


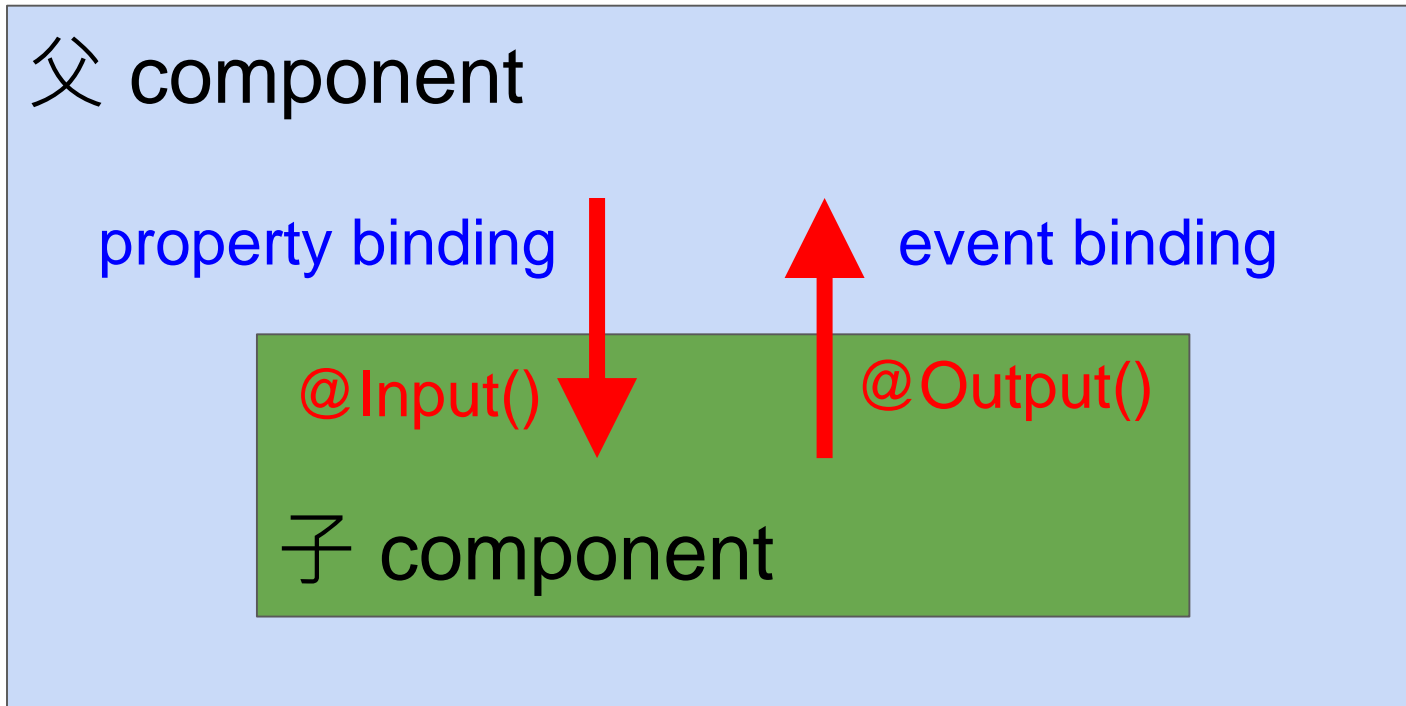
# 父子 Component 之通訊

@Input() 、 @output() 篇

## 父子 component 間之通訊方式

- 通過 @Input() 、 @Output()
  - 父層通過 property binding 將資料傳進子層，子層通過 @Input() 接收
  - 子層通過 @Output() 將資料傳出，父層通過 event binding 接收
- 通過 service  本文不討論
  - 資料交換
  - 共享資料

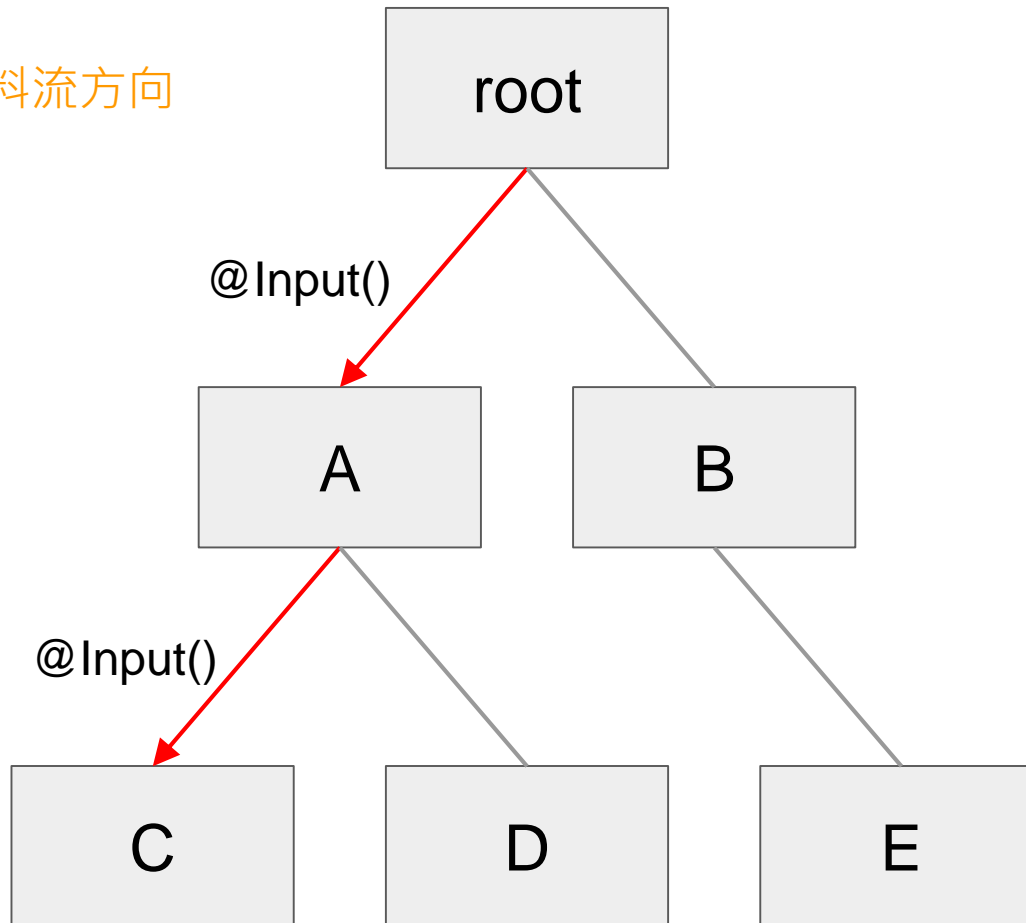
# @Input() · @Output()



Input 與 Output 是從子 component 的角度來看的

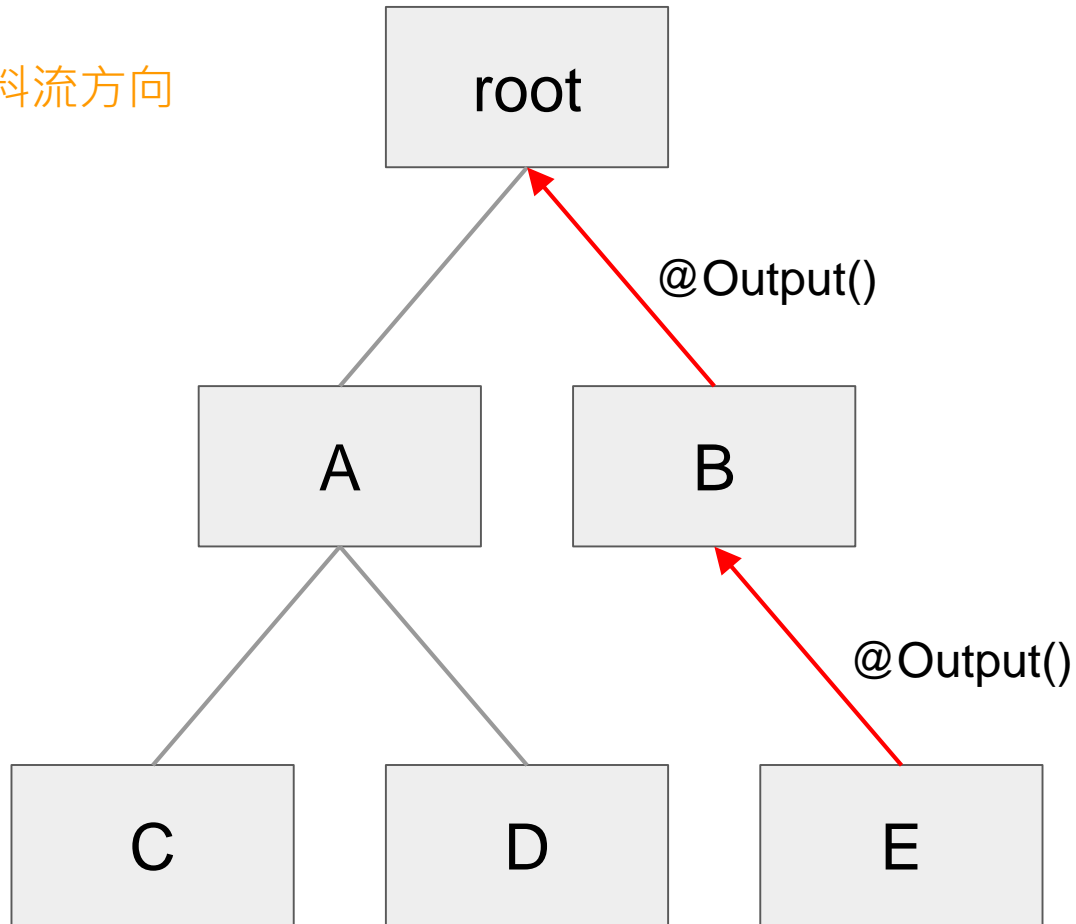
# @Input()、@Output()

箭頭方向為資料流方向



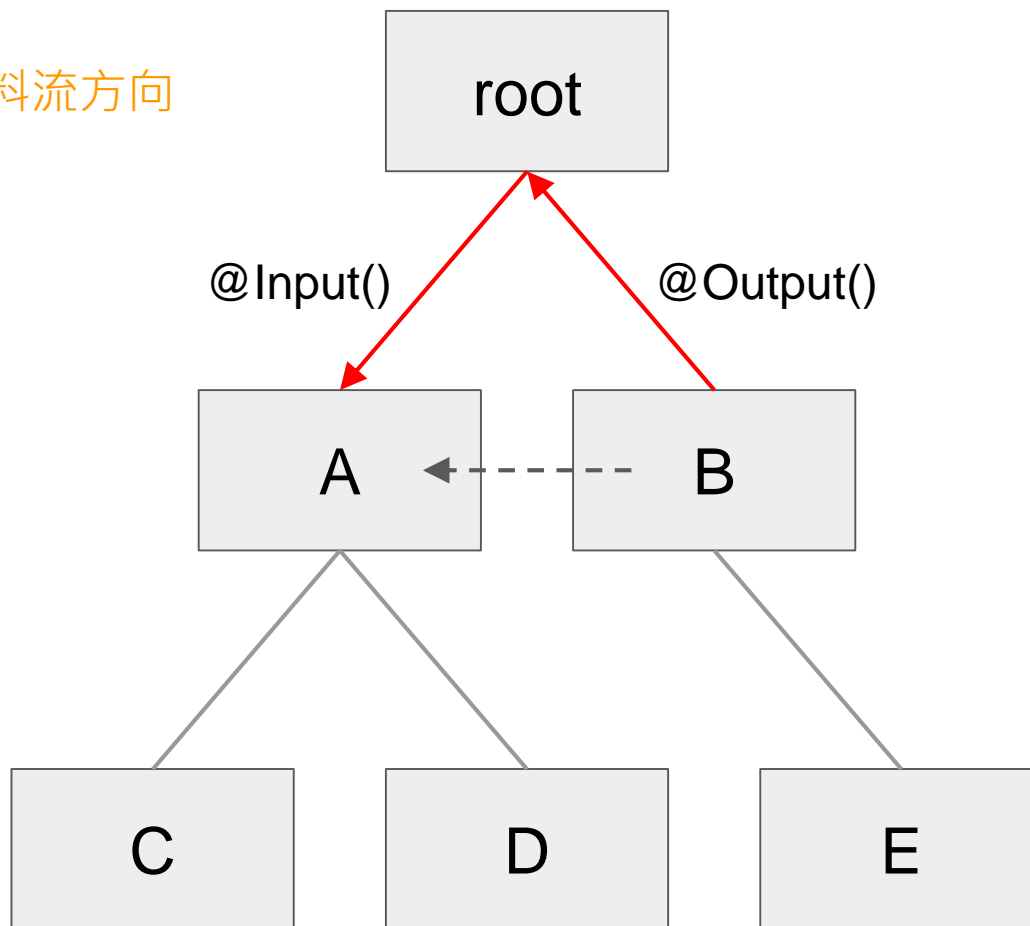
# @Input()、@Output()

箭頭方向為資料流方向



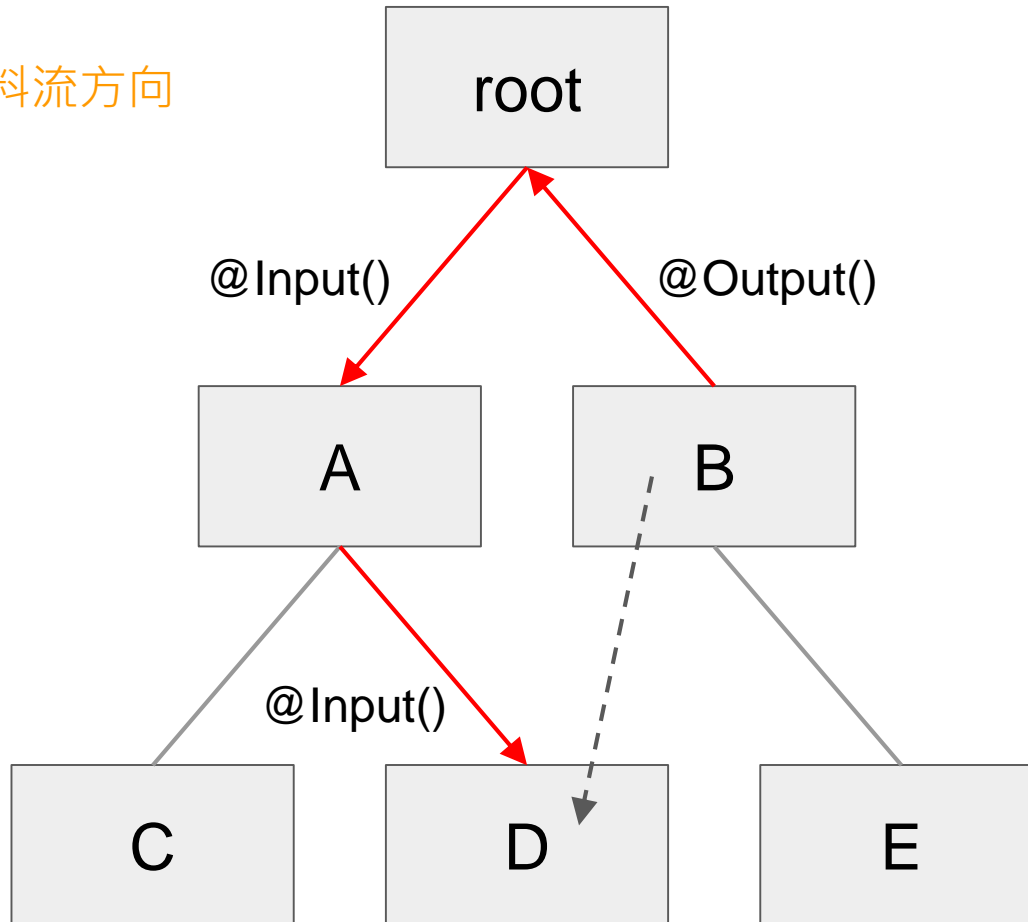
# @Input()、@Output()

箭頭方向為資料流方向



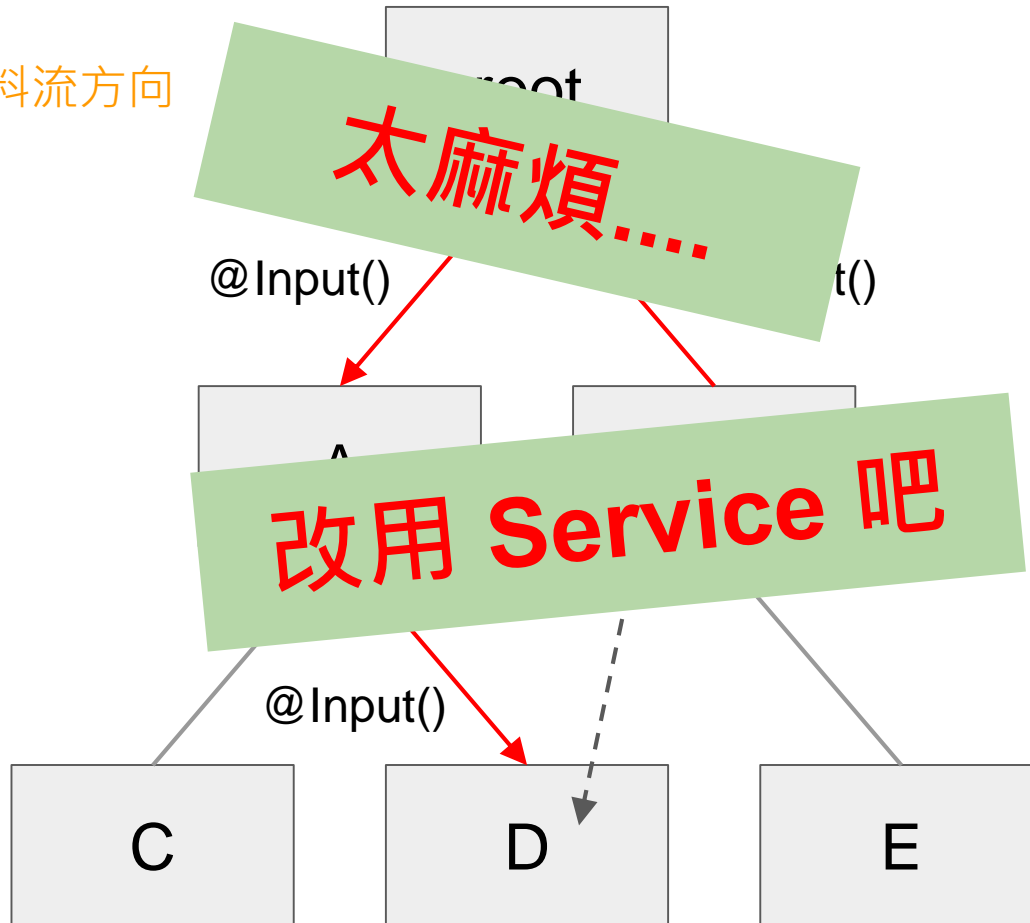
# @Input()、@Output()

箭頭方向為資料流方向



# @Input()、@Output()

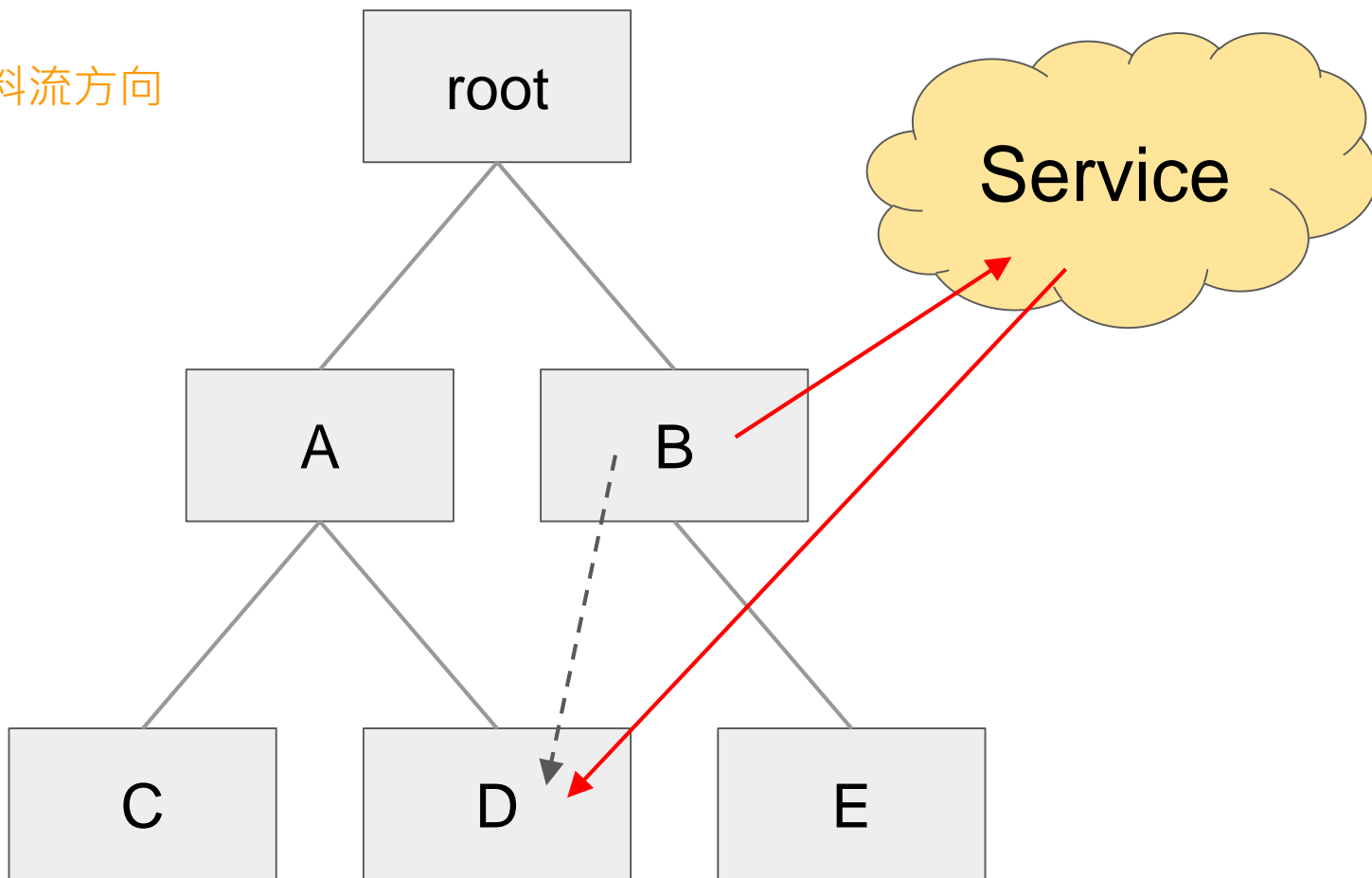
箭頭方向為資料流方向





# 使用 Service 進行通訊概念圖

箭頭方向為資料流方向



## 範例 : *child.component.ts*

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

@Component({
  selector: 'app-child',
  templateUrl: './child.component.html',
  styleUrls: ['./child.component.css']
})
export class ChildComponent {
  @Input() title = 'Default title';
  @Output() clicked = new EventEmitter<string>();

  onClick() {
    this.clicked.emit('clicked in child component');
  }
}
```


## 範例：child.component.html

```
<h1>I am child component</h1>
```



```
<button (click)="onClick()">click me</button>
```

## 範例： `child.component.css`

```
    :host {  
      display: block;  
      background-color: bisque;  
      width: 80%;  
       margin: 0 auto;  
      padding: 10px;  
    }
```

## 範例：app.component.ts (parent)

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

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})

export class AppComponent {
  childClicked(msg: string) {
    console.log(`message from child: ${msg}`);
  }
}
```

## 範例：app.component.html (parent)

```
<h1>I am parent</h1>
```

```
<app-child [title]=" 'Title from parent' "  
(clicked)="childClicked($event)"></app-child>
```

## 範例：app.component.css (parent)

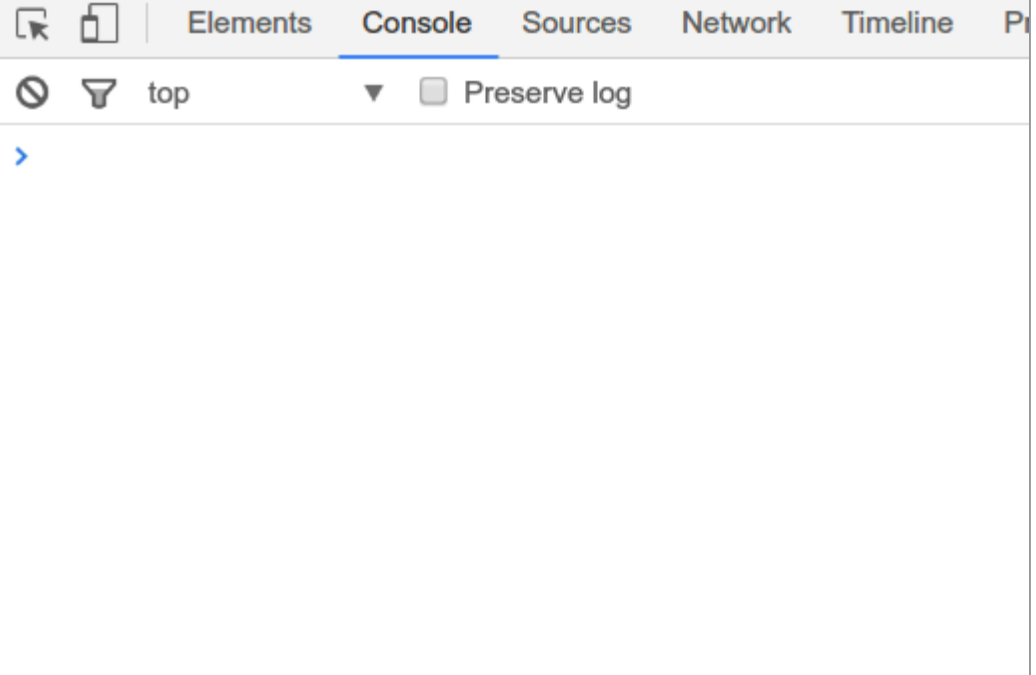
```
:host {  
  display: block;  
  background-color: aqua;  
  height: 300px;  
  padding: 10px;  
}
```

# Demo

**I am parent**

**I am child component**

click me



Elements Console Sources Network Timeline P

top Preserve log

>



END