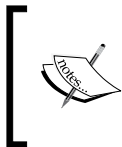


A

XHTML Entities

This chapter lists all of the XHTML entities, along with their entity names, numbers, and descriptions. This list is based on Appendix A, Section 2, of the official XHTML 1.0 specification by the **World Wide Web Consortium (W3C)**. This section can be found online at <http://www.w3.org/TR/2002/REC-xhtml1-20020801/dtds.html#h-A2>. A more usable online reference can be found at <http://www.digitalmediamminute.com/reference/entity/>.

The entities are grouped in categories. Each table lists the named entity, the numbered entity, an example of how the entity will look, and a description. In Facelets page definitions, the named entities cannot be used, as explained in Chapter 3, *Facelets*. The only exception to this rule are the five named entities that represent characters with special meaning in XML, listed in the first section of this appendix.



Note that some entities represent markup codes that do not create any visible character, but can be used to influence spacing, set the reading directions, and similar things. For those entities, 'n/a' is shown in the 'Displayed' column.

Characters with special meaning in XML

The entities listed in the following table can be used to insert characters that would otherwise have a special meaning in an XML file. These five entities are the only ones that can be used as named entities in any XML file, including Facelets page definitions.

Entity	Number	Displayed	Description
&	&	&	Ampersand
>	>	>	Greater-than sign
<	<	<	Less-than sign
'	'	'	Single quotation mark / apostrophe
"	"	"	Double quotation mark

Accents

Entity	Number	Displayed	Description
´	´	´	Acute accent / spacing acute
¸	¸	¸	Cedilla / spacing cedilla
ˆ	ˆ	^	Modifier letter circumflex accent
¯	¯	—	Macron / spacing macron / overline / APL overbar
·	·	·	Middle dot / Georgian comma / Greek middle dot
˜	˜	~	Small tilde
¨	¨	¨	Diaeresis / spacing diaeresis

Accented letters

Entity	Number	Displayed	Description
Á	Á	Á	Latin capital letter A with acute
á	á	á	Latin small letter a with acute
Â	Â	Â	Latin capital letter A with circumflex
â	â	â	Latin small letter a with circumflex
Æ	Æ	Æ	Latin capital letter AE (ligature)
æ	æ	æ	Latin small letter ae (ligature)

Entity	Number	Displayed	Description
À	À	À	Latin capital letter A with grave
à	à	à	Latin small letter a with grave
Å	Å	Å	Latin capital letter A with ring above
å	å	å	Latin small letter a with ring above
Ã	Ã	Ã	Latin capital letter A with tilde
ã	ã	ã	Latin small letter a with tilde
Ä	Ä	Ä	Latin capital letter A with diaeresis
ä	ä	ä	Latin small letter a with diaeresis
Ç	Ç	Ç	Latin capital letter C with cedilla
ç	ç	ç	Latin small letter c with cedilla
É	É	É	Latin capital letter E with acute
é	é	é	Latin small letter e with acute
Ê	Ê	Ê	Latin capital letter E with circumflex
ê	ê	ê	Latin small letter e with circumflex
È	È	È	Latin capital letter E with grave
è	è	è	Latin small letter e with grave
Ð	Ð	Ð	Latin capital letter ETH
ð	ð	ð	Latin small letter eth
Ë	Ë	Ë	Latin capital letter E with diaeresis
ë	ë	ë	Latin small letter e with diaeresis
Í	Í	Í	Latin capital letter I with acute
í	í	í	Latin small letter i with acute
Î	Î	Î	Latin capital letter I with circumflex
î	î	î	Latin small letter i with circumflex
Ì	Ì	Ì	Latin capital letter I with grave
ì	ì	ì	Latin small letter i with grave
Ï	Ï	Ï	Latin capital letter I with diaeresis
ï	ï	ï	Latin small letter i with diaeresis
Ñ	Ñ	Ñ	Latin capital letter N with tilde
ñ	ñ	ñ	Latin small letter n with tilde
Ó	Ó	Ó	Latin capital letter O with acute
ó	ó	ó	Latin small letter o with acute
Ô	Ô	Ô	Latin capital letter O with circumflex
ô	ô	ô	Latin small letter o with circumflex
Œ	Œ	Œ	Latin capital ligature OE

Entity	Number	Displayed	Description
ö	œ	œ	Latin small ligature oe
Ò	Ò	Ò	Latin capital letter O with grave
ò	ò	ò	Latin small letter o with grave
Ø	Ø	Ø	Latin capital letter O with stroke
ø	ø	ø	Latin small letter o with stroke
Õ	Õ	Õ	Latin capital letter O with tilde
õ	õ	õ	Latin small letter o with tilde
Ö	Ö	Ö	Latin capital letter O with diaeresis
ö	ö	ö	Latin small letter o with diaeresis
Š	Š	Š	Latin capital letter S with caron
š	š	š	Latin small letter s with caron
ß	ß	ß	Latin small letter sharp s / ess-zed
Þ	Þ	Þ	Latin capital letter THORN
þ	þ	þ	Latin small letter thorn
Ú	Ú	Ú	Latin capital letter U with acute
ú	ú	ú	Latin small letter u with acute
Û	Û	Û	Latin capital letter U with circumflex
û	û	û	Latin small letter u with circumflex
Ù	Ù	Û	Latin capital letter U with grave
ù	ù	ù	Latin small letter u with grave
Ü	Ü	Ü	Latin capital letter U with diaeresis
ü	ü	ü	Latin small letter u with diaeresis
Ý	Ý	Ý	Latin capital letter Y with acute
ý	ý	ý	Latin small letter y with acute
ÿ	ÿ	ÿ	Latin small letter y with diaeresis
Ÿ	Ÿ	Ÿ	Latin capital letter Y with diaeresis

Currency signs

Entity	Number	Displayed	Description
¢	¢	¢	Cent sign
¤	¤	¤	Currency sign
€	€	€	Euro sign
£	£	£	Pound sign
¥	¥	¥	Yen sign / Yuan sign

Punctuation characters

Entity	Number	Displayed	Description
¦	¦		Broken vertical bar
•	•	•	Bullet / black small circle
©	©	©	Copyright sign
†	†	†	Dagger
‡	‡	‡	Double dagger
⁄	⁄	/	Fraction slash
…	…	...	Horizontal ellipsis / three dot leader
¡	¡	¡	Inverted exclamation mark
ℑ	ℑ	ℐ	Blackletter capital I / imaginary part
?	¿	¿	Inverted question mark / turned question mark
&lrn;	‎	n/a	Left-to-right mark (for formatting only)
—	—	—	em dash
–	–	-	en dash
¬	¬	¬	not sign
‾	‾	—	Overline / spacing overscore
ª	ª	ª	Feminine ordinal indicator
º	º	º	Masculine ordinal indicator
¶	¶	¶	Pilcrow sign / paragraph sign
‰	‰	‰	Per mille sign
′	′	'	Prime / minutes / feet
″	″	"	Double prime / seconds / inches
ℜ	ℜ	R	Blackletter capital R / real part symbol

Entity	Number	Displayed	Description
®	®	®	Registered sign / registered trade mark sign
‏	‏	n/a	Right-to-left mark (for formatting only)
§	§	§	Section sign
­	­	n/a	Soft hyphen / discretionary hyphen (displays incorrectly on Mac)
¹	¹	¹	Superscript one / superscript digit one
™	™	™	Trademark sign
℘	℘	ℙ	Script capital P / power set / Weierstrass p

Quotation marks

Entity	Number	Displayed	Description
„	„	”	Double low-9 quotation mark
«	«	«	Left-pointing double angle quotation mark / left pointing guillemet
“	“	“	Left double quotation mark
‹	‹	‹	Single left-pointing angle quotation mark
‘	‘	‘	Left single quotation mark
»	»	»	Right-pointing double angle quotation mark / right pointing guillemet
”	”	”	Right double quotation mark
›	›	›	Single right-pointing angle quotation mark
’	’	’	Right single quotation mark
‚	‚	,	Single low-9 quotation mark

Spacing

Entity	Number	Displayed	Description
 	 	n/a	em space
 	 	n/a	en space
 	 	n/a	No-break space / non-breaking space
 	 	n/a	Thin space
‍	‍	n/a	Zero width joiner
‌	‌	n/a	Zero width non-joiner

Mathematical symbols

Entity	Number	Displayed	Description
°	°	°	Degree sign
÷	÷	÷	Division sign
½	½	½	Vulgar fraction one half
¼	¼	¼	Vulgar fraction one quarter
¾	¾	¾	Vulgar fraction three quarters
≥	≥	≥	Greater-than or equal to
≤	≤	≤	Less-than or equal to
−	−	–	Minus sign
²	²	²	Superscript digit two / squared
³	³	³	Superscript digit three / cubed
×	×	×	Multiplication sign

More mathematical symbols

Entity	Number	Displayed	Description
ℵ	ℵ	ℵ	Alef symbol / first transfinite cardinal
∧	∧	∧	Logical and / wedge
∠	∠	∠	Angle
≈	≈	≈	Almost equal to / asymptotic to
∩	∩	∩	Intersection / cap
≅	≅	≅	Approximately equal to
∪	∪	∪	Union / cup
∅	∅	∅	Empty set / null set / diameter
≡	≡	≡	Identical to
∃	∃	∃	There exists
ƒ	ƒ	ƒ	Latin small f with hook / function / florin
∀	∀	∀	For all
∞	∞	∞	Infinity
∫	∫	∫	Integral
∈	∈	∈	Element of
⟨	〈	⟨	Left-pointing angle bracket / bracket
⌈	⌈	⌈	Left ceiling / apl upstile

Entity	Number	Displayed	Description
⌊	⌊	⌊	Left floor / apl downstile
∗	∗	*	Asterisk operator
µ	µ	μ	Micro sign
∇	∇	∇	Nabla / backward difference
≠	≠	≠	Not equal to
∋	∋	∋	Contains as member
∉	∉	∉	Not an element of
⊅	⊄	⊄	Not a subset of
⊕	⊕	⊕	Circled plus / direct sum
∨	∨	∨	Logical or / vee
⊗	⊗	⊗	Circled times / vector product
∂	∂	∂	Partial differential
⊥	⊥	⊥	Up tack / orthogonal to / perpendicular
±	±	±	Plus-minus sign
∏	∏	∏	N-ary product / product sign
∝	∝	∝	Proportional to
√	√	√	Square root / radical sign
⟩	〉	⟩	Right-pointing angle bracket / ket
⌉	⌉	⌈	Right ceiling
⌋	⌋	⌋	Right floor
⋅	⋅	⋅	Dot operator
∼	∼	∼	Tilde operator / varies with / similar to
⊂	⊂	⊂	Subset of
⊆	⊆	⊆	Subset of or equal to
∑	∑	∑	N-ary sumation
⊃	⊃	⊃	Superset of
⊇	⊇	⊇	Superset of or equal to
∴	∴	∴	Therefore

Greek alphabets

Entity	Number	Displayed	Description
Α	Α	A	Greek capital letter alpha
α	α	α	Greek small letter alpha
Β	Β	B	Greek capital letter beta
β	β	β	Greek small letter beta
Χ	Χ	X	Greek capital letter chi
χ	χ	χ	Greek small letter chi
Δ	Δ	Δ	Greek capital letter delta
δ	δ	δ	Greek small letter delta
Ε	Ε	E	Greek capital letter epsilon
ε	ε	ε	Greek small letter epsilon
Η	Η	H	Greek capital letter eta
η	η	η	Greek small letter eta
Γ	Γ	Γ	Greek capital letter gamma
γ	γ	γ	Greek small letter gamma
Ι	Ι	I	Greek capital letter iota
ι	ι	ι	Greek small letter iota
Κ	Κ	K	Greek capital letter kappa
κ	κ	κ	Greek small letter kappa
Λ	Λ	Λ	Greek capital letter lambda
λ	λ	λ	Greek small letter lambda
Μ	Μ	M	Greek capital letter mu
μ	μ	μ	Greek small letter mu
Ν	Ν	N	Greek capital letter nu
ν	ν	ν	Greek small letter nu
Ω	Ω	Ω	Greek capital letter omega
ω	ω	ω	Greek small letter omega
Ο	Ο	O	Greek capital letter omicron
ο	ο	ο	Greek small letter omicron
Φ	Φ	Φ	Greek capital letter phi
φ	φ	φ	Greek small letter phi
Π	Π	Π	Greek capital letter pi
π	π	π	Greek small letter pi

Entity	Number	Displayed	Description
π	ϖ	π	Greek pi symbol
Ψ	Ψ	Ψ	Greek capital letter psi
ψ	ψ	ψ	Greek small letter psi
Ρ	Ρ	Ρ	Greek capital letter rho
ρ	ρ	ρ	Greek small letter rho
Σ	Σ	Σ	Greek capital letter sigma
σ	σ	σ	Greek small letter sigma
ς	ς	ς	Greek small letter final sigma
Τ	Τ	Τ	Greek capital letter tau
τ	τ	τ	Greek small letter tau
Θ	Θ	Θ	Greek capital letter theta
θ	θ	θ	Greek small letter theta
ϑ	ϑ	ϑ	Greek small letter theta symbol
ϒ	ϒ	ϒ	Greek upsilon with hook symbol
Υ	Υ	Υ	Greek capital letter upsilon
υ	υ	υ	Greek small letter upsilon
Ξ	Ξ	Ξ	Greek capital letter xi
ξ	ξ	ξ	Greek small letter xi
Ζ	Ζ	Ζ	Greek capital letter zeta
ζ	ζ	ζ	Greek small letter zeta

Shapes and arrows

Entity	Number	Displayed	Description
↵	↵	↵	Downwards arrow with corner leftwards / carriage return
↓	↓	↓	Downwards arrow
⇓	⇓	⇓	Downwards double arrow
↔	↔	↔	Left right arrow
⇔	⇔	⇔	Left right double arrow
←	←	←	Leftwards arrow
⇐	⇐	⇐	Leftwards double arrow
→	→	→	Rightwards arrow
⇒	⇒	⇒	Rightwards double arrow

Entity	Number	Displayed	Description
<code>&uarr;</code>	<code>&#8593;</code>	↑	Upwards arrow
<code>&uArr;</code>	<code>&#8657;</code>	⇑	Upwards double arrow
<code>&clubs;</code>	<code>&#9827;</code>	♣	Black club suit / shamrock
<code>&diams;</code>	<code>&#9830;</code>	♦	Black diamond suit
<code>&hearts;</code>	<code>&#9829;</code>	♥	Black heart suit / valentine
<code>&spades;</code>	<code>&#9824;</code>	♠	Black spade suit
<code>&loz;</code>	<code>&#9674;</code>	◇	Lozenge

B

Trinidad Tags

This appendix lists all available Trinidad components. The *type* column indicates the intended use of the component. A check mark in the *naming container* column indicates that this component is a **naming container**. This implies that the `id` attribute is required for this component. Naming containers also have a special role when referencing components in a page; see the *Working with partialTriggers and naming containers* section in Chapter 6 for details.

Tag	Type	Naming container
<tr:breadcrumbs>	navigation	✓
<tr:chart>	output	
<tr:chooseColor>	input	
<tr:chooseDate>	input	
<tr:column>	layout	
<tr:commandButton>	submit	
<tr:commandLink>	submit	
<tr:commandNavigationItem>	submit	
<tr:document>	structure	
<tr:form>	structure	
<tr:goButton>	navigation	
<tr:goLink>	navigation	
<tr:group>	structure	
<tr:icon>	presentation	
<tr:image>	presentation	
<tr:importScript>	technical	
<tr:inputColor>	input	
<tr:inputDate>	input	

Tag	Type	Naming container
<tr:inputFile>	input	
<tr:inputHidden>	input	
<tr:inputListOfValues>	input	
<tr:inputNumberSpinbox>	input	
<tr:inputText>	input	
<tr:iterator>	technical	✓
<tr:legend>	presentation	
<tr:media>	presentation	
<tr:message>	output	
<tr:messages>	output	
<tr:navigationPane>	navigation	✓
<tr:navigationTree>	navigation	✓
<tr:outputDocument>	output	
<tr:outputFormatted>	output	
<tr:outputLabel>	output	
<tr:outputText>	output	
<tr:page>	structure	✓
<tr:panelAccordion>	layout	
<tr:panelBorderLayout>	layout	
<tr:panelBox>	layout	
<tr:panelButtonBar>	layout	
<tr:panelCaptionGroup>	layout	
<tr:panelChoice>	layout	
<tr:panelFormLayout>	layout	
<tr:panelGroupLayout>	layout	
<tr:panelHeader>	layout	
<tr:panelHorizontalLayout>	layout	
<tr:panelLabelAndMessage>	layout	
<tr:panelList>	layout	
<tr:panelPage>	layout	
<tr:panelPageHeader>	layout	
<tr:panelPopup>	layout	
<tr:panelRadio>	layout	

Tag	Type	Naming container
<tr:panelSideBar>	layout	
<tr:panelTabbed>	layout	
<tr:panelTip>	layout	
<tr:poll>	technical	
<tr:processChoiceBar>	navigation	✓
<tr:progressIndicator>	output	
<tr:resetButton>	input	
<tr:selectBooleanCheckbox>	input	
<tr:selectBooleanRadio>	input	
<tr:selectItem>	input	
<tr:selectManyCheckbox>	input	
<tr:selectManyListbox>	input	
<tr:selectManyShuttle>	input	
<tr:selectOneChoice>	input	
<tr:selectOneListbox>	input	
<tr:selectOneRadio>	input	
<tr:selectOrderShuttle>	input	
<tr:selectRangeChoiceBar>	input	
<tr:separator>	layout	
<tr:showDetail>	layout	
<tr:showDetailHeader>	layout	
<tr:showDetailItem>	layout	
<tr:singleStepButtonBar>	navigation	
<tr:spacer>	layout	
<tr:statusIndicator>	output	
<tr:subform>	structure	✓
<tr:switcher>	structure	
<tr:table>	layout	✓
<tr:train>	navigation	✓
<tr:tree>	layout	✓
<tr:treeTable>	layout	✓
<trh:body>	structure	
<trh:cellFormat>	layout	

Tag	Type	Naming container
<trh:frame>	layout	
<trh:frameBorderLayout>	layout	
<trh:head>	structure	
<trh:html>	structure	
<trh:rowLayout>	layout	
<trh:script>	technical	
<trh:styleSheet>	technical	
<trh:tableLayout>	layout	
<tr:convertColor>	converter	
<tr:convertDateTime>	converter	
<tr:convertNumber>	converter	
<tr:validateByteLength>	validator	
<tr:validateDateRestriction>	validator	
<tr:validateDateTimeRange>	validator	
<tr:validateDoubleRange>	validator	
<tr:validateLength>	validator	
<tr:validateLongRange>	validator	
<tr:validateRegExp>	validator	
<tr:fileDownloadActionListener>	output	
<tr:forEach>	technical	
<tr:resetActionListener>	technical	
<tr:returnActionListener>	technical	
<tr:setActionListener>	technical	

C

Trinidad Text Keys

As discussed in the *Trinidad Skinning* section of Chapter 7, we can also ‘skin’ the default texts that the Trinidad components use. The procedure to do this is described in Chapter 7, and involves adding new texts to a message bundle. To do so, we need the keys that the Trinidad components use for their default texts. The Trinidad project doesn’t provide an official list of keys at the moment. The following table is extracted from the `CoreBundle.xrts` file that can be found in the `myfaces/trinidad/trunk/trinidad-impl/src/main/xrts/org/apache/myfaces/trinidadinternal/renderkit/core/resource/` directory in the Trinidad source code. Trinidad does offer these texts in a lot of other languages, which can be found in the same directory.

Key	Default text (English)
<code>af_menuChoice.LABEL</code>	Switch applications
<code>af_menuChoice.GO_TIP</code>	Go to selected application
<code>af_menuChoice.GO</code>	Go
<code>af_tableSelectMany</code> <code>.SELECT_COLUMN_HEADER</code>	Select
<code>af_tableSelectOne</code> <code>.SELECT_COLUMN_HEADER</code>	Select
<code>af_table.DETAIL_COLUMN_HEADER</code>	Details
<code>afr_compositeTable.MENU_VIEW</code>	View
<code>afr_compositeTable.MENU_COLUMNS</code>	Columns

Key	Default text (English)
afr_compositeTable .MENUITEM_COLUMNS_SHOWALL	Show all
afr_compositeTable .MENUITEM_COLUMNS_SHOWMORECOLUMNS	Show more columns
afr_compositeTable.MENUITEM_FREEZE	Freeze
afr_compositeTable .MENUITEM_MAXIMIZE	Maximize
afr_compositeTable.MENU_SORT	Sort
afr_compositeTable .MENUITEM_SORT_ASCENDING	Ascending
afr_compositeTable .MENUITEM_SORT_DESCENDING	Descending
afr_compositeTable .MENUITEM_SORT_ADVANCED	Advanced
afr_compositeTable.MENUITEM_REORDER	Reorder
afr_compositeTable.MENU_TOOLBARS	Toolbars
afr_compositeTable .MENUITEM_TOOLBARS_DEFAULT	Default
afr_compositeTable .MENUITEM_TOOLBARS_QBE	Query by example
afr_compositeTable.MENU_FORMAT	Format
afr_compositeTable .MENUITEM_RESIZECOLUMNS	Resize columns
afr_compositeTable.MENUITEM_RESET	Reset
afr_compositeTable.MENUITEM_WRAP	Wrap
afr_compositeTable .STATUSBARITEM_ROWS_SELECTED	Rows selected
afr_compositeTable .STATUSBARITEM_ROWS_SELECTED_ALL	All

Key	Default text (English)
afr_compositeTable .STATUSBARITEM_COLUMNS_HIDDEN	Columns hidden
afr_compositeTable .STATUSBARITEM_COLUMNS_FROZEN	Columns frozen
afr_compositeTreeTable .MENUITEM_EXPAND	Expand
afr_compositeTreeTable .MENUITEM_COLLAPSE	Collapse
afr_compositeTreeTable .MENUITEM_EXPAND_ALL_BELOW	Expand all below
afr_compositeTreeTable .MENUITEM_COLLAPSE_ALL_BELOW	Collapse all below
afr_compositeTreeTable .MENUITEM_EXPAND_ALL	Expand all
afr_compositeTreeTable .MENUITEM_COLLAPSE_ALL	Collapse all
afr_compositeTreeTable .MENUITEM_GO_UP	Go up
afr_compositeTreeTable .MENUITEM_SHOW_AS_TOP	Show as top
afr_compositeTreeTable .MENUITEM_GO_TO_TOP	Go to top
af_treeTable.FOCUS_COLUMN_HEADER	Focus
af_column.SORTED_ASCEND_TIP	Sorted in ascending order
af_column.SORTED_DESCEND_TIP	Sorted in descending order
af_column.SORTED_SORTABLE_TIP	Not sorted
af_singleStepButtonBar.BACK	Bac&#k
af_processChoiceBar.BACK	Bac&#k
af_singleStepButtonBar.NEXT	Ne&#xt

Key	Default text (English)
af_processChoiceBar.NEXT	Next
af_singleStepButtonBar.CONTINUE	&Continue
af_processChoiceBar.CONTINUE	&Continue
af_selectRangeChoiceBar.PREVIOUS	Previous {0}
af_table.SELECT_RANGE_PREVIOUS	Previous {0}
af_selectRangeChoiceBar.NEXT	Next {0}
af_table.SELECT_RANGE_NEXT	Next {0}
af_selectRangeChoiceBar.DISABLED_NEXT	Next
af_table.SELECT_RANGE_DISABLED_NEXT	Next
af_treeTable.DISABLED_NEXT	Next
af_selectRangeChoiceBar.DISABLED_PREVIOUS	Previous
af_table.SELECT_RANGE_DISABLED_PREVIOUS	Previous
af_treeTable.DISABLED_PREVIOUS	Previous
af_selectRangeChoiceBar.PREVIOUS_TIP	Select to view previous set
af_table.SELECT_RANGE_PREVIOUS_TIP	Select to view previous set
af_treeTable.PREVIOUS_TIP	Select to view previous set
af_selectRangeChoiceBar.NEXT_TIP	Select to view next set
af_table.SELECT_RANGE_NEXT_TIP	Select to view next set
af_treeTable.NEXT_TIP	Select to view next set
af_table.SELECT_RANGE_PREV_DISABLED_TIP	Previous functionality disabled
af_selectRangeChoiceBar.PREV_DISABLED_TIP	Previous functionality disabled

Key	Default text (English)
af_table .SELECT_RANGE_NEXT_DISABLED_TIP	Next functionality disabled
af_selectRangeChoiceBar .NEXT_DISABLED_TIP	Next functionality disabled
af_selectRangeChoiceBar.CHOICE_TIP	Select record set
af_table.SELECT_RANGE_CHOICE_TIP	Select record set
af_selectRangeChoiceBar.PREVIOUS_OPTION	Previous
af_table .SELECT_RANGE_PREVIOUS_OPTION	Previous
af_selectRangeChoiceBar.MORE_OPTION	More
af_table.SELECT_RANGE_MORE_OPTION	More
af_selectRangeChoiceBar.SHOW_ALL	Show all {0}
af_table.SELECT_RANGE_SHOW_ALL	Show all {0}
af_train.FORMAT_TOTAL	{0} {1} of {2}
af_train.FORMAT_NO_TOTAL	{0} {1}
af_singleStepButtonBar.FORMAT_TOTAL	{0} {1} of {2}
af_singleStepButtonBar .FORMAT_NO_TOTAL	{0} {1}
af_selectRangeChoiceBar .CHOICE_FORMAT_TOTAL	{0}-{1} of {2}
af_selectRangeChoiceBar .CHOICE_FORMAT_NO_TOTAL	{0}-{1}
af_table .SELECT_RANGE_CHOICE_FORMAT_TOTAL	{0}-{1} of {2}
af_table .SELECT_RANGE_CHOICE_FORMAT_NO_TOTAL	{0}-{1}
af_train.STEP	Step
af_singleStepButtonBar.STEP	Step

Key	Default text (English)
af_objectLegend.REQUIRED_KEY	Indicates required field
af_tree.FOLDER_TIP	Folder
af_navigationTree.FOLDER_TIP	Folder
af_chooseDate.SUMMARY	Calendar
af_chooseDate.PREVIOUS_MONTH_TIP	Previous month
af_chooseDate.NEXT_MONTH_TIP	Next month
af_chooseDate.MONTH_CHOICE_LABEL	Choose month
af_chooseDate.YEAR_CHOICE_LABEL	Choose year
af_chooseDate.TITLE_FORMAT	{0} {1}
af_chooseDate.DIALOG_TITLE	Pick a date
af_chooseDate.DIALOG_EARLIER	Before {0}
af_chooseDate.DIALOG_LATER	After {0}
af_chooseDate.CANCEL	Cancel
af_inputDate.LAUNCH_PICKER_TIP	Select to access date picker
af_inputColor.PICKER_TITLE	Pick a color
af_chooseColor.TRANSPARENT	Transparent
af_inputColor.PICKER_PROMPT	Color
af_inputColor.LAUNCH_PICKER_TIP	Select to access color picker
af_inputColor.APPLY	Apply
af_inputColor.CANCEL	Cancel
af_chooseDate.GO_BUTTON_LABEL	Go
af_showDetail.DISCLOSED	Hide
af_showDetail.UNDISCLOSED	Show
af_showDetail.DISCLOSED_TIP	Select to hide information

Key	Default text (English)
af_showDetail.UNDISCLOSED_TIP	Select to show information
af_showDetailHeader.DISCLOSED	Hide
af_showDetailHeader.UNDISCLOSED	Show
af_showDetailHeader.DISCLOSED_TIP	Select to hide information
af_showDetailHeader.UNDISCLOSED_TIP	Select to show information
af_table.DISCLOSED	Hide
af_table.UNDISCLOSED	Show
af_table.DISCLOSED_TIP	Select to hide information
af_table.UNDISCLOSED_TIP	Select to show information
af_showOneAccordion.DISCLOSED_TIP	Shown information
af_showOneAccordion.UNDISCLOSED_TIP	Select to show information
af_panelAccordion.DISCLOSED_TIP	Shown information
af_panelAccordion.UNDISCLOSED_TIP	Select to show information
af_selectOrderShuttle .REORDER_UP_ALL_TIP	Move selected items to the top of the list.
af_selectOrderShuttle .REORDER_UP_TIP	Move selected items up one position in the list.
af_selectOrderShuttle .REORDER_DOWN_ALL_TIP	Move selected items to the bottom of the list.
af_selectOrderShuttle .REORDER_DOWN_TIP	Move selected items down one position in the list.
af_selectOrderShuttle .REORDER_UP_ALL	Top
af_selectOrderShuttle.REORDER_UP	Up
af_selectOrderShuttle .REORDER_DOWN_ALL	Bottom
af_selectOrderShuttle.REORDER_DOWN	Down

Key	Default text (English)
af_selectManyShuttle .DESCRIPTION_LABEL	Description
af_selectOrderShuttle .DESCRIPTION_LABEL	Description
af_selectManyShuttle.MOVE_ALL_TIP	Move all items to other list.
af_selectOrderShuttle.MOVE_ALL_TIP	Move all items to other list.
af_selectManyShuttle.MOVE_TIP	Move selected items to other list.
af_selectOrderShuttle.MOVE_TIP	Move selected items to other list.
af_selectManyShuttle.REMOVE_ALL_TIP	Remove all items from list.
af_selectOrderShuttle.REMOVE_ALL_TIP	Remove all items from list.
af_selectManyShuttle.REMOVE_TIP	Remove selected items from the list.
af_selectOrderShuttle.REMOVE_TIP	Remove selected items from the list.
af_selectManyShuttle.MOVE_ALL	Move all
af_selectOrderShuttle.MOVE_ALL	Move all
af_selectManyShuttle.MOVE	Move
af_selectOrderShuttle.MOVE	Move
af_selectManyShuttle.REMOVE_ALL	Remove all
af_selectOrderShuttle.REMOVE_ALL	Remove all
af_selectManyShuttle.REMOVE	Remove
af_selectOrderShuttle.REMOVE	Remove
af_poll.MANUAL	Poll server
af_progressIndicator .DETERMINE_TIP	{0}% complete
af_progressIndicator.PROCESSING	Processing
af_panelTip.TIP	Tip

Key	Default text (English)
af_panelPage. .QUICK_LINKS_RETURN_TOP_TIP	Select to jump to the top of the page.
af_panelPage.QUICK_LINKS_RETURN_TOP	Return to top
af_panelPage.QUICK_LINKS_TIP_FORMAT	Select to jump to “{0}” within the page.
af_train.VISITED_TIP	{0}: Previously visited step
af_train.ACTIVE_TIP	{0}: Active step
af_train.NEXT_TIP	{0}: Next step
af_train.MORE	More
af_train.PREVIOUS	Previous
af_menuTabs.SELECTED_TIP	{0}: Currently selected tab
af_menuTabs.ENABLED_TIP	{0}: Select to go to this tab
af_menuTabs.DISABLED_TIP	{0}: Disabled tab
af_tableSelectMany.SELECT_ALL	Select all
af_tableSelectMany.SELECT_NONE	Select none
af_treeTable.EXPAND_ALL	Expand all
af_treeTable.COLLAPSE_ALL	Collapse all
af_table.SHOW_ALL_DETAILS	Show all details
af_table.HIDE_ALL_DETAILS	Hide all details
af_tree.EXPAND_TIP	Select to expand
af_treeTable.EXPAND_TIP	Select to expand
af_navigationTree.EXPAND_TIP	Select to expand
af_tree.COLLAPSE_TIP	Select to collapse
af_treeTable.COLLAPSE_TIP	Select to collapse
af_navigationTree.COLLAPSE_TIP	Select to collapse

Key	Default text (English)
<code>af_tree.DISABLED_COLLAPSE_TIP</code>	Node expanded
<code>af_treeTable.DISABLED_COLLAPSE_TIP</code>	Node expanded
<code>af_navigationTree.DISABLED_COLLAPSE_TIP</code>	Node expanded
<code>af_treeTable.FOCUS_TIP</code>	Select to focus in
<code>af_treeTable.BREADCRUMB_START_TIP</code>	Hierarchy path start
<code>af_tree.NODE_LEVEL</code>	Level {0}
<code>af_treeTable.NODE_LEVEL</code>	Level {0}
<code>af_navigationTree.NODE_LEVEL</code>	Level {0}
<code>af_selectBooleanCheckbox.READONLY_CHECKED_TIP</code>	Read-only checkbox checked.
<code>af_selectBooleanCheckbox.READONLY_NOT_CHECKED_TIP</code>	Read-only checkbox not checked.
<code>af_selectBooleanRadio.READONLY_CHECKED_TIP</code>	Read-only radio button selected.
<code>af_selectBooleanRadio.READONLY_NOT_CHECKED_TIP</code>	Read-only radio button not selected.
<code>af_panelPage.SKIP_PAST_NAVIGATION</code>	Skip navigation elements to page contents.
<code>af_panelPopup.CLOSE</code>	Hide
<code>af_menuButtons.BLOCK_TITLE</code>	Global buttons
<code>af_panelButtonBar.BLOCK_TITLE</code>	Global buttons
<code>af_menuTabs.BLOCK_TITLE</code>	First-level navigation elements
<code>af_menuBar.BLOCK_TITLE</code>	Second-level navigation elements
<code>af_panelSideBar.BLOCK_TITLE</code>	Third-level navigation elements
<code>af_panelTabbed.BLOCK_TITLE</code>	Fourth-level navigation elements
<code>af_panelHeader.ERROR</code>	Error

Key	Default text (English)
<code>af_messages.ERROR</code>	Error
<code>af_panelHeader.WARNING</code>	Warning
<code>af_messages.WARNING</code>	Warning
<code>af_panelHeader.INFORMATION</code>	Information
<code>af_messages.INFORMATION</code>	Information
<code>af_panelHeader.CONFIRMATION</code>	Confirmation
<code>af_messages.CONFIRMATION</code>	Confirmation
<code>af_panelHeader.PROCESSING</code>	Processing
<code>af_form.SUBMIT_ERRORS</code>	Form validation failures
<code>af_frameBorderLayout</code> <code>.VERTICAL_FRAMESET_LAYOUT_CONTAINER_</code> <code>TITLE</code>	Container for left, center, and right frames
<code>af_frameBorderLayout</code> <code>.HORIZONTAL_FRAMESET_LAYOUT_CONTAINER_</code> <code>TITLE</code>	Container for the top and bottom frames
<code>PPR_TRIGGER_LABEL</code>	Go
<code>ERROR_TIP</code>	Error
<code>WARNING_TIP</code>	Warning
<code>INFO_TIP</code>	Info
<code>REQUIRED_TIP</code>	Required
<code>STATUS_SELECTED</code>	Selected
<code>SKIP_CURRENT_NAVIGATION_BLOCK</code>	Skip all {0}
<code>NO_SCRIPT_MESSAGE</code>	This page uses JavaScript and requires a JavaScript enabled browser. Your browser is not JavaScript enabled.
<code>FRAME_CONTENT</code>	Content

Key	Default text (English)
WINDOW_CREATION_ERROR	A pop-up window blocker has been detected in your browser. Pop-up blockers interfere with the operation of this application. Please disable your pop-up blocker or allow pop ups from this site.
NO_FRAMES_MESSAGE	Your browser does not support frames. Frames support is required for this functionality.
SHUTTLE_NO_ITEMS_FEEDBACK	There are no items to move.
SHUTTLE_NO_ITEM_SELECTED_FEEDBACK	Please select the items to move first.
af_chart.IE_SVG_PLUGIN_ERROR_HTML	<H4>Unable to load SVG plugin. Please install the plugin from Adobe<H4>
af_chart.SVG_ENABLED_BROWSER_ERROR_HTML	<H4> This component needs an SVG enabled browser such as Internet Explorer, Firefox 1.5+, or Opera 9.0+ <H4>
af_chart.SVG_LOADING_STATUS_HTML	<H4><H4> Please Wait. Attempting to load SVG document...</H4><H4>
af_treeTOC.LABEL	Browse
af_treeTOC.CATEGORY_LABEL	Categories
af_treeTOC.ITEM_LABEL	Items
TABLE_ADD_ROW_SINGLE_TEXT	Add another row
TABLE_ADD_ROW_MULTI_TEXT	Add {0} rows
TABLE_TOTAL_ROW_BUTTON_TEXT	Recalculate
TABLE_TOTAL_ROW_TEXT	Total

Key	Default text (English)
LOV_CHOICE_MORE_OPTION	More
RTE_CUT_BUTTON_TEXT	Cut
RTE_COPY_BUTTON_TEXT	Copy
RTE_PASTE_BUTTON_TEXT	Paste
RTE_BOLD_BUTTON_TEXT	Bold
RTE_ITALIC_BUTTON_TEXT	Italic
RTE_UNDERLINE_BUTTON_TEXT	Underline
RTE_BREAK_BUTTON_TEXT	Break
RTE_LEFT_ALIGN_BUTTON_TEXT	Align left
RTE_CENTER_ALIGN_BUTTON_TEXT	Align center
RTE_RIGHT_ALIGN_BUTTON_TEXT	Align right
RTE_HR_BUTTON_TEXT	Horizontal rule
RTE_NUMBERING_BUTTON_TEXT	Number order list
RTE_BULLETS_BUTTON_TEXT	Bulleted list
RTE_DECREASE_INDENT_BUTTON_TEXT	Decrease indent
RTE_INCREASE_INDENT_BUTTON_TEXT	Increase indent
RTE_CREATE_HYPERLINK_BUTTON_TEXT	Create hyperlink
RTE_HYPERLINK_POPUP_TEXT	Enter link location (for example, http://www.oracle.com).
RTE_CLICK_THRU_URL_BUTTON_TEXT	Click through destination URL.
RTE_UPLOAD_IMAGE_BUTTON_TEXT	Upload image
RTE_FONT_CHOICE_TEXT	Font
RTE_FONT_SIZE_CHOICE_TEXT	Font size
RTE_FONT_COLOR_CHOICE_TEXT	Font color

Key	Default text (English)
RTE_CHANGE_TO_RICH_TEXT_MODE	Change to rich text mode.
RTE_CHANGE_TO_TEXT_MODE	Change to plain text mode.
RTE_HTML_SOURCE	View HTML source
RTE_RICH_TEXT_MODE_MAX_LENGTH_ALERT	You have exceeded the maximum length of the field. Please re-enter a shorter value.
SEARCH_AND_SELECT_FORMAT	Search and select: {0}
SEARCH_TEXT	Search
SIMPLE_SEARCH_TEXT	Simple search
ADVANCED_SEARCH_TEXT	Advanced search
SEARCH_BY_TEXT	Search by
SEARCH_FIELD_SHORT_DESC_TEXT	Search term
RESULTS_TEXT	Results
NAVBAR_STRING_RANGE_FORMAT	{0} - {1}
af_treeTable .NAV_CELL_FORMAT_T_C_private	{0}: {1} {2} of {3}
af_treeTable .NAV_CELL_FORMAT_NT_C_private	{0} {1} of {2}
af_treeTable .NAV_CELL_FORMAT_T_NC_private	{0}: {1} {2}
af_treeTable .NAV_CELL_FORMAT_NT_NC_private	{0} {1}
af_messages.LIST_FORMAT_private	- {0}
af_messages.GLOBAL_MESSAGE_FORMAT	{0} - {1}
af_statusIndicator.BUSY	Page is busy processing.
af_statusIndicator.READY	Page is ready.

D

Default JSF Error Messages

This appendix lists the keys and values of the default error messages provided by the JSF framework. These messages can be overridden in an application-specific message bundle. Note that most error messages consist of a summary message and a detailed message. The convention is that the key of the detailed message is the key of the summary with `_detail` appended to it.

The listed default message is a ‘non-normative indication of the intended message text’ as specified by the JSF 1.2 standard. JSF implementations may use alternative message texts. The MyFaces Core implementation uses the messages listed in the JSF specification. The specification prescribes that the placeholder with the largest number will be replaced by the label of the component that causes the error.

For example, if an input text component has a `Boolean` converter attached and the input value is not ‘true’ or ‘false’, the message **{1}: “{0}” must be ‘true’ or ‘false’. Any value other than ‘true’ will evaluate to ‘false’.** will be shown. In this message, **{1}** will be replaced by the label of the input text component and **{0}** will be replaced by the erroneous value that the user has entered.

Key	Default message
<code>javax.faces.component .UIInput.CONVERSION</code>	<code>{0}</code> : Conversion error occurred.
<code>javax.faces.component .UIInput.REQUIRED</code>	<code>{0}</code> : Validation Error: Value is required.
<code>javax.faces.component .UIInput.UPDATE</code>	<code>{0}</code> : An error occurred when processing your submitted information.
<code>javax.faces.component .UISelectOne.INVALID</code>	<code>{0}</code> : Validation Error: Value is not valid.

Key	Default message
<code>javax.faces.component .UISelectMany.INVALID</code>	{0}: Validation Error: Value is not valid.
<code>javax.faces.converter .BigDecimalConverter.DECIMAL</code>	{2}: "{0}" must be a signed decimal number.
<code>javax.faces.converter .BigDecimalConverter.DECIMAL_detail</code>	{2}: "{0}" must be a signed decimal number consisting of zero or more digits, that may be followed by a decimal point and fraction; for example, {1}.
<code>javax.faces.converter .BigIntegerConverter.BIGINTEGER</code>	{2}: "{0}" must be a number consisting of one or more digits.
<code>javax.faces.converter .BigIntegerConverter.BIGINTEGER_detail</code>	{2}: "{0}" must be a number consisting of one or more digits; for example, {1}.
<code>javax.faces.converter .BooleanConverter.BOOLEAN</code>	{1}: "{0}" must be 'true' or 'false'.
<code>javax.faces.converter .BooleanConverter.BOOLEAN_detail</code>	{1}: "{0}" must be 'true' or 'false'. Any value other than 'true' will evaluate to 'false'.
<code>javax.faces.converter .ByteConverter.BYTE</code>	{2}: "{0}" must be a number between 0 and 255.
<code>javax.faces.converter .ByteConverter.BYTE_detail</code>	{2}: "{0}" must be a number between 0 and 255. Example: {1}.
<code>javax.faces.converter .CharacterConverter.CHARACTER</code>	{1}: "{0}" must be a valid character.
<code>javax.faces.converter .CharacterConverter.CHARACTER_detail</code>	{1}: "{0}" must be a valid ASCII character.
<code>javax.faces.converter .DateTimeConverter.DATE</code>	{2}: "{0}" could not be understood as a date.
<code>javax.faces.converter .DateTimeConverter.DATE_detail</code>	{2}: "{0}" could not be understood as a date; for example, {1}.
<code>javax.faces.converter .DateTimeConverter.TIME</code>	{2}: "{0}" could not be understood as a time.

Key	Default message
<code>javax.faces.converter .DateTimeConverter.TIME_detail</code>	{2}: "{0}" could not be understood as a time; for example, {1}.
<code>javax.faces.converter .DateTimeConverter.DATETIME</code>	{2}: "{0}" could not be understood as a date and time.
<code>javax.faces.converter .DateTimeConverter.DATETIME_detail</code>	{2}: "{0}" could not be understood as a date and time; for example, {1}.
<code>javax.faces.converter .DateTimeConverter.PATTERN_TYPE</code>	{1}: A 'pattern' or 'type' attribute must be specified to convert the value "{0}".
<code>javax.faces.converter .DoubleConverter.DOUBLE</code>	{2}: "{0}" must be a number consisting of one or more digits.
<code>javax.faces.converter .DoubleConverter.DOUBLE_detail</code>	{2}: "{0}" must be a number between 4.9E-324 and 1.7976931348623157E308; for example, {1}.
<code>javax.faces.converter .EnumConverter.ENUM</code>	{2}: "{0}" must be convertible to an enum.
<code>javax.faces.converter .EnumConverter.ENUM_detail</code>	{2}: "{0}" must be convertible to an enum from the enum that contains the constant "{1}".
<code>javax.faces.converter .EnumConverter.ENUM_NO_CLASS</code>	{1}: "{0}" must be convertible to an enum from the enum, but no enum class provided.
<code>javax.faces.converter .EnumConverter.ENUM_NO_CLASS_detail</code>	{1}: "{0}" must be convertible to an enum from the enum, but no enum class provided.
<code>javax.faces.converter .FloatConverter.FLOAT</code>	{2}: "{0}" must be a number consisting of one or more digits.
<code>javax.faces.converter .FloatConverter.FLOAT_detail</code>	{2}: "{0}" must be a number between 1.4E-45 and 3.4028235E38; for example, {1}.
<code>javax.faces.converter .IntegerConverter.INTEGER</code>	{2}: "{0}" must be a number consisting of one or more digits.
<code>javax.faces.converter .IntegerConverter.INTEGER_detail</code>	{2}: "{0}" must be a number between 2147483648 and 2147483647; for example, {1}.

Key	Default message
<code>javax.faces.converter .LongConverter.LONG</code>	{2}: "{0}" must be a number consisting of one or more digits.
<code>javax.faces.converter .LongConverter.LONG_detail</code>	{2}: "{0}" must be a number between 9223372036854775808 and 9223372036854775807; for example, {1}.
<code>javax.faces.converter .NumberConverter.CURRENCY</code>	{2}: "{0}" could not be understood as a currency value.
<code>javax.faces.converter .NumberConverter.CURRENCY_detail</code>	{2}: "{0}" could not be understood as a currency value; for example, {1}.
<code>javax.faces.converter .NumberConverter.PERCENT</code>	{2}: "{0}" could not be understood as a percentage.
<code>javax.faces.converter .NumberConverter.PERCENT_detail</code>	{2}: "{0}" could not be understood as a percentage; for example, {1}.
<code>javax.faces.converter .NumberConverter.NUMBER</code>	{2}: "{0}" is not a number.
<code>javax.faces.converter .NumberConverter.NUMBER_detail</code>	{2}: "{0}" is not a number; for example, {1}.
<code>javax.faces.converter .NumberConverter.PATTERN</code>	{2}: "{0}" is not a number pattern.
<code>javax.faces.converter .NumberConverter.PATTERN_detail</code>	{2}: "{0}" is not a number pattern. Example: {1}.
<code>javax.faces.converter .ShortConverter.SHORT</code>	{2}: "{0}" must be a number consisting of one or more digits.

This information can also be found in the JavaServer™ Faces Specification, Version 1.2, section 2.5.2.4.

E

ExtVal Default Error Messages

This appendix lists the keys and values of the default error messages that are provided by the MyFaces Extensions Validator framework. The annotation that can cause a particular message to be shown is listed in the *Related annotation* column.

Key	Related annotation	Default message
no_match	@Pattern	Invalid format
no_match_detail	@Pattern	The required format is: {0}
duplicated_content_required	@Equals	Input is different
duplicated_content_required_detail	@Equals	Input is different
duplicated_content_denied	@NotEquals	Same input isn't allowed
duplicated_content_denied_detail	@NotEquals	Same input isn't allowed
wrong_date		Wrong date
wrong_date_detail		Wrong date
wrong_date_not_before	@DateIs	Date has to be after {0}
wrong_date_not_before_detail	@DateIs	Date has to be after {0}
wrong_date_not_after	@DateIs	Date has to be before {0}
wrong_date_not_after_detail	@DateIs	Date has to be before {0}

Key	Related annotation	Default message
wrong_date_not_equal	@DateIs	Date isn't equal to {0}
wrong_date_not_equal_detail	@DateIs	Date isn't equal to {0}