

Angular Pipes

By using the concept of pipe we can transform the data into desired format before displaying.

There are two types of Pipes as

- Inbuilt Pipe
- Custom Pipe

Inbuilt Pipes

In case of Inbuilt pipe we can use different types of pipes which are provided by Angular.

There are different types of inbuilt pipes as

Consider below data to understand use of pipe.

```
public Institute =
{
  "Name" : "Marvellous",
  "Location" : "Pune"
}

name = "Marvellous Infosystems";
today = new Date();
no = 32.389;
```

Pipes for String

Used to convert into lowercase

<h2>{{name | lowercase}}</h2> marvellous infosystems

Used to convert into uppercase

<h2>{{name | uppercase}}</h2> MARVELLOUS INFOSYSTEMS

Used to convert into title case

<h2>{{name | titlecase}}</h2> Marvellous Infosystems

Used to break the string

<h2>{{name | slice:10}}</h2> Infosystems

Used to break the string to specific position

<h2>{{name | slice:10:14}}</h2> Info

Pipes for JSON output

Used to display data in JSON format

<h2>{{Institute | json}}</h2> {"Name" : "Marvellous" , "Location" : "Pune"}

Pipes for Numbers

```
<h2>{{no | number : '1.2-3'}}</h2>      32.389
<h2>{{no | number : '3.2-5'}}</h2>      032.389
<h2>{{no | number : '3.4-5'}}</h2>      032.3890
```

Pipes for Currency

```
<h2>{{0.78 | percent}}</h2>              78%
<h2>{{78 | currency}}</h2>               $78
<h2>{{78 | currency: 'GBP'}}</h2>
<h2>{{78 | currency: 'INR'}}</h2>
```

Pipes for Date

```
<h2>{{today}}</h2>
<h2>{{today | date:'short'}}</h2>
<h2>{{today | date: 'shortDate' }}</h2>
<h2>{{today | date: 'shortTime' }}</h2>
```

Custom Pipes

Custom Pipes allows to essentially create a pure function, which accepts an input and returns a different output via some form of transformation.

To create custom pipe using below command as
ng generate pipe Name_Of_Pipe

Example :
 ng generate pipe MarvellousPipe

After this command one .ts file gets created as
 Marvellous-pipe.pipe.ts

Inside the .ts file pipe decorator contains name of the pipe as

```
@Pipe({
  name: 'marvellousPipe'
})
```

Inside class there is one method named as transform which gets called by Angular when we use custom pipe in our application.

Example.

```
export class MarvellousPipePipe implements PipeTransform
{
  transform(value: any, ...args): any
  {
    // Logic that we want to implement
  }
}
```