

# String Expression Directives

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String expression directives are a collection of directives that control the output of a string expression.

## Conditional Directives: {{#if}}, {{#else}}, and {{#endif}}

The {{#if}}, {{#else}}, and {{#endif}} conditional directives are used to all part of an expression to be conditionally included or suppressed from the expression output.

### Syntax

```
 {{#if ()}}
   output
 {{#else}}
   output
 {{#endif}}
```

The variable is a valid Boolean expression.

### Example

Your request was {{#if({Form1}.Query("UACT1").Approved)}}approved {{#else}}declined {{#endif}}.

## Iteration Directives: {{#for}} and {{#endfor}}

The {{#for}} and {{#endfor}} iteration directives are used to allow looping over Cora SeQuence.

### Syntax

```
 {{#for ()}}
   output
 {{#endfor}}
```

The variable is any valid expression.

### Example

```
 {{#for ({Form1}.Query("Employees"))}}
{{#endfor}}
{: it.FirstName }           {: it.LastName }
```

## Text Directive: {{=}}

The {{=}} text directive is used to insert an expression evaluation result into the output, without applying encoding.

## Syntax

```
{ {= } }
```

The variable is any valid expression.

## Example (XML)

```
{ {= "1" } }
```

This expression returns the following output:

```
1
```

## Text Directive: {{:}}

The {{:}} text directive is used to insert an expression evaluation result into the output, with first applying encoding.

## Syntax

```
{ {: } }
```

The variable is any valid expression.

## Example (JSON)

```
 {{#for ((Form1).Query("Employees").First()) }}
```

```
{
```

```
  Name: {{: it.Name }},
  Email: {{: it.Email }},
  BirthDay: {{: it.BirthDay }},
}
{{#endfor}}
```

This expression returns the following output:

```
{
  Name: "Chuck Norris",
  Email: null,
  LastUpdatedOn: "2016-06-15T13:45:30",
}
```

## Example (XML)

```
{ {: "Q&A" } }
```

This expression returns the following output:

```
Q&A
```

## Comment Directive: {{ \* \* }}

The comment directive allows you to add descriptive text to an expression.

### Example

```
{/* This is a comment */}
```

## Expression Extension: #t

The #t expression extension provides additional information about an expression scope that is actively evaluating, specifically inside iteration directives. It exposes Cora SeQuence count and current element index properties.

### Syntax

```
#t.Scope.Count
```

Returns the number of elements in the Cora SeQuence.

```
#t.Scope.Index
```

Returns the index of the element being iterated.

### Example (JSON)

```
[  
{{#for ((Form1).Query("Products")) }}  
{  
    Name: {{: ProductName }},  
    Category: {{: CategoryName }},  
    Price: {{: UnitPrice}}  
} {{#if (#t.Scope.Index < #t.Scope.Count-1) }},{{#endif}}}  
{#endfor}  
]
```