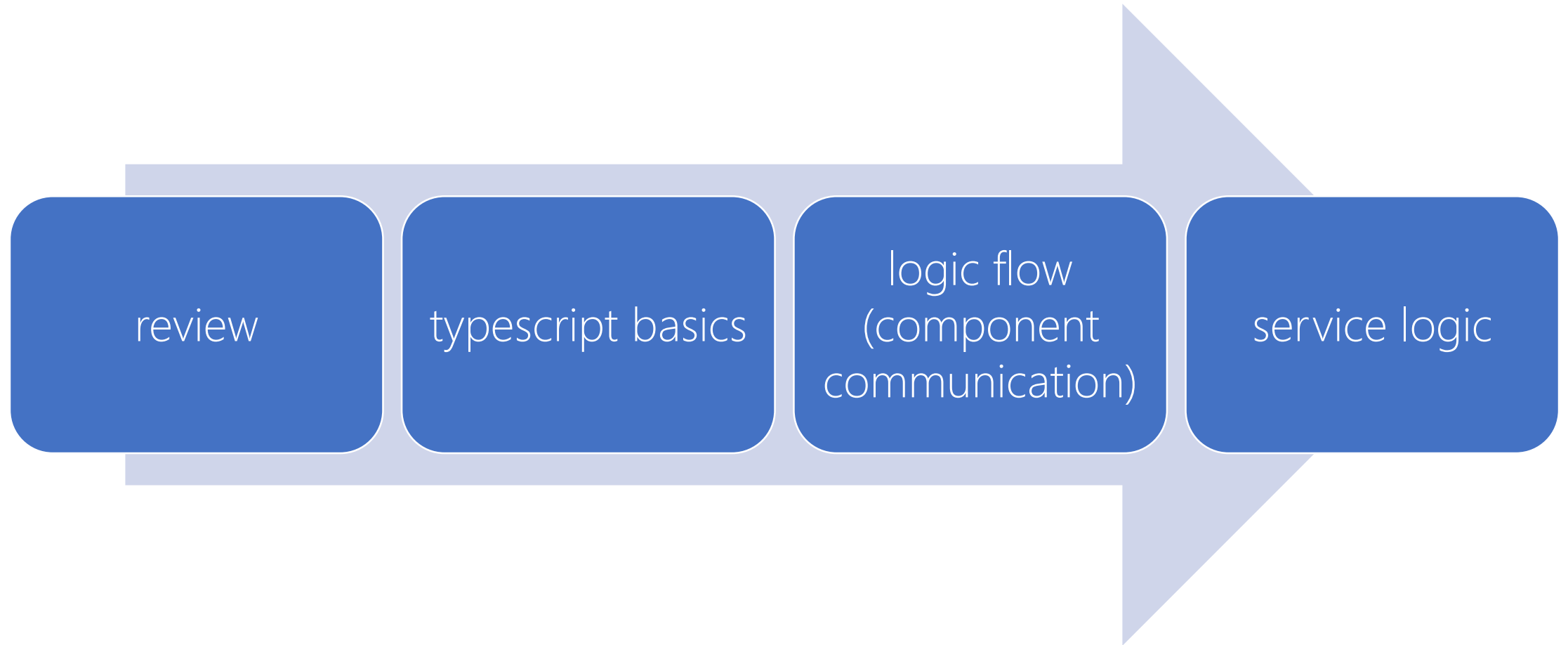




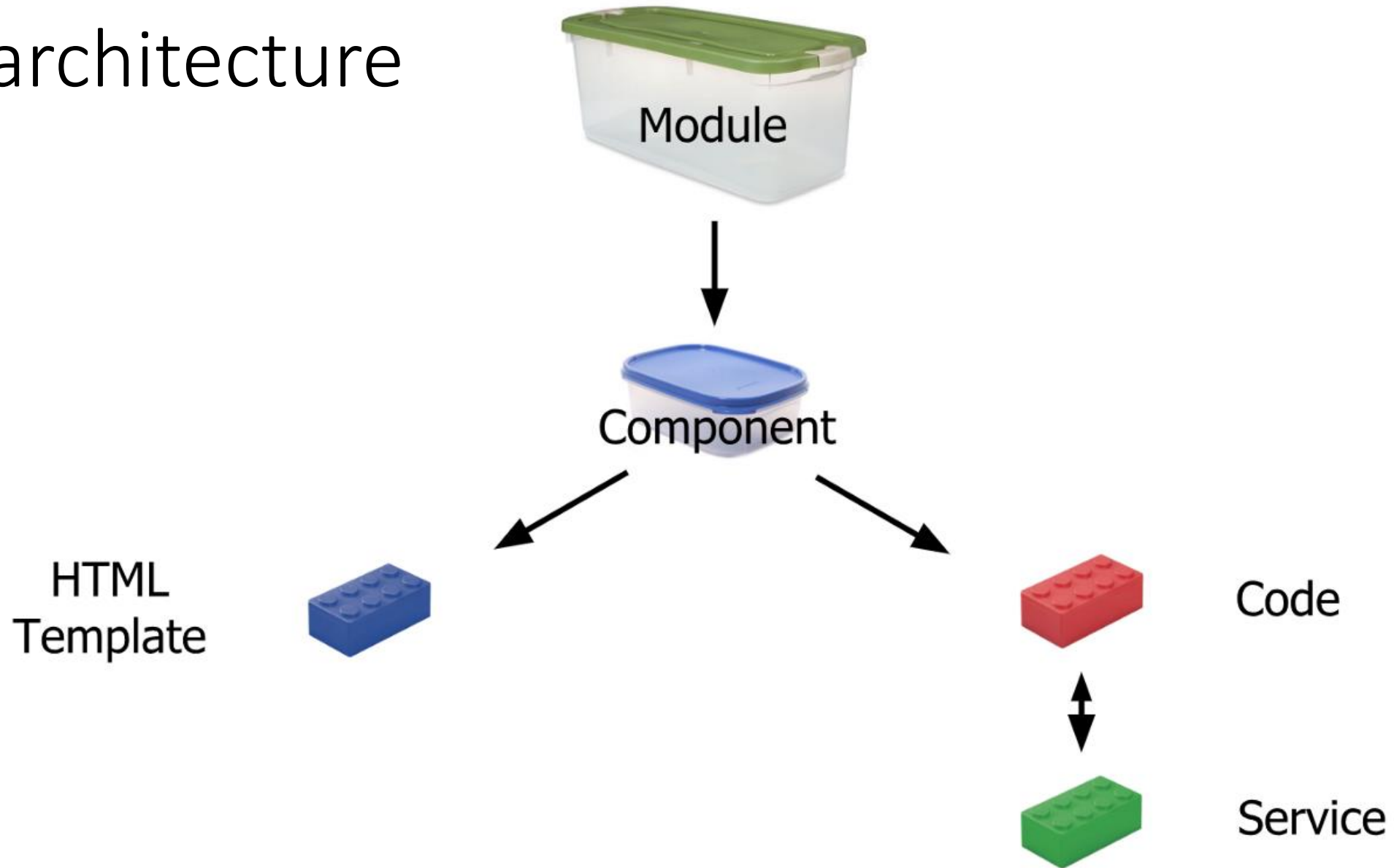
part 3

plan

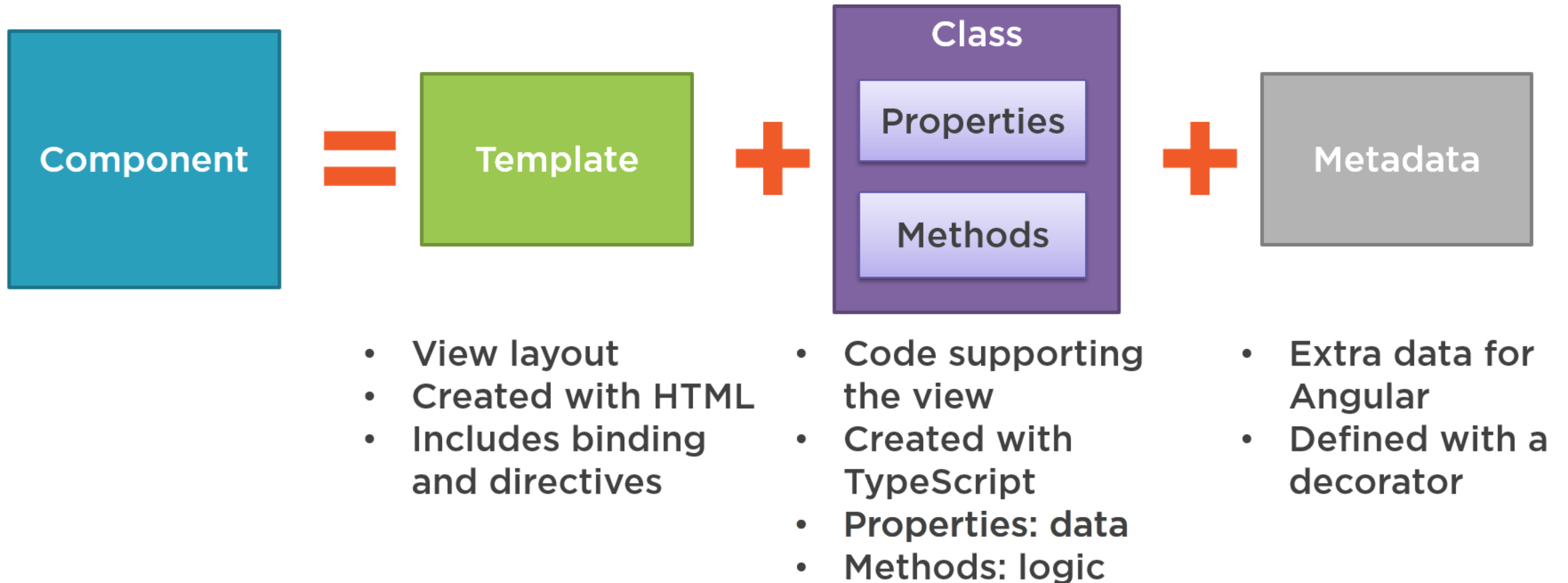




architecture



What Is a Component?



component data flows



DOM

`{{expression}}`

Interpolation

`[property] = "expression"`

One Way Binding

`(event) = "statement"`

Event Binding

`[(ngModel)] = "property"`

Two Way Binding



Component

component lifecycle

ngOnChanges input property value changes

ngOnInit Initialization step

ngDoCheck every change detection cycle

ngOnDestroy before destruction

constructor

ngOnChanges

ngOnInit

ngDoCheck

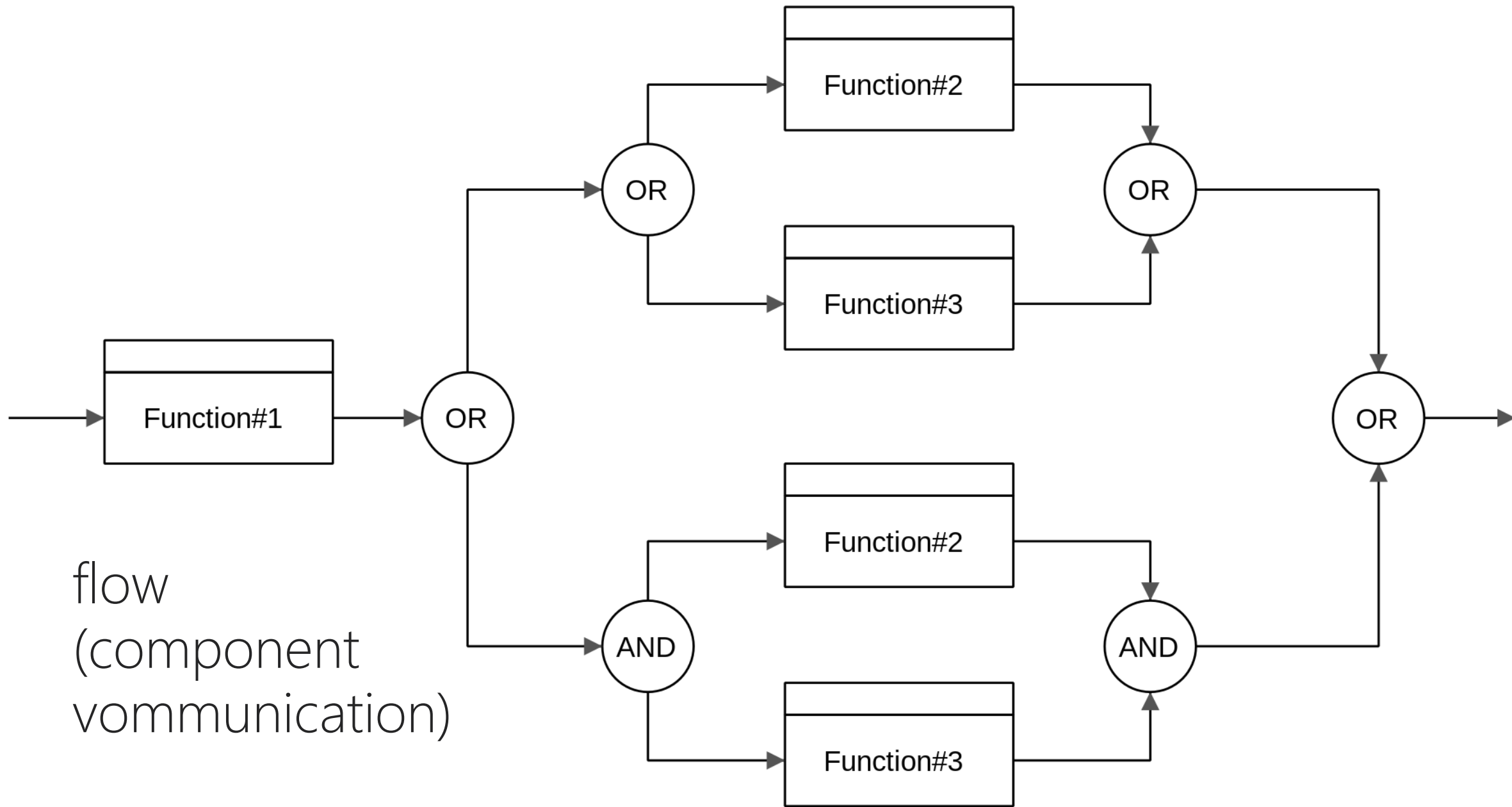
ngAfterContentInit

ngAfterContentChecked

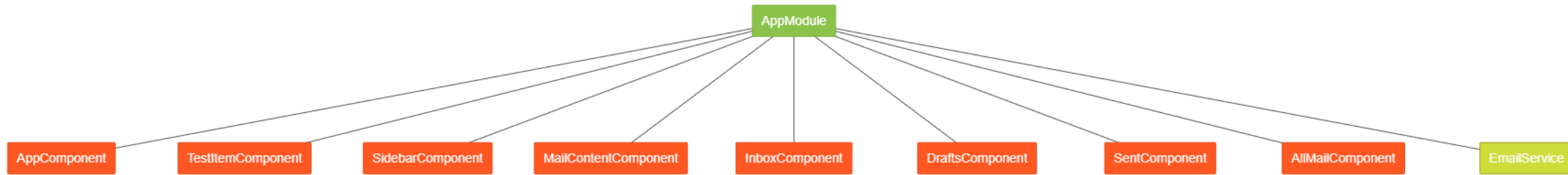
ngAfterViewInit

ngAfterViewChecked

ngOnDestroy



hierarchy of components



▼ AppComponent

SidebarComponent

▼ MailContentComponent

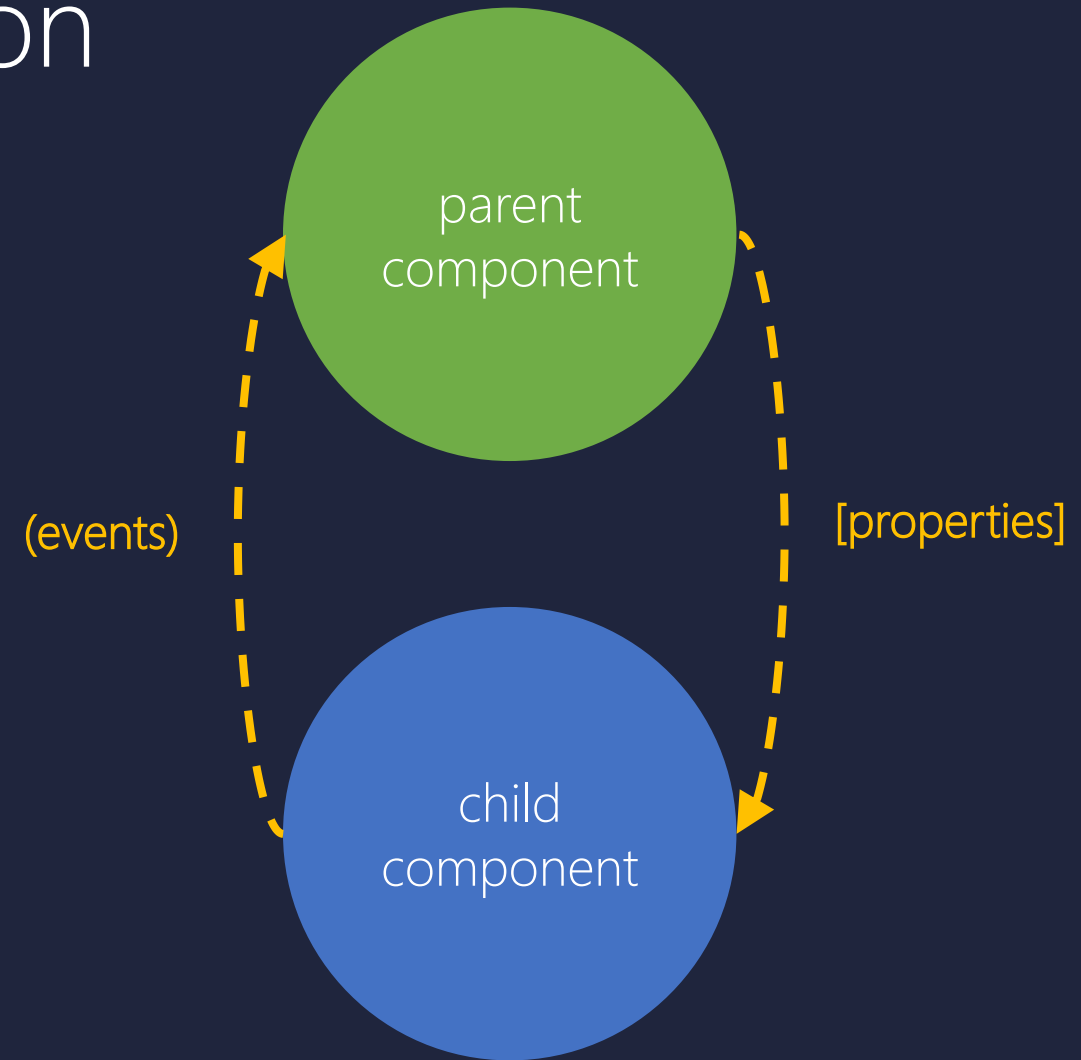
▼ InboxComponent

NgbAccordion

router-outlet

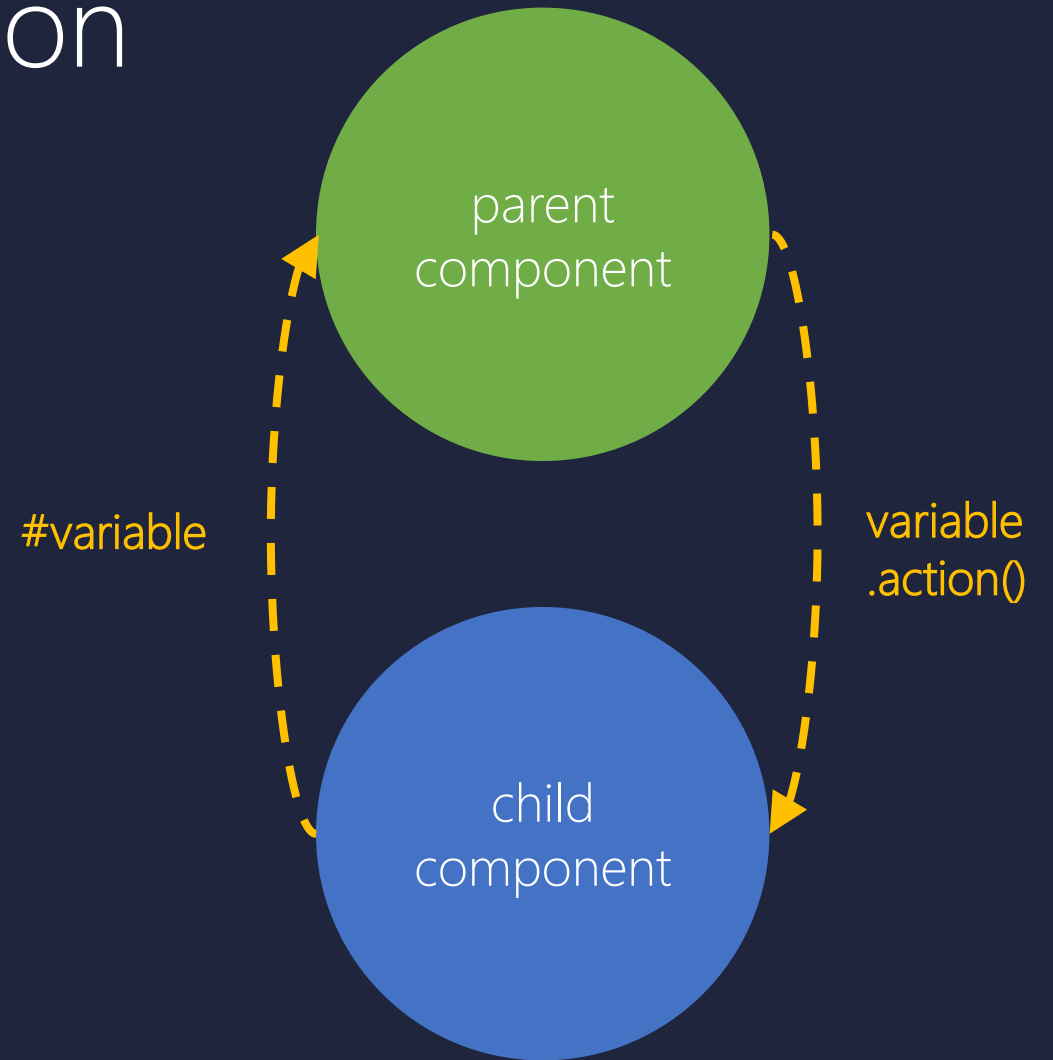
component communication

- passing data via **properties**
- emitting custom **events**



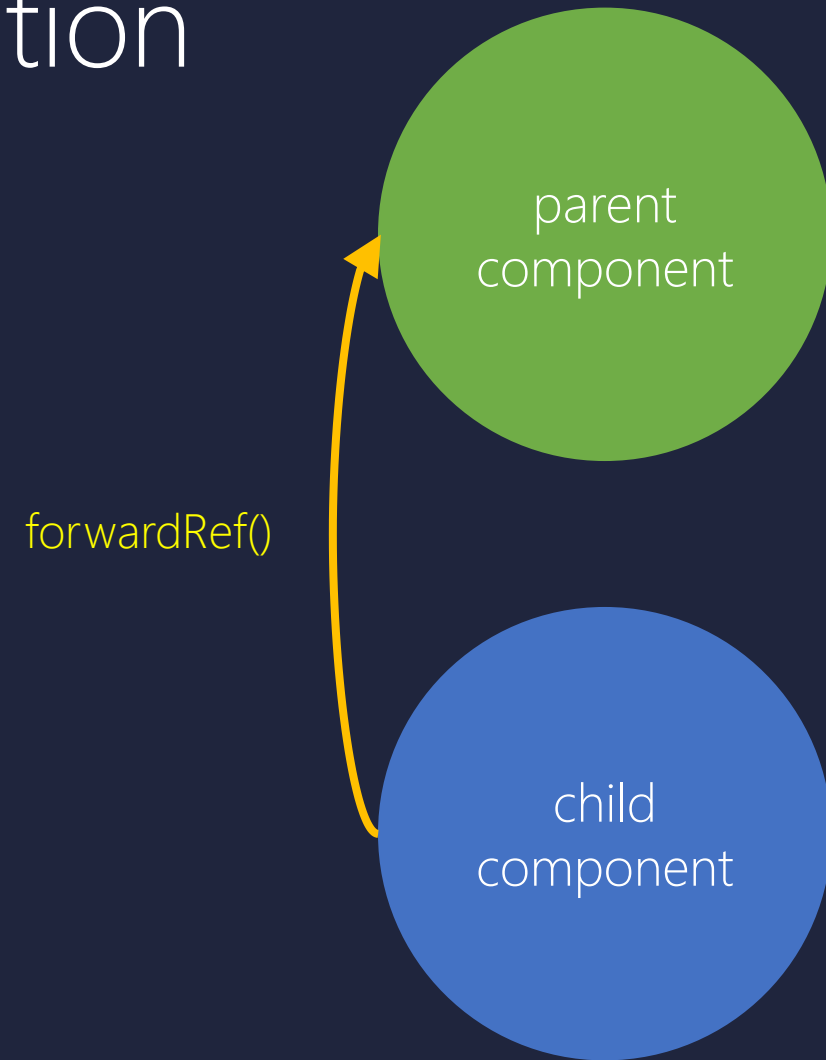
component communication

- referencing with a local **variable**
- **querying** child components
 - @ViewChildren(...)
 - @ContentChildren(...)



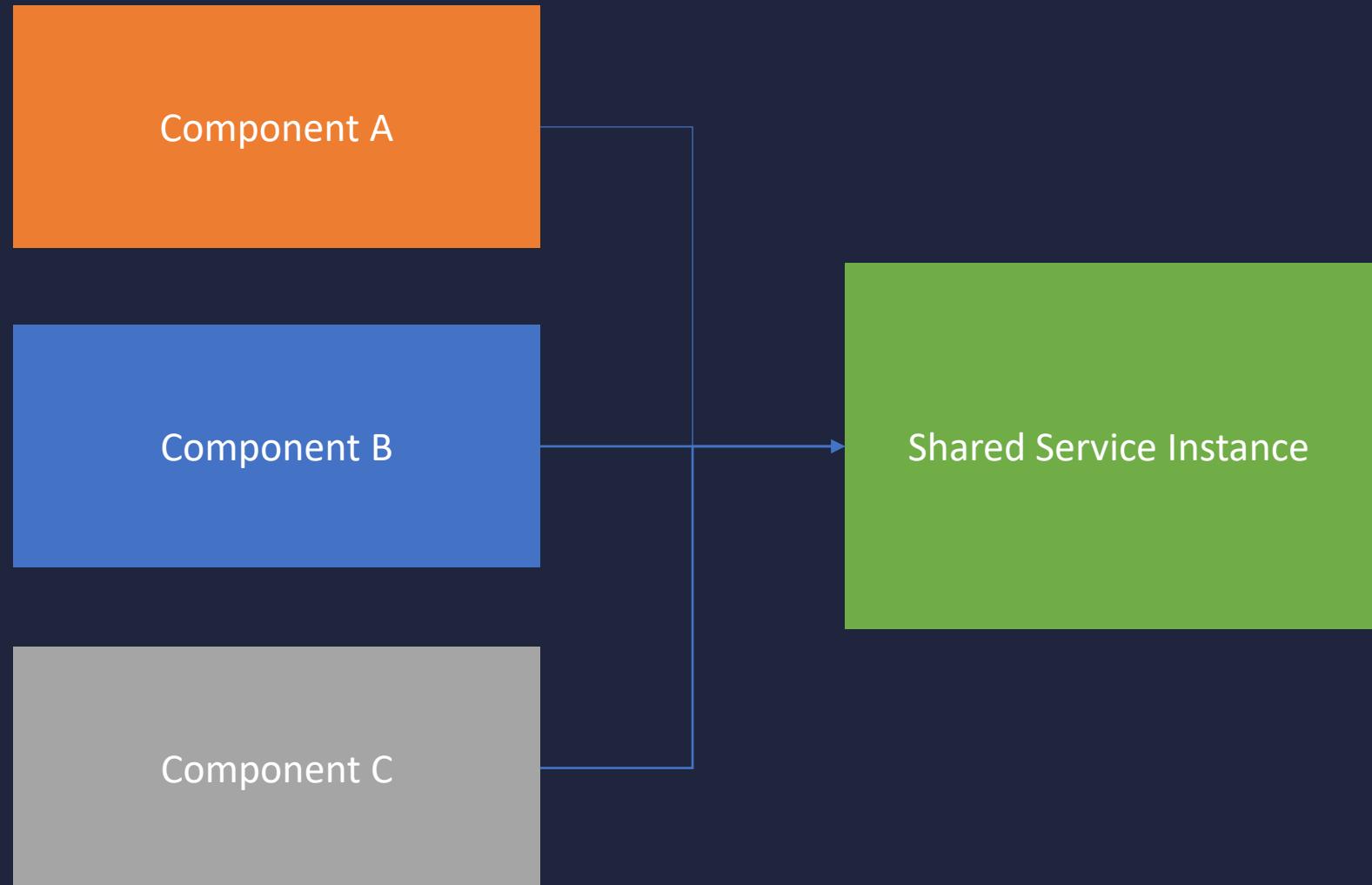
component communication

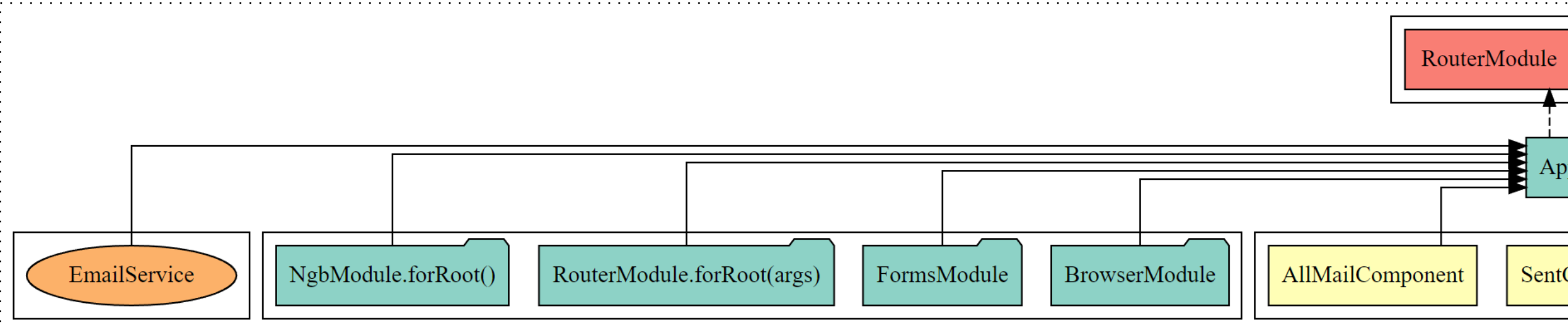
- dependency cycle with `forwardRef`



component communication

- via **service**

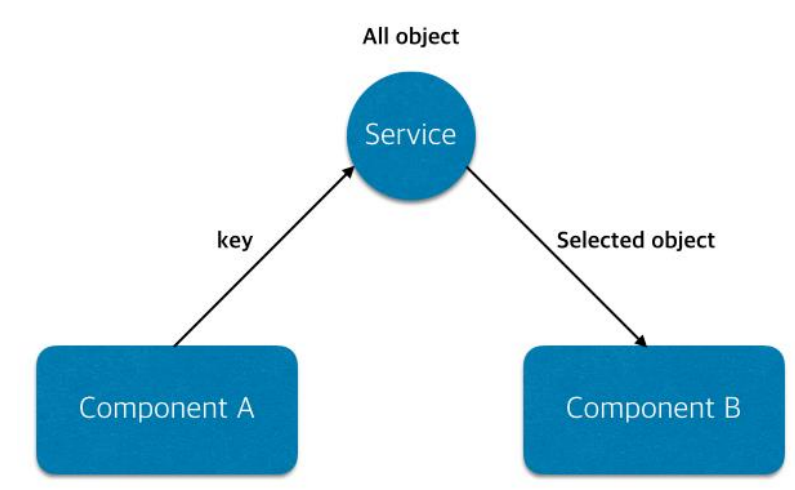




Legend

- Declarations
- Module
- BrowserModule

services



services

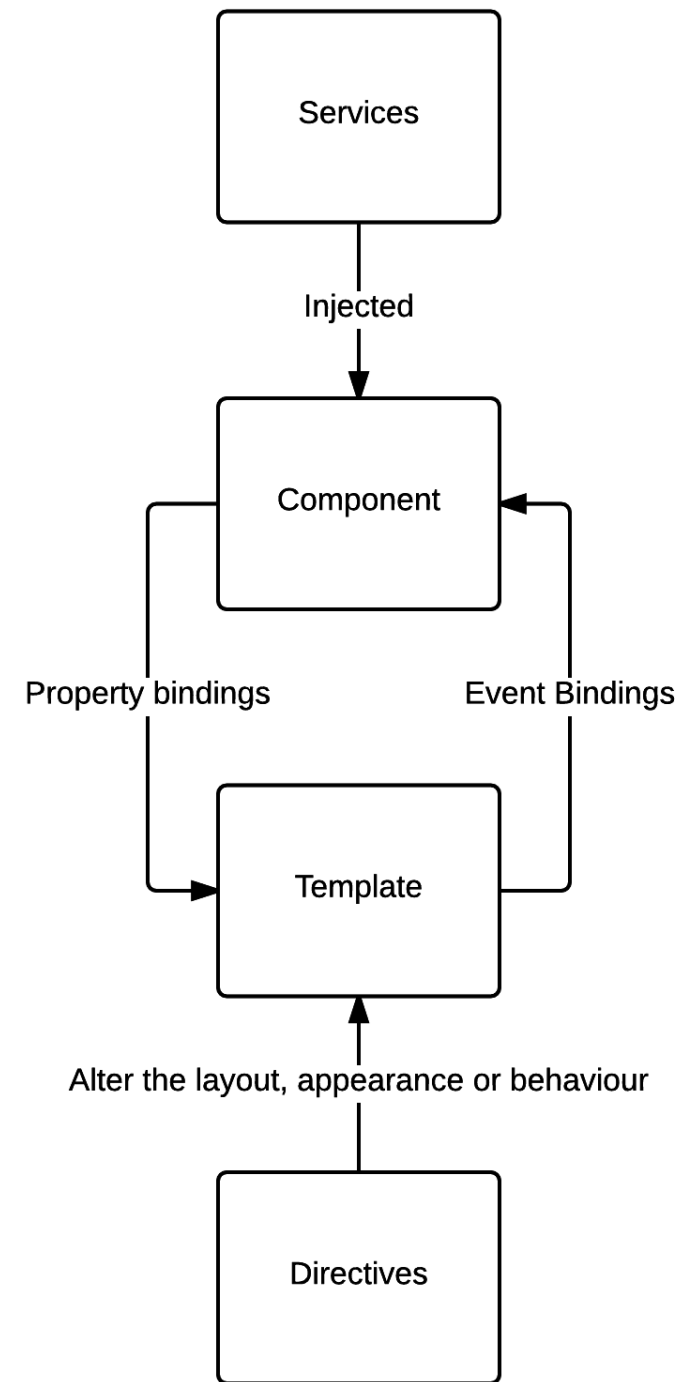
...are objects

simplify the structure of applications

with @Injectable decorator

classes declare dependencies on services

using constructor parameters



services

ng g service data

services

```
import { Injectable } from '@angular/core';
```

```
@Injectable()
```

```
export class DataService {  
  constructor() { }  
}
```

services

...

```
export class DataService {  
  private counter: number;  
  constructor() {  
    this.counter = 0;  
  }  
  action() {  
    this.counter++;  
  }  
}
```

services

...

```
import { DataService } from './data.service';
```

```
@NgModule({
```

...

```
  providers: [ DataService ],
```

...

```
)
```

services

...

```
import { DataService } from '../data.service';
```

```
@Component(...)
```

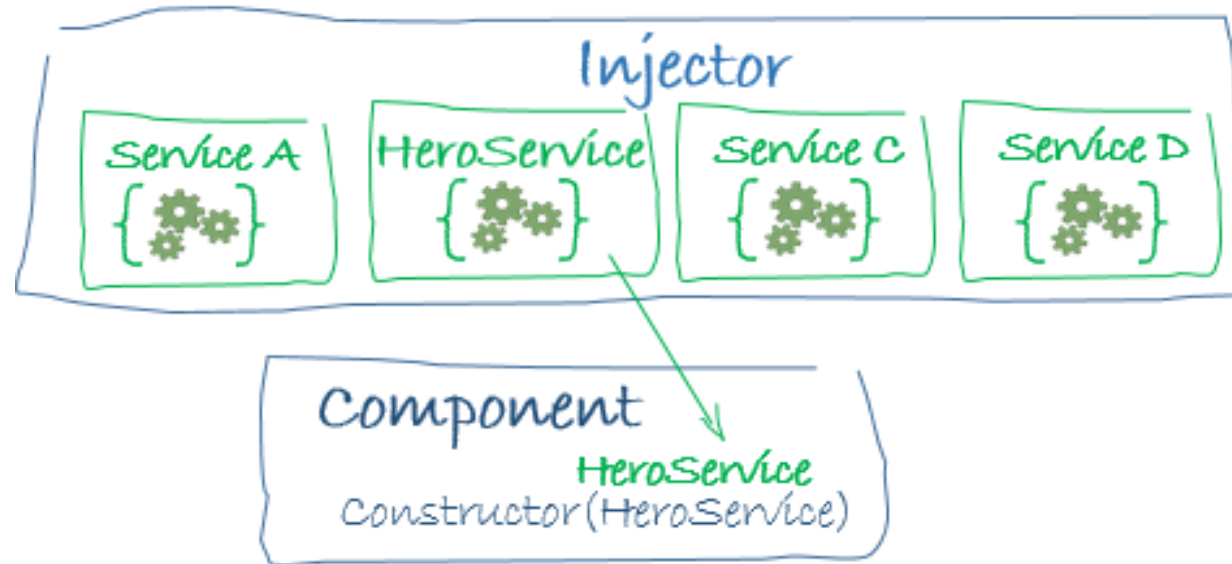
```
export class TestComponent implements OnInit {
```

```
    constructor(private dataService : DataService,  
                 private testService: TestService) { }
```

```
    ...
```

```
}
```

service injection





<https://github.com/Banndzior>

#slack

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