

# Store introspection with @ngrx/store-devtools



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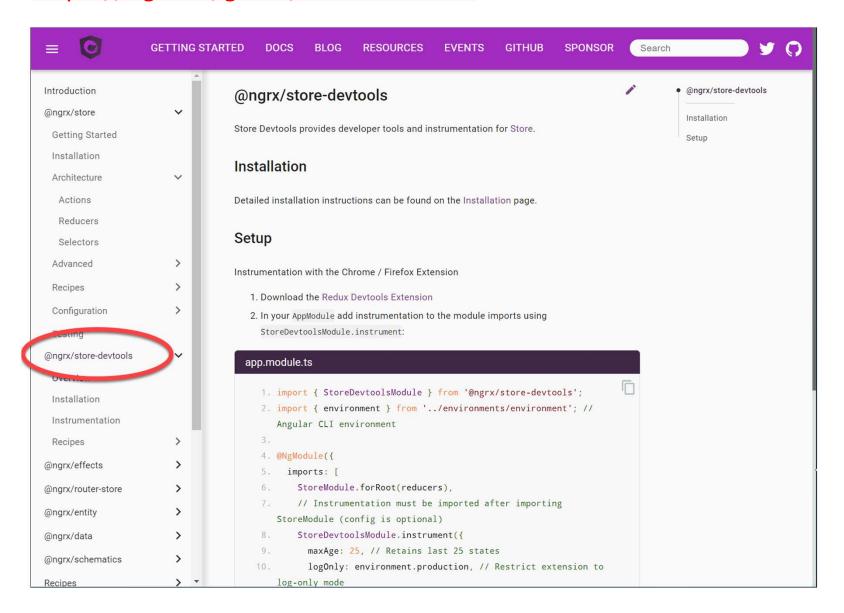
# What is @ngrx/store-devtools?

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





#### https://ngrx.io/guide/store-devtools



# **Two Parts**

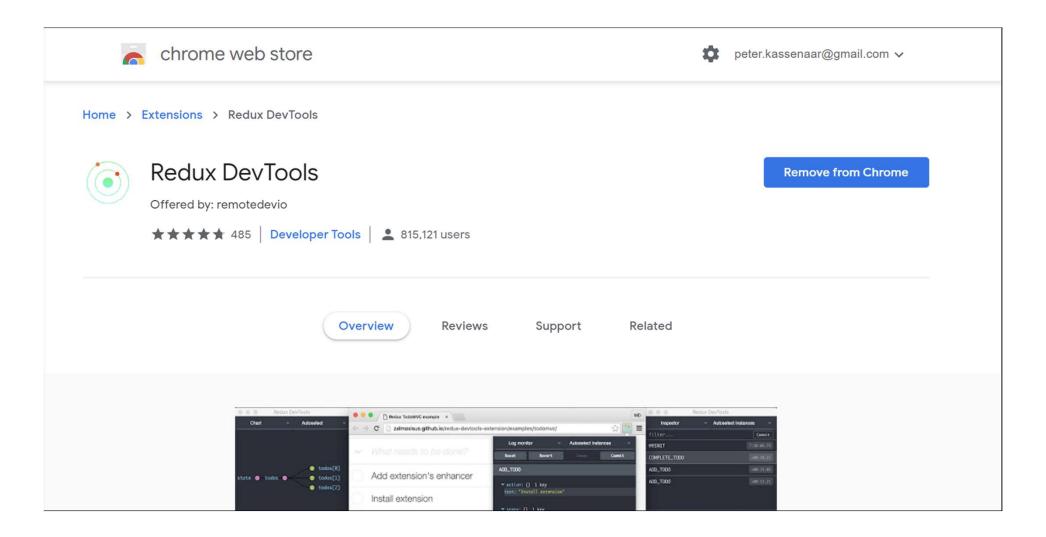
1. Chrome/Firefox Extension/Add-On

2. Installation in your project



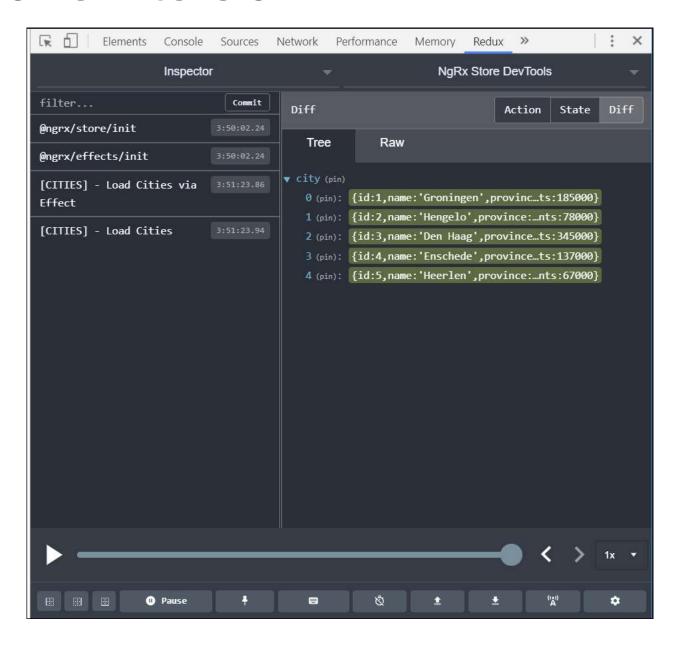
# 1. Install in Chrome

One-time installation of Redux DevTools Extension



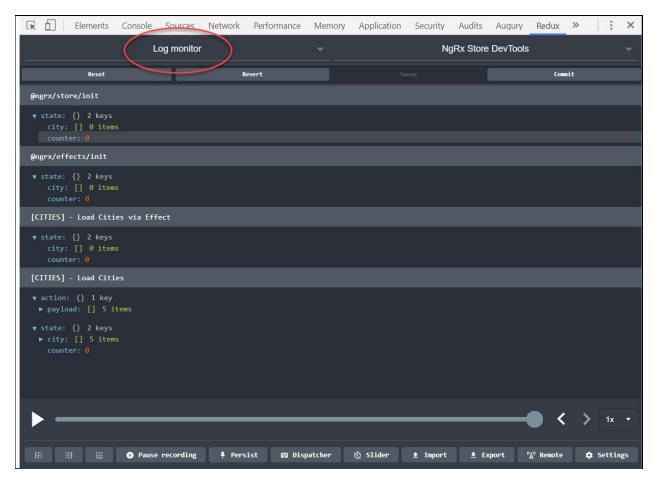
https://chrome.google.com/webstore/detail/redux-devtools/lmhkpmbekcpmknklioeibfkpmmfibljd?hl=en

#### **Chrome Extension**



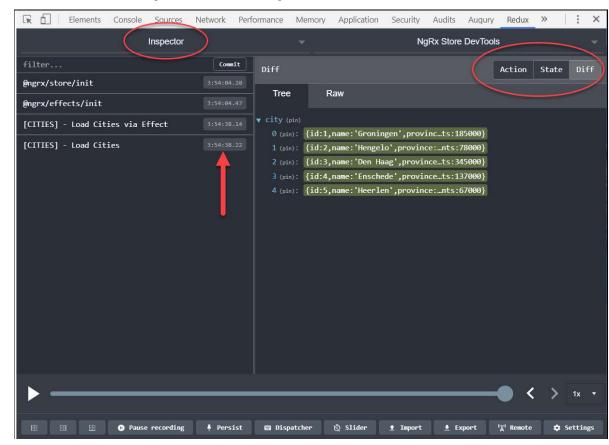
### **Options**

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



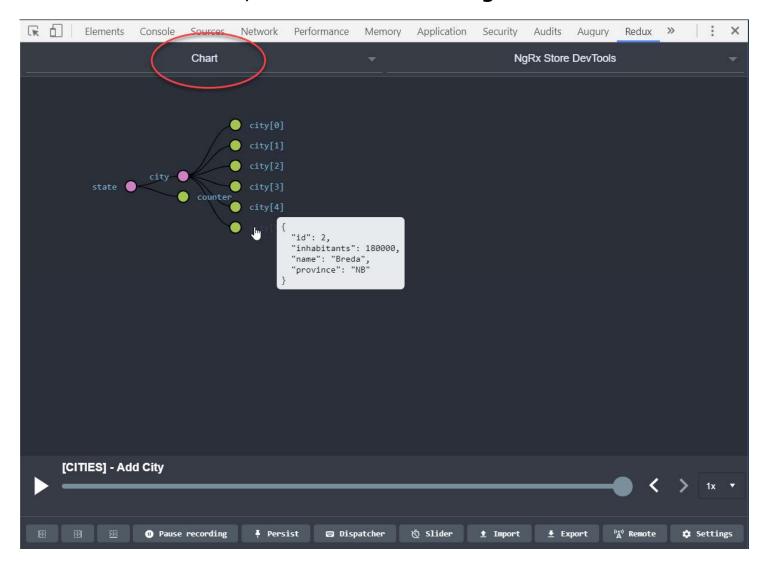
#### **Inspector**

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



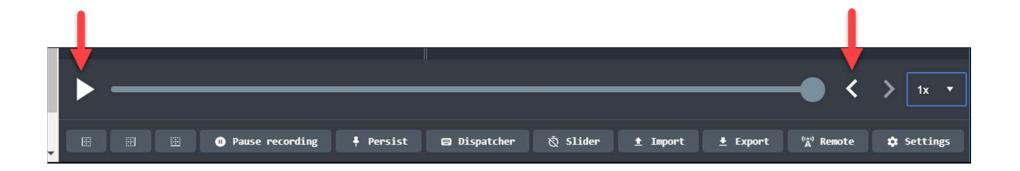
#### **Chart**

• 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

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



# 2. Installation

Install in Google Chrome and in project

# **Installation in Project**

npm install @ngrx/store-devtools --save

#### OR:

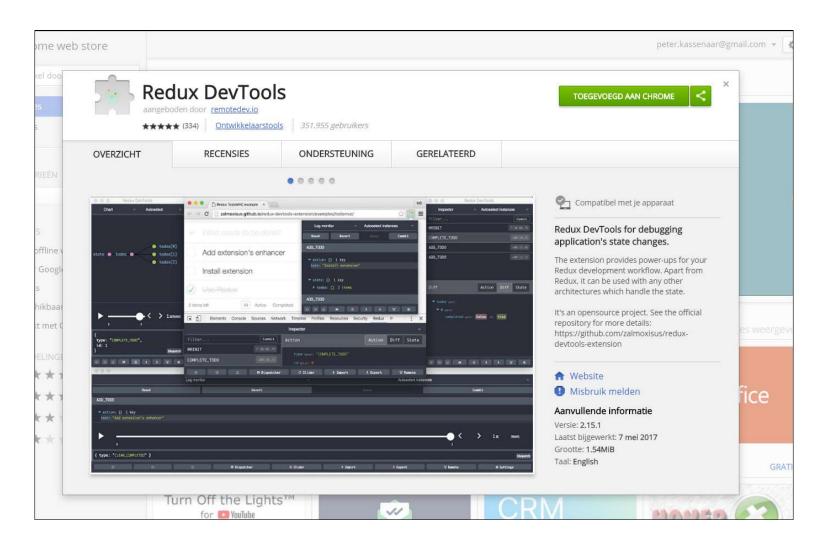
ng add @ngrx/store-devtools

# 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 {
```

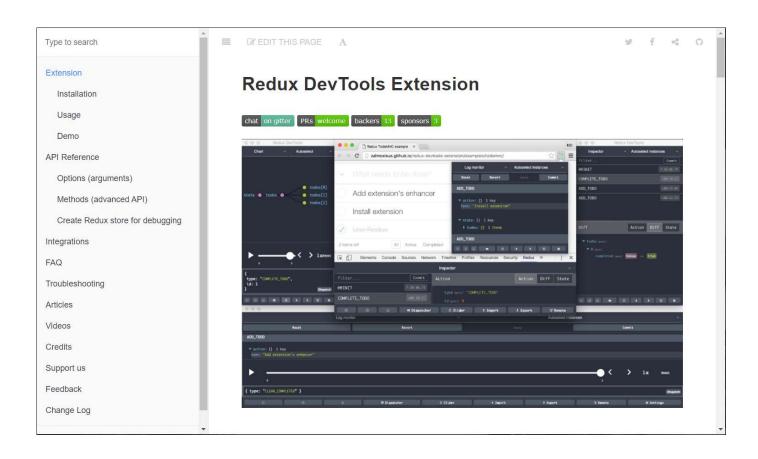
#### **Install Redux DevTools**

• 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 ng add
- 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 I will practice my modeling technique 2 hours every day
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