# ARCHITECTURE



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Angular is a platform and framework for building client applications in HTML and TypeScript. Angular is written in TypeScript.

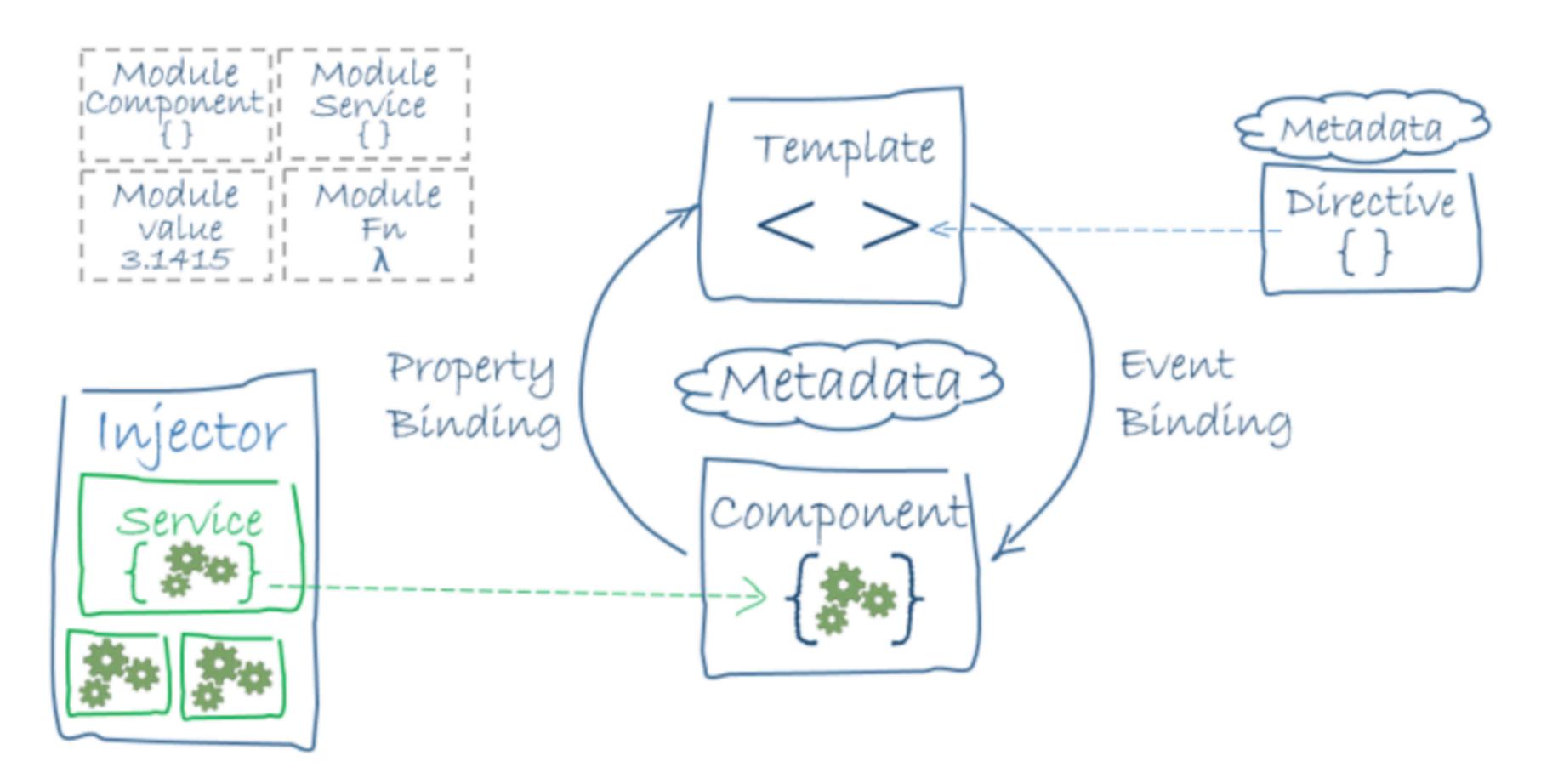


# The other parts of the parts of

- NgModules
- Components
- Views
- Services
- Router



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Angular apps are modular and Angular has its own modularity system called NgModules. NgModules are containers for a cohesive block of code dedicated to an application domain, a workflow, or a closely related set of capabilities.

Every Angular app has at least one NgModule class, the root module, which is conventionally named AppModule and resides in a file named app.module.ts. You launch your app by bootstrapping the root NgModule.



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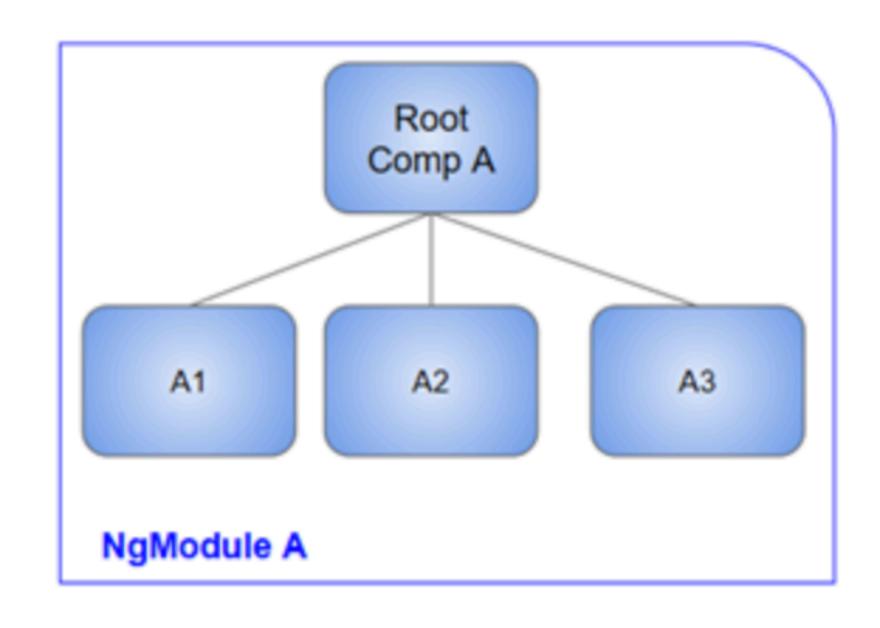
- declarations: The components, directives, and pipes that belong to this NgModule.
- exports: The subset of declarations that should be visible and usable in the component templates of other NgModules.
- imports: Other modules whose exported classes are needed by component templates declared in this NgModule.
- providers: Creators of services that this NgModule contributes to the global collection of services; they become accessible in all parts of the app.
- bootstrap: The main application view, called the root component, which hosts all other app views.

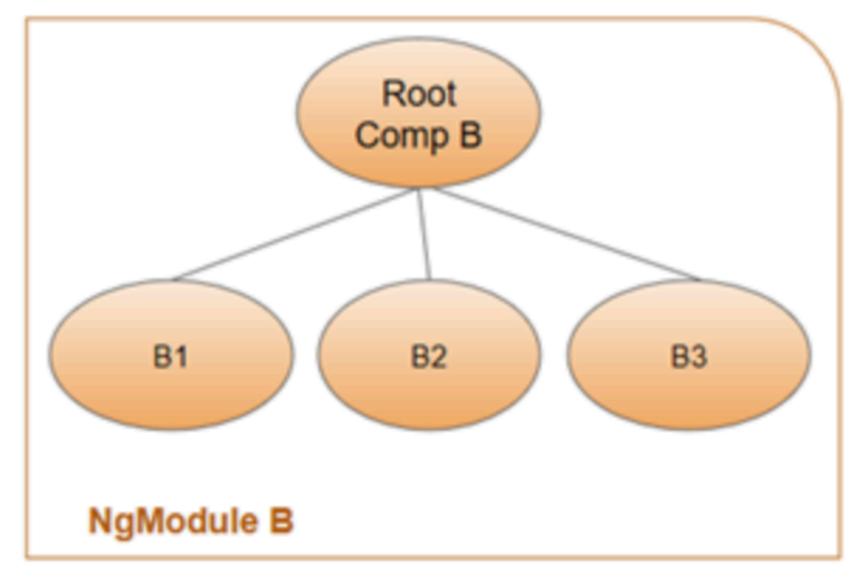
# were the first parties for the first parties

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
@NgModule({
 imports: [ BrowserModule ],
 providers: [Logger],
 declarations: [ AppComponent ],
 exports:
               [ AppComponent ],
 bootstrap: [ AppComponent ]
export class AppModule { }
```



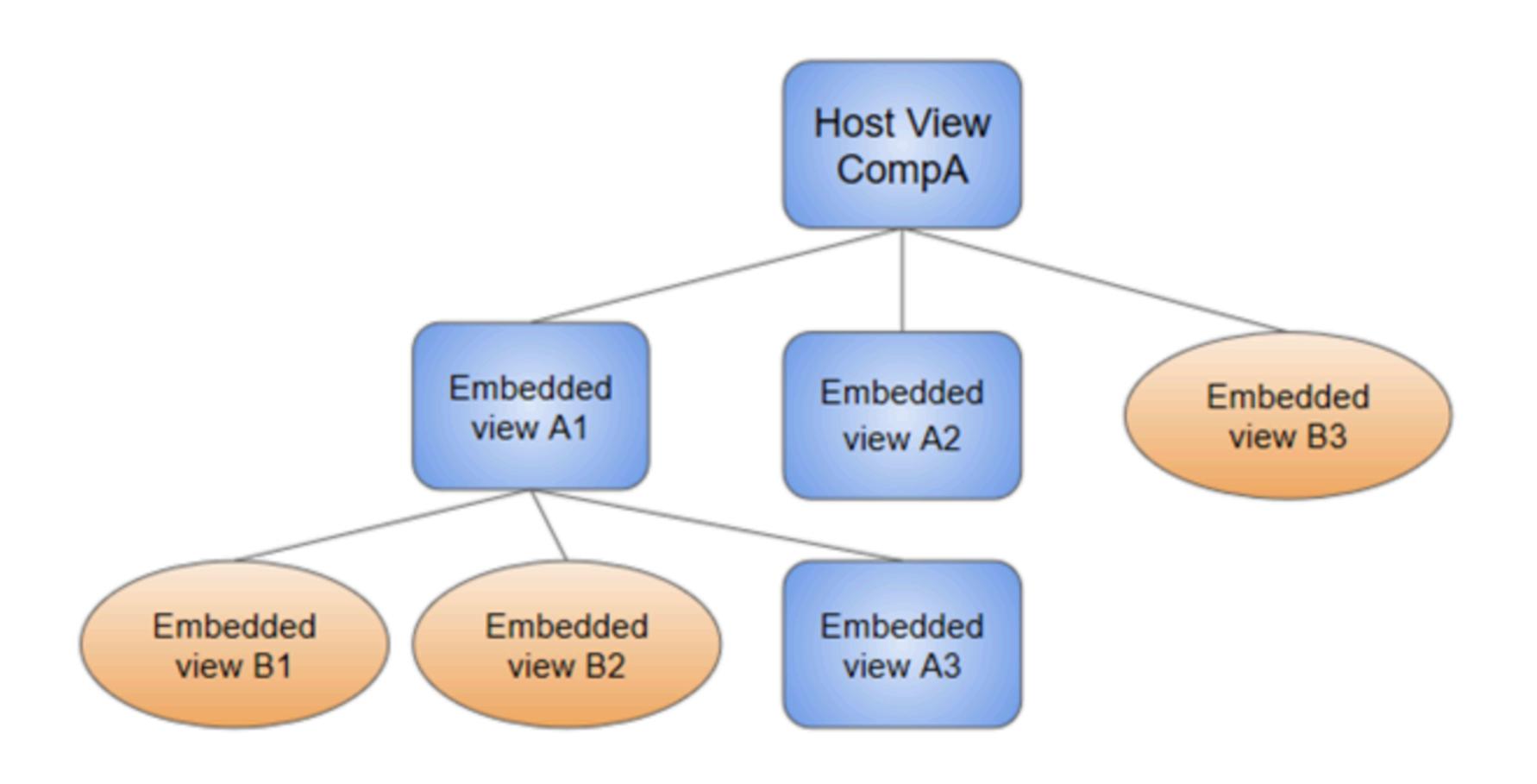
# MODULE AND COMPONENTS







# COMPONENTS AND VIEWS





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A component controls a patch of screen called a view.

You define a component's application logic—what it does to support the view—inside a class. The class interacts with the view through an API of properties and methods.



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```
export class HeroListComponent implements OnInit {
  heroes: Hero[];
  selectedHero: Hero;
  constructor(private service: HeroService) { }
  ngOnInit() {
    this.heroes = this.service.getHeroes();
  selectHero(hero: Hero) { this.selectedHero = hero; }
```



### COMPONE ENTENDED

```
@Component({
  selector: 'app-hero-list',
  templateUrl: './hero-list.component.html',
  providers: [ HeroService ]
})
export class HeroListComponent implements OnInit {
/* . . */
```

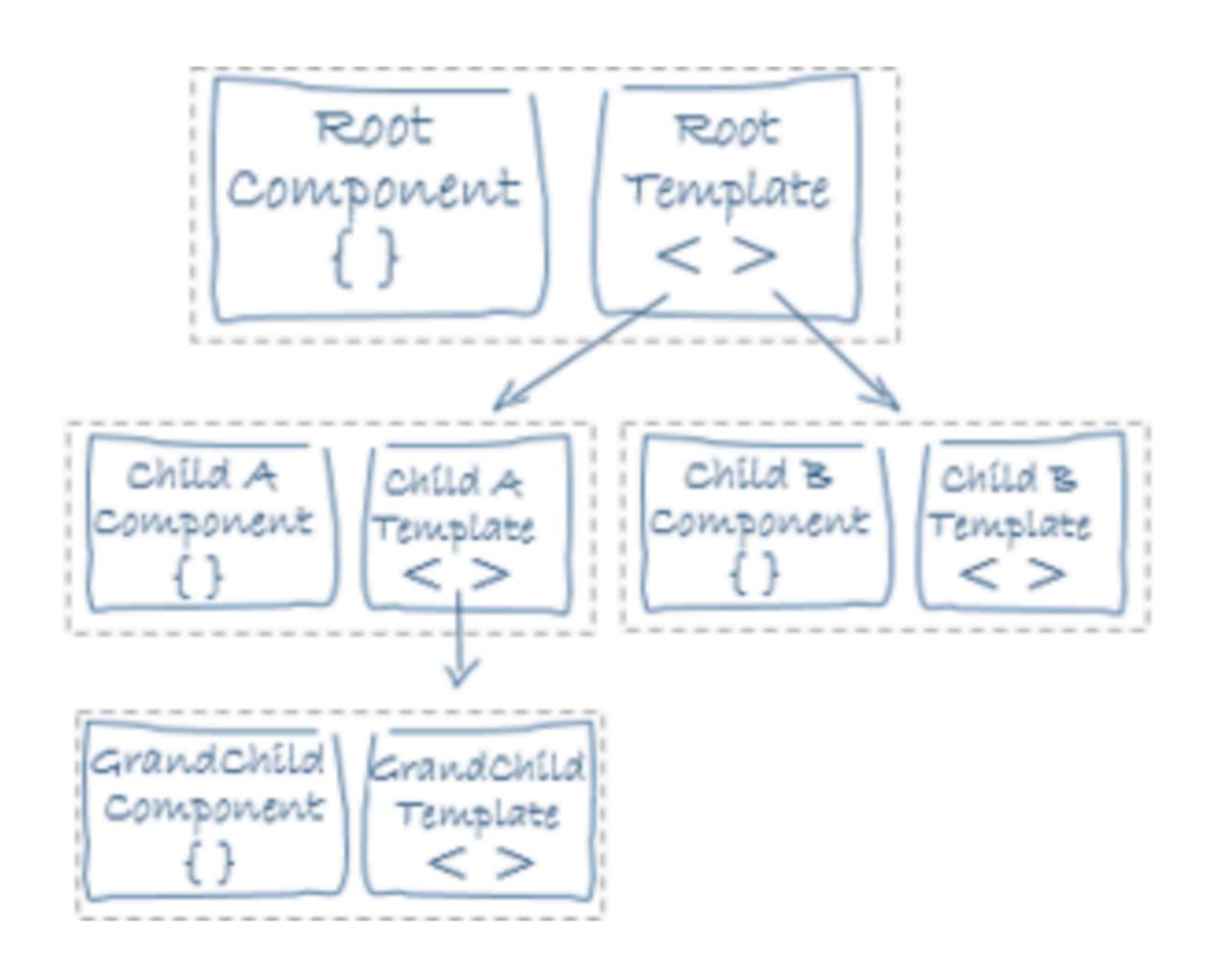


# First Figure 1 and Figure 1 and

You define a component's view with its companion template. A template is a form of HTML that tells Angular how to render the component.



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```
<h2>Hero List</h2>
<i>Pick a hero from the list</i>
<u1>
 {{hero.name}}
 <app-hero-detail *ngIf="selectedHero" [hero]="selectedHero"></app-hero-detail>
```

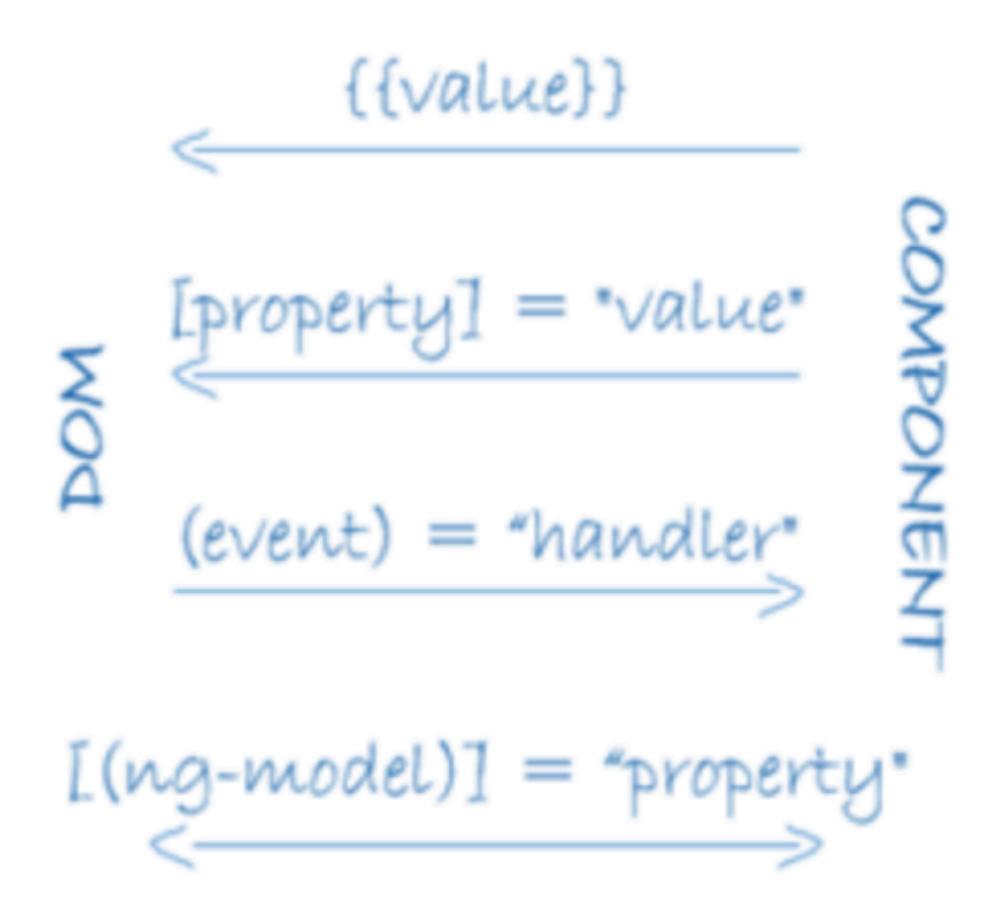


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Angular supports two-way data binding, a mechanism for coordinating the parts of a template with the parts of a component. Add binding markup to the template HTML to tell Angular how to connect both sides.



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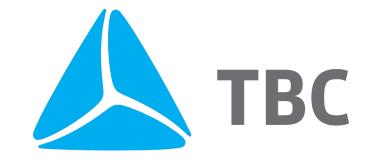




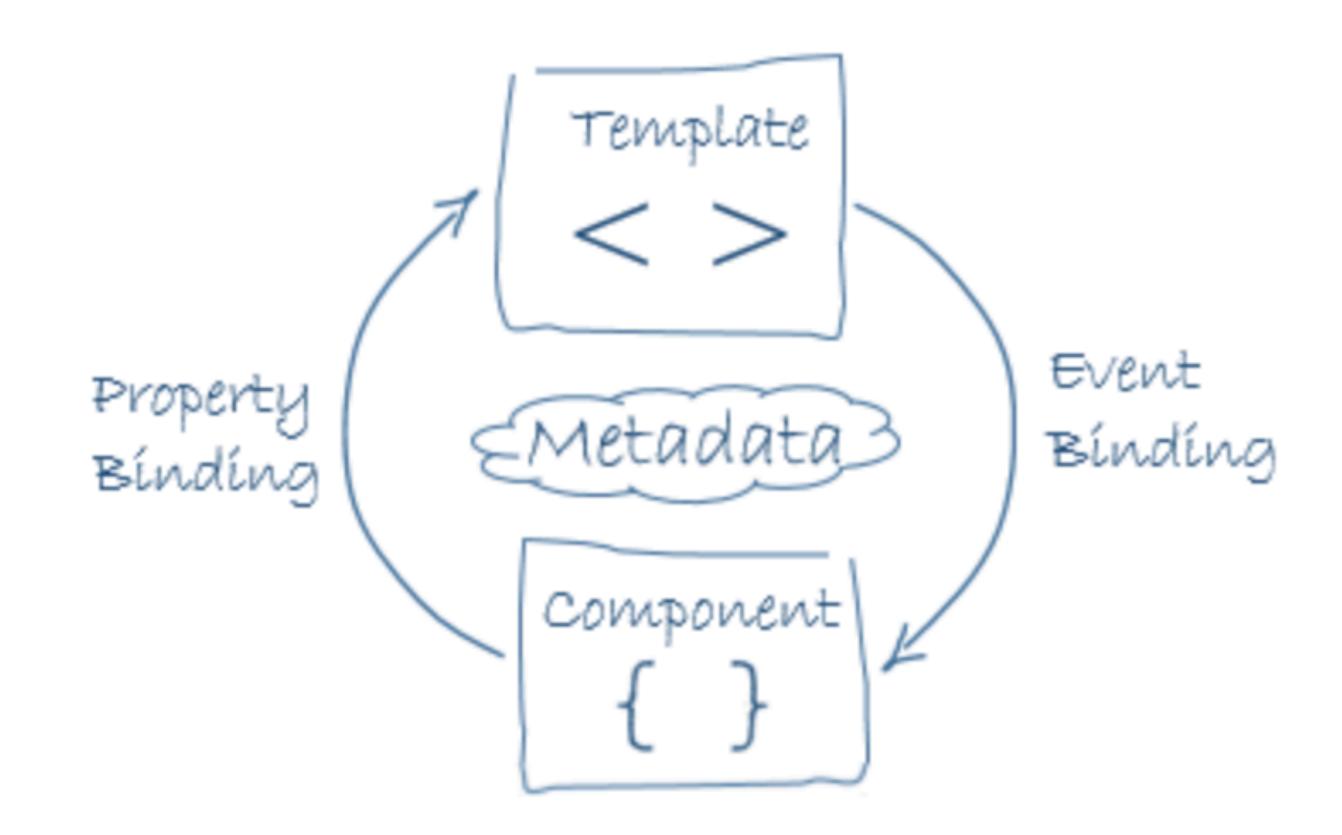
# New York of the Control of the Contr

```
{{hero.name}}
<app-hero-detail [hero]="selectedHero"></app-hero-detail>
```

```
<input [(ngModel)]="hero.name">
```



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```
<!-- Default format: output 'Jun 15, 2015'-->
 Today is {{today | date}}
<!-- fullDate format: output 'Monday, June 15, 2015'-->
The date is {{today | date:'fullDate'}}
<!-- shortTime format: output '9:43 AM'-->
 The time is {{today | date:'shortTime'}}
```



# SERVICE SERVIC

Service is a broad category encompassing any value, function, or feature that an app needs. A service is typically a class with a narrow, well-defined purpose. It should do something specific and do it well.



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```
export class Logger {
  log(msg: any) { console.log(msg); }
 error(msg: any) { console.error(msg); }
 warn(msg: any) { console.warn(msg); }
```

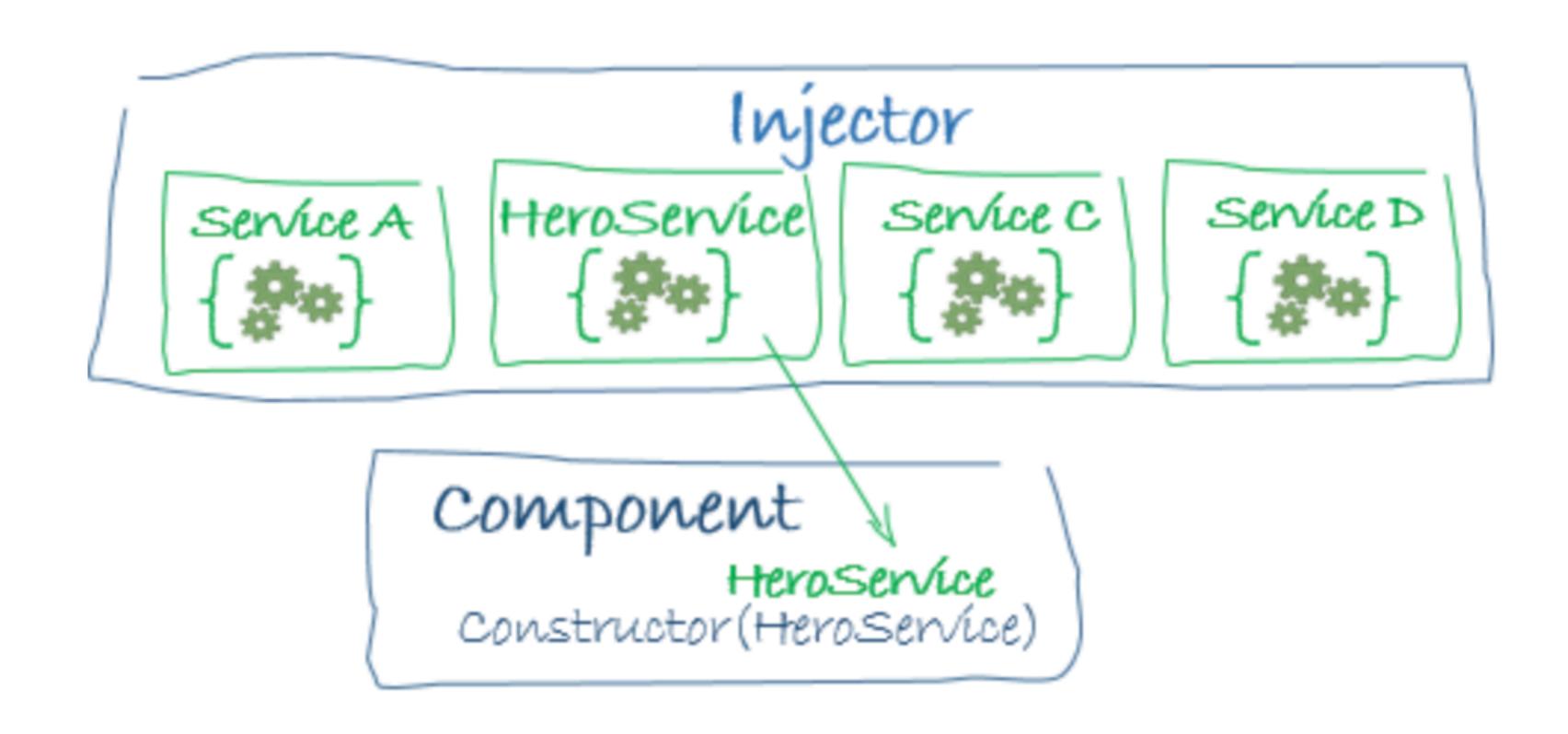


# SERVICE SERVIC

```
export class HeroService {
  private heroes: Hero[] = [];
  constructor(
   private backend: BackendService,
   private logger: Logger) { }
  getHeroes() {
   this.backend.getAll(Hero).then( (heroes: Hero[]) => {
     this.logger.log(`Fetched ${heroes.length} heroes.`);
     this.heroes.push(...heroes); // fill cache
   });
    return this.heroes;
```



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# HERE GOES!



