

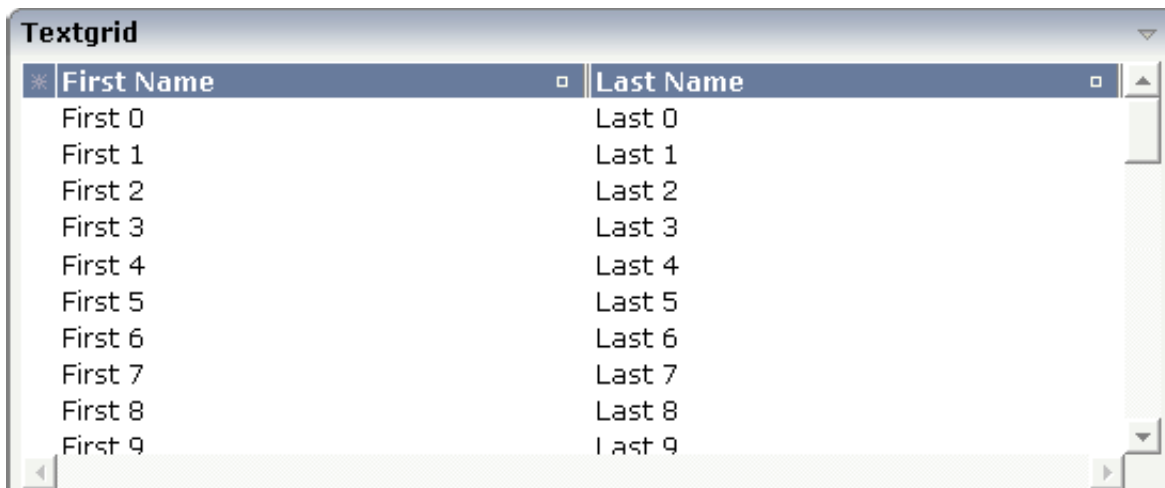
TEXTGRID2

This chapter covers the following topics:

- A Simple Example
 - Adapter Interface
 - Selecting Rows in a TEXTGRID2
 - TEXTGRID2 Properties
 - COLUMN Properties
 - Dynamic Setting of Text Styles in TEXTGRID2
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A Simple Example

The following example shows a TEXTGRID2 control:



There are two columns which hold data. There is one column at the very left which displays a selection icon - in addition to a yellow background for a selected line. Even and odd lines are displayed in slightly different colors. At the very right of each title column, there is a symbol which indicates the sorting status; if you double-click on this symbol, the column is sorted first in ascending direction and, when clicking again, in descending direction. Change the sequence of columns by dragging the title of a column and dropping it on another column's title. Depending from where you drop, the column is either moved left or right.

The asterisk in the upper left corner of the grid is used to select/deselect all lines in the grid. The behavior depends on the setting of the `singleselect` property which determines whether multiple lines can be selected in the grid (default) or whether only one line can be selected:

- **Multiple Line Selection Mode**
When you choose the asterisk for the first time, all lines are selected. When you choose the asterisk a second time, all lines are deselected.

- **Single Line Selection Mode**

When you choose the asterisk (no matter how often), an existing selected line is deselected.

The XML layout definition is:

```
<rowarea name="Textgrid">
  <itr takefullwidth="true" fixlayout="true">
    <textgrid2 griddataprop="lines" width="100%" height="200" selectprop="selected"
      hscroll="true">
      <column name="First Name" property="firstName" width="50%">
      </column>
      <column name="Last Name" property="lastName" width="50%">
      </column>
    </textgrid2>
  </itr>
  <vdist height="5">
  </vdist>
</rowarea>
```

The TEXTGRID2 definition is bound to a grid data property lines.

Inside the TEXTGRID2 control definition there are two columns. These columns are bound to the properties firstName and lastName.

Adapter Interface

In the parameter data area of the adapter, the grid data is represented by the following data structure:

```
DEFINE DATA PARAMETER
1 LINES (1:*)
2 FIRSTNAME (U) DYNAMIC
2 LASTNAME (U) DYNAMIC
2 SELECTED (L)
END-DEFINE
```

Selecting Rows in a TEXTGRID2

Maybe you wonder why there is a selected field in the adapter parameter data area of the previous example.

This field is required for indicating which lines are currently selected and which are not. Each line which is displayed in the TEXTGRID2 control is represented in the adapter by an array occurrence of the array LINES. Therefore, the selection status of the grid (which lines are selected and which lines are not) is mirrored by the corresponding selected field of each array occurrence.

TEXTGRID2 Properties

Basic			
griddataprop	Name of the adapter parameter that represents the grid in the adapter.	Obligatory	

width	<p>Width of the control.</p> <p>There are three possibilities to define the width:</p> <p>(A) You do not define a width at all. In this case the width of the control will either be a default width or - in case of container controls - it will follow the width that is occupied by its content.</p> <p>(B) Pixel sizing: just input a number value (e.g. "100").</p> <p>(C) Percentage sizing: input a percentage value (e.g. "50%"). Pay attention: percentage sizing will only bring up correct results if the parent element of the control properly defines a width this control can reference. If you specify this control to have a width of 50% then the parent element (e.g. an ITR-row) may itself define a width of "100%". If the parent element does not specify a width then the rendering result may not represent what you expect.</p>	Obligatory	<p>100</p> <p>120</p> <p>140</p> <p>160</p> <p>180</p> <p>200</p> <p>50%</p> <p>100%</p>
height	<p>Height of the control.</p> <p>There are three possibilities to define the height:</p> <p>(A) You do not define a height at all. As consequence the control will be rendered with its default height. If the control is a container control (containing) other controls then the height of the control will follow the height of its content.</p> <p>(B) Pixel sizing: just input a number value (e.g. "20").</p> <p>(C) Percentage sizing: input a percentage value (e.g. "50%"). Pay attention: percentage sizing will only bring up correct results if the parent element of the control properly defines a height this control can reference. If you specify this control to have a height of 50% then the parent element (e.g. an ITR-row) may itself define a height of "100%". If the parent element does not specify a width then the rendering result may not represent what you expect.</p>	Obligatory	<p>100</p> <p>150</p> <p>200</p> <p>250</p> <p>300</p> <p>250</p> <p>400</p> <p>50%</p> <p>100%</p>
comment	<p>Comment without any effect on rendering and behaviour. The comment is shown in the layout editor's tree view.</p>	Optional	
Selection			

selectableprop	Name of the adapter parameter that specifies whether a row in the grid is selectable (=true) or not (=false). The default is selectable.	Optional	
selectprop	Name of the adapter parameter that is used to mark if an individual row of the text grid is selected. If the user selects a text grid row, the value "true" is passed into the corresponding array element of the adapter parameter.	Optional	
singleselect	If set to "true" then only one row can be selected inside the text grid. - If set to "false" then multiple lines can be selected by using Ctrl- and Shift-key during mouse selection. Default is "false".	Optional	true false
singleselectprop	Name of an adapter parameter that dynamically defines whether SINGLESELECT is true or false.	Optional	
onclickmethod	Name of the event that is sent to the adapter when the user selects a row. In the event handler you can find the selected rows by iterating through the rows and finding out which one's selected element is set to "true".	Optional	
ondblclickmethod	Name of the event that is sent to the adapter when the user selects a row by a double click. In the event handler you can find the selected rows by iterating through the rows and finding out which one's selected element is set to "true".	Optional	
withselectioncolumn	When defining a SELECTPROP property then automatically a selection column is added as first left column of the grid. Inside the column an icon indicates if a row is currently selected. Set this property to "false" in order to avoid the selection column.	Optional	true false
withselectioncolumnicon	Flag that indicates whether the selection column shows a "select all" icon on top. Default is true.	Optional	true false
fgselect	if switched to true then an additional "graying" of selected lines will be activated. Switch this property to "true" if you have coloured textgrid cells: the selection colour will not override the colour of each cell, as consequence you require an additional effect in order to make the user see which row is selected.	Optional	true false

focusedprop	Name of an adapter parameter that is used to mark if an individual row of the text grid should receive the focus. If the user selects a text grid row, the value "true" is passed into the corresponding array element of the adapter parameter.	Optional	
Right Mouse Button			
oncontextmenumethod	Name of the event that is sent to the adapter when the user clicks with the right mouse button onto an empty area of the grid.	Optional	
singleselectcontextmenu	With SHIFT and CTRL key the user can select multiple lines (use property SINGLESELECT to suppress this feature). Use this property to ensure that the context menu is requested only for a single line. Default is "false".	Optional	true false noselection
enabledefaultcontextmenu	Use this property to enable the default context menu of the browser within the textgrid. Please note: do not enable the browser's context menu if your application itself provides for a context menu. Default is "false".	Optional	true false
Appearance			
width	(already explained above)		
height	(already explained above)		
minapparentrows	Number of rows that are displayed independent of the size of the server side collection.	Optional	1 2 3 int-value
hscroll	Definition of the horizontal scrollbar's appearance. You can define that the scrollbars only are shown if the content is exceeding the control's area ("auto"). Or scrollbars can be shown always ("scroll"). Or scrollbars are never shown - and the content is cut ("hidden"). Default is "auto".	Sometimes obligatory	auto scroll hidden

withtitlerow	<p>If defined as "false" then no top title row is shown.</p> <p>"True" is default.</p>	Optional	true false
colspan	<p>Column spanning of control.</p> <p>If you use TR table rows then you may sometimes want to control the number of columns your control occupies. By default it is "1" - but you may want to define the control to span over more than one columns.</p> <p>The property only makes sense in table rows that are synchronized within one container (i.e. TR, STR table rows). It does not make sense in ITR rows, because these rows are explicitly not synched.</p>	Optional	1 2 3 4 5 50 int-value
rowspan	<p>Row spanning of control.</p> <p>If you use TR table rows then you may sometimes want to control the number of rows your control occupies. By default it is "1" - but you may want to define the control two span over more than one columns.</p> <p>The property only makes sense in table rows that are synchronized within one container (i.e. TR, STR table rows). It does not make sense in ITR rows, because these rows are explicitly not synched.</p>	Optional	1 2 3 4 5 50 int-value
personalizable	<p>If defined to "false" then no re-arranging of columns is offered to the user.</p> <p>Default is "true". This means: if using COLUMN controls inside the grid definition then the user can re-arrange the sequence of columns by dragging and dropping them within the top title row.</p>	Optional	true false

stylevariant	<p>Some controls offer the possibility to define style variants. By this style variant you can address different styles inside your style sheet definition file (.css). If not defined "normal" styles are chosen, if defined (e.g. "VAR1") then other style definitions (xxxVAR1xxx) are chosen.</p> <p>Purpose: you can set up style variants in the style sheet definition and use them multiple times by addressing them via the "stylevariant" property. CIS currently offerst two variants "VAR1" and "VAR2" but does not predefine any semantics behind - this is up to you!</p>	Optional	VAR1 VAR2
backgroundstyle	<p>CSS style definition that is directly passed into this control.</p> <p>With the style you can individually influence the rendering of the control. You can specify any style sheet expressions. Examples are:</p> <p>border: 1px solid #FF0000</p> <p>background-color: #808080</p> <p>You can combine expressions by appending and separating them with a semicolon.</p> <p>Sometimes it is useful to have a look into the generated HTML code in order to know where direct style definitions are applied. Press right mouse-button in your browser and select the "View source" or "View frame's source" function.</p>	Optional	
vscroll	<p>Definition of the vertical scrollbar's appearance.</p> <p>You can define that scrollbars only are shown if the content is exceeding the control's area ("auto"). Or scrollbars can be shown always ("scroll"). Or scrollbars are never shown - and the content is cut ("hidden").</p> <p>Default is "auto".</p>	Optional	auto scroll hidden
withrollover	<p>The textgrid controls provide for a so called "roll over" effect. The row that is currently below the mouse pointer is highlighted in a certain way. Use this property to disable the roll over effect (Default is TRUE).</p>	Optional	true false

fixedcolumnsizes	When switching the FIXEDCOLUMNSIZES property to value "true" then internally the grid is arranged in a way that the area always determines its size out of the width specification of the COLUMN controls. The browser does not look into the column contents in order to try to optimise the size of the area - but always follows the width that you define.	Optional	true false
requiredheight	Minimum height of the control in pixels. Use this property to ensure a minimum height if the overall control's height is a percentage of the available space - i.e. if value of property HEIGHT is a percentage (e.g. 100%). Please note: You must not use FIXLAYOUT at the surrounding row container (ITR and ROWAREA). Otherwise: if the available space is less than the required height the end of the control is just cut off.	Optional	1 2 3 int-value
disablecolumnresizing	Flag that indicates if the user can change the width of the grid columns. Default is false.	Optional	true false
disablecolumnmoving	Flag that indicates if the user can change the order of grid columns. Default is false.	Optional	true false
tabindex	Index that defines the tab order of the control. Controls are selected in increasing index order and in source order to resolve duplicates.	Optional	-1 0 1 2 5 10 32767
Drag And Drop			
draginfoprop	Name of the row item property that passes back the line's "drag info". When using this attribute the grid lines can be dragged onto "drop targets" (e.g. DROPICON control). The dragged line is identified by its "drag info". Use any string/information applicable.	Optional	
Natural			

njx:natname	If a Natural variable with a name not valid for Application Designer (for instance #FIELD1) shall be bound to the control, a different name (for instance HFIELD1) can be bound instead. If the original name (in this case #FIELD1) is then specified in this attribute, the original name is generated into the parameter data area of the Natural adapter and a mapping between the two names is generated into the PROCESS PAGE statement of the Natural adapter.	Optional	
njx:natcomment	The value of this attribute is generated as comment line into the parameter data area of the Natural adapter, before the field name. The Map Converter, for instance, uses this attributes to indicate for a generated statusprop variable to which field the statusprop belongs.	Optional	
Deprecated			
directselectevent	Use ONCLICKMETHOD and ONDBLCLICKMETHOD instead.	Optional	ondblclick onclick
directselectmethod	Use ONCLICKMETHOD and ONDBLCLICKMETHOD instead.	Optional	

COLUMN Properties

The COLUMN tag is the typical tag that is placed inside a TEXTGRID2 definition. The COLUMN definition defines a column with its binding to a property of the collection elements.

Basic			
name	Text that is displayed inside the control. Please do not specify the name when using the multi language management - but specify a "textid" instead.	Sometimes obligatory	
textid	Multi language dependent text that is displayed inside the control. The "textid" is translated into a corresponding string at runtime. Do not specify a "name" inside the control if specifying a "textid".	Sometimes obligatory	
property	Property of the row item object that represents the column's content. The content typically is straight text but can also be "complex HTML".	Obligatory	

width	Width of the control. There are two possibilities to define the width: (A) Pixel sizing: just input a number value (e.g. "100"). (B) Percentage sizing: input a percentage value (e.g. "50%"). Pay attention: percentage sizing will only bring up correct results if the parent element (textgrid2, textgridsss2) of the control properly defines a width this control can reference.	Obligatory	100
			120
			140
			160
			180
			200
			50%
100%			
comment	Comment without any effect on rendering and behaviour. The comment is shown in the layout editor's tree view.	Optional	
Appearance			

<p>datatype</p>	<p>By default, the control is managing its content as string. By explicitly setting a datatype you can define that the control will format the data coming from the server: if the field has datatype "date" and the user inputs "010304" then the input will be translated into "01.03.2004" (or other representation, dependent on date format settings).</p> <p>Please note: the datatype "float" is named a bit misleading - it represents any decimal format number. The server side representation may be a float value, but also can be a double or a BigDecimal property.</p>	<p>Optional</p>	<p>date float int long time timestamp color xs:decimal xs:double xs:date xs:dateTime xs:time ----- N n.n P n.n string n xs:byte xs:short</p>
<p>align</p>	<p>Horizontal alignment of the control's content.</p>	<p>Optional</p>	<p>left center right</p>
<p>straighttext</p>	<p>If the text of the control contains HTML tags then these are by default interpreted by the browser. Specifying STRAIGHTTEXT as "true" means that the browser will directly render the characters without HTML interpretation.</p> <p>Example: if you want to output the source of an HTML text then STRAIGHTTEXT should be set to "true".</p> <p>MOZILLA: this property is not available in Mozilla!</p>	<p>Optional</p>	<p>true false</p>

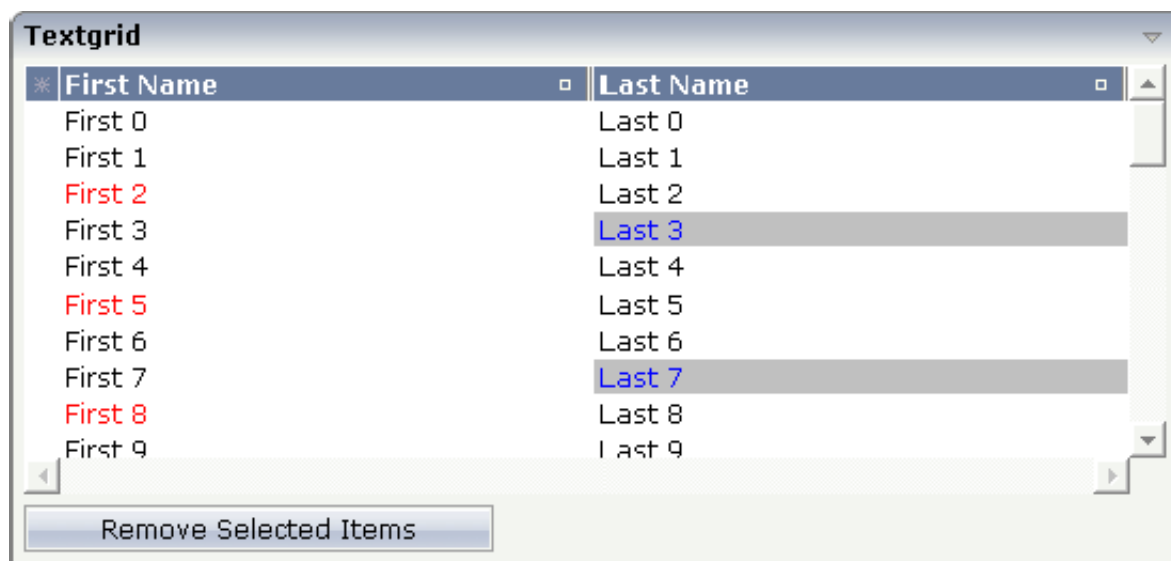
convertspaces	<p>If switched to "true" then all spaces inside the text that is rendered into the column are converted to non breakable spaces (andnbsp\").</p> <p>Use this option if you have "meaningful" spaces inside the values you return from the server adapter object, e.g. if outputting some ASCII protocol inside a column.</p>	Optional	true false
cuttextline	<p>If switched to "false" then the content of the column is broken if it exceeds the column's width definition. Default is "true" i.e. if the content is too big for the column cell then it is cut.</p>	Optional	true false
withsorticon	<p>Flag that indicates if a small sort indicator is shown within the right corner of the control. Default is TRUE.</p>	Optional	true false
headerimage	<p>URL of image that is displayed inside the control. Any image type (.gif, .jpg, ...) that your browser does understand is valid.</p> <p>Use the following options to specify the URL:</p> <p>(A) Define the URL relative to your page. Your page is generated directly into your project's folder. Specifying "images/xyz.gif" will point into a directory parallel to your page. Specifying "../HTMLBasedGUI/images/new.gif" will point to an image of a neighbour project.</p> <p>(B) Define a complete URL, like "http://www.softwareag.com/images/logo.gif".</p>	Optional	
Binding			
property	(already explained above)		
textstyleprop	<p>Name of the adapter parameter that provides a style-string that is used for rendering the column's content.</p> <p>As consequence you can individually assign a CSS-style to each cell of your text grid.</p>	Optional	
textclassprop	<p>Name of the adapter parameter that provides a style class to be used for rendering the content.</p> <p>You can set up a limited number of style classes inside your style sheet definition - and dynamically reference them per grid cell.</p>	Optional	

imageprop	Name of the adapter parameter that provides an image URL. The image is rendered at the very left of the column's area - in front of the text (PROPERTY property definition).	Optional	
linkmethod	Name of the event that is sent to the adapter if user clicks the column's text.	Optional	
celltitleprop	Name of the adapter parameter that provides the tooltip of this cell.	Optional	
Online help			
title	Text that is shown as tooltip for the control. Either specify the text "hard" by using this TITLE property - or use the TITLETEXTID in order to define a language dependent literal.	Optional	
titletextid	Text ID that is passed to the multi lanaguage management - representing the tooltip text that is used for the control.	Optional	
sorttitle	Text that is shown as tooltip for the sort indicator. Either input text by using this SORTTITLE property - or use the SORTTITLETEXTID in order to define a language dependent literal.	Optional	
sorttitletextid	Text ID that is passed to the multi lanaguage management - representing the tooltip text for the sort indicator.	Optional	
celltitleprop	(already explained above)		
Natural			
njx:natstringtype	If the control shall be bound to a Natural system variable of string format with the attribute njx:natsysvar, this attribute indicates the format of the string, A (code page) or U (Unicode). The default is A.	Optional	
njx:natsysio	If the control shall be bound to a Natural system variable with the attribute njx:natsysvar, this attribute indicates if the system variable is modifiable. The default is false.	Optional	

njx:natname	If a Natural variable with a name not valid for Application Designer (for instance #FIELD1) shall be bound to the control, a different name (for instance HFIELD1) can be bound instead. If the original name (in this case #FIELD1) is then specified in this attribute, the original name is generated into the parameter data area of the Natural adapter and a mapping between the two names is generated into the PROCESS PAGE statement of the Natural adapter.	Optional	
njx:natsysvar	If the control shall be bound to a Natural system variable, this attribute specifies the name of the system variable.	Optional	
njx:natcomment	The value of this attribute is generated as comment line into the parameter data area of the Natural adapter, before the field name. The Map Converter, for instance, uses this attributes to indicate for a generated statusprop variable to which field the statusprop belongs.	Optional	
njx:natcv	Name of a Natural control variable that shall be assigned to the control. The control variable must be defined in a Data Definition (XCIDATADEF) control on the same page. The application can use the control variable to check the modification status of the control.	Optional	

Dynamic Setting of Text Styles in TEXTGRID2

The example from the previous sections will now be enhanced in order to demonstrate how to control the style of cells inside a TEXTGRID2 control dynamically:



Some of the cells in the TEXTGRID2 control are rendered with a different style than the normal one. Each COLUMN definition has the property textstyleprop:

```
<rowarea name="Textgrid">
  <itr takefullwidth="true" fixlayout="true">
    <textgrid2 griddataprop="lines" width="100%" height="200" selectprop="selected"
      hscroll="true">
      <column name="First Name" property="firstName" width="50%"
        textstyleprop="firstNameStyle">
      </column>
      <column name="Last Name" property="lastname" width="50%"
        textstyleprop="lastNameStyle">
      </column>
    </textgrid2>
  </itr>
  <vdist height="5">
  </vdist>
  <itr>
    <button name="Remove Selected Items" method="onRemoveSelectedItems">
    </button>
  </itr>
</rowarea>
```