



Angular Extended Module – Design patterns

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WORLDWIDE LOCATIONS

1. Content projection

2. Smart components / View Components

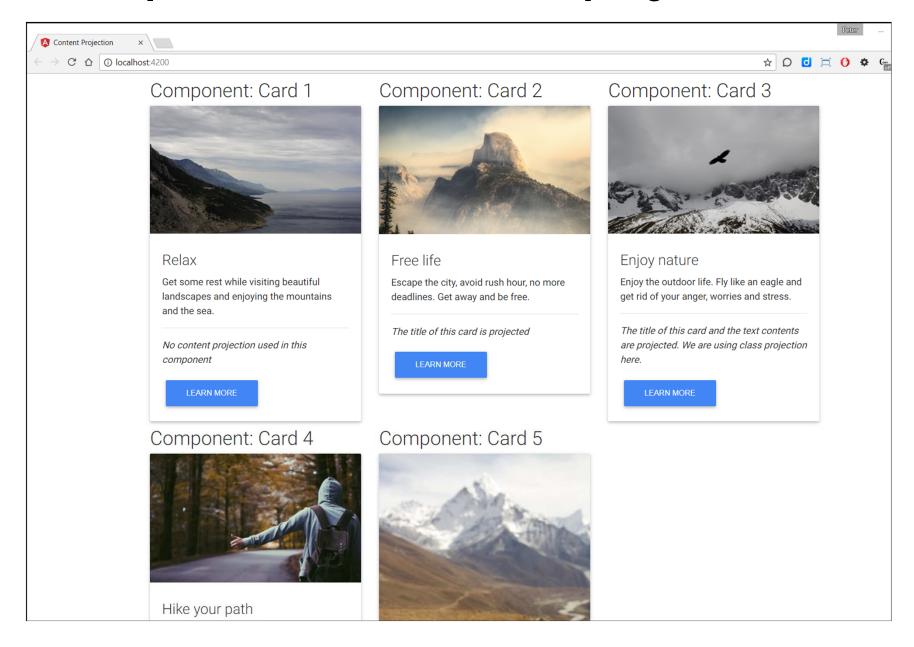
1. What is Content Projection

- Re-use of content inside of components
- Often used when you create components to be used by others

Simple use:

- Attribute binding to pass data into components [prop]="data"
- Event binding to get data out of components
 (event)="handler()"

Examples ../130-content-projection



1. Simple content projection:

```
In the parent component:

<app-card2>
   Free life
</app-card2>
```

```
In the child component:

<h4 class="card-title">
     <ng-content></ng-content>
  </h4>
```

2. Content projection based on CSS-class

```
In the parent component:

<app-card3>

Enjoy...
</app-card3>
```

3. Content projection based element selector

```
In the child component:

<ng-content
    select="img.card-photo">
</ng-content>
```

3a. Alternative: Content projection based on attribute

```
In the child component:

<ng-content
   select="[myAttribute]">
   </ng-content>
```

4. Based on custom component

- Create an extra component (here: <app-newsletter>)
- Use content projection based on element selector
- Extra: submit events from nested component back to parent

```
<!-- nested component, projected from parent component -->
<ng-content select="app-newsletter"></ng-content>
```

Verdict

- Use Content Projection, to present VIEW information inside the component
 - Again: mostly used on redistributable components
- Use @Input() and @Output() decorators for logic of the component

Workshop

- Create a new, custom button component (<my-button>)
- The contents of that button are:
 - General attributes: background red, 180x65px, 2px border solid black
 - An icon (save, login, profile, etc)
 - Text ('save', 'login', 'profile', etc)
- Each component instance should have the same general layout,
 but different contents that is projected inside the button
 component
 - Text
 - Icon

Workshop

- Open .../130-content-projection for examples, or use your own app
- Create a new component
- Use <ng-content> to project content from outside into the component.
- Add an <ng-content> class selector. Use it from the outside component.
- Add an <ng-content> element selector. Use it from the outside
 - component.
- Create another component and nest it inside your child component. Use the element selector to project it. Optional: Propagate events up