

# MiscNodeStyle

**Inherits From:** NSObject  
**Conforms To:** NSCopying  
NSCoding  
**Declared In:** MiscNodeStyle.h

## Class Description

Instances of this class encapsulate style attributes for nodes in the MiscTreeDiagram framework. Attributes found here can be different for every node in the tree. Attributes common to all nodes in a tree are held in a MiscTreeStyle instance. It is recommended to set these attributes indirectly through a MiscTreeDiagram instance which controls the tree.

Most attributes are self-explanatory. The exception is probably the attribute *automatic resize*, which controls the behaviour of a node when the label of the node changes. If automatic resize is turned on the node will resize to accomodate the new label in its entirety.

The style of a node is defined by attributes saved in four different classes: MiscLayoutTree, MiscDiagramTree, MiscNodeStyle and MiscTreeStyle. Every MiscDiagramTree instance holds an instance of MiscNodeStyle and the MiscTreeDiagram instance controlling the tree holds an instance of MiscTreeStyle.

## Defined Types

### SYNOPSIS

**MiscEndingType**

```
typedef enum {  
    MiscNoEnding,  
    MiscArrowEnding,  
    MiscHollowEnding,  
    MiscDoubleEnding,  
    MiscSolidEnding,  
}
```

```
        MiscCircleEnding
    } MiscEndingType;
```

#### DESCRIPTION

The MiscEndingType defines the line ending for lines connecting nodes

#### SYNOPSIS

```
MiscTextPlacement        typedef enum {
                            MiscTopTextPlacement,
                            MiscMiddleTextPlacement,
                            MiscBottomTextPlacement
                        } MiscTextPlacement;
```

#### DESCRIPTION

The MiscTextPlacement defines the text placement in a node

## Instance Variables

No public or protected instance variables declared in this class.

## Method Types

Setting and accessing attributes

- fillColor
- setFillColor:
- outlineColor
- setOutlineColor:
- fill
- setFill:
- outline
- setOutline:
- linewidth
- setLinewidth:
- automaticResize
- setAutomaticResize:
- textPlacement

- setTextPlacement:
- childEnding
- setChildEnding:
- parentEnding
- setParentEnding:

## Instance Methods

### **automaticResize**

- (BOOL)**automaticResize**

Returns the automatic resize attribute of the receiver. This attribute controls the behaviour of a node when the label changes. When the attribute is turned on the node resizes to fit the label.

### **childEnding**

- (MiscEndingType)**childEnding**

Returns the child ending attribute of the receiver. This attribute sets the line ending for lines entering a node with the node as a child. Lines in a tree connect only nodes in parent-child relationship.

### **fill**

- (BOOL)**fill**

Returns the fill attribute of the receiver.

### **fillColor**

- (NSColor \*)**fillColor**

Returns the fill color attribute of the receiver.

### **isEqual:**

- (BOOL)**isEqual:(id)anObject**

No method description.

**linewidth**

- (float)**linewidth**

Returns the linewidth attribute of the receiver.

**outline**

- (BOOL)**outline**

Returns the outline attribute of the receiver.

**outlineColor**

- (NSColor \*)**outlineColor**

Returns the outline color attribute of the receiver.

**parentEnding**

- (MiscEndingType)**parentEnding**

Returns the parent ending attribute of the receiver. This attribute sets the line ending for lines entering a node with the node as a parent. Lines in a tree connect only nodes in parent-child relationship.

**setAutomaticResize:**

- (void)**setAutomaticResize:(BOOL)aBOOL**

Sets the automatic resize attribute of the receiver.

**setChildEnding:**

- (void)**setChildEnding:(MiscEndingType)anEnding**

Sets the child ending attribute of the receiver.

**setFill:**

- (void)**setFill:**(BOOL)*aBOOL*

Sets the fill attribute of the receiver.

**setFillColor:**

- (void)**setFillColor:**(NSColor \*)*aColor*

Sets the fill color attribute of the receiver.

**setLinewidth:**

- (void)**setLinewidth:**(float)*aLinewidth*

Sets the linewidth attribute of the receiver.

**setOutline:**

- (void)**setOutline:**(BOOL)*aBOOL*

Sets the outline attribute of the receiver.

**setOutlineColor:**

- (void)**setOutlineColor:**(NSColor \*)*aColor*

Sets the outline color attribute of the receiver.

**setParentEnding:**

- (void)**setParentEnding:**(MiscEndingType)*anEnding*

Sets the parent ending attribute of the receiver.

**setTextPlacement:**

- (void)**setTextPlacement:**(MiscTextPlacement)*aTextPlacement*

Sets the text placement attribute of the receiver.

## **textPlacement**

- (MiscTextPlacement)**textPlacement**

Returns the text placement attribute of the receiver.