

## **AngularJS Expressions**

**Topics :** <u>AngularJS</u> Written on <u>January 09, 2024</u>

AngularJS expressions are JavaScript-like code snippets that are used to bind data to HTML elements or attributes within an AngularJS application. These expressions are usually enclosed in double curly braces ({{ }}) and are placed in the HTML code to display dynamic content. AngularJS expressions are evaluated in the context of the current scope.

Here are some key points about AngularJS expressions:

- 1. **Syntax:** AngularJS expressions use a simple syntax with double curly braces, like this: {{ expression }}.
- 2. **Data Binding:** Expressions are commonly used for data binding, allowing you to display dynamic content by binding variables from the AngularJS scope to HTML elements.

Example:

{{ message }}

In this example, if there's a variable named message in the current scope, its value will be displayed inside the paragraph element.

3. **JavaScript-Like:** AngularJS expressions support a subset of JavaScript, allowing you to perform basic operations and evaluations.

Example:

{{ 2 + 2 }}

The result of the expression 2 + 2 will be displayed in the paragraph.

4. **Filtering:** AngularJS expressions can also use filters to format data before displaying it. Filters are added to expressions using a pipe (|) symbol.

Example:

{{ message | uppercase }}

In this case, the uppercase filter is applied to the message variable, converting its value to

uppercase before display.

- 5. **Avoid Side Effects:** While expressions can contain code, it's generally recommended to keep them simple and avoid using them for complex logic or side-effect-causing operations. They are primarily meant for displaying data.
- 6. **Context:** Expressions are evaluated in the context of the current scope. If a variable is not found in the current scope, AngularJS will look for it in parent scopes until it reaches the root scope.

Example of using expressions in an AngularJS template:

```
<!DOCTYPE html>
<html lang="en" ng-app="myApp">
<head>
<meta charset="UTF-8">
<title>AngularJS Expressions</title>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="myController">
<h1>{{ greeting }}</h1>
{{ "Current Date: " + currentDate | date: 'fullDate' }}
<script>
angular.module('myApp', []).controller('myController', function($scope) {
$scope.greeting = 'Hello, Angular!';
$scope.currentDate = new Date();
});
</script>
</body>
</html>
```

In this example, the {{ greeting }} expression binds the value of the greeting variable to the heading, and the {{ "Current Date: " + currentDate | date: 'fullDate' }} expression concatenates a string with the formatted date and displays it in a paragraph.

© Copyright Aryatechno. All Rights Reserved. Written tutorials and materials by <u>Aryatechno</u>