# Angular Advanced Store introspection with @ngrx/store-devtools

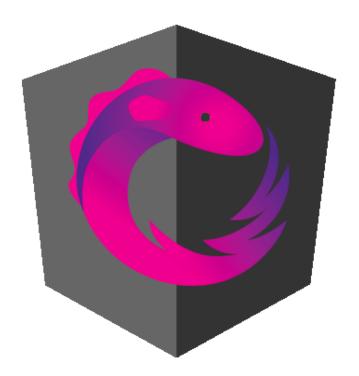


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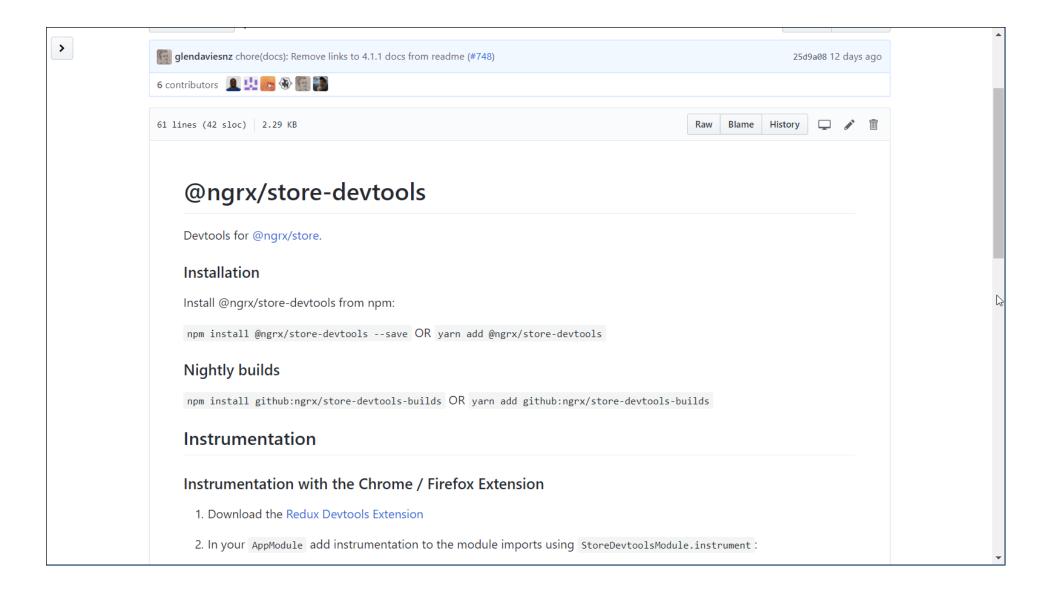
# What is @ngrx/store-devtools?

- Analyzing, inspection and debugging your State
   Management Store
- Time Travelling options

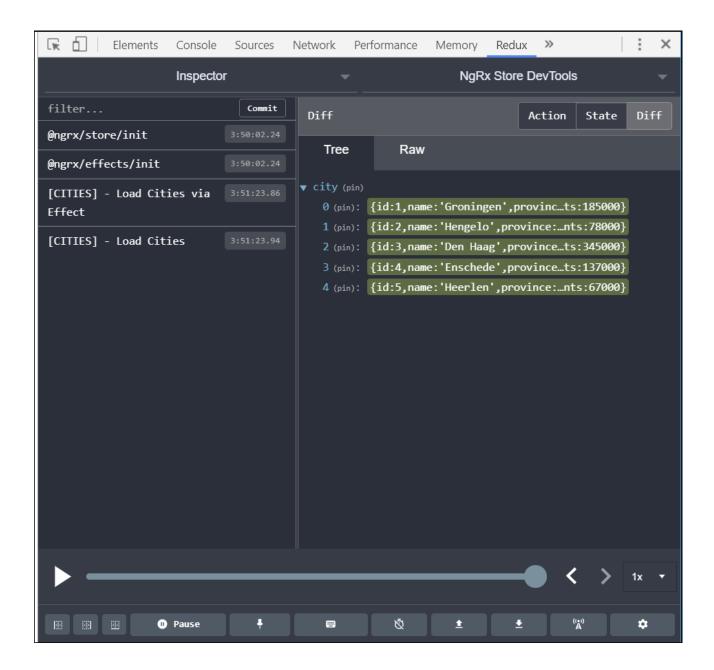




#### https://github.com/ngrx/platform/tree/master/docs/store-devtools

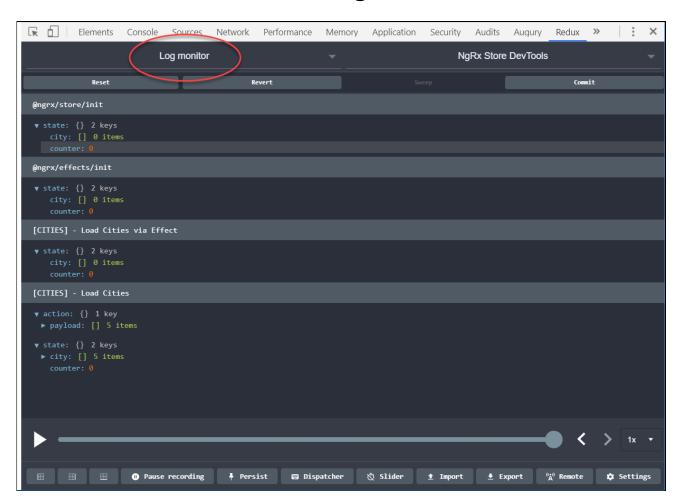


#### **Chrome Extension**



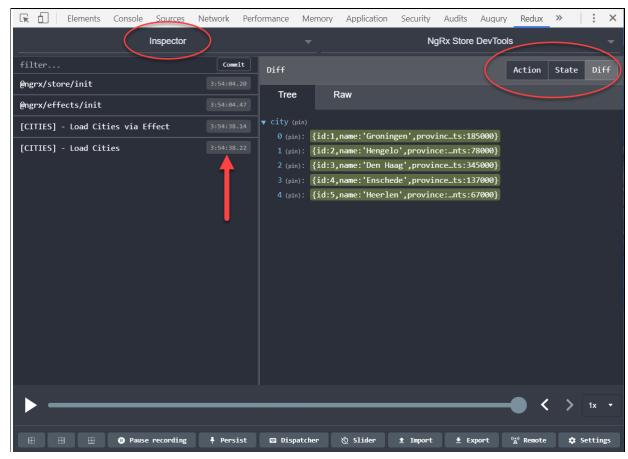
# **Options**

- Log Monitor
  - Log actions from/to the store and see changes in Real Time
  - Reset/Revert actions



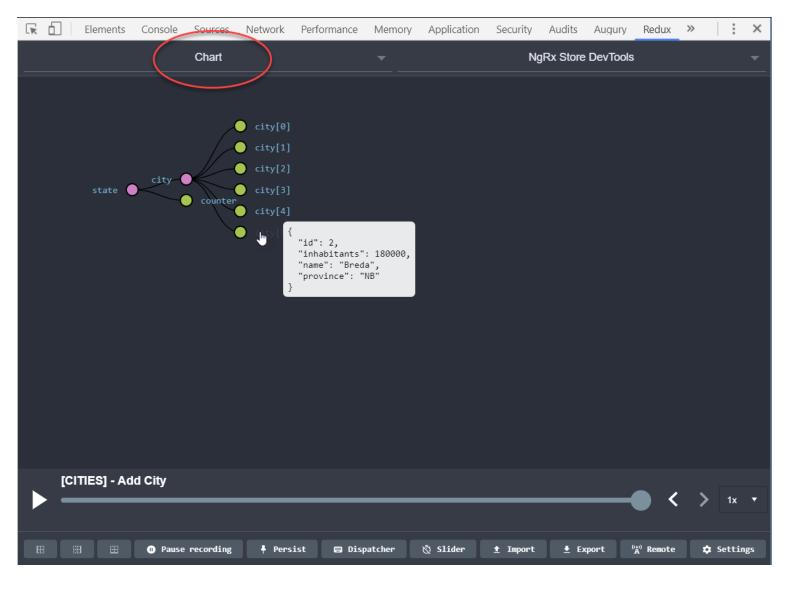
## **Inspector**

- Filter Actions
- Jump/Skip actions
- Inspect Action, State or Diff compared to previous State



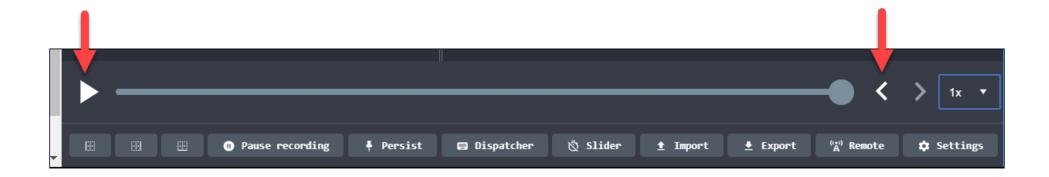
#### **Chart**

Inspect flowchart of Actions, flow of data through the Store



#### Slider

- (Re)play various actions and see changes in app and in state
- Jump to begin/end of timeline



# **Import/export State**

Save State changes to .json-file and import them to replay steps

```
state (1).json - Visual Studio Code
                                                                                        Edit Selection View Go Debug Tasks Help
      {} state (1).json ×
                   "monitorState": null,
                   "nextActionId": 12,
Ÿ
                   "stagedActionIds": [
                        0,
                        3,
8
                        4,
                        5,
Ġ.
                        6,
                        7,
                        8,
                        9,
                        10,
                        11
                   "skippedActionIds": [],
                   "currentStateIndex": 9,
                   "actionsById": {
                        "0": {
                             "action": {
                                  "type": "@ngrx/store/init"
⊗ 0 A 0
                                                           Ln 517, Col 2 Tab Size: 4 UTF-8 CRLF JSON
```



# Installation

Install in Google Chrome and in project

# **Installation in Project**

npm install @ngrx/store-devtools --save

#### OR:

yarn add @ngrx/store-devtools

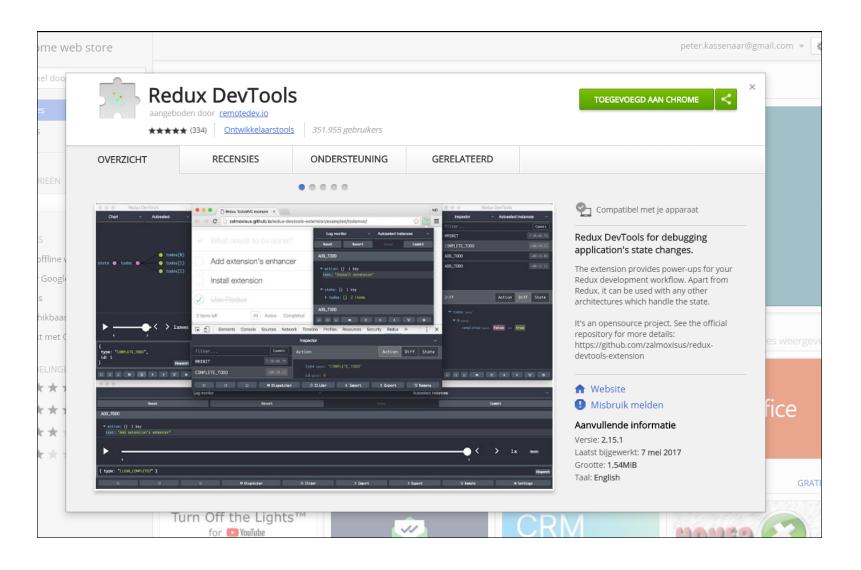
```
"@angular/platform-browser": "^5.2.0",
22
               "@angular/platform-browser-dynamic": "^5.2.0",
23
               "@angular/router": "^5.2.0",
24
               "@ngrx/effects": "^5.0.1",
25
               "Ongry/store": "AF 0.0"
26
               "@ngrx/store-devtools": "^5.0.1",
27
                'bootstrap": "^4.0.0",
28
               "core-js": "^2.4.1",
29
               "json-server": "^0.12.1",
30
               "rxjs": "^5.5.6",
31
```

# Installation in app.module.ts

```
// app.module.ts
import {StoreDevtoolsModule} from '@ngrx/store-devtools';
@NgModule({
   imports : [
      StoreDevtoolsModule.instrument({
            maxAge: 10}) // Redux Devtools debugging in Chrome
   ],
export class AppModule {
```

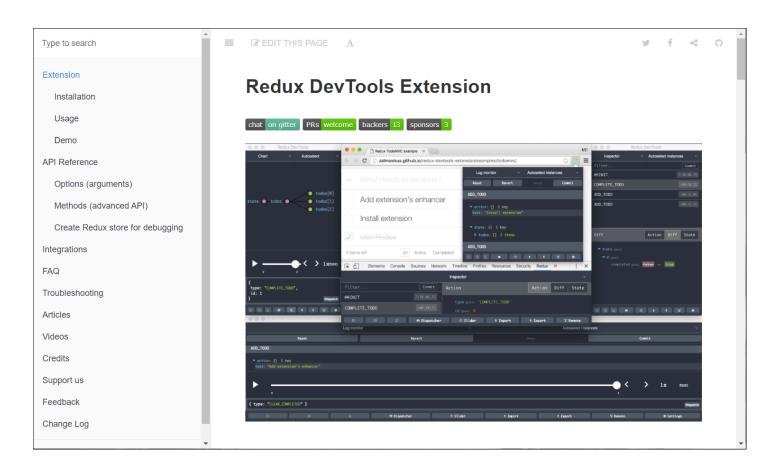
#### **Install Redux DevTools**

• Add from chrome://extensions



#### More info

- http://extension.remotedev.io/
- NOT specific to Angular to be used with all Redux-like stores!



## Workshop

- Use your own project, or start from one of the Store projects, for example /200-ngrx-simple-store
- Add Redux DevTools extension to Chrome (one-off action)
- Add @ngrx/store-devtools to current project via npm or yarn
- Activate devtools in app.module.ts
- Experiment with different views
  - Log Monitor
  - Inspector
  - Chart
- Export a State Tree to .json file, reload the project and import it again. See how this works

```
I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day I will practice my modeling technique 2 hours every day
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