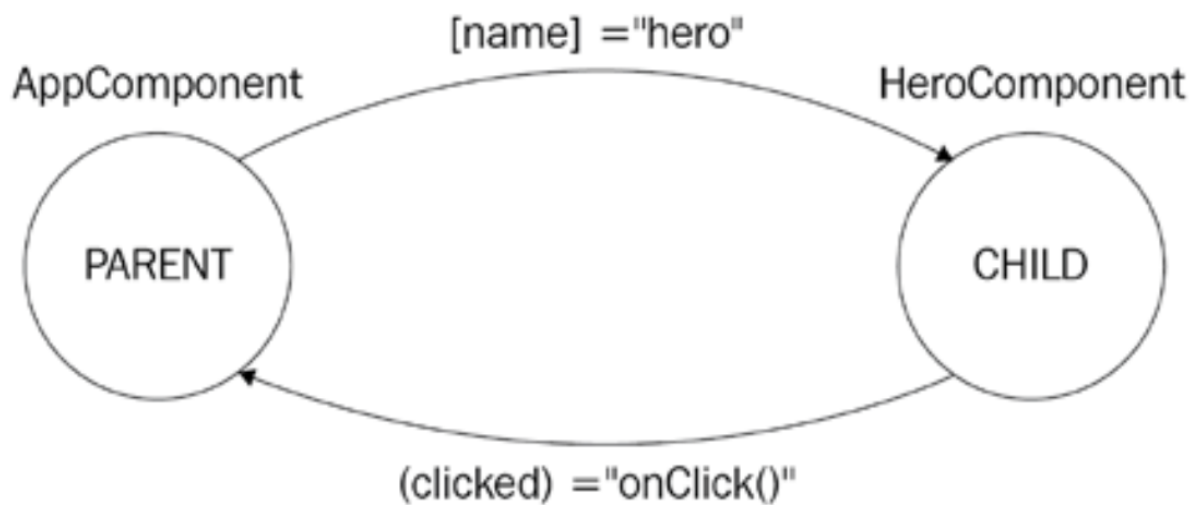


#angular: Communicate with other components

We will take this communication as parent child communication. There are 2 cases:

Case 1: When a parent wants to send some data to the child.

Case 2: When a child wants to call some callback function from a parent component triggered on some event occurred in the child.



**Case 1: When a parent wants to send some data to the child.**

following code will go into child component:

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

```
@Input() name: string;
```

```
<p>{{name}} hero works!</p>
```

- Above lines of code shows a setup for a child.
- In the child component we use `@Input` decorator for the property name which we are expecting to get from the parent component.
- So, in this case we are getting the "name" value from the parent component and using it in the child component to display the value.

following code will go into parent component template file:

```
<app-hero name="Boothstomper"></app-hero>
```

Or

```
<app-hero [name]=" 'Boothstomper' "></app-hero>
```

- I hope you understand the difference between the above two lines.
- Actually we are passing data from the parent component template file to the child component.

**Case 2: When a child wants to call some callback function from a parent component triggered on some event occurred in the child.**

following code will go into child component:

```
import { Output, EventEmitter } from '@angular/core';
```

```
@Output() liked = new EventEmitter();
```

```
<button (click)="liked.emit()">Like</button>
```

- Above lines of code shows a setup for a child.
- We are setting a child component button element to emit an event when we click it.
- We use @Output decorator in front of a property name which we want to emit.
- So, in this case we will emit the event like when we click the button in the child component.

following code will go into parent component:

```
<app-hero (liked)="onLike()"></app-hero>
```

```
onLike() {  
  window.alert(`I like ${this.hero}`);  
}
```

- So in the parent component we receive the event “liked” and attach it to the onLike() callback function.

- This onLike() function is defined in component.ts file in parent component.

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