

Change detection

# Intro

- Look the change detection app what we have

# 1. What's happen with change detection

- Check the console
- Comment out todos.component.html number 1 comment
- Check the console again
- Rerun the app with production mode
  - Explain what is the diff between dev and prod mode in change detection

## 2. Change the strategy to OnPush

- Comment out `todo.component.ts` number 2 comment
- Check the console
- We disabled almost the change detection, there are only a few circumstances when it is happening

### 3. Change detection via @Input() decorator

- Comment out todos.component.html and .ts number 3 comment
- Explain a and b case when it is possible to detect change
  - It depends on the reference change

## 4. Change from Events

- Comment out `todo.component.html` and `.ts` number 4 comment
- Events properly checked by change detection

## 5. Change from RxJS

- Show the `todos.service.ts`
- Comment out `todo.component.html` and `.ts` number 5 comment
- Can we change the filter?
  - Observable is an object -> filter is an object, perhaps Angular won't trigger the change detection because of the same reference
- 3 re-render because we subscribing from e component to the same observable
- Because angular know if something is subscribed and changed it must be re-rendered

## 6. Change detector ref

- Comment out `app.component.ts` number 6 comment
- Explain what is it when could be handy