

### Cheatsheet version

Version	1.0.0
Last update	3/31/2018
Angular version	5

### Angular CLI

Node.js version	6.9.0 or higher
npm version	3.0.0 or higher
Install Typescript	npm install -g typescript
Install Angular CLI	npm install -g @angular/cli
Verify	ng --version
Help	ng --help
New project	ng new hello-world
Run	ng serve
Run (port)	ng serve --port 9001
Generate component	ng generate component hello-component
Generate (blueprints)	class, component, directive, enum, guard, interface, module, pipe, service
Build	ng build --target=production --base-href /

### Typescript data types

Boolean	isDone: boolean = false;
Decimal	decimal: number = 6;
Hex	hex: number = 0xf00d;
Binary	binary: number = 0b1010;
Octal	octal: number = 0o744;
String	name: string = 'Bob';
String (multi-line, template)	sentence: string = Hello, my name is \${color};
Array	list: number[] = [1, 2, 3];
Array (generic)	list: Array<number> = [1, 2, 3];
Tuple	x: [string, number]; x = ["hello", 10];
Enum	enum Color {Red, Green, Blue}; c: Color = Color.Green;
Enum (number)	enum Color {Red = 1, Green = 2, Blue = 4}
Any	notSure: any = 4;
Void	function warnUser(): void {} // Void only accepts undefined or null

### Typescript data types (cont)

Null	n: null = null;
Undefined	u: undefined = undefined;
Never	function error(message: string): never { throw new Error(message); }
(let)	(You can use 'let' before variable names)
(type assertions)	(<string>someValue) or (someValue as string)

### Inside app.module

Declarations	Components in this module
Imports	Dependencies
Providers	For dependency injection (such as services)
Bootstrap	Only for top-level component

### Directives

Component directive	Has a template (Most common)
Structural directive	Changes DOM layout (NgFor, NgIf)
Attribute directive	Changes appearance/behavior of element/component/directive (NgStyle)
NgFor (loop)	<li *ngFor="let name of names">Hello {{ name }}</li>

### Passing values between components

```
import { ... Input } from '@angular/core';
export class UserItemComponent implements OnInit {
  @Input() name: string; ...
}
<li *ngFor="let name of names">
  <app-user-item [name]="name"> </app-user-item>
</li>
```

