

Pipes



Agenda

01

What are pipes

02

Built-in Pipes

03

Custom Pipes

04

Demo

Pipes



What are
Pipes

- Pipes are used to transform data before it gets displayed in a template.
- Angular provides some built-in pipes. The pipes are listed below –
 1. Lowercasepipe
 2. Uppercasepipe
 3. Datepipe
 4. Currencypipe
 5. Jsonpipe
 6. Percentpipe
 7. Decimalpipe
 8. Slicepipe

Currency Pipe



- This pipe is used for formatting currencies. Its first argument is an abbreviation of the currency type (e.g. "EUR", "USD", and so on), like so:

- `{{ 1234.56 | currency:'GBP' }}`

The above prints out £1,234.56.

- If we want to print the currency code then as a second parameter pass code keyword, like so:

- `{{ 1234.56 | currency:'GBP':'code' }}`

The above prints out GBP1,234.56.

JSON Pipe



- This transforms a JavaScript object into a JSON string, like so:

```
var obj= { moo: 'foo', goo: { too: 'new' }}
```

```
{{ obj | json}}
```

The above prints out { "moo": "foo", "goo": { "too": "new" } }.

Lowercase and Uppercase Pipes

- This transforms a string to lowercase, like so:

```
{{ Intellipaate | lowercase }}
```

The above prints out intellipaate

- This transforms a string to uppercase, like so:

```
{{ Intellipaate | uppercase }}
```

The above prints out INTELLIPAATE

- This transforms first letter of every word to uppercase, like so:

```
{{ welcome to intellipaate | titlecase }}
```

The above prints out Welcome To Intellipaate

Slice Pipe

- This returns a slice of an array. The first argument is the start index of the slice and the second argument is the end index.
- `var str= "Welcome to Intellipaat"`
- `{{str | slice:2:5 }}`

The above prints out "lco"

number Pipe

This pipe is used for the transformation of numbers.

- `{{ 5.678 | number: '1.2-3' }}` // 3 is for main integer, 2-3 are for decimals to be displayed.

The above prints out 5.678

- `{{ 5.678 | number: '3.2-4' }}` // 3 is for main integer, 2-4 are for decimals to be displayed.

The above prints out 005.6780

- `{{ 5.678 | number: '3.1-2' }}` // 3 is for main integer, 1-2 are for decimals to be displayed.

The above prints out 005.68

percent Pipe

This pipe is used for the transformation of numbers into percentage.

- `{{ .25 | percent }}`

The above prints out 25%

- `{{ .25678 | percent: '3.2-2' }}`

The above prints out 025.68%

date Pipe



This pipe is used for the transformation of dates. The first argument is a format string, like so:

- `{{myDate | date}} // Jan 2, 2019`
- `{{myDate | date:'fullDate'}} // Wednesday, January 2, 2019`
- `{{myDate | date:'short'}} // 1/2/19, 1:08 PM`
- `{{myDate | date:'shortDate'}} // 1/2/19`
- `{{myDate | date:'shortTime'}} // 1:02 PM`
- `{{myDate | date:'dd/MM/yyyy'}} //02/01/2019`

Custom Pipes Demo1

How to create custom pipes? You need to create a .ts file

```
import {Pipe, PipeTransform} from '@angular/core';
```

```
@Pipe (  
  { name : 'sqrt' }
```

```
)
```

```
export class SqrtPipe implements PipeTransform
```

```
{ transform(val : number) : number
```

```
{ return Math.sqrt(val); }
```

```
}
```

How to use it?

```
<h1>Custom Pipe</h1> <b>Square root of 25 is: {{25  
sqrt}}</b> <br/>
```

Output will be :

Square root of 25 is: 5

Custom Pipes Demo2

```
import {Pipe, PipeTransform} from '@angular/core';
```

```
@Pipe (
```

```
{ name : 'defaultImage'})
```

```
export class DefaultImagePipe implements
```

```
PipeTransform
```

```
{transform(value: string, fallback: string): string
```

```
{ let image = "";
```

```
if (value){ image = value; }
```

```
else { image = fallback; } return image; }}
```

How to use it?

```
<img [src]="imageUrl |  
default:'http://s3.amazonaws.com/uifaces/faces/twitter/  
llyleo/128.jpg'"/>
```

Output will be :

If imageUrl is null we will get default image else
imageUrl will be displayed.

Demo





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