

AngularJS Introduction

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AngularJS is a **JavaScript framework**. It can be added to an HTML page with a `<script>` tag.

AngularJS extends HTML attributes with **Directives**, and binds data to HTML with **Expressions**.

AngularJS is a JavaScript Framework

AngularJS is a JavaScript framework. It is a library written in JavaScript.

AngularJS is distributed as a JavaScript file, and can be added to a web page with a script tag:

```
<script
src="http://ajax.googleapis.com/ajax/libs/angularjs/1.2.26/angular.min.js"></script>
```

AngularJS Extends HTML

AngularJS extends HTML with **ng-directives**.

The **ng-app** directive defines an AngularJS application.

The **ng-model** directive binds the value of HTML controls (input, select, textarea) to application data.

The **ng-bind** directive binds application data to the HTML view.

AngularJS Example

```
<!DOCTYPE html>
<html>

<head>
<script
src="http://ajax.googleapis.com/ajax/libs/angularjs/1.2.26/angular.min.js"></script>
</head>

<body>

<div ng-app="">
  <p>Name: <input type="text" ng-model="name"></p>
```

```
<p ng-bind="name"></p>
</div>

</body>
</html>
```

Try it Yourself » (tryit.asp?filename=try_ng_intro)

Example explained:

AngularJS starts automatically when the web page has loaded.

The **ng-app** directive tells AngularJS that the `<div>` element is the "owner" of an AngularJS **application**.

The **ng-model** directive binds the value of the input field to the application variable **name**.

The **ng-bind** directive binds the **innerHTML** of the `<p>` element to the application variable **name**.

AngularJS Directives

As you have already seen, AngularJS directives are HTML attributes with an **ng** prefix.

The **ng-init** directive initialize AngularJS application variables.

AngularJS Example

```
<div ng-app="" ng-init="firstName='John'">
  <p>The name is <span ng-bind="firstName"></span></p>
</div>
```

Try it Yourself » (tryit.asp?filename=try_ng_intro_directives)



You can use **data-ng-**, instead of **ng-**, if you want to make your page HTML5 valid.

Alternatively with valid HTML5:

AngularJS Example

```
<div data-ng-app="" data-ng-init="firstName='John'">
  <p>The name is <span data-ng-bind="firstName"></span></p>
```

```
</div>
```

Try it Yourself » (tryit.asp?filename=try_ng_intro_directives_html)

You will learn a lot more about directives later in this tutorial.

AngularJS Expressions

AngularJS expressions are written inside double braces: **{{ expression }}**.

AngularJS expressions bind data to HTML the same way as the **ng-bind** directive.

AngularJS will "output" data exactly where the expression is written.

AngularJS Example

```
<!DOCTYPE html>
<html>

<head>
<script
src="http://ajax.googleapis.com/ajax/libs/angularjs/1.2.26/angular.min.js"></script>
</head>

<body>

<div ng-app="">
  <p>My first expression: {{ 5 + 5 }}</p>
</div>

</body>
</html>
```

Try it Yourself » (tryit.asp?filename=try_ng_intro_expression)

You will learn more about expressions later in this tutorial.

AngularJS Controllers

AngularJS applications are controlled by **controllers**.

The **ng-controller** directive defines the controller.

The controller code will execute when the page loads.

AngularJS Example

```
<div ng-app="" ng-controller="personController">
```

```
First Name: <input type="text" ng-model="firstName"><br>
Last Name: <input type="text" ng-model="lastName"><br>
<br>
Full Name: {{firstName + " " + lastName}}

</div>

<script>
function personController($scope) {
    $scope.firstName = "John";
    $scope.lastName = "Doe";
}
</script>
```

Try it Yourself » (tryit.asp?filename=try_ng_intro_controller)

You will learn a lot more about controllers later in this tutorial.

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