Razor Syntax

Razor is one of the view engine supported in ASP.NET MVC. Razor allows you to write mix of HTML and server side code using C# or Visual Basic. Razor view with visual basic syntax has .vbhtml file extension and C# syntax has .cshtml file extension.

Razor syntax has following Characteristics:

› **Compact**: Razor syntax is compact which enables you to minimize number of characters and keystrokes required to write a code.

› **Easy to Learn**: Razor syntax is easy to learn where you can use your familiar language C# or Visual Basic.

› **Intellisense**: Razor syntax supports statement completion within Visual Studio.

Now, let's learn how to write razor code.

Inline expression

Start with @ symbol to write server side C# or VB code with Html code. For example, write @Variable_Name to display a value of a server side variable. For example, DateTime.Now returns a current date and time. So, write @DateTime.Now to display current datetime as shown below. A single line expression does not require a semicolon at the end of the expression.

C# Razor Syntax

```html
<h1>Razor syntax demo</h1>

<h2>@DateTime.Now.ToShortDateString()</h2>
```

Output:
Razor syntax demo 08-09-2014

Multi-statement Code block

You can write multiple line of server side code enclosed in braces `@{ ... }`. Each line must ends with semicolon same as C#.

Example: Server side Code in Razor Syntax

```razor
@{
    var date = DateTime.Now.ToShortDateString();
    var message = "Hello World";
}

<h2>Today's date is: @date </h2>
<h3>@message</h3>
```

> Output:
>
> Today's date is: 08-09-2014
> Hello World!

Display Text from Code Block

Use `@:` or `<text>/<text>` to display texts within code block.

Example: Display Text in Razor Syntax

```
@{
    var date = DateTime.Now.ToShortDateString();
    string message = "Hello World!";
    @:Today's date is: @date <br />
    @message
}
```

> Output:
>
> Today's date is: 08-09-2014
> Hello World!

Display text using <text> within a code block as shown below.

Example: Text in Razor Syntax

```
@{
    var date = DateTime.Now.ToShortDateString();
    string message = "Hello World!";
    <text>Today's date is:</text> @date <br />
    @message
}
```

Output:

```
Today's date is: 08-09-2014
Hello World!
```

if-else condition

Write if-else condition starting with @ symbol. The if-else code block must be enclosed in braces { }, even for single statement.

Example: if else in Razor

```
@if(DateTime.IsLeapYear(DateTime.Now.Year) )
{
    @DateTime.Now.Year @:is a leap year.
}
else {
```

```
        @DateTime.Now.Year @:is not a leap year.
    }
```

Output:

2014 is not a leap year.

for loop

Example: for loop in Razor

```
@for (int i = 0; i < 5; i++) {
    @i.ToString() <br />
}
```

Output:

```
0
1
2
3
4
```

Model

Use @model to use model object anywhere in the view.

Example: Use Model in Razor

```
@model Student

<h2>Student Detail:</h2>
<ul>
    <li>Student Id: @Model.StudentId</li>
    <li>Student Name: @Model.StudentName</li>
    <li>Age: @Model.Age</li>
</ul>
```

Output:

Student Detail:

- Student Id: 1
- Student Name: John
- Age: 18

Declare Variables

Declare a variable in a code block enclosed in brackets and then use those variables inside html with @ symbol.

Example: Variable in Razor

```
@{
    string str = "";

    if(1 > 0)
    {
        str = "Hello World!";
    }
}


<p>@str</p>
```

Output:

```
Hello World!
```

So this was some of the important razor syntaxes. Visit asp.net to learn razor syntax ⬀ in detail.

💡 Points to Remember :

1) Use @ to write server side code.

2) Server side code block starts with @{* code * }

3) Use @: or <text></<text> to display text from code block.

4) if condition starts with @if{ }

5) for loop starts with @for

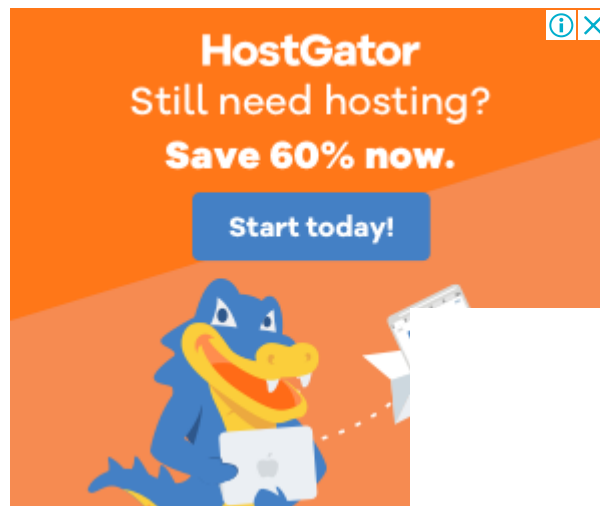6) @model allows you to use model object anywhere in the view.

TUTORIALSTEACHER.COM

TutorialsTeacher.com is optimized for learning web technologies step by step. Examples might be simplified to improve reading and basic understanding. While using this site, you agree to have read and accepted our terms of use and privacy policy.

✉ feedback@tutorialsteacher.com

TUTORIALS

> ASP.NET Core   > AngularJS 1

> ASP.NET MVC   > Node.js

> IoC   > D3.js

> Web API   > JavaScript

> C#   > jQuery

> LINQ   > Sass

> Entity Framework   > Https

E-MAIL LIST

Subscribe to TutorialsTeacher email list and get latest updates, tips & tricks on C#, .Net, JavaScript, jQuery, AngularJS, Node.js to your inbox.

Email address   GO

We respect your privacy.

HOME   PRIVACY POLICY   TERMS OF USE   ADVERTISE WITH US