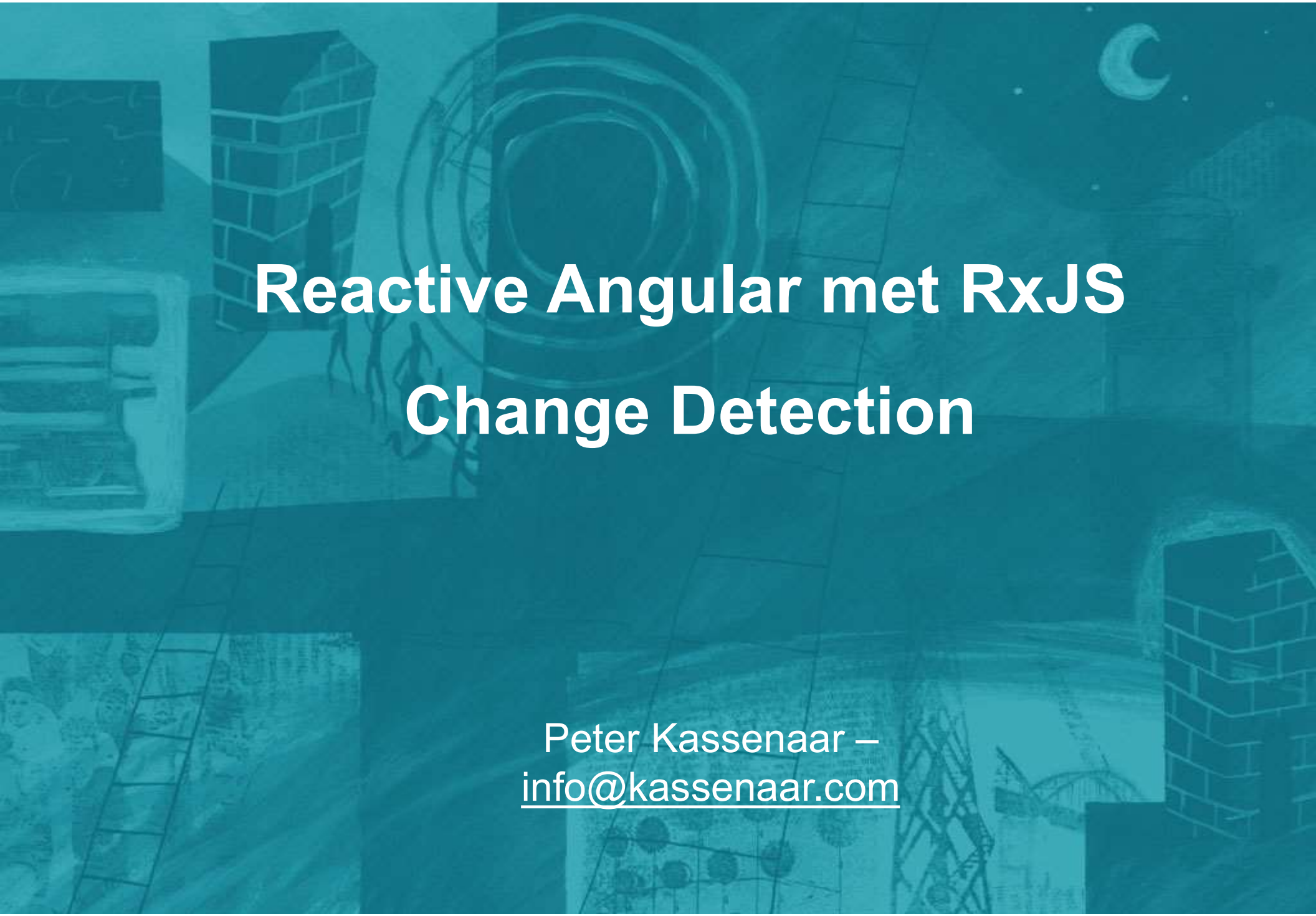

Reactive Angular met RxJS Change Detection

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What is Change Detection

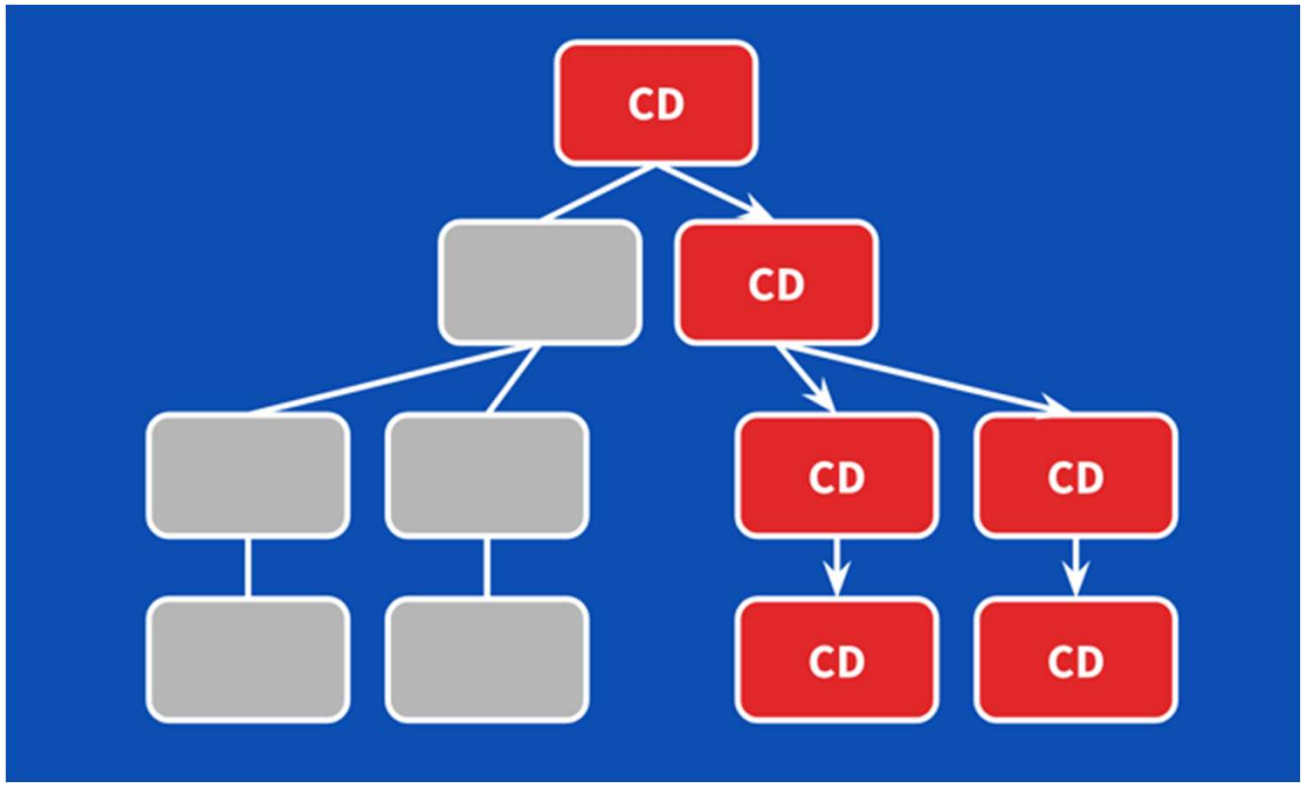
- Angular performs *Change Detection* every time something changes:
  - In the View (mouseclick, mousemove, etc)
  - In the controller (data change, network request, subscription, etc)
- The view gets updated with changes in the model,
- The model gets updated with changes in the view
  - Changes are propagated to child components!

Where's the problem?

CD can be costly in bigger apps with lots of nested components!

Extra – about Change detection

- Angular uses zone.js to perform change Detection
- Angular has some strategies to optimize CD

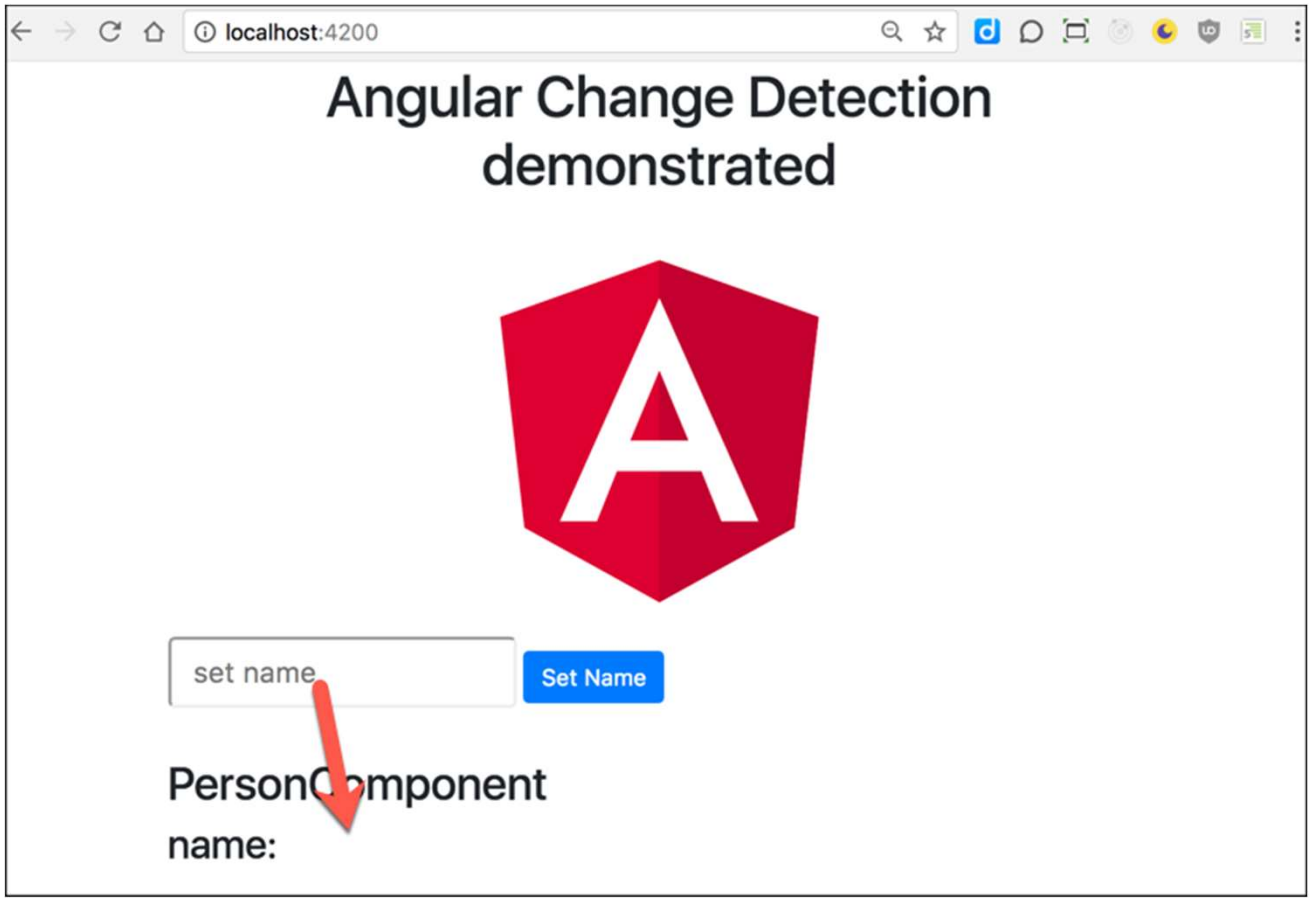


Using CD

- `changeDetection: ChangeDetectionStrategy.OnPush` in component decorator

Example

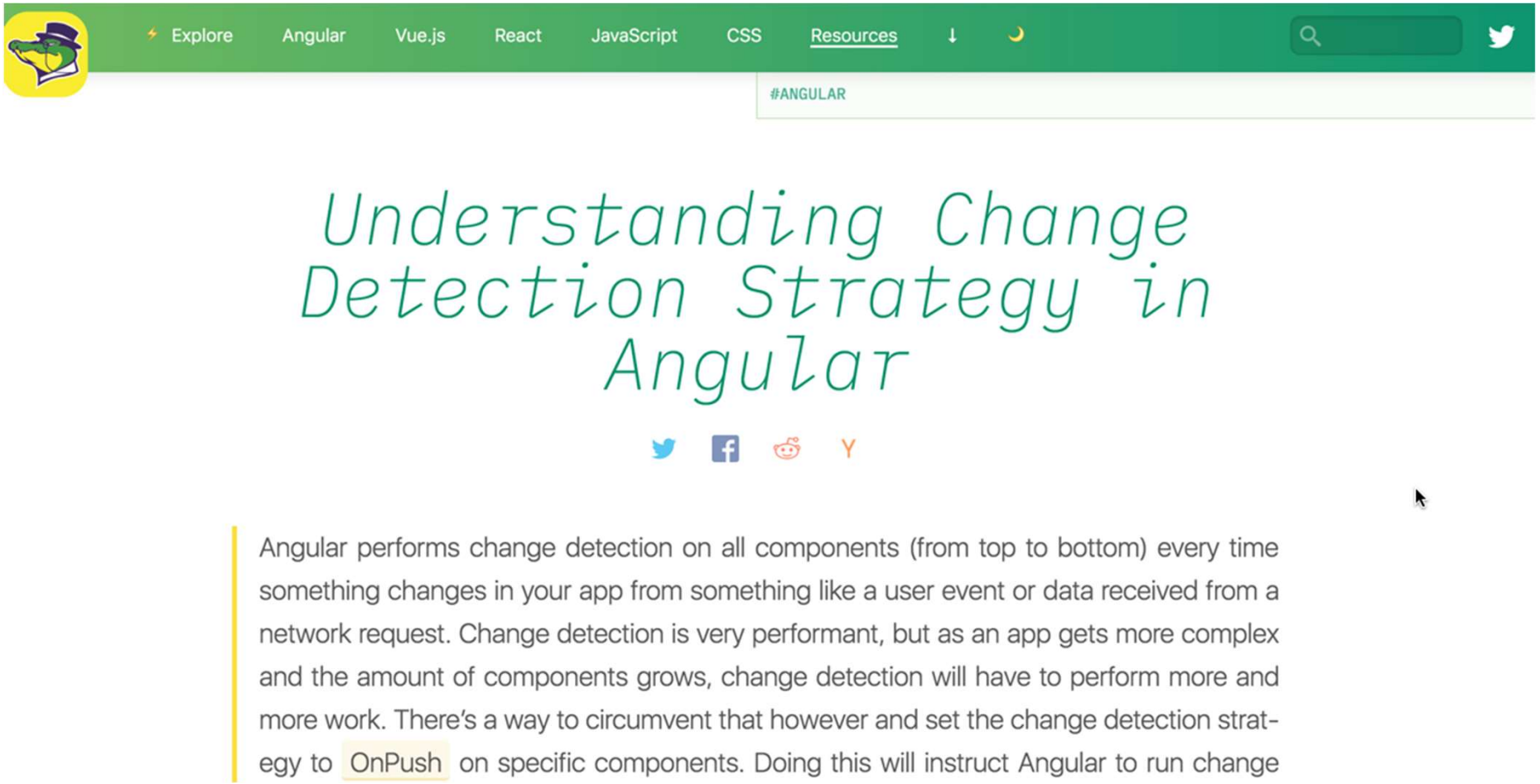
- Example `../800-change-detection`



Demo

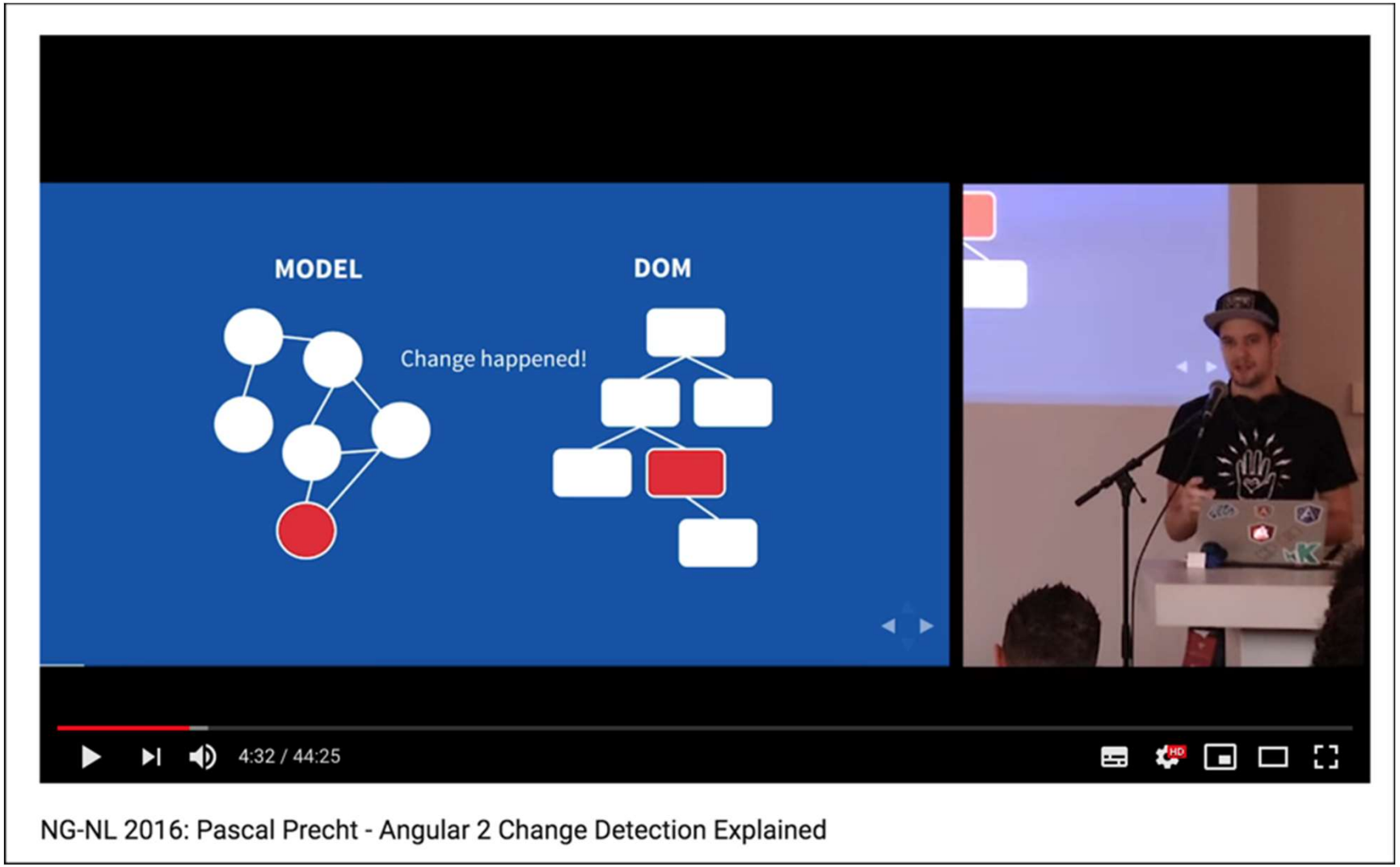
- General rule: nested components are inside *one* view.
  - If the parent runs a change detection cycle, changes are propagated to the children.
  - Unless they have `.onPush()` activated
- `…/800-change-detection`
- (un) comment various lines

Alligator.io



https://alligator.io/angular/change-detection-strategy/

More Info



https://www.youtube.com/watch?v=CUxD91DWkGM

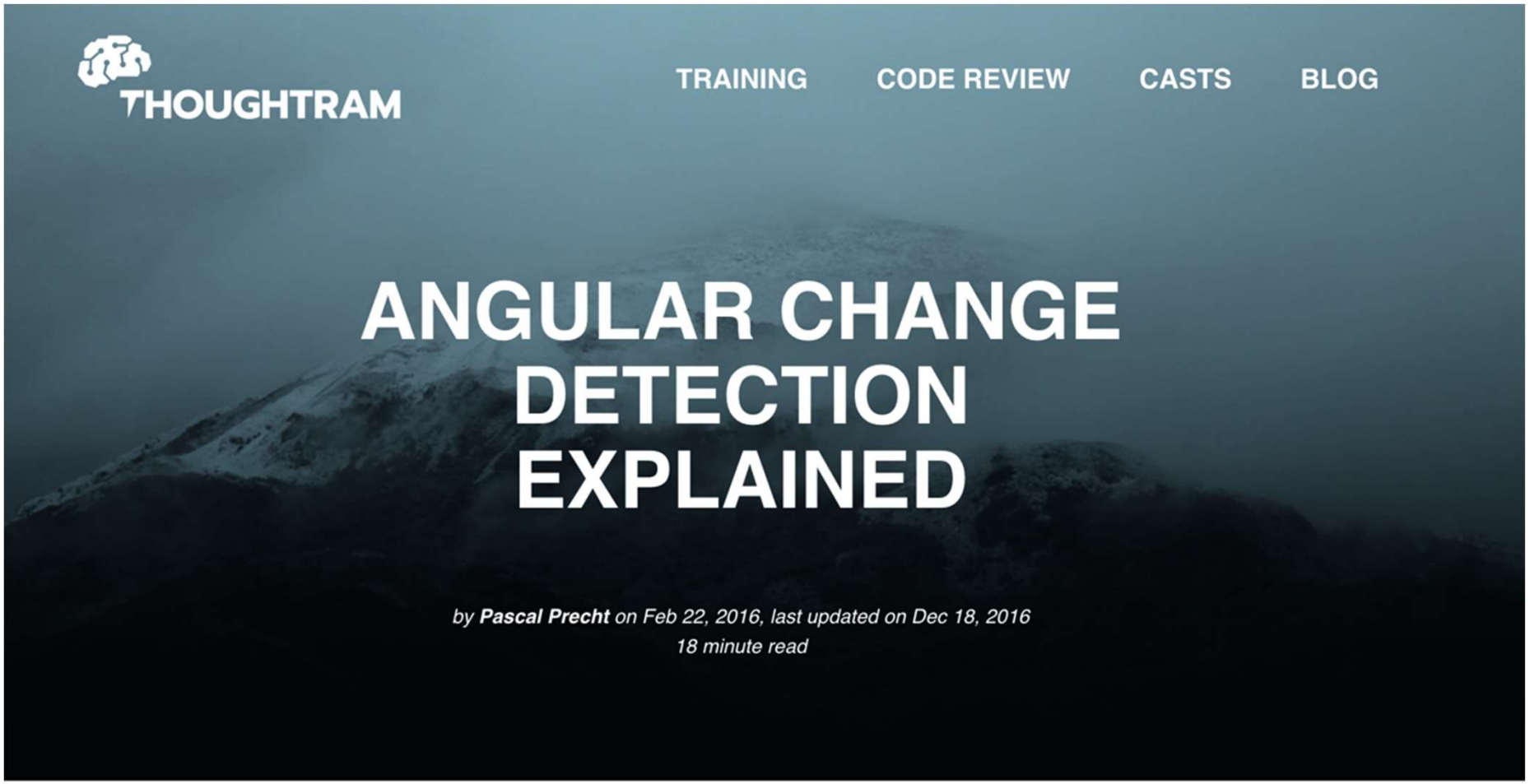
More on Change Detection

https://blog.angularindepth.com/a-gentle-introduction-into-change-detection-in-angular-33f9ffff6f10

Change Detection – deep dive

https://blog.angularindepth.com/everything-you-need-to-know-about-change-detection-in-angular-8006c51d206f

Thoughtram



https://blog.thoughtram.io/angular/2016/02/22/angular-2-change-detection-explained.html