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How to translate mat-paginator in Angular 4?

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Asked 1 year, 11 months ago · Active 1 month ago · Viewed 20k times

Do you have any ideas how can I translate "Items per page" in Angular's `mat-paginator` tag? The `mat-paginator` is an element from Material Design.

34

[angular](#) [material-design](#) [angular-material](#)

★

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edited Jan 1 at 14:49



Roy

3,493 ● 2 ● 13 ● 35

asked Dec 1 '17 at 12:44



bigmeister

577 ● 3 ● 8 ● 15

6

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You can use the `MatPaginatorIntl` for this. [Will Showell made](#) an example that no longer works, so here is an updated version (with Dutch) and step-by-step guidance.

1. Import the `MatPaginatorIntl` from `@angular/material` into your application.
2. Create a new paginator file for your locale (in this example I use Dutch) and import that: `import { getDutchPaginatorIntl } from './app/dutch-paginator-intl';` in `main.ts` file
3. Set a `provider` for the Paginator inside of the `main.ts` file, so it takes the translations of your local file (instead of English as default language):

```
providers: [
  { provide: MatPaginatorIntl, useValue: getDutchPaginatorIntl() }
]
```

4. Inside your `paginator-intl` file, set the labels for the strings that can be translated and export these. Most important part of that file (see the example for more info):

```
paginatorIntl.itemsPerPageLabel = 'Items per pagina';
paginatorIntl.firstPageLabel = 'Eerste pagina';
paginatorIntl.previousPageLabel = 'Vorige pagina';
paginatorIntl.nextPageLabel = 'Volgende pagina';
paginatorIntl.lastPageLabel = 'Laatste pagina';
paginatorIntl.getRangeLabel = dutchRangeLabel;
```

[Example on StackBlitz](#) with the paginator translations file as starting point.

June 2018 - Update to Angular 6.x

This updated [Example on StackBlitz](#) is upgraded to Angular 6.x to accommodate the latest version of the framework. Only packages have changed, nothing inside the paginator has changed.

June 2019 - Update to Angular 8.x

This updated [Example on StackBlitz](#) is upgraded to Angular 8.x to accommodate the latest version of the framework. Only packages have changed, nothing inside the paginator has changed.

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edited Jun 3 at 20:09

answered Dec 1 '17 at 13:11



Roy

3,493 ● 2 ● 13 ● 35

3 a bit complicated for a few translation strings but it works thanks – Ruben May 14 '18 at 9:09

The internationalization it worked perfectly for me, but its still showing values of tooltip in uppercase? I dont know why its happening? – Talk is Cheap Show me Code Jun 9 '18 at 12:43

1 Yeah, but how would you use this with a TranslateService, which is probably the most common use case – Kai Schneider Aug 16 '18 at 9:28

1 Works like a charm. thanks for sharing – Taha Zgued Feb 6 at 15:02

1 Just perfect solution. Thanks for sharing! – ErickXavier Jul 16 at 17:49

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▲ Modified solution (with Angular 6) based on accepted answer with @ngx-translate: ▼

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```
@NgModule({
  imports: [...],
  providers: [
    {
      provide: MatPaginatorIntl, deps: [TranslateService],
      useFactory: (translateService: TranslateService) => new PaginatorI18n(translateService).
    }
  ]
})
export class CoreModule {}
```

And the PaginatorI18n :

```
import { MatPaginatorIntl } from '@angular/material';
import { TranslateService } from '@ngx-translate/core';

export class PaginatorI18n {

  constructor(private readonly translate: TranslateService) {}

  getPaginatorIntl(): MatPaginatorIntl {
    const paginatorIntl = new MatPaginatorIntl();
    paginatorIntl.itemsPerPageLabel = this.translate.instant('ITEMS_PER_PAGE_LABEL');
    paginatorIntl.nextPageLabel = this.translate.instant('NEXT_PAGE_LABEL');
    paginatorIntl.previousPageLabel = this.translate.instant('PREVIOUS_PAGE_LABEL');
    paginatorIntl.firstPageLabel = this.translate.instant('FIRST_PAGE_LABEL');
    paginatorIntl.lastPageLabel = this.translate.instant('LAST_PAGE_LABEL');
    paginatorIntl.getRangeLabel = this.getRangeLabel.bind(this);
    return paginatorIntl;
  }

  private getRangeLabel(page: number, pageSize: number, length: number): string {
    if (length === 0 || pageSize === 0) {
      return this.translate.instant('RANGE_PAGE_LABEL_1', { length });
    }
    length = Math.max(length, 0);
    const startIndex = page * pageSize;
    // If the start index exceeds the list length, do not try and fix the end index to the
    const endIndex = startIndex < length ? Math.min(startIndex + pageSize, length) : startIndex + pageSize;
    return this.translate.instant('RANGE_PAGE_LABEL_2', { startIndex: startIndex + 1, endIndex: endIndex + 1, length });
  }
}
```

and cz.json

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```
{
  "ITEMS_PER_PAGE_LABEL": "Počet řádků:",
  "NEXT_PAGE_LABEL": "Další stránka",
  "PREVIOUS_PAGE_LABEL": "Předchozí stránka",
  "FIRST_PAGE_LABEL": "První stránka",
  "LAST_PAGE_LABEL": "Poslední stránka",
  "RANGE_PAGE_LABEL_1": "0 z {{length}}",
  "RANGE_PAGE_LABEL_2": "{{startIndex}} - {{endIndex}} z {{length}}"
}
```

Configure *ngx-translate* in `app.module.ts` :

```
import { TranslateLoader, TranslateModule, TranslateService } from '@ngx-translate/core';
const httpLoaderFactory = (http: HttpClient) => new TranslateHttpLoader(http, './assets/i18n/');
@NgModule({
  imports: [
    TranslateModule.forRoot({
      loader: { provide: TranslateLoader, useFactory: httpLoaderFactory, deps: [HttpClient] }
    })
  ],
  providers: [{ provide: LOCALE_ID, useValue: 'cs' }],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

share improve this answer edited Nov 23 '18 at 15:10 answered Oct 9 '18 at 6:27



Felix
1,440 • 18 • 37

5 The only solution that propose dynamic translations - which is the way you should want it. This should be the accepted answer. – Michal Stepan Oct 11 '18 at 10:00

@MichalStepan I agree, through I tried to make it work on StackBlitz several times, but they're not accepting static assets yet. See github.com/stackblitz/core/issues/577 – Roy Oct 20 '18 at 15:03

thanks for the anwere...but where add file cz.json – PuntanetDeveloper Nov 23 '18 at 8:54

@puntanet I have update the answer, see the very bottom. The `cz.json` is then located under `src/assets/i18n` . – Felix Nov 23 '18 at 15:12

2 This answer is good but it doesn't update the translations when the language is changed. Instead of returning the object in `getPaginatorIntl` it is better to make the class extend `MatPaginatorIntl` and return the object itself. It is also necessary to call `this.changes.next()` for existing tables to be refreshed. Check out this other post stackoverflow.com/questions/46869616/ – iberbeu Dec 6 '18 at 11:22 ✓

show 1 more comment



For a quick and dirty solution use this `paginator_intl` property.

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In my `...component.ts` I have:



```
@ViewChild(MatPaginator) paginator: MatPaginator;

ngOnInit() {
  ...
  this.paginator._intl.itemsPerPageLabel = 'My translation for items per page.';
  ...
}
```

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1,947 • 1 • 18 • 23

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```
this.dataSource.paginator._intl.itemsPerPageLabel = "Your string here";
```

0

this worked in latest angular8 + material8;



share improve this answer

answered Aug 27 at 13:35



shaheer shukur

195 • 3 • 11

add a comment



You can hack your way into `MatPaginator._intl` and put your string there using [ngx-translate](#).

0

```
forkJoin({
  itemsPerPageLabel: this.translate.get('paginator.itemsPerPageLabel'),
  nextPageLabel: this.translate.get('paginator.nextPageLabel'),
  previousPageLabel: this.translate.get('paginator.previousPageLabel'),
  firstPageLabel: this.translate.get('paginator.firstPageLabel'),
  lastPageLabel: this.translate.get('paginator.lastPageLabel'),
}).subscribe(values => {
  this.paginator._intl.itemsPerPageLabel = values.itemsPerPageLabel;
  this.paginator._intl.nextPageLabel = values.nextPageLabel;
  this.paginator._intl.previousPageLabel = values.previousPageLabel;
  this.paginator._intl.firstPageLabel = values.firstPageLabel;
  this.paginator._intl.lastPageLabel = values.lastPageLabel;

  // 1 - 10 of 100
  // https://github.com/angular/components/blob/master/src/material/paginator/paginator-intl.ts#L100
  this.paginator._intl.getRangeLabel = (page: number, pageSize: number, length: number): string => {
    length = Math.max(length, 0);
    const startIndex = page * pageSize;
    const endIndex = startIndex < length ? Math.min(startIndex + pageSize, length) : startIndex + pageSize;
    return this.translate.instant('paginator.getRangeLabel', {
      startIndex: startIndex + 1,
      endIndex: endIndex + 1,
      length,
    });
  };

  // Otherwise, the paginator won't be shown as translated.
  this.dataSource.paginator = this.paginator;
});
```

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edited Oct 8 at 18:19

answered Oct 1 at 21:29



NatoBoram

739 • 2 • 8 • 29

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
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
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
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