

MiscValueField

Inherits From: TextField : Control : View : Responder : Object

Declared In: MiscValueField.h

Class Description

MiscValueField is a simple subclass of **TextField** which defaults to using the **MiscValueCell** to display its contents. It also implements a set of methods to allow you to send messages that get passed through to the **MiscValueCell** for various configuration needs. This allows exactly the same interface when the **MiscValueCell** is used in other places (like a **Matrix**). A **MiscStringArray** or a **StringList** (found as a **MiniExample**) can be attached to provide text strings that get shown instead of numbers.

A valid string list object responds to:

-(char *) **stringAt**:(int)item;
-(unsigned int) **count**;

The value sent to **stringAt**: will be in the range 0 - **count**. When the **stringList** instance variable is set, the ranges as set in IB (or wherever) are ignored and the string list defines the range of its values. Of course, **stringAt**: can create its return value any way it likes.

Instance Variables

id stringList;

stringList

An object to provide strings in place of values.

Method Types

Initializing

+ initWithFrame:

Manipulating a MiscValueField

± setMinValue:

± setMaxValue:

± setMinBoundary:

± setMaxBoundary:

Querying values

- ± `setStepSize:`
- ± `setAltStepSize:`
- ± `setExpandMin:`
- ± `setExpandMax:`
- ± `setStringList:`

- ± `minValue`
- ± `maxValue`
- ± `minBoundary`
- ± `maxBoundary`
- ± `stepSize`
- ± `altStepSize`
- ± `expandMin`
- ± `expandMax`
- ± `stringList`

Instance Methods

altStepSize

±(float) **altStepSize**

Returns the amount the value will change when a button is clicked while Alternate is held down.

See also: ± **setAltStepSize:**, ± **setStepSize:**, ± **stepSize**

expandMax

±(BOOL) **expandMax**

Returns YES if **maxBoundary** is in effect stopping the arrow buttons from reaching **maxValue**.

See also: ± **expandMin**, ± **maxBoundary**, ± **maxValue**, ± **minBoundary**, ± **minValue**, ± **setExpandMax**, ± **setExpandMin**, ± **setMaxBoundary**, ± **setMaxValue**, ± **setMinBoundary**, ± **setMinValue**

expandMin

±(BOOL) **expandMin**

Returns YES if **minBoundary** is in effect stopping the arrow buttons from reaching **minValue**.

See also: ± **expandMax**, ± **maxBoundary**, ± **maxValue**, ± **minBoundary**, ± **minValue**, ± **setExpandMax**, ± **setExpandMin**, ± **setMaxBoundary**, ± **setMaxValue**, ± **setMinBoundary**, ± **setMinValue**

initWithFrame:

± **initWithFrame:**(const NXRect *)*frame*

Initializes and returns the receiver with a MiscValueCell inside it. Returns **self**.

maxBoundary

\pm (double) **maxBoundary**

Returns the current limit that the value will stop at when the up arrow button is being used to change the value. This limit can be changed by entering a larger value using the keyboard. This limit will be set the highest value entered that is still within the bounds of **maxValue**. It cannot be reduced except programmatically.

See also: \pm **expandMax**, \pm **expandMin**, \pm **maxValue**, \pm **minBoundary**, \pm **minValue**, \pm **setExpandMax**, \pm **setExpandMin**, \pm **setMaxBoundary**, \pm **setMaxValue**, \pm **setMinBoundary**, \pm **setMinValue**

maxValue

\pm (double) **maxValue**

Returns the highest value this field is allowed to reach. This limit cannot be exceeded in any way. **maxBoundary** can match this value and then have no effect.

See also: \pm **expandMax**, \pm **expandMin**, \pm **maxBoundary**, \pm **minBoundary**, \pm **minValue**, \pm **setExpandMax**, \pm **setExpandMin**, \pm **setMaxBoundary**, \pm **setMaxValue**, \pm **setMinBoundary**, \pm **setMinValue**

minBoundary

\pm (double) **minBoundary**

Returns the current limit that the value will stop at when the down arrow button is being used to change the value. This limit can be changed by entering a smaller value using the keyboard. This limit will be set the lowest value entered that is still within the bounds of **minValue**. It cannot be increased except programmatically.

See also: \pm **expandMax**, \pm **expandMin**, \pm **maxBoundary**, \pm **maxValue**, \pm **minValue**, \pm **setExpandMax**, \pm **setExpandMin**, \pm **setMaxBoundary**, \pm **setMaxValue**, \pm **setMinBoundary**, \pm **setMinValue**

minValue

\pm (double) **minValue**

Returns the lowest value this field is allowed to reach. This value cannot be exceeded in any way.

minBoundary can match this value and then have no effect.

See also: \pm **expandMax**, \pm **expandMin**, \pm **maxBoundary**, \pm **maxValue**, \pm **minBoundary**, \pm **setExpandMax**, \pm **setExpandMin**, \pm **setMaxBoundary**, \pm **setMaxValue**, \pm **setMinBoundary**, \pm **setMinValue**

setAltStepSize:

\pm **setAltStepSize**:(float)*size*

Sets the amount the value will change when a button is clicked while Alternate is being held down. Returns **self**.

See also: \pm **altStepSize**:, \pm **setStepSize**:, \pm **stepSize**

setExpandMax:

\pm **setExpandMax**:(BOOL)*flag*

If *flag* is YES then **maxBoundary** has an effect on the upper limit of the field value when it's adjusted with the

arrow buttons. Returns **self**.

See also: \pm **expandMax**, \pm **expandMin**, \pm **maxBoundary**, \pm **maxValue**, \pm **minBoundary**, \pm **minValue**, \pm **setExpandMin**, \pm **setMaxBoundary**, \pm **setMaxValue**, \pm **setMinBoundary**, \pm **setMinValue**

setExpandMin:

\pm **setExpandMin**:(BOOL)*flag*

If *flag* is YES then **minBoundary** has an effect on the lower limit of the field value when it's adjusted with the arrow buttons. Returns **self**.

See also: \pm **expandMax**, \pm **expandMin**, \pm **maxBoundary**, \pm **maxValue**, \pm **minBoundary**, \pm **minValue**, \pm **setExpandMax**, \pm **setMaxBoundary**, \pm **setMaxValue**, \pm **setMinBoundary**, \pm **setMinValue**

setMaxBoundary

\pm **setMaxBoundary**:(double)*value*

Sets the highest value the field will allow when using the arrow buttons to adjust the value. This value can be exceeded and altered by typing a value greater than this limit. This value will be adjusted to match the entered amount with an additional limitation that it will stop at **maxValue**. Returns **self**.

See also: \pm **expandMax**, \pm **expandMin**, \pm **maxBoundary**, \pm **maxValue**, \pm **minBoundary**, \pm **minValue**, \pm **setExpandMax**, \pm **setExpandMin**, \pm **setMaxValue**, \pm **setMinBoundary**, \pm **setMinValue**

setMaxValue

± **setMaxValue**:(double)*value*

Sets the highest value the field will allow. There is no way to exceed this limit from the interface. **maxBoundary** will stop expanding when it gets to this value. Returns **self**.

See also: ± **expandMax**, ± **expandMin**, ± **maxBoundary**, ± **maxValue**, ± **minBoundary**, ± **minValue**, ± **setExpandMax**, ± **setExpandMin**, ± **setMaxBoundary**, ± **setMinBoundary**, ± **setMinValue**

setMinBoundary

± **setMinBoundary**:(double)*value*

Sets the lowest value the field will allow when using the arrow buttons to adjust the value. This value can be exceeded and altered by typing a value lower than this limit. This value will be adjusted to match the entered amount with an additional limitation that it will stop at **minValue**. Returns **self**.

See also: ± **expandMax**, ± **expandMin**, ± **maxBoundary**, ± **maxValue**, ± **minBoundary**, ± **minValue**, ± **setExpandMax**, ± **setExpandMin**, ± **setMaxBoundary**, ± **setMaxValue**, ± **setMinValue**

setMinValue

± **setMinValue**:(double)*value*

Sets the lowest value the field will allow. There is no way to exceed this limit from the interface. **minBoundary** will stop expanding when it gets to this value. Returns **self**.

See also: ± **expandMax**, ± **expandMin**, ± **maxBoundary**, ± **maxValue**, ± **minBoundary**, ± **minValue**, ±

€setExpandMax, ± setExpandMin, ± setMaxBoundary, ± setMaxValue, ± setMinBoundary

setStepSize:

± **setStepSize:**(float)*size*

Sets the amount the value will change when a button is clicked. Returns **self**.

See also: ± **altStepSize:**, ± **setAltStepSize:**, ± **stepSize**

setStringList:

± **setStringList:***anObject*

Sets the object to be asked for display strings. *anObject* should respond to **stringAt:** and **count** messages. When a string list is set the range limits are all ignored and the field is set to non-editable. The value of the field will only fit within a range defined by *anObject's* **count** method. Returns **self**.

anObject's **stringAt:** method should take an **int** as its argument and return a **char *** with the correct string to be displayed for the given value. The value of the argument will range from 0 to **count** - 1. This arrangement has been created to allow the MiscValueField to be connected to a StringList (found in the MiniExamples) object in Interface Builder so lists may be created, displayed and dealt with with no additional code.

See also: ± **stringList**

stepSize

±(float) **stepSize**

Returns the amount the value will change when a button is clicked.

See also: ± **altStepSize:**, ± **setAltStepSize:**, ± **setStepSize:**

stringList

± **stringList**

Returns the object that is taking the task of providing the display strings.

See also: ± **setStringList:**