Angular Advanced
03 – Content Projection

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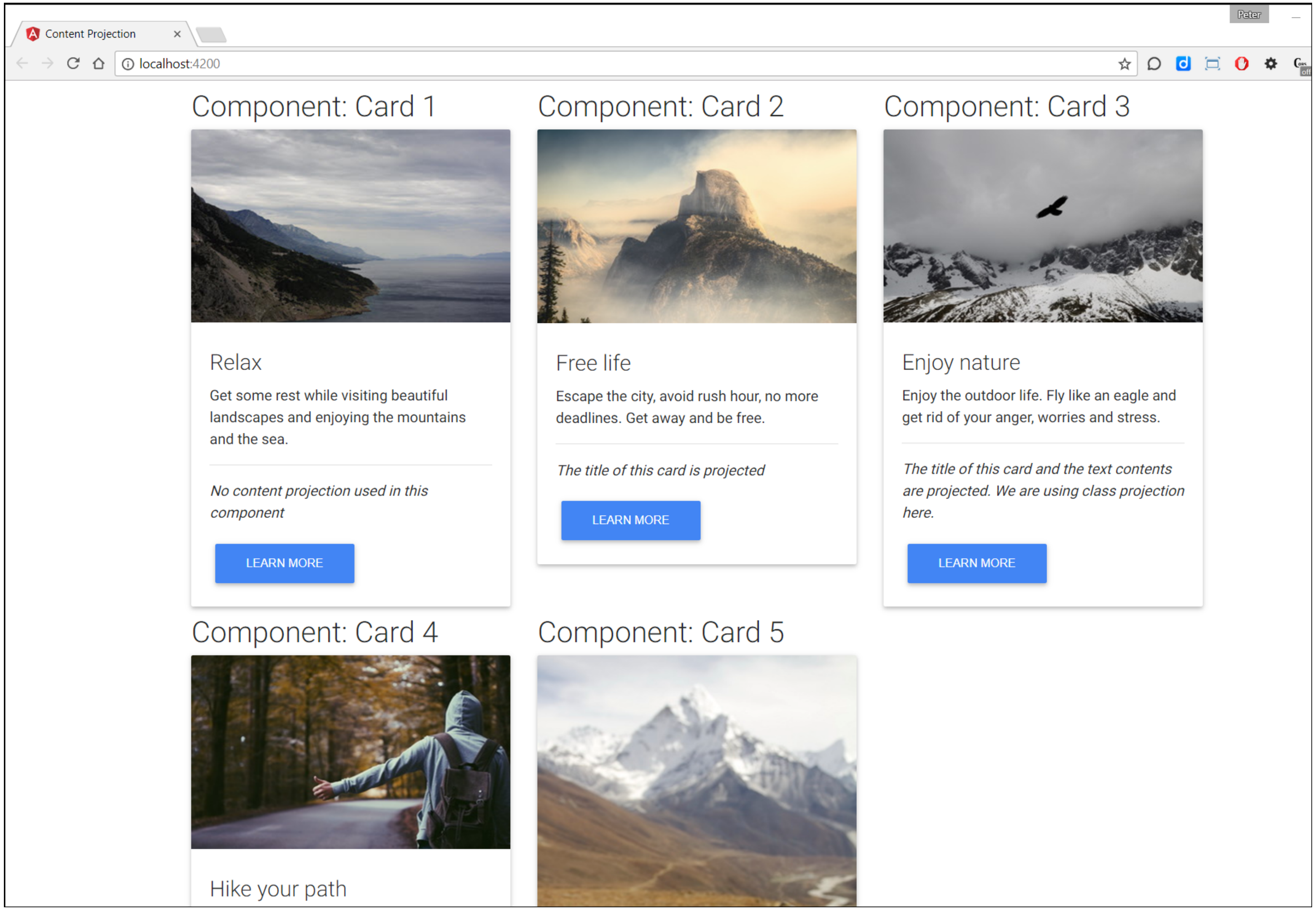
What is Content Projection

- 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



Component: Card 1

Relax

Get some rest while visiting beautiful landscapes and enjoying the mountains and the sea.

No content projection used in this component

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Component: Card 2

Free life

Escape the city, avoid rush hour, no more deadlines. Get away and be free.

The title of this card is projected

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Component: Card 3

Enjoy nature

Enjoy the outdoor life. Fly like an eagle and get rid of your anger, worries and stress.

The title of this card and the text contents are projected. We are using class projection here.

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Component: Card 4

Hike your path

Component: Card 5

1. Simple content projection:

```
<my-component>
    I want to re-use this text
</my-component>
```

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>

<p class="card-text">Enjoy...</p>

</app-card3>
```

```
In the child component:

<ng-content
    select=".card-text">

</ng-content>
```

3. Content projection based element selector

```
In the parent component:

<app-card4>
   <img class="card-photo"
      src="assets/img/photo-04.jpg">
    …

</app-card4>
```

```
In the child component:

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

4. Based on custom component

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

```html
<div>
   <label>
      <input type="checkbox" (change)="onChange($event.target.checked)">
      Subscribe to newsletter!
   </label>
</div>
```

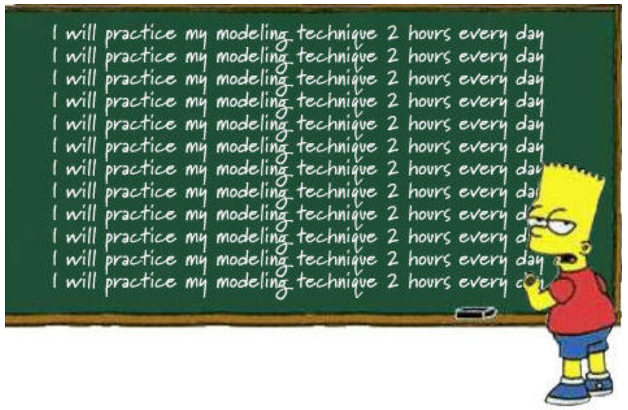
```typescript
export class NewsletterComponent {

   @Output() checked: EventEmitter<boolean> = new EventEmitter<boolean>();

   onChange(value: boolean) {
      this.checked.emit(value)
   }
}
```

```
In parent Component:

<app-card5>
   …
   <app-newsletter (checked)="onChecked($event)">
   </app-newsletter>
   …
</app-card5>

…handle event on parent component class
```

```
<!-- nested component, projected from parent component -->

<ng-content select="app-newsletter"></ng-content>
```

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


I will practice my modeling technique 2 hours every day
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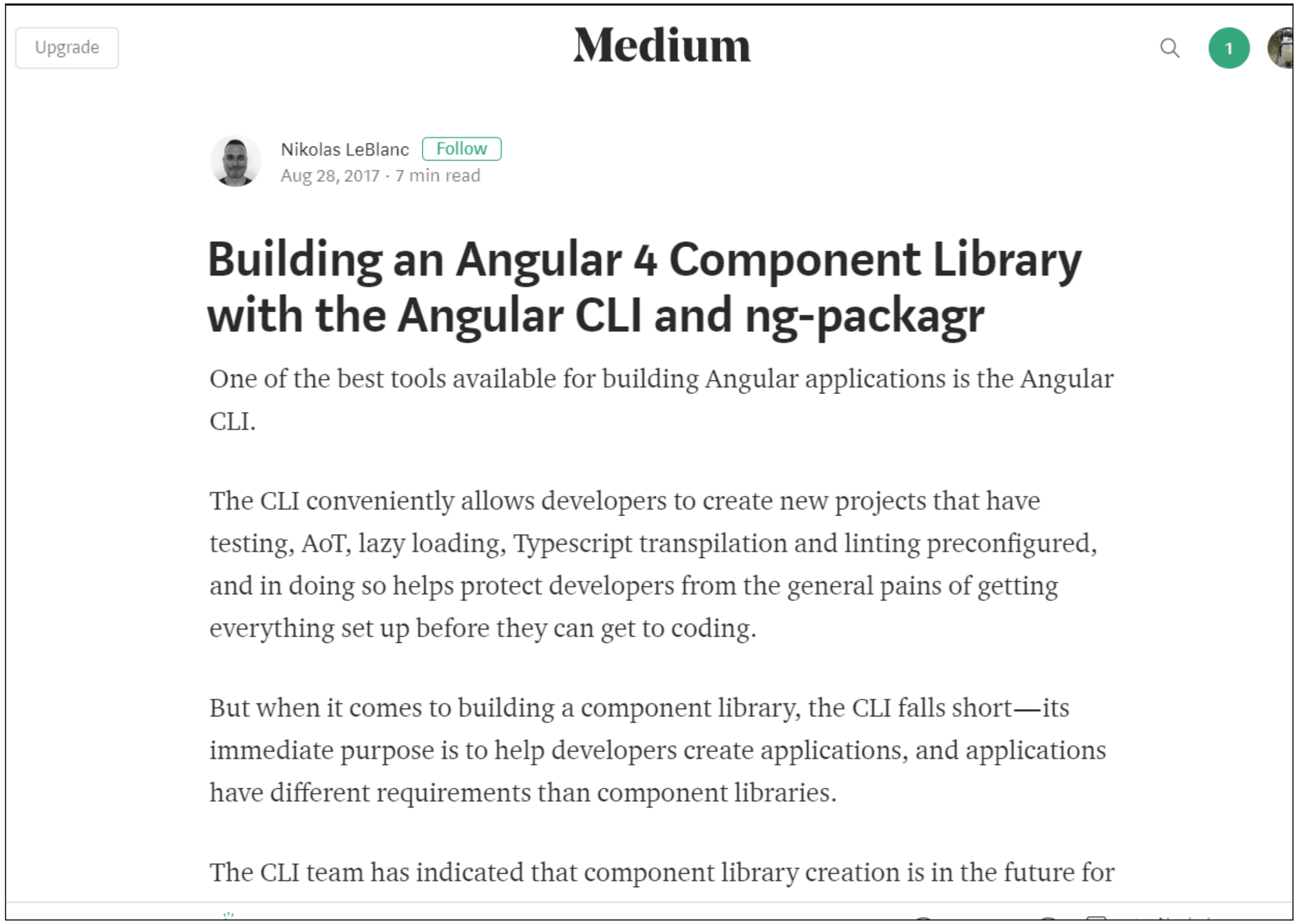
More info

- Building an Angular Component Library



Nikolas LeBlanc
Aug 28, 2017 · 7 min read

Building an Angular 4 Component Library with the Angular CLI and ng-packagr

One of the best tools available for building Angular applications is the Angular CLI.

The CLI conveniently allows developers to create new projects that have testing, AoT, lazy loading, Typescript transpilation and linting preconfigured, and in doing so helps protect developers from the general pains of getting everything set up before they can get to coding.

But when it comes to building a component library, the CLI falls short—its immediate purpose is to help developers create applications, and applications have different requirements than component libraries.

The CLI team has indicated that component library creation is in the future for

https://medium.com/@nikolasleblanc/building-an-angular-4-component-library-with-the-angular-cli-and-ng-packagr-53b2ade0701e

Angular Component Dev Kit, CDK

- https://material.angular.io/cdk ... (?? Not working at the time of writing)