

Professional NgRx

7 - Beyond NgRx



(f) (in) **(y)**

Elf

- Opinionated state management
- Features can be enabled as you go
 - And helper functions
- Not enforcing strictness like NgRx
 - Store could be available publicly
 - o Isn't NgRx 😉

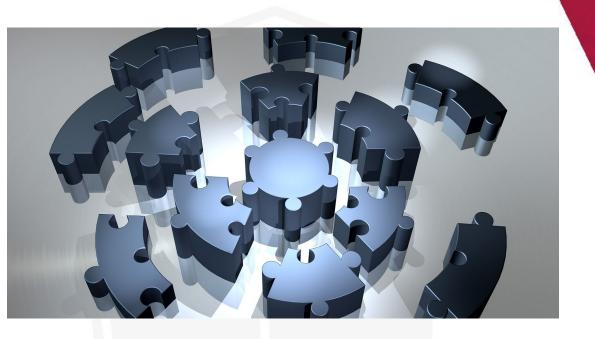


Elf - enable Features

- Differentiation between Entity, UIProperties, and generic
- selectedId
- undo/redo
- localStore
- immer integration
- loadStatus
- caching
- pagination



@ngrx/ component-store



Main facts

- (Little) sibling to @ngrx/store
- Local / component state management
- State vanishes with component (by default)
- Push-based / Reactive
- All logic included in single service



Use cases

- Multiple instances of same components
- Complicated, local state logic
- Different static logic
- Independent, simple global state



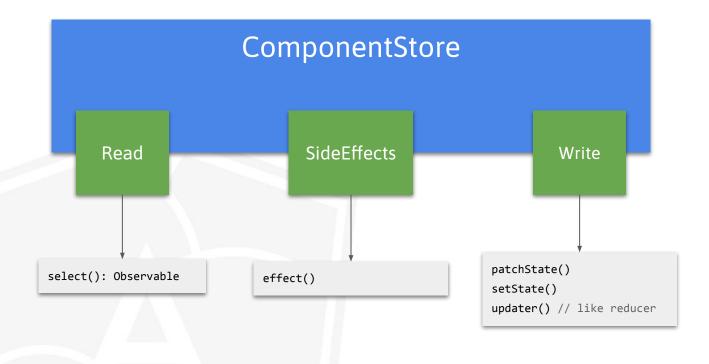
Defining the state

```
export interface HolidaysState {
  holidays: Holiday[];
  favouriteIds: number[];
}

@Injectable()
export class HolidaysStore extends ComponentStore<HolidaysState> {
  constructor(private httpClient: HttpClient, private config: Configuration) {
    super({ holidays: [], favouriteIds: [] });
  }
}
```



API





Selectors

```
export interface HolidaysState {
  holidays: Holiday[];
 favouriteIds: number[];
@Injectable()
export class HolidaysStore extends ComponentStore<HolidaysState> {
  constructor(private httpClient: HttpClient, private config: Configuration) {
   super({ holidays: [], favouriteIds: [] });
 readonly holidays$ = this.select(({ holidays, favouriteIds }) =>
    holidays.map((holiday) => ({
      ...holiday,
     isFavourite: favouriteIds.includes(holiday.id),
   }))
```



Actions

```
@Injectable()
export class HolidaysStore extends ComponentStore<HolidaysState> {
 // ...
  addFavourite(holidayId: number) {
    this.patchState((state) => ({
      favouriteIds: [...state.favouriteIds, holidayId],
    }));
  removeFavourite(holidayId: number) {
    this.patchState((state) => ({
      favouriteIds: state.favouriteIds.filter((id) => id !== holidayId),
    }));
```



Effects

```
@Injectable()
export class HolidaysStore extends ComponentStore<HolidaysState> {
  // ...
  readonly load = this.effect((i$: Observable<void>) => {
    return i$.pipe(
      switchMap(() =>
        this.httpClient.get<Holiday[]>(this.#baseUrl).pipe(
          tapResponse((holidays) => {
            const finalHolidays = holidays.map((holiday) => ({
              ...holiday,
              imageUrl: `${this.config.baseUrl}${holiday.imageUrl}`,
            }));
            this.#setHolidays(finalHolidays);
          }, console.error)
  });
 #setHolidays = (holidays: Holiday[]) => this.patchState({ holidays });
```



Using the ComponentStore

```
@Component({
 templateUrl: './holidays.component.html',
  standalone: true,
  imports: [...],
  providers: [HolidaysStore],
export class HolidaysComponent {
  holidays$ = this.holidaysStore.holidays$;
  constructor(private holidaysStore: HolidaysStore) {
   this.holidaysStore.load();
  addFavourite(id: number) {
   this.holidaysStore.addFavourite(id);
  removeFavourite(id: number) {
   this.holidaysStore.removeFavourite(id);
```



Dynamic NgRx

