Angular — date ago pipe (minutes / hours / days / months / years ago)



In this article we will learn how to create user-friendly (human readable) date pipe in Angular.

Lets say we have this JSON data, as you can see the **date** field contains **date** in ISO format.

```
"coverImage": "https://material.angular.io/assets/img/examples/shiba2.jpg",
    "avatar": "https://material.angular.io/assets/img/examples/shiba1.jpg",
    "details": "Lorem Ipsum is simply dummy text of the printing and typesetting industry.",
    "date": "2018-10-08T16:58:47Z"
},
{

"title": "Hana Maou",
    "subtitle": "Cute dog",
    "coverImage": "https://material.angular.io/assets/img/examples/shiba2.jpg",
    "avatar": "https://material.angular.io/assets/img/examples/shiba1.jpg",
    "details": "Lorem Ipsum is simply dummy text of the printing and typesetting industry.",
    "date": "2018-10-08T17:58:47Z"
}
```

JSON Data 🕲

And we run a for loop on the data in *.component.html file like below:

```
app.component.html
                                        app.component.scss >
app.component.ts ×
    <mat-toolbar color="primary">Nice Date App</mat-toolbar>
    <div class="container">
      <mat-card *ngFor="let dog of dogs">
        <img mat-card-image [src]="dog.coverImage" alt="Photo of a {{dog.title}}">
        <mat-card-header>
          <img mat-card-avatar [src]="dog.avatar">
          <mat-card-title>{{dog.title}}</mat-card-title>
          <mat-card-subtitle>{{dog.subtitle}}</mat-card-subtitle>
        </mat-card-header>
        <mat-card-content>
          {{dog.details}}
          Published: {{dog.date}}
        </mat-card-content>
      </mat-card>
    </div>
```

HTML Code

It will display as follows @:

Nice Date App





Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Published: 2018-05-08T17:58:47Z





Puma Laou Cute dog

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Published: 2018-10-08T16:58:47Z





Hana Maou

Cute dog

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Published: 2018-10-08T17:58:47Z

Date (No Pipe)

Using the built in Date Pipe like Published: {{dog.date | date}} will display the date like a human readable format but not necessarily in a user-friendly format.

Nice Date App





Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Published: May 8, 2018





Puma Laou Cute dog

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Published: Oct 8, 2018





Hana Maou

Cute dog

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Published: Oct 8, 2018

Date (Default Date Pipe)

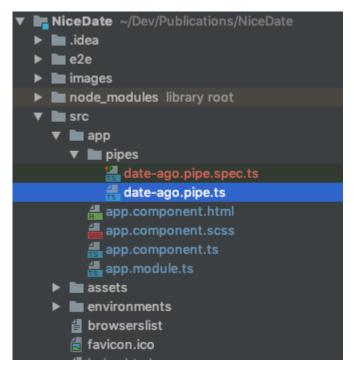
Now lets generate our very own user-friendly Date Pipe. Use the command in a terminal window ng g p pipes/DateAgo to use the Angular CLI to generate Custom Date Pipe inside the pipes folder.

Terminal + swuser-129-8-206-180:NiceDate thunder\$ ng g p pipes/DateAgo CREATE src/app/pipes/date-ago.pipe.spec.ts (192 bytes) CREATE src/app/pipes/date-ago.pipe.ts (203 bytes) UPDATE src/app/app.module.ts (730 bytes)

```
swuser-129-8-206-180:NiceDate thunder$
```

Angular CLI

Now the generate file structure will look like the following. Feel free to delete the date-ago.pipe.spec.ts file, if you do not care about testing.



File Structure

Now inside the date-ago.pipe.ts file, lets write some code.

```
import {Pipe, PipeTransform} from '@angular/core';
     @Pipe({
         name: 'dateAgo',
         pure: true
     })
6
     export class DateAgoPipe implements PipeTransform {
8
9
         transform(value: any, args?: any): any {
             if (value) {
10
                 const seconds = Math.floor((+new Date() - +new Date(value)) / 1000);
11
12
                 if (seconds < 29) // less than 30 seconds ago will show as 'Just now'</pre>
13
                     return 'Just now';
14
                 const intervals = {
                      'year': 31536000,
15
                      'month': 2592000,
16
                      'week': 604800,
17
                     'day': 86400,
18
                     'hour': 3600,
19
20
                      'minute': 60,
21
                      'second': 1
22
                 };
                 let counter;
23
24
                 for (const i in intervals) {
25
                     counter = Math.floor(seconds / intervals[i]);
26
                     if (counter > 0)
27
                         if (counter === 1) {
                             return counter + ' ' + i + ' ago'; // singular (1 day ago)
28
29
                         } else {
                             return counter + ' ' + i + 's ago'; // plural (2 days ago)
30
                         }
32
33
34
             return value;
```

```
35 }
36 
37 }

date-ago.pipe.ts hosted with \(\cappa\) by GitHub view raw
```

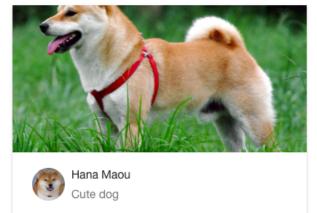
Finally, don't forget to import our Custom Date Pipe in app.modules.ts file and add it to the declarations: [...DateAgoPipe] array. (Do this if you did not use the Angular CLI to generate the Date Pipe, otherwise the import should already be there as Angular CLI does it for you.)

Now, just update the HTML code from Published: {{dog.date | date}} to Published: {{dog.date | dateAgo}} and watch the magic happen.

Nice Date App







Angular — date ago pipe (minutes / hours / days / months / years ago)

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Published: 1 hour ago

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

Published: 48 minutes ago

Date (Custom Date Ago Pipe)

Voila (4), thats it. You now have a custom user readable and user friendly Date Pipe for your awesome Angular App (4).

Angular2 Angular Pipe Angular Material Date Format Angular Date

Discover Medium

Welcome to a place where words matter. On Medium, smart voices and original ideas take center stage - with no ads in sight. Watch

Lorem Ipsum is simply dummy text of the printing

and typesetting industry.

Published: 5 months ago

Make Medium yours

Follow all the topics you care about, and we'll deliver the best stories for you to your homepage and inbox. Explore

Become a member

Get unlimited access to the best stories on Medium — and support writers while you're at it. Just \$5/month. Upgrade

About Help Legal