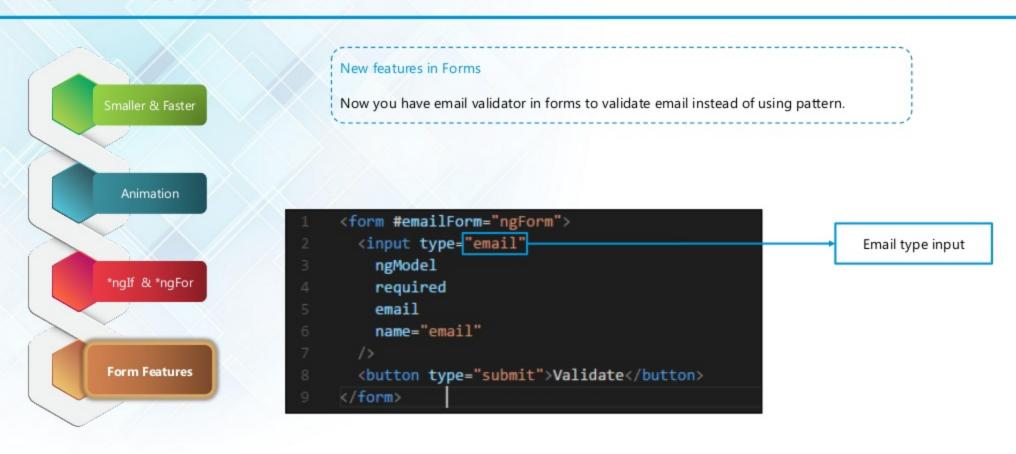
# \*ngIf & \*ngFor

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## **Form Features**

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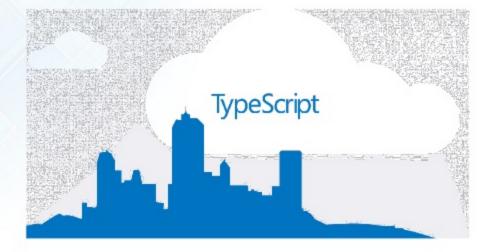
# **TypeScript Compatibility**

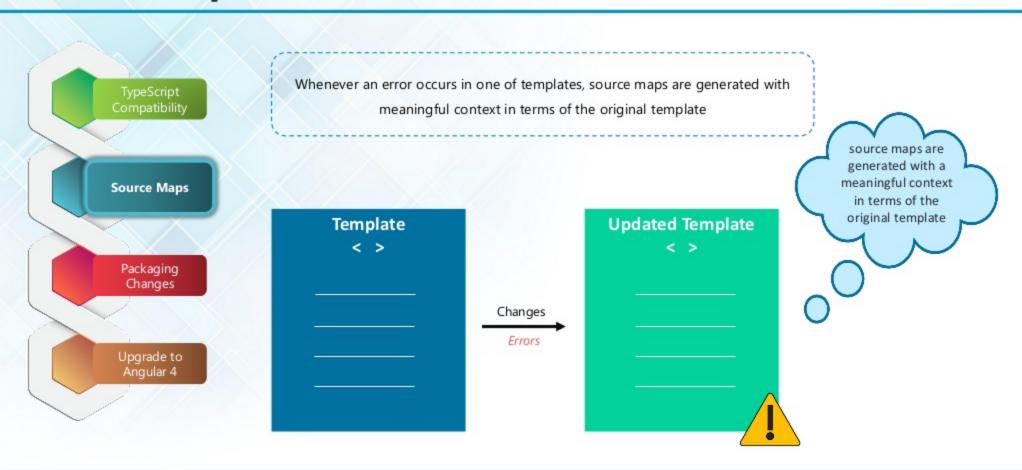




#### TypeScript 2.1 and 2.2 compatibility:

- Angular has also been updated to a more recent version of TypeScript
- This improves the speed of ngc and users will get better type checking throughout your application





## **Packaging Changes**





### **Packaging Changes**

## Flat ES Modules (Flat ESM / FESM)

- · Angular now ship flattened versions of modules
- It helps in tree-shaking, reducing the size of your generated bundles, and speed up build, transpilation and loading

#### Experimental ES2015 Builds

- Angular now also ship packages in the ES2015 Flat ESM format
- · This option is experimental and opt-in.
- Developers have reported up to 7% bundle size savings when combining these packages with Rollup



#### Ready to upgrade 4.0.0

- · Updating to 4 is easy
- This will work for most use cases

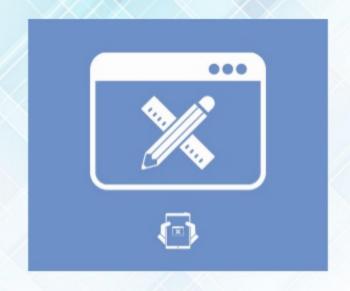
```
npm install @angular/common@latest @angular/compiler@latest

@angular/compiler-cli@latest @angular/core@latest @angular/forms@latest

@angular/http@latest @angular/platform-browser@latest

@angular/platform-browser-dynamic@latest @angular/platform-server@latest

@angular/router@latest @angular/animations@latest typescript@latest --save
```



## Create an app in v4!

Use ng new command along with --ng4 option to create a new app

ng new angular-4-demo --ng4

**Upgrading Angular Application** 

# edureka! **Thank You** For more information please visit our website www.edureka.co