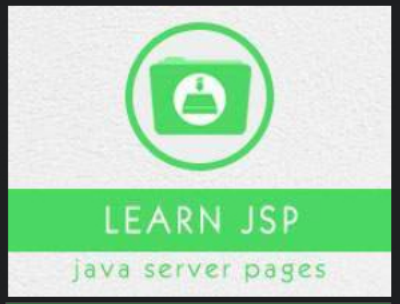

JSTL - Core <fmt:formatNumber> Tag

Previous Page Next Page

The **<fmt:formatNumber>** tag is used to format **numbers, percentages,** and **currencies**.

Attribute

The **<fmt:formatNumber>** tag has the following attributes –

Attribute	Description	Required	Default
Value	Numeric value to display	Yes	None
type	NUMBER, CURRENCY, or PERCENT output.	No	Number
currencyCode	Currency code (for type = "currency")	No	From the default locale
currencySymbol	Currency symbol (for type = "currency")	No	From the default locale
groupingUsed	Whether to group numbers (TRUE or FALSE)	No	true
maxIntegerDigits	Maximum number of integer digits to print	No	None
minIntegerDigits	Minimum number of integer digits to print	No	None
maxFractionDigits	Maximum number of fractional digits to print	No	None
minFractionDigits	Minimum number of fractional digits to print	No	None
var	Name of the variable to store the formatted number	No	Print to page
scope	Scope of the variable to store the formatted number	No	page

- If the type attribute is percent or number, then you can use several number-formatting attributes. The **maxIntegerDigits** and **minIntegerDigits** attributes allow you to specify the size of the nonfractional portion of the number. If the actual number exceeds **maxIntegerDigits**, then the number is truncated.
- Attributes are also provided to allow you to determine how many decimal places should be used. The **minFractionalDigits** and **maxFractionalDigits** attributes allow you to specify the number of decimal places. If the number exceeds the maximum number of fractional digits, the number will be rounded.
- Grouping can be used to insert commas between thousands groups. Grouping is specified by setting the **groupingIsUsed** attribute to either true or false. When using grouping with **minIntegerDigits**, you must be careful to get your intended result.
- You may select to use the pattern attribute. This attribute lets you include special characters that specify how you would like your number encoded. Following table lists out the codes.

S.No.	Symbol & Description
1	**0** Represents a digit.
2	**E** Represents in exponential form.
3	**#** Represents a digit; displays 0 as absent.
4	**.** Serves as a placeholder for a decimal separator.
5	**,** Serves as a placeholder for a grouping separator.
6	**;** Separates formats.
7	**-** Used as the default negative prefix.
8	**%** Multiplies by 100 and displays as a percentage.
9	**?** Multiplies by 1000 and displays as per mille.

10	¤ Represents the currency sign; replaced by actional currency symbol.
11	X Indicates that any other characters can be used in the prefix or suffix.
12	' Used to quote special characters in a prefix or suffix.

Example

```
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix = "fmt" uri = "http://java.sun.com/jsp/jstl/fmt" %>

<html>
   <head>
      <title>JSTL fmt:formatNumber Tag</title>
   </head>

   <body>
      <h3>Number Format:</h3>
      <c:set var = "balance" value = "120000.2309" />

      <p>Formatted Number (1): <fmt:formatNumber value = "${balance}"
         type = "currency"/></p>

      <p>Formatted Number (2): <fmt:formatNumber type = "number"
         maxIntegerDigits = "3" value = "${balance}" /></p>

      <p>Formatted Number (3): <fmt:formatNumber type = "number"
         maxFractionDigits = "3" value = "${balance}" /></p>

      <p>Formatted Number (4): <fmt:formatNumber type = "number"
         groupingUsed = "false" value = "${balance}" /></p>

      <p>Formatted Number (5): <fmt:formatNumber type = "percent"
         maxIntegerDigits="3" value = "${balance}" /></p>

      <p>Formatted Number (6): <fmt:formatNumber type = "percent"
         minFractionDigits = "10" value = "${balance}" /></p>

      <p>Formatted Number (7): <fmt:formatNumber type = "percent"
         maxIntegerDigits = "3" value = "${balance}" /></p>

      <p>Formatted Number (8): <fmt:formatNumber type = "number"
         pattern = "###.###E0" value = "${balance}" /></p>

      <p>Currency in USA :
         <fmt:setLocale value = "en_US"/>
         <fmt:formatNumber value = "${balance}" type = "currency"/>
      </p>

   </body>
</html>
```

The above code will generate the following result –

```
Number Format:

Formatted Number (1): £120,000.23

Formatted Number (2): 000.231

Formatted Number (3): 120,000.231

Formatted Number (4): 120000.231

Formatted Number (5): 023%

Formatted Number (6): 12,000,023.0900000000%

Formatted Number (7): 023%

Formatted Number (8): 120E3

Currency in USA : $120,000.23
```

Previous Page Print Page Next Page