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Angular custom pipe

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In this video we will discuss **creating a Custom Pipe in Angular.** Let us understand this with an example.

Here is what we want to do. Depending on the gender of the employee, we want to display Mr. or Miss. prefixed to the employee name as shown below.

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Code	Name	Gender	Annual Salary	Date of Birth
emp101	Mr.Tom	Male	5500	25/6/1988
emp102	Mr.Alex	Male	5700.95	9/6/1982
emp103	Mr.Mike	Male	5900	12/8/1979
emp104	Miss.Mary	Female	6500.826	14/10/1980
emp105	Miss.Nancy	Female	6700.826	15/12/1982

Step 1 : To achieve this let's create a custom pipe called employeeTitlePipe. Right click on the "employee" folder and add a new TypeScript file. Name it "employeeTitle.pipe.ts". Copy and paste the following code.

Code Explanation :

- Import Pipe decorator and PipeTransform interface from Angular core
- Notice "EmployeeTitlePipe" class is decorated with Pipe decorator to make it an Angular pipe
- name property of the pipe decorator is set to employeeTitle. This name can then be used on any HTML page where you want this pipe functionality.
- EmployeeTitlePipe class implements the PipeTransform interface. This interface has one method transform() which needs to be implemented.
- Notice the transform method has 2 parameters. value parameter will receive the name of the employee and gender parameter receives the gender of the employee. The method returns a string i.e Mr. or Miss. prefixed to the name of the employee depending on their gender.

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

@Pipe({
    name: 'employeeTitle'
})
export class EmployeeTitlePipe implements PipeTransform {
    transform(value: string, gender: string): string {
```

```
        if (gender.toLowerCase() == "male")
            return "Mr." + value;
        else
            return "Miss." + value;
    }
}
```

Step 2 : Register "EmployeeTitlePipe" in the angular module where we need it. In our case we need it in the root module. So in app.module.ts file, import the EmployeeTitlePipe and include it in the "declarations" array of NgModule decorator

```
import { EmployeeTitlePipe } from './employee/employeeTitle.pipe'

@NgModule({
    imports: [BrowserModule],
    declarations: [AppComponent, EmployeeComponent,
                EmployeeListComponent, EmployeeTitlePipe],
    bootstrap: [AppComponent]
})

export class AppModule { }
```

Step 3 : In "employeeList.component.html" use the "EmployeeTitlePipe" as shown below. Notice we are passing employee gender as an argument for the gender parameter of our custom pipe. Employee name gets passed automatically.

```
<tr *ngFor='let employee of employees;'>
    <td>{{employee.code}}</td>
    <td>{{employee.name | employeeTitle:employee.gender}}</td>
    <td>{{employee.gender}}</td>
    <td>{{employee.annualSalary}}</td>
    <td>{{employee.dateOfBirth}}</td>
</tr>
```

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Sajjad Hussain August 22, 2017 at 6:44 AM

Best I Like Your Way

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Rajeev Kumar Jha June 13, 2018 at 6:04 AM

is anybody know the syntax trick where we use '=' or ':' examples are *ngFor='your loop' where as some place myCustomPipe:

Reply

Ramkee June 27, 2018 at 3:45 AM

I would like to create multiple custom filters as like "EmployeeTitle", How to do that ?

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