

JSTL CORE <FMT:FORMATNUMBER> TAG

http://www.tutorialspoint.com/jsp/jstl_format_formatnumber_tag.htm

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

Attribute:

The <fmt:formatNumber> tag has following attributes:

Attribute	Description	Required	Default
value	Numeric value to display	Yes	None
type	NUMBER, CURRENCY, or PERCENT	No	Number
pattern	Specify a custom formatting pattern for the output.	No	None
currencyCode	Currency code <i>fortype = " currency "</i>	No	From the default locale
currencySymbol	Currency symbol <i>fortype = " currency "</i>	No	From the default locale
groupingUsed	Whether to group numbers <i>TRUEorFALSE</i>	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 groupingsUsed 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 shows these codes.

Symbol	Description
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0	Represents a digit.
E	Represents in exponential form.
#	Represents a digit; displays 0 as absent.
.	Serves as a placeholder for a decimal separator.
,	Serves as a placeholder for a grouping separator.
;	Separates formats.
-	Used as the default negative prefix.
%	Multiplies by 100 and displays as a percentage.
?	Multiplies by 1000 and displays as per mille.
¤	Represents the currency sign; replaced by actional currency symbol.
X	Indicates that any other characters can be used in the prefix or suffix.
'	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"
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        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>

```

This would produce 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): 12,000,023.090000000000%

Formatted Number (7): 023%

Formatted Number (8): 120E3

Currency in USA : \$120,000.23

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