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## Object Graphics Library 3.0

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September 1998

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## **Introduction**

Object Graphics Library (OGL) is a C++ library supporting the creation and manipulation of simple and complex graphic images on a canvas.

It can be found in the directory `utils/ogl/src` in the wxWindows distribution. The file `ogl.h` must be included to make use of the library.

Please see [OGL overview](#) for a general description how the object library works. For details, please see the [class reference](#).

### File structure

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Introduction  
topic0  
browse00002  
K Introduction  
DisableButton("Up")

## **OGLEdit: a sample OGL application**

OGLEdit is a sample OGL application that allows the user to draw, edit, save and load a few shapes. It should clarify aspects of OGL usage, and can act as a template for similar applications. OGLEdit can be found in `samples/ogledit` in the OGL distribution.

{bmc ogledit.bmp}

The wxWindows document/view model has been used in OGL, to reduce the amount of housekeeping logic required to get it up and running. OGLEdit also provides a demonstration of the Undo/Redo capability supported by the document/view classes, and how a typical application might implement this feature.

OGLEdit files

How OGLEdit works

Possible enhancements

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OGLEdit: a sample OGL application

ogledit

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OGLEdit a sample OGL application

isableButton("Up")

## **Class reference**

These are the main OGL classes.

[wxOGLConstraint](#)

[wxBitmapShape](#)

[wxDiagram](#)

[wxDrawnShape](#)

[wxCircleShape](#)

[wxCompositeShape](#)

[wxDividedShape](#)

[wxDivisionShape](#)

[wxEllipseShape](#)

[wxLineShape](#)

[wxPolygonShape](#)

[wxRectangleShape](#)

[wxPseudoMetaFile](#)

[wxShape](#)

[wxShapeCanvas](#)

[wxShapeEvtHandler](#)

[wxTextShape](#)

[Functions](#)

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<sup>C</sup>lass reference

<sup>C</sup>lassref

<sup>b</sup>rowse00008

<sup>K</sup> Class reference

<sup>D</sup>isableButton("Up")

## **Topic overviews**

The following sections describe particular topics.

[OGL overview](#)

[wxDividedShape overview](#)

[wxCompositeShape overview](#)

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Topic overviews

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Topic overviews

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## **Bugs**

These are the known bugs.

{bmc bullet.bmp} In the OGLEdit sample, .dia files are output double-spaced due to an unidentified bug in the way a stream is converted to a file.

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isableButton("Up")

## **Change log**

Version 3.0, September 8th 1998

{bmc bullet.bmp} Version for wxWindows 2.0.

{bmc bullet.bmp} Various enhancements especially to wxDrawnShape (multiple metafiles, for different orientations).

{bmc bullet.bmp} More ability to override functions e.g. OnSizeDragLeft, so events can be intercepted for Do/Undo.

Version 2.0, June 1st 1996

{bmc bullet.bmp} First publicly released version.

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Change log  
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isableButton("Up")



## File structure

These are the files that comprise the OGL library.

**basic.h** Header for basic objects such as wxShape and wxRectangleShape.

**basic.cpp** Basic objects implementation (1).

**basic2.cpp** Basic objects implementation (2).

**bmpshape.h** wxBitmapShape class header.

**bmpshape.cpp** wxBitmapShape implementation.

**canvas.h** wxShapeCanvas class header.

**canvas.cpp** wxShapeCanvas class implementation.

**composit.h** Composite object class header.

**composit.cpp** Composite object class implementation.

**constrnt.h** Constraint classes header.

**constrnt.cpp** Constraint classes implementation.

**divided.h** Divided object class header.

**divided.cpp** Divided object class implementation.

**drawn.h** Drawn (metafile) object class header.

**drawn.cpp** Drawn (metafile) object class implementation.

**graphics.h** Main include file.

**lines.h** wxLineShape class header.

**lines.cpp** wxLineShape class implementation.

**misc.h** Miscellaneous graphics functions header.

**misc.cpp** Miscellaneous graphics functions implementation.

**ogldiag.h** wxDiagram class header.

**ogldiag.cpp** wxDiagram implementation.

**mfutils.h** Metafile utilities header.

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File structure

topic1

browse00003

File structure

enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `topic0')")

**mfutils.cpp** Metafile utilities implementation.

## **OGLEdit files**

OGLEdit comprises the following source files.

{bmc bullet.bmp} doc.h, doc.cpp: MyDiagram, DiagramDocument, DiagramCommand, MyEvtHandler classes related to diagram functionality and documents.

{bmc bullet.bmp} view.h, view.cpp: MyCanvas, DiagramView classes related to visualisation of the diagram.

{bmc bullet.bmp} ogledit.h, ogledit.cpp: MyFrame, MyApp classes related to the overall application.

{bmc bullet.bmp} palette.h, palette.cpp: EditorToolPalette implementing the shape palette.

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OGLEdit files

topic2

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OGLEdit files

enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `ogledit')")

## How OGLEdit works

OGLEdit defines a DiagramDocument class, each of instance of which holds a MyDiagram member which itself contains the shapes.

In order to implement specific mouse behaviour for shapes, a class MyEvtHandler is defined which is 'plugged into' each shape when it is created, instead of overriding each shape class individually. This event handler class also holds a label string.

The DiagramCommand class is the key to implementing Undo/Redo. Each instance of DiagramCommand stores enough information about an operation (create, delete, change colour etc.) to allow it to carry out (or undo) its command. In DiagramView::OnMenuCommand, when the user initiates the command, a new DiagramCommand instance is created which is then sent to the document's command processor (see wxWindows manual for more information about doc/view and command processing).

Apart from menu commands, another way commands are initiated is by the user left-clicking on the canvas or right-dragging on a node. MyCanvas::OnLeftClick in view.cpp shows how the appropriate wxClassInfo is passed to a DiagramCommand, to allow DiagramCommand::Do to create a new shape given the wxClassInfo.

The MyEvtHandler right-drag methods in doc.cpp implement drawing a line between two shapes, detecting where the right mouse button was released and looking for a second shape. Again, a new DiagramCommand instance is created and passed to the command processor to carry out the command.

DiagramCommand::Do and DiagramCommand::Undo embody much of the interesting interaction with the OGL library. A complication of note when implementing undo is the problem of deleting a node shape which has one or more arcs attached to it. If you delete the node, the arc(s) should be deleted too. But multiple arc deletion represents more information that can be incorporated in the existing DiagramCommand scheme. OGLEdit copes with this by treating each arc deletion as a separate command, and sending Cut commands recursively, providing an undo path. Undoing such a Cut will only undo one command at a time - not a one to one correspondence with the original command - but it's a reasonable compromise and preserves Do/Undo while keeping our DiagramCommand class simple.

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How OGLEdit works

topic3

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How OGLEdit works

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `ogledit')")

## **Possible enhancements**

OGLEdit is very simplistic and does not employ the more advanced features of OGL, such as:

- {bmc bullet.bmp} attachment points (arcs are drawn to particular points on a shape)
- {bmc bullet.bmp} metafile and bitmaps shapes
- {bmc bullet.bmp} divided rectangles
- {bmc bullet.bmp} composite shapes, and constraints
- {bmc bullet.bmp} creating labels in shape regions
- {bmc bullet.bmp} arc labels (OGL has support for three movable labels per arc)
- {bmc bullet.bmp} spline and multiple-segment line arcs
- {bmc bullet.bmp} adding annotations to node and arc shapes
- {bmc bullet.bmp} line-straightening (supported by OGL) and alignment (not supported directly by OGL)

These could be added to OGLEdit, at the risk of making it a less useful example for beginners.

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Possible enhancements

topic4

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Possible enhancements

enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `ogledit')")

## **wxOGLConstraint**

{bmc books.bmp}[wxCompositeShape overview](#)

An wxOGLConstraint object helps specify how child shapes are laid out with respect to siblings and parents.

### **Derived from**

wxObject

### **See also**

[wxCompositeShape](#)

### **Members**

[wxOGLConstraint::wxOGLConstraint](#)  
[wxOGLConstraint::~~wxOGLConstraint](#)  
[wxOGLConstraint::Equals](#)  
[wxOGLConstraint::Evaluate](#)  
[wxOGLConstraint::SetSpacing](#)

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<sup>w</sup>xOGLConstraint

<sup>w</sup>xoglconstraint

<sup>b</sup>rowse00009

<sup>K</sup> wxOGLConstraint

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `classref')")

\$#+K! **wxBitmapShape**

Draws a bitmap (non-resizable).

**Derived from**

wxRectangleShape

**Members**

wxBitmapShape::wxBitmapShape  
wxBitmapShape::~~wxBitmapShape  
wxBitmapShape::GetBitmap  
wxBitmapShape::GetFilename  
wxBitmapShape::SetBitmap  
wxBitmapShape::SetFilename

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<sup>w</sup>xBitmapShape  
<sup>w</sup>xbitmapshape  
<sup>b</sup>rowse00015  
<sup>K</sup> wxBitmapShape  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `classref')")

## **wxDiagram**

Encapsulates an entire diagram, with methods for reading/writing and drawing. A diagram has an associated wxShapeCanvas.

### **Derived from**

wxObject

### **See also**

[wxShapeCanvas](#)

### **Members**

[wxDiagram::wxDiagram](#)  
[wxDiagram::~~wxDiagram](#)  
[wxDiagram::AddShape](#)  
[wxDiagram::Clear](#)  
[wxDiagram::DeleteAllShapes](#)  
[wxDiagram::DrawOutline](#)  
[wxDiagram::FindShape](#)  
[wxDiagram::GetCanvas](#)  
[wxDiagram::GetCount](#)  
[wxDiagram::GetGridSpacing](#)  
[wxDiagram::GetMouseTolerance](#)  
[wxDiagram::GetShapeList](#)  
[wxDiagram::GetQuickEditMode](#)  
[wxDiagram::GetSnapToGrid](#)  
[wxDiagram::InsertShape](#)  
[wxDiagram::LoadFile](#)  
[wxDiagram::OnDatabaseLoad](#)  
[wxDiagram::OnDatabaseSave](#)  
[wxDiagram::OnHeaderLoad](#)  
[wxDiagram::OnHeaderSave](#)  
[wxDiagram::OnShapeLoad](#)  
[wxDiagram::OnShapeSave](#)  
[wxDiagram::ReadContainerGeometry](#)  
[wxDiagram::ReadLines](#)  
[wxDiagram::ReadNodes](#)  
[wxDiagram::RecentreAll](#)  
[wxDiagram::Redraw](#)  
[wxDiagram::RemoveAllShapes](#)  
[wxDiagram::RemoveShape](#)

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<sup>w</sup>xDiagram

<sup>w</sup>xdiagram

<sup>b</sup>rowse00022

<sup>K</sup> wxDiagram

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `classref)")

wxDiagram::SaveFile  
wxDiagram::SetCanvas  
wxDiagram::SetGridSpacing  
wxDiagram::SetMouseTolerance  
wxDiagram::SetQuickEditMode  
wxDiagram::SetSnapToGrid  
wxDiagram::ShowAll  
wxDiagram::Snap

## **wxDrawnShape**

Draws a pseudo-metafile shape, which can be loaded from a simple Windows metafile.

wxDrawnShape allows you to specify a different shape for each of four orientations (North, West, South and East). It also provides a set of drawing functions for programmatic drawing of a shape, so that during construction of the shape you can draw into it as if it were a device context.

### **Derived from**

[wxRectangleShape](#)

See also [wxRectangleShape](#).

### **Members**

[wxDrawnShape::wxDrawnShape](#)  
[wxDrawnShape::~~wxDrawnShape](#)  
[wxDrawnShape::CalculateSize](#)  
[wxDrawnShape::DestroyClippingRect](#)  
[wxDrawnShape::DrawArc](#)  
[wxDrawnShape::DrawAtAngle](#)  
[wxDrawnShape::DrawEllipticArc](#)  
[wxDrawnShape::DrawLine](#)  
[wxDrawnShape::DrawLines](#)  
[wxDrawnShape::DrawPoint](#)  
[wxDrawnShape::DrawPolygon](#)  
[wxDrawnShape::DrawRectangle](#)  
[wxDrawnShape::DrawRoundedRectangle](#)  
[wxDrawnShape::DrawSpline](#)  
[wxDrawnShape::DrawText](#)  
[wxDrawnShape::GetAngle](#)  
[wxDrawnShape::GetMetaFile](#)  
[wxDrawnShape::GetRotation](#)  
[wxDrawnShape::LoadFromMetaFile](#)  
[wxDrawnShape::Rotate](#)  
[wxDrawnShape::SetClippingRect](#)  
[wxDrawnShape::SetDrawnBackgroundColour](#)  
[wxDrawnShape::SetDrawnBackgroundMode](#)  
[wxDrawnShape::SetDrawnBrush](#)  
[wxDrawnShape::SetDrawnFont](#)  
[wxDrawnShape::SetDrawnPen](#)  
[wxDrawnShape::SetDrawnTextColour](#)

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<sup>w</sup>xDrawnShape

<sup>w</sup>xdrawnshape

<sup>b</sup>rowse00060

<sup>K</sup> wxDrawnShape

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `classref)")

wxDrawnShape::Scale

wxDrawnShape::SetSaveToFile

wxDrawnShape::Translate

## `wxCircleShape`

An `wxEllipseShape` whose width and height are the same.

### Derived from

[wxEllipseShape](#).

### Members

[wxCircleShape::wxCircleShape](#)

[wxCircleShape::~~wxCircleShape](#)

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`wxCircleShape`

`wxcircleshape`

`rowse00091`

`wxCircleShape`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `classref)")`

## \$#+K! **wxCompositeShape**

This is an object with a list of child objects, and a list of size and positioning constraints between the children.

### **Derived from**

[wxRectangleShape](#)

### **See also**

[wxCompositeShape overview](#)

### **Members**

[wxCompositeShape::wxCompositeShape](#)  
[wxCompositeShape::~~wxCompositeShape](#)  
[wxCompositeShape::AddChild](#)  
[wxCompositeShape::AddConstraint](#)  
[wxCompositeShape::CalculateSize](#)  
[wxCompositeShape::ContainsDivision](#)  
[wxCompositeShape::DeleteConstraint](#)  
[wxCompositeShape::DeleteConstraintsInvolvingChild](#)  
[wxCompositeShape::FindConstraint](#)  
[wxCompositeShape::FindContainerImage](#)  
[wxCompositeShape::GetConstraints](#)  
[wxCompositeShape::GetDivisions](#)  
[wxCompositeShape::MakeContainer](#)  
[wxCompositeShape::OnCreateDivision](#)  
[wxCompositeShape::Recompute](#)  
[wxCompositeShape::RemoveChild](#)

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<sup>w</sup>[xCompositeShape](#)

<sup>w</sup>[xcompositeshape](#)

<sup>b</sup>[rowse00094](#)

<sup>K</sup> [wxCompositeShape](#)

<sup>E</sup>[nableButton\("Up"\);ChangeButtonBinding\("Up", "JumpId\(`ogl.hlp', `classref'\)"\)](#)

## **wxDividedShape**

A wxDividedShape is a rectangle with a number of vertical divisions. Each division may have its text formatted with independent characteristics, and the size of each division relative to the whole image may be specified.

### **Derived from**

[wxRectangleShape](#)

### **See also**

[wxDividedShape overview](#)

### **Members**

[wxDividedShape::wxDividedShape](#)  
[wxDividedShape::~~wxDividedShape](#)  
[wxDividedShape::EditRegions](#)  
[wxDividedShape::SetRegionSizes](#)

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<sup>w</sup>wxDividedShape  
<sup>w</sup>wxdividedshape  
<sup>b</sup>rowse00111  
<sup>K</sup> wxDividedShape  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `classref)")

## **`wxDivisionShape`**

A division shape is like a composite in that it can contain further objects, but is used exclusively to divide another shape into regions, or divisions. A `wxDivisionShape` is never free-standing.

### **Derived from**

[`wxCompositeShape`](#)

### **See also**

[`wxCompositeShape` overview](#)

### **Members**

[`wxDivisionShape::wxDivisionShape`](#)  
[`wxDivisionShape::~~wxDivisionShape`](#)  
[`wxDivisionShape::AdjustBottom`](#)  
[`wxDivisionShape::AdjustLeft`](#)  
[`wxDivisionShape::AdjustRight`](#)  
[`wxDivisionShape::AdjustTop`](#)  
[`wxDivisionShape::Divide`](#)  
[`wxDivisionShape::EditEdge`](#)  
[`wxDivisionShape::GetBottomSide`](#)  
[`wxDivisionShape::GetHandleSide`](#)  
[`wxDivisionShape::GetLeftSide`](#)  
[`wxDivisionShape::GetLeftSideColour`](#)  
[`wxDivisionShape::GetLeftSidePen`](#)  
[`wxDivisionShape::GetRightSide`](#)  
[`wxDivisionShape::GetTopSide`](#)  
[`wxDivisionShape::GetTopSideColour`](#)  
[`wxDivisionShape::GetTopSidePen`](#)  
[`wxDivisionShape::ResizeAdjoining`](#)  
[`wxDivisionShape::PopupMenu`](#)  
[`wxDivisionShape::SetBottomSide`](#)  
[`wxDivisionShape::SetHandleSide`](#)  
[`wxDivisionShape::SetLeftSide`](#)  
[`wxDivisionShape::SetLeftSideColour`](#)  
[`wxDivisionShape::SetLeftSidePen`](#)  
[`wxDivisionShape::SetRightSide`](#)  
[`wxDivisionShape::SetTopSide`](#)  
[`wxDivisionShape::SetTopSideColour`](#)  
[`wxDivisionShape::SetTopSidePen`](#)

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<sup>w</sup>`wxDivisionShape`

<sup>w</sup>`wxdivisionshape`

<sup>b</sup>`rowse00116`

<sup>K</sup> `wxDivisionShape`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `classref)")`

`$$$KL` **wxEllipseShape**

The wxEllipseShape behaves similarly to the wxRectangleShape but is elliptical.

### Derived from

[wxShape](#)

### Members

[wxEllipseShape::wxEllipseShape](#)

[wxEllipseShape::~~wxEllipseShape](#)

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`w`xEllipseShape

`w`xellipseshape

`b`rowse00145

`K` wxEllipseShape

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `classref')")

## **`wxLineShape`**

A `wxLineShape` may be attached to two nodes; it may be segmented, in which case a control point is drawn for each joint.

A `wxLineShape` may have arrows at the beginning, end and centre.

### **Derived from**

[wxShape](#)

### **Members**

[wxLineShape::wxLineShape](#)  
[wxLineShape::~~wxLineShape](#)  
[wxLineShape::AddArrow](#)  
[wxLineShape::AddArrowOrdered](#)  
[wxLineShape::ClearArrow](#)  
[wxLineShape::ClearArrowsAtPosition](#)  
[wxLineShape::DrawArrow](#)  
[wxLineShape::DeleteArrowHead](#)  
[wxLineShape::DeleteLineControlPoint](#)  
[wxLineShape::DrawArrows](#)  
[wxLineShape::DrawRegion](#)  
[wxLineShape::EraseRegion](#)  
[wxLineShape::FindArrowHead](#)  
[wxLineShape::FindLineEndPoints](#)  
[wxLineShape::FindLinePosition](#)  
[wxLineShape::FindMinimumWidth](#)  
[wxLineShape::FindNth](#)  
[wxLineShape::GetAttachmentFrom](#)  
[wxLineShape::GetAttachmentTo](#)  
[wxLineShape::GetEnds](#)  
[wxLineShape::GetFrom](#)  
[wxLineShape::GetLabelPosition](#)  
[wxLineShape::GetNextControlPoint](#)  
[wxLineShape::GetTo](#)  
[wxLineShape::Initialise](#)  
[wxLineShape::InsertLineControlPoint](#)  
[wxLineShape::IsEnd](#)  
[wxLineShape::IsSpline](#)  
[wxLineShape::MakeLineControlPoints](#)  
[wxLineShape::OnMoveLink](#)  
[wxLineShape::SetAttachmentFrom](#)

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<sup>w</sup>`LineShape`

<sup>w</sup>`lineshape`

<sup>b</sup>`rowse00148`

<sup>K</sup> `wxLineShape`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `classref)")`

wxLineShape::SetAttachments  
wxLineShape::SetAttachmentTo  
wxLineShape::SetEnds  
wxLineShape::SetFrom  
wxLineShape::SetIgnoreOffsets  
wxLineShape::SetSpline  
wxLineShape::SetTo  
wxLineShape::Straighten  
wxLineShape::Unlink

## \$#+K! **wxPolygonShape**

A wxPolygonShape's shape is defined by a number of points passed to the object's constructor. It can be used to create new shapes such as diamonds and triangles.

### **Derived from**

[wxShape](#)

### **Members**

[wxPolygonShape::wxPolygonShape](#)  
[wxPolygonShape::~~wxPolygonShape](#)  
[wxPolygonShape::Create](#)  
[wxPolygonShape::AddPolygonPoint](#)  
[wxPolygonShape::CalculatePolygonCentre](#)  
[wxPolygonShape::DeletePolygonPoint](#)  
[wxPolygonShape::GetPoints](#)  
[wxPolygonShape::UpdateOriginalPoints](#)

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<sup>w</sup>xPolygonShape  
<sup>w</sup>xpolygonshape  
<sup>b</sup>rowse00189  
<sup>K</sup> wxPolygonShape  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `classref')")

`##+K!` **wxRectangleShape**

The wxRectangleShape has rounded or square corners.

**Derived from**

[wxShape](#)

**Members**

[wxRectangleShape::wxRectangleShape](#)

[wxRectangleShape::~~wxRectangleShape](#)

[wxRectangleShape::SetCornerRadius](#)

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`w`xRectangleShape

`w`xrectangleshape

`b`rowse00198

`K` wxRectangleShape

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `classref')")

`$#+K!` **wxPseudoMetaFile**

A simple metafile-like class which can load data from a Windows metafile on all platforms.

**Derived from**

wxObject

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`w`xPseudoMetaFile  
`w`xpseudometafile  
`b`rowse00202  
`K` wxPseudoMetaFile  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `classref)")

## **wxShape**

The wxShape is the top-level, abstract object that all other objects are derived from. All common functionality is represented by wxShape's members, and overridden members that appear in derived classes and have behaviour as documented for wxShape, are not documented separately.

### **Derived from**

[wxShapeEvtHandler](#)

### **Members**

[wxShape::wxShape](#)  
[wxShape::~~wxShape](#)  
[wxShape::AddLine](#)  
[wxShape::AddRegion](#)  
[wxShape::AddText](#)  
[wxShape::AddToCanvas](#)  
[wxShape::AncestorSelected](#)  
[wxShape::ApplyAttachmentOrdering](#)  
[wxShape::AssignNewIds](#)  
[wxShape::Attach](#)  
[wxShape::AttachmentIsValid](#)  
[wxShape::AttachmentSortTest](#)  
[wxShape::CalcSimpleAttachment](#)  
[wxShape::CalculateSize](#)  
[wxShape::ClearAttachments](#)  
[wxShape::ClearRegions](#)  
[wxShape::ClearText](#)  
[wxShape::Constrain](#)  
[wxShape::Copy](#)  
[wxShape::CreateNewCopy](#)  
[wxShape::DeleteControlPoints](#)  
[wxShape::Detach](#)  
[wxShape::Draggable](#)  
[wxShape::Draw](#)  
[wxShape::DrawContents](#)  
[wxShape::DrawLinks](#)  
[wxShape::Erase](#)  
[wxShape::EraseContents](#)  
[wxShape::EraseLinks](#)  
[wxShape::FindRegion](#)  
[wxShape::FindRegionNames](#)

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<sup>w</sup>xShape

<sup>w</sup>xshape

<sup>b</sup>rowse00203

<sup>K</sup> wxShape

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `classref)")

wxShape::Flash  
wxShape::FormatText  
wxShape::GetAttachmentMode  
wxShape::GetAttachmentPosition  
wxShape::GetBoundingBoxMax  
wxShape::GetBoundingBoxMin  
wxShape::GetBrush  
wxShape::GetCanvas  
wxShape::GetCentreResize  
wxShape::GetChildren  
wxShape::GetClientData  
wxShape::GetDisableLabel  
wxShape::GetEventHandler  
wxShape::GetFixedHeight  
wxShape::GetFixedSize  
wxShape::GetFixedWidth  
wxShape::GetFont  
wxShape::GetFunctor  
wxShape::GetId  
wxShape::GetLinePosition  
wxShape::GetLines  
wxShape::GetMaintainAspectRatio  
wxShape::GetNumberOfAttachments  
wxShape::GetNumberOfTextRegions  
wxShape::GetParent  
wxShape::GetPen  
wxShape::GetPerimeterPoint  
wxShape::GetRegionId  
wxShape::GetRegionName  
wxShape::GetRegions  
wxShape::GetRotation  
wxShape::GetSensitivityFilter  
wxShape::GetShadowMode  
wxShape::GetSpaceAttachments  
wxShape::GetTextColour  
wxShape::GetTopAncestor  
wxShape::GetX  
wxShape::GetY  
wxShape::HitTest  
wxShape::Insert  
wxShape::IsHighlighted  
wxShape::IsShown  
wxShape::MakeControlPoints  
wxShape::MakeMandatoryControlPoints  
wxShape::Move  
wxShape::MoveLineToNewAttachment  
wxShape::MoveLinks  
wxShape::NameRegions  
wxShape::Rotate  
wxShape::ReadConstraints  
wxShape::ReadAttributes

wxShape::ReadRegions  
wxShape::Recentre  
wxShape::RemoveFromCanvas  
wxShape::ResetControlPoints  
wxShape::ResetMandatoryControlPoints  
wxShape::Recompute  
wxShape::RemoveLine  
wxShape::Select  
wxShape::Selected  
wxShape::SetAttachmentMode  
wxShape::SetBrush  
wxShape::SetCanvas  
wxShape::SetCentreResize  
wxShape::SetClientData  
wxShape::SetDefaultRegionSize  
wxShape::SetDisableLabel  
wxShape::SetDraggable  
wxShape::SetDrawHandles  
wxShape::SetEventHandler  
wxShape::SetFixedSize  
wxShape::SetFont  
wxShape::SetFormatMode  
wxShape::SetHighlight  
wxShape::SetId  
wxShape::SetMaintainAspectRatio  
wxShape::SetPen  
wxShape::SetRegionName  
wxShape::SetSensitivityFilter  
wxShape::SetShadowMode  
wxShape::SetSize  
wxShape::SetSpaceAttachments  
wxShape::SetTextColour  
wxShape::SetX  
wxShape::SetX  
wxShape::SpaceAttachments  
wxShape::Show  
wxShape::Unlink  
wxShape::WriteAttributes  
wxShape::WriteRegions

## **wxShapeCanvas**

A canvas for drawing diagrams on.

### **Derived from**

wxScrolledWindow

### **See also**

[wxDiagram](#)

### **Members**

[wxShapeCanvas::wxShapeCanvas](#)  
[wxShapeCanvas::~~wxShapeCanvas](#)  
[wxShapeCanvas::AddShape](#)  
[wxShapeCanvas::FindShape](#)  
[wxShapeCanvas::FindFirstSensitiveShape](#)  
[wxShapeCanvas::GetDiagram](#)  
[wxShapeCanvas::GetGridSpacing](#)  
[wxShapeCanvas::GetMouseTolerance](#)  
[wxShapeCanvas::GetShapeList](#)  
[wxShapeCanvas::GetQuickEditMode](#)  
[wxShapeCanvas::InsertShape](#)  
[wxShapeCanvas::OnBeginDragLeft](#)  
[wxShapeCanvas::OnBeginDragRight](#)  
[wxShapeCanvas::OnEndDragLeft](#)  
[wxShapeCanvas::OnEndDragRight](#)  
[wxShapeCanvas::OnDragLeft](#)  
[wxShapeCanvas::OnDragRight](#)  
[wxShapeCanvas::OnLeftClick](#)  
[wxShapeCanvas::OnRightClick](#)  
[wxShapeCanvas::Redraw](#)  
[wxShapeCanvas::RemoveShape](#)  
[wxShapeCanvas::SetDiagram](#)  
[wxShapeCanvas::Snap](#)

---

<sup>w</sup>[wxShapeCanvas](#)

<sup>w</sup>[wxshapecanvas](#)

<sup>b</sup>[rowse00325](#)

<sup>K</sup> [wxShapeCanvas](#)

<sup>E</sup>[nableButton\("Up"\);ChangeButtonBinding\("Up", "JumpId\(^ogl.hlp', `classref"\)](#)

## **wxShapeEvtHandler**

wxShapeEvtHandler is a class from which wxShape (and therefore all shape classes) are derived. A wxShape also contains a pointer to its current wxShapeEvtHandler. Event handlers can be swapped in and out, altering the behaviour of a shape. This allows, for example, a range of behaviours to be redefined in one class, rather than requiring each shape class to be subclassed.

### **Derived from**

wxObject

### **Members**

[wxShapeEvtHandler::m\\_handlerShape](#)  
[wxShapeEvtHandler::m\\_previousHandler](#)  
[wxShapeEvtHandler::wxShapeEvtHandler](#)  
[wxShapeEvtHandler::~~wxShapeEvtHandler](#)  
[wxShapeEvtHandler::CopyData](#)  
[wxShapeEvtHandler::CreateNewCopy](#)  
[wxShapeEvtHandler::GetPreviousHandler](#)  
[wxShapeEvtHandler::GetShape](#)  
[wxShapeEvtHandler::OnBeginDragLeft](#)  
[wxShapeEvtHandler::OnBeginDragRight](#)  
[wxShapeEvtHandler::OnBeginSize](#)  
[wxShapeEvtHandler::OnChangeAttachment](#)  
[wxShapeEvtHandler::OnDragLeft](#)  
[wxShapeEvtHandler::OnDragRight](#)  
[wxShapeEvtHandler::OnDraw](#)  
[wxShapeEvtHandler::OnDrawContents](#)  
[wxShapeEvtHandler::OnDrawControlPoints](#)  
[wxShapeEvtHandler::OnDrawOutline](#)  
[wxShapeEvtHandler::OnEndDragLeft](#)  
[wxShapeEvtHandler::OnEndDragRight](#)  
[wxShapeEvtHandler::OnEndSize](#)  
[wxShapeEvtHandler::OnErase](#)  
[wxShapeEvtHandler::OnEraseContents](#)  
[wxShapeEvtHandler::OnEraseControlPoints](#)  
[wxShapeEvtHandler::OnHighlight](#)  
[wxShapeEvtHandler::OnLeftClick](#)  
[wxShapeEvtHandler::OnMoveLink](#)  
[wxShapeEvtHandler::OnMoveLinks](#)  
[wxShapeEvtHandler::OnMovePost](#)  
[wxShapeEvtHandler::OnMovePre](#)

---

<sup>w</sup>[wxShapeEvtHandler](#)

<sup>w</sup>[xshapeevthandler](#)

<sup>b</sup>[rowse00349](#)

<sup>K</sup> [wxShapeEvtHandler](#)

<sup>E</sup>[nableButton\("Up"\);ChangeButtonBinding\("Up", "JumpId\(^ogl.hlp', `classref\)"\)](#)

wxShapeEvtHandler::OnRightClick  
wxShapeEvtHandler::OnSize  
wxShapeEvtHandler::OnSizingBeginDragLeft  
wxShapeEvtHandler::OnSizingDragLeft  
wxShapeEvtHandler::OnSizingEndDragLeft  
wxShapeEvtHandler::SetPreviousHandler  
wxShapeEvtHandler::SetShape

\$#+K! **wxTextShape**

As wxRectangleShape, but only the text is displayed.

**Derived from**

[wxRectangleShape](#)

**Members**

[wxTextShape::wxTextShape](#)

[wxTextShape::~~wxTextShape](#)

---

wxTextShape

wxtextshape

browse00387

K wxTextShape

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `classref')")

**Functions**

These are the OGL functions.

[::wxOGLInitialize](#)  
[::wxOGLCleanUp](#)

## ##+K! OGL overview

wxShapeCanvas, derived from **wxCanvas**, is the drawing area for a number of wxShape instances. Everything drawn on a wxShapeCanvas is derived from wxShape, which provides virtual member functions for redrawing, creating and destroying resize/selection 'handles', movement and erasing behaviour, mouse click behaviour, calculating the bounding box of the shape, linking nodes with arcs, and so on.

The way a client application copes with 'damage' to the canvas is to erase (white out) anything should no longer be displayed, redraw the shape, and then redraw everything on the canvas to repair any damage. If quick edit mode is on for the canvas, the complete should be omitted by OGL and the application.

Selection handles (called control points in the code) are implemented as wxRectangleShapes.

Events are passed to shapes by the canvas in a high-level form, for example **OnLeftClick**, **OnBeginDragLeft**, **OnDragLeft**, **OnEndDragLeft**. The canvas decides what is a click and what is a drag, whether it is on a shape or the canvas itself, and (by interrogating the shape) which attachment point the click is associated with.

In order to provide event-handling flexibility, each shapes has an 'event handler' associated with it, which by default is the shape itself (all shapes derive from wxShapeEvtHandler). An application can modify the event-handling behaviour simply by plugging a new event handler into the shape. This can avoid the need for multiple inheritance when new properties and behaviour are required for a number of different shape classes: instead of overriding each class, one new event handler class can be defined and used for all existing shape classes.

A range of shapes have been predefined in the library, including rectangles, ellipses, polygons. A client application can derive from these shapes and/or derive entirely new shapes from wxShape.

Instances of a class called wxDiagram organise collections of shapes, providing default file input and output behaviour.

---

<sup>O</sup>GL overview

<sup>o</sup>gloverview

<sup>b</sup>rowse00394

<sup>K</sup> OGL overview

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `topic295')")

## **wxDividedShape overview**

Classes: [wxDividedShape](#)

A wxDividedShape is a rectangle with a number of vertical divisions. Each division may have its text formatted with independent characteristics, and the size of each division relative to the whole image may be specified.

Once a wxDividedShape has been created, the user may move the divisions with the mouse. By pressing Ctrl while right-clicking, the region attributes can be edited.

Here are examples of creating wxDividedShape objects:

```
/*
 * Divided rectangle with 3 regions
 */

wxDividedShape *dividedRect = new wxDividedShape(50, 60);

wxShapeRegion *region = new wxShapeRegion;
region->SetProportions(0.0, 0.25);
dividedRect->AddRegion(region);

region = new wxShapeRegion;
region->SetProportions(0.0, 0.5);
dividedRect->AddRegion(region);

region = new wxShapeRegion;
region->SetProportions(0.0, 0.25);
dividedRect->AddRegion(region);

dividedRect->SetSize(50, 60); // Allow it to calculate region
sizes
dividedRect->SetPen(wxBLACK_PEN);
dividedRect->SetBrush(wxWHITE_BRUSH);
dividedRect->Show(TRUE);
dividedRect->NameRegions();

/*
 * Divided rectangle with 3 regions, rounded
 */

wxDividedShape *dividedRect3 = new wxDividedShape(50, 60);
dividedRect3->SetCornerRadius(-0.4);

region = new wxShapeRegion;
region->SetProportions(0.0, 0.25);
dividedRect3->AddRegion(region);

region = new wxShapeRegion;
```

---

<sup>w</sup>xDividedShape overview

<sup>d</sup>ividedshapeoverview

<sup>b</sup>rowse00395

<sup>K</sup> wxDividedShape overview

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `topic295')")

```
region->SetProportions(0.0, 0.5);
dividedRect3->AddRegion(region);

region = new wxShapeRegion;
region->SetProportions(0.0, 0.25);
dividedRect3->AddRegion(region);

dividedRect3->SetSize(50, 60); // Allow it to calculate region
sizes
dividedRect3->SetPen(wxBLACK_PEN);
dividedRect3->SetBrush(wxWHITE_BRUSH);
dividedRect3->Show(TRUE);
dividedRect3->NameRegions();
```

## \$#+K!wxCompositeShape overview

Classes: [wxCompositeShape](#), [wxOGLConstraint](#)

The wxCompositeShape allows fairly complex shapes to be created, and maintains a set of constraints which specify the layout and proportions of child shapes.

Add child shapes to a wxCompositeShape using [AddChild](#), and add constraints using [AddConstraint](#).

After children and shapes have been added, call [Recompute](#) which will return TRUE if the constraints could be satisfied, FALSE otherwise. If constraints have been correctly and consistently specified, this call will succeed.

If there is more than one child, constraints must be specified: OGL cannot calculate the size and position of children otherwise. Don't assume that children will simply move relative to the parent without the use of constraints.

To specify a constraint, you need three things:

1. a constraint type, such as `gyCONSTRAINT_CENTRED_VERTICALLY`;
2. a reference shape, with respect to which other shapes are going to be positioned - the *constraining* shape;
3. a list of one or more shapes to be constrained: the *constrained* shapes.

The constraining shape can be either the parent of the constrained shapes, or a sibling. The constrained shapes must all be siblings of each other.

For an exhaustive list and description of the available constraint types, see the [wxOGLConstraint constructor](#). Note that most constraints operate in one dimension only (vertically or horizontally), so you will usually need to specify constraints in pairs.

You can set the spacing between constraining and constrained shapes by calling [wxOGLConstraint::SetSpacing](#).

Finally, a wxCompositeShape can have *divisions*, which are special child shapes of class wxDivisionShape (not to be confused with wxDividedShape). The purpose of this is to allow the composite to be divided into user-adjustable regions (divisions) into which other shapes can be dropped dynamically, given suitable application code. Divisions allow the child shapes to have an identity of their own - they can be manipulated independently of their container - but to behave as if they are contained with the division, moving with the parent shape. Divisions boundaries can themselves be moved using the mouse.

---

<sup>w</sup>xCompositeShape overview

<sup>c</sup>ompositeshapeoverview

<sup>b</sup>rowse00396

<sup>K</sup> wxCompositeShape overview

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `topic295')")

To create an initial division, call [wxCompositeShape::MakeContainer](#). Make further divisions by calling [wxDivisionShape::Divide](#).



`$#+K!wxOGLConstraint::wxOGLConstraint`

`wxOGLConstraint()`<sup>K</sup>

Default constructor.

`wxOGLConstraint(int type, wxShape *constraining, wxList& constrained)`<sup>K</sup>

Constructor.

### Parameters

*constraining*

The shape which is used as the reference for positioning the *constrained* objects.

*constrained*

Contains a list of wxShapes which are to be constrained (with respect to *constraining*) using *type*.

*type*

Can be one of:

{bmc bullet.bmp} **gyCONSTRAINT\_CENTRED\_VERTICALLY**: the Y co-ordinates of the centres of the bounding boxes of the constrained objects and the constraining object will be the same

{bmc bullet.bmp} **gyCONSTRAINT\_CENTRED\_HORIZONTALLY**: the X co-ordinates of the centres of the bounding boxes of the constrained objects and the constraining object will be the same

{bmc bullet.bmp} **gyCONSTRAINT\_CENTRED\_BOTH**: the co-ordinates of the centres of the bounding boxes of the constrained objects and the constraining object will be the same

{bmc bullet.bmp} **gyCONSTRAINT\_LEFT\_OF**: the X co-ordinates of the right hand vertical edges of the bounding boxes of the constrained objects will be less than the X co-ordinate of the left hand vertical edge of the bounding box of the constraining object

{bmc bullet.bmp} **gyCONSTRAINT\_RIGHT\_OF**: the X co-ordinates of the left hand vertical edges of the bounding boxes of the constrained objects will be greater than the X co-ordinate of the right hand vertical edge of the

---

<sup>w</sup>`xOGLConstraint::wxOGLConstraint`

<sup>w</sup>`xoglconstraintconstr`

<sup>b</sup>`rowse00010`

<sup>K</sup>`wxOGLConstraint wxOGLConstraint`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxoglconstraint')")`

<sup>K</sup>`wxOGLConstraint`

<sup>K</sup>`wxOGLConstraint`

bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_ABOVE**: the Y co-ordinates of the bottom horizontal edges of the bounding boxes of the constrained objects will be less than the Y co-ordinate of the top horizontal edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_BELOW**: the Y co-ordinates of the top horizontal edges of the bounding boxes of the constrained objects will be greater than the X co-ordinate of the bottom horizontal edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_ALIGNED\_TOP**: the Y co-ordinates of the top horizontal edges of the bounding boxes of the constrained objects will be the same as the Y co-ordinate of the top horizontal edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_ALIGNED\_BOTTOM**: the Y co-ordinates of the bottom horizontal edges of the bounding boxes of the constrained objects will be the same as the Y co-ordinate of the bottom horizontal edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_ALIGNED\_LEFT**: the X co-ordinates of the left hand vertical edges of the bounding boxes of the constrained objects will be the same as the X co-ordinate of the left hand vertical edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_ALIGNED\_RIGHT**: the X co-ordinates of the right hand vertical edges of the bounding boxes of the constrained objects will be the same as the X co-ordinate of the right hand vertical edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_MIDALIGNED\_TOP**: the Y co-ordinates of the centres of the bounding boxes of the constrained objects will be the same as the Y co-ordinate of the top horizontal edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_MIDALIGNED\_BOTTOM**: the Y co-ordinates of the centres of the bounding boxes of the constrained objects will be the same as the Y co-ordinate of the bottom horizontal edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_MIDALIGNED\_LEFT**: the X co-ordinates of the centres of the bounding boxes of the constrained objects will be the same as the X co-ordinate of the left hand vertical edge of the bounding box of the constraining object

{bmc bullet.bmp}    **gyCONSTRAINT\_MIDALIGNED\_RIGHT**: the X co-ordinates of the centres of the bounding boxes of the constrained objects will be the same as the X co-ordinate of the right hand vertical edge of the bounding box of the constraining object

**`$#+K!wxOGLConstraint::~~wxOGLConstraint`**

**`~wxOGLConstraint()`<sup>K</sup>**

Destructor.

---

`w`xOGLConstraint::~~wxOGLConstraint  
`t`opic5  
`b`rowse00011  
`K` wxOGLConstraint ~wxOGLConstraint  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxoglconstraint')")  
`K` ~wxOGLConstraint

`$#+K!wxOGLConstraint::Equals`

`bool Equals(double x, double y)K`

Returns TRUE if x and y are approximately equal (for the purposes of evaluating the constraint).

---

`wxOGLConstraint::Equals`

`topic6`

`rowse00012`

`K wxOGLConstraint Equals`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxoglconstraint')")`

`K Equals`

**wxOGLConstraint::Evaluate**

**bool Evaluate()**

Evaluates this constraint, returning TRUE if anything changed.

---

wxOGLConstraint::Evaluate  
topic7  
browse00013  
K wxOGLConstraint Evaluate  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxoglconstraint')")  
K Evaluate

\$#+K! **wxOGLConstraint::SetSpacing**

**void SetSpacing(double x, double y)<sup>K</sup>**

Sets the horizontal and vertical spacing for the constraint.

---

wxOGLConstraint::SetSpacing  
wxoglconstraintsetspacing  
browse00014  
K wxOGLConstraint SetSpacing  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxoglconstraint')")  
K SetSpacing

`$#+K!` **wxBitmapShape::wxBitmapShape**

**wxBitmapShape()**<sup>K</sup>

Constructor.

---

`w`xBitmapShape::wxBitmapShape  
`t`opic8  
`b`rowse00016  
`K` wxBitmapShape wxBitmapShape  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxbitmapshape')")  
`K` wxBitmapShape

**`$#+K!wxBitmapShape::~~wxBitmapShape`**

**`~wxBitmapShape()`<sup>K</sup>**

Destructor.

---

`wxBitmapShape::~~wxBitmapShape`

`topic9`

`browse00017`

`K wxBitmapShape ~wxBitmapShape`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxbitmapshape')")`

`K ~wxBitmapShape`

`$#+KKl wxBitmapShape::GetBitmap`

`wxBitmap& GetBitmap() const`

Returns a reference to the bitmap associated with this shape.

---

`wxBitmapShape::GetBitmap`  
`topic10`  
`browse00018`  
`K wxBitmapShape GetBitmap`  
`K GetBitmap`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxbitmapshape')")`

`$#+KKl` **wxBitmapShape::GetFilename**

**wxString GetFilename() const**

Returns the bitmap filename.

---

`w`xBitmapShape::GetFilename  
`t`opic11  
`b`rowse00019  
`K` wxBitmapShape GetFilename  
`K` GetFilename  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxbitmapshape')")

\$#+K! **wxBitmapShape::SetBitmap**

**void SetBitmap(const wxBitmap& *bitmap*)**<sup>K</sup>

Sets the bitmap associated with this shape. You can delete the bitmap from the calling application, since reference counting will take care of holding on to the internal bitmap data.

---

wxBitmapShape::SetBitmap  
topic12  
browse00020  
K wxBitmapShape SetBitmap  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxbitmapshape')")  
K SetBitmap

**wxBitmapShape::SetFilename**

**void SetFilename(const wxString& filename)**<sup>K</sup>

Sets the bitmap filename.

---

<sup>w</sup>xBitmapShape::SetFilename

<sup>t</sup>opic13

<sup>b</sup>rowse00021

<sup>K</sup> wxBitmapShape SetFilename

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxbitmapshape')")

<sup>K</sup> SetFilename

`$#+K!wxDiagram::wxDiagram`

`wxDiagram()`<sup>K</sup>

Constructor.

---

`wxDiagram::wxDiagram`  
`topic14`  
`browse00023`  
`K wxDiagram wxDiagram`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")`  
`K wxDiagram`

**wxDiagram::~~wxDiagram**

**~wxDiagram()**

Destructor.

---

wxDiagram::~~wxDiagram  
topic15  
browse00024  
K wxDiagram ~wxDiagram  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")  
K ~wxDiagram

`$#+K!wxDiagram::AddShape`

`void AddShape(wxShape*shape, wxShape *addAfter = NULL)K`

Adds a shape to the diagram. If *addAfter* is non-NULL, the shape will be added after this one.

---

`wxDiagram::AddShape`  
`topic16`  
`browse00025`  
`K wxDiagram AddShape`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")`  
`K AddShape`

**wxDiagram::Clear**

**void Clear(wxDC& dc)**

Clears the specified device context.

---

wxDiagram::Clear

topic17

browse00026

wxDiagram Clear

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")

Clear

**wxDiagram::DeleteAllShapes**

**void DeletesAllShapes()**

Removes and deletes all shapes in the diagram.

---

**wxDiagram::DeleteAllShapes**

topic18

browse00027

**wxDiagram DeleteAllShapes**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")**

**DeletesAllShapes**

\$#+K! **wxDiagram::DrawOutline**

**void DrawOutline(wxDC& *dc*, double *x1*, double *y1*, double *x2*, double *y2*)**<sup>K</sup>

Draws an outline rectangle on the current device context.

---

wxDiagram::DrawOutline

topic19

browse00028

K wxDiagram DrawOutline

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")

K DrawOutline

\$#+KK! **wxDiagram::FindShape**

**wxShape\* FindShape(long *id*) const**

Returns the shape for the given identifier.

---

WxDiagram::FindShape  
Wxdiagramfindshape  
browse00029  
K wxDiagram FindShape  
K FindShape  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

`$#+KKl` **wxDiagram::GetCanvas**

**wxShapeCanvas\* GetCanvas() const**

Returns the shape canvas associated with this diagram.

---

`w`xDiagram::GetCanvas

`t`opic20

`b`rowse00030

`K` wxDiagram GetCanvas

`K` GetCanvas

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp`, `wxdiagram`)"

**wxDiagram::GetCount**

**int GetCount() const**

Returns the number of shapes in the diagram.

---

`wxDiagram::GetCount`  
`wxdiagramgetcount`  
`rowse00031`  
`wxDiagram GetCount`  
`GetCount`  
`enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")`

`wxDiagram::GetGridSpacing`

`double GetGridSpacing() const`

Returns the grid spacing.

---

`wxDiagram::GetGridSpacing`

`topic21`

`rowse00032`

`wxDiagram GetGridSpacing`

`GetGridSpacing`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")`

\$#+K! **wxDiagram::GetMouseTolerance**

**int GetMouseTolerance()**<sup>K</sup>

Returns the tolerance within which a mouse move is ignored.

---

wxDiagram::GetMouseTolerance  
topic22  
browse00033  
K wxDiagram GetMouseTolerance  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")  
K GetMouseTolerance

`$#+KKl wxDiagram::GetShapeList`

`wxList* GetShapeList() const`

Returns a pointer to the internal shape list.

---

`wxDiagram::GetShapeList`

`topic23`

`rowse00034`

`K wxDiagram GetShapeList`

`K GetShapeList`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")`

`$#+KKl wxDiagram::GetQuickEditMode`

`bool GetQuickEditMode() const`

Returns quick edit mode.

---

`wxDiagram::GetQuickEditMode`

`topic24`

`browse00035`

`K wxDiagram GetQuickEditMode`

`K GetQuickEditMode`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")`

`$#+KKl wxDiagram::GetSnapToGrid`

`bool GetSnapToGrid() const`

Returns snap-to-grid mode.

---

`wxDiagram::GetSnapToGrid`

`topic25`

`browse00036`

`K wxDiagram GetSnapToGrid`

`K GetSnapToGrid`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")`

\$#+K! **wxDiagram::InsertShape**

**void InsertShape(wxShape \**shape*)**<sup>K</sup>

Inserts a shape at the front of the shape list.

---

<sup>w</sup>xDiagram::InsertShape

<sup>t</sup>opic26

<sup>b</sup>rowse00037

<sup>K</sup> wxDiagram InsertShape

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

<sup>K</sup> InsertShape

`wxDiagram::LoadFile`

`bool LoadFile(const wxString& filename)`

Loads the diagram from a file.

---

`wxDiagram::LoadFile`  
`topic27`  
`rowse00038`  
`wxDiagram LoadFile`  
`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")`  
`LoadFile`

**wxDiagram::OnDatabaseLoad**

**void OnDatabaseLoad(wxExprDatabase& *database*)**<sup>K</sup>

Called just after the nodes and lines have been read from the wxExprDatabase. You may override this; the default member does nothing.

---

<sup>w</sup>xDiagram::OnDatabaseLoad

<sup>t</sup>opic28

<sup>b</sup>rowse00039

<sup>K</sup> wxDiagram OnDatabaseLoad

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

<sup>K</sup> OnDatabaseLoad

**wxDiagram::OnDatabaseSave**

**void OnDatabaseSave(wxExprDatabase& *database*)**<sup>K</sup>

Called just after the nodes and lines have been written to the wxExprDatabase. You may override this; the default member does nothing.

---

<sup>w</sup>xDiagram::OnDatabaseSave

<sup>t</sup>opic29

<sup>b</sup>rowse00040

<sup>K</sup> wxDiagram OnDatabaseSave

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

<sup>K</sup> OnDatabaseSave

`$#+K!` **wxDiagram::OnHeaderLoad**

**bool OnHeaderLoad(wxExprDatabase& *database*, wxExpr& *expr*)**<sup>K</sup>

Called to allow the 'diagram' header object to be read. The default member reads no further information. You may wish to override this to read version information, author name, etc.

---

`w`xDiagram::OnHeaderLoad  
`t`opic30  
`b`rowse00041  
`K` wxDiagram OnHeaderLoad  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")  
`K` OnHeaderLoad

**wxDiagram::OnHeaderSave**

**bool OnHeaderSave(wxExprDatabase& *database*, wxExpr& *expr*)<sup>K</sup>**

Called to allow instantiation of the 'diagram' header object. The default member writes no further information. You may wish to override this to include version information, author name, etc.

---

<sup>w</sup>xDiagram::OnHeaderSave  
<sup>t</sup>opic31  
<sup>b</sup>rowse00042  
<sup>K</sup> wxDiagram OnHeaderSave  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")  
<sup>K</sup> OnHeaderSave

\$#+K! **wxDiagram::OnShapeLoad**

**bool OnShapeLoad(wxExprDatabase& *database*, wxShape& *shape*, wxExpr& *expr*)**<sup>K</sup>

Called to read the shape from the *expr*. You may override this, but call this function first. The default member calls ReadAttributes for the shape.

---

wxDiagram::OnShapeLoad  
topic32  
browse00043  
K wxDiagram OnShapeLoad  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")  
K OnShapeLoad

## \$#+K! **wxDiagram::OnShapeSave**

**bool OnShapeSave(wxExprDatabase& *database*, wxShape& *shape*, wxExpr& *expr*)**<sup>K</sup>

Called to save the shape to the *expr* and *database*. You may override this, but call this function first. The default member calls WriteAttributes for the shape, appends the shape to the database, and if the shape is a composite, recursively calls OnShapeSave for its children.

---

<sup>w</sup>xDiagram::OnShapeSave

<sup>t</sup>opic33

<sup>b</sup>rowse00044

<sup>K</sup> wxDiagram OnShapeSave

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")

<sup>K</sup> OnShapeSave

**`wxDiagram::ReadContainerGeometry`**

**`void ReadContainerGeometry(wxExprDatabase& database)`**<sup>K</sup>

Reads container geometry from a wxExprDatabase, linking up nodes which are part of a composite. You probably won't need to redefine this.

---

<sup>w</sup>xDiagram::ReadContainerGeometry  
<sup>t</sup>opic34  
<sup>b</sup>rowse00045  
<sup>K</sup> wxDiagram ReadContainerGeometry  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")  
<sup>K</sup> ReadContainerGeometry

`$#+K!wxDiagram::ReadLines`

`void ReadLines(wxExprDatabase& database)K`

Reads lines from a wxExprDatabase. You probably won't need to redefine this.

---

`wxDiagram::ReadLines`

`topic35`

`rowse00046`

`K wxDiagram ReadLines`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")`

`K ReadLines`

**wxDiagram::ReadNodes**

**void ReadNodes(wxExprDatabase& database)**<sup>K</sup>

Reads nodes from a wxExprDatabase. You probably won't need to redefine this.

---

<sup>w</sup>xDiagram::ReadNodes

<sup>t</sup>opic36

<sup>b</sup>rowse00047

<sup>K</sup> wxDiagram ReadNodes

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

<sup>K</sup> ReadNodes

**wxDiagram::RecentreAll**

**void RecentreAll(wxDC& dc)**

Make sure all text that should be centred, is centred.

---

wxDiagram::RecentreAll  
topic37  
browse00048  
K wxDiagram RecentreAll  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")  
K RecentreAll

**wxDiagram::Redraw**

**void Redraw(wxDC& dc)**

Draws the shapes in the diagram on the specified device context.

---

wxDiagram::Redraw  
topic38  
browse00049  
K wxDiagram Redraw  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")  
K Redraw

**`wxDiagram::RemoveAllShapes`**

**`void RemoveAllShapes()`**<sup>K</sup>

Removes all shapes from the diagram but does not delete the shapes.

---

`wxDiagram::RemoveAllShapes`

`topic39`

`browse00050`

`K wxDiagram RemoveAllShapes`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")`

`K RemoveAllShapes`

\$#+K! **wxDiagram::RemoveShape**

**void RemoveShape(wxShape\* *shape*)**<sup>K</sup>

Removes the shape from the diagram (non-recursively) but does not delete it.

---

wxDiagram::RemoveShape  
topic40  
browse00051  
K wxDiagram RemoveShape  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")  
K RemoveShape

`$#+K!` **wxDiagram::SaveFile**

**bool SaveFile(const wxString& *filename*)**<sup>K</sup>

Saves the diagram in a file.

---

<sup>w</sup>xDiagram::SaveFile

<sup>t</sup>opic41

<sup>b</sup>rowse00052

<sup>K</sup> wxDiagram SaveFile

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

<sup>K</sup> SaveFile

\$#+K! **wxDiagram::SetCanvas**

**void SetCanvas(wxShapeCanvas\* *canvas*)**<sup>K</sup>

Sets the canvas associated with this diagram.

---

<sup>w</sup>xDiagram::SetCanvas

<sup>w</sup>xdiagramsetcanvas

<sup>b</sup>rowse00053

<sup>K</sup> wxDiagram SetCanvas

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

<sup>K</sup> SetCanvas

**wxDiagram::SetGridSpacing**

**void SetGridSpacing(double *spacing*)**<sup>K</sup>

Sets the grid spacing. The default is 5.

---

<sup>w</sup>xDiagram::SetGridSpacing

<sup>t</sup>opic42

<sup>b</sup>rowse00054

<sup>K</sup> wxDiagram SetGridSpacing

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

<sup>K</sup> SetGridSpacing

\$#+K! **wxDiagram::SetMouseTolerance**

**void SetMouseTolerance**(int *tolerance*)<sup>K</sup>

Sets the tolerance within which a mouse move is ignored. The default is 3 pixels.

---

wxDiagram::SetMouseTolerance

topic43

browse00055

K wxDiagram SetMouseTolerance

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

K SetMouseTolerance

\$#+K! **wxDiagram::SetQuickEditMode**

**void SetQuickEditMode**(**bool** *mode*)<sup>K</sup>

Sets quick-edit-mode on or off. In this mode, refreshes are minimized, but the diagram may need manual refreshing occasionally.

---

wxDiagram::SetQuickEditMode  
topic44  
browse00056  
K wxDiagram SetQuickEditMode  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")  
K SetQuickEditMode

\$#+K! **wxDiagram::SetSnapToGrid**

**void SetSnapToGrid**(bool *snap*)<sup>K</sup>

Sets snap-to-grid mode on or off. The default is on.

---

wxDiagram::SetSnapToGrid

topic45

browse00057

K wxDiagram SetSnapToGrid

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")

K SetSnapToGrid

\$#+K! **wxDiagram::ShowAll**

**void ShowAll**(**bool** *show*)<sup>K</sup>

Calls Show for each shape in the diagram.

---

wxDiagram::ShowAll  
topic46  
browse00058  
K wxDiagram ShowAll  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdiagram')")  
K ShowAll

**wxDiagram::Snap**

**void Snap(double \*x, double \*y)**

'Snaps' the coordinate to the nearest grid position, if snap-to-grid is on.

---

wxDiagram::Snap

topic47

browse00059

wxDiagram Snap

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdiagram')")

Snap

**wxDrawnShape::wxDrawnShape**

**wxDrawnShape()**

Constructor.

---

wxDrawnShape::wxDrawnShape  
topic48  
browse00061  
K wxDrawnShape wxDrawnShape  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K wxDrawnShape

**`$#+K!wxDrawnShape::~~wxDrawnShape`**

**`~wxDrawnShape()`<sup>K</sup>**

Destructor.

---

`wxDrawnShape::~~wxDrawnShape`

`topic49`

`browse00062`

`K wxDrawnShape ~wxDrawnShape`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")`

`K ~wxDrawnShape`

**wxDrawnShape::CalculateSize**

**void CalculateSize()**

Calculates the wxDrawnShape size from the current metafile. Call this after you have drawn into the shape.

---

**wxDrawnShape::CalculateSize**

**topic50**

**browse00063**

**wxDrawnShape CalculateSize**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")**

**CalculateSize**

\$#+K! **wxDrawnShape::DestroyClippingRect**

**void DestroyClippingRect()**<sup>K</sup>

Destroys the clipping rectangle. See also [wxDrawnShape::SetClippingRect](#).

---

wxDrawnShape::DestroyClippingRect  
wxdrawnshapedestroyclippingrect  
browse00064  
K wxDrawnShape DestroyClippingRect  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K DestroyClippingRect

\$#+K! **wxDrawnShape::DrawArc**

**void DrawArc(const wxPoint& *centrePoint*, const wxPoint& *startPoint*, const wxPoint& *endPoint*)**<sup>K</sup>

Draws an arc (see wxWindows documentation for details).

---

wxDrawnShape::DrawArc  
wxdrawnshapedrawarc  
browse00065  
K wxDrawnShape DrawArc  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K DrawArc

\$#+K! **wxDrawnShape::DrawAtAngle**

**void DrawAtAngle**(int *angle*)<sup>K</sup>

Sets the metafile for the given orientation, which can be one of:

{bmc bullet.bmp} ogIDRAWN\_ANGLE\_0

{bmc bullet.bmp} ogIDRAWN\_ANGLE\_90

{bmc bullet.bmp} ogIDRAWN\_ANGLE\_180

{bmc bullet.bmp} ogIDRAWN\_ANGLE\_270

See also [wxDrawnShape::GetAngle](#).

---

<sup>w</sup>wxDrawnShape::DrawAtAngle

<sup>w</sup>wxdrawnshapedrawatangle

<sup>b</sup>rowse00066

<sup>K</sup>wxDrawnShape DrawAtAngle

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")

<sup>K</sup>DrawAtAngle

\$#+K! **wxDrawnShape::DrawEllipticArc**

**void DrawEllipticArc(const wxRect& *rect*, double *startAngle*, double *endAngle*)**<sup>K</sup>

Draws an elliptic arc (see wxWindows documentation for details).

---

wxDrawnShape::DrawEllipticArc  
wxdrawnshapedrawellipticarc  
browse00067  
K wxDrawnShape DrawEllipticArc  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K DrawEllipticArc

**`wxDrawnShape::DrawLine`**

**`void DrawLine(const wxPoint& point1, const wxPoint& point2)`**<sup>K</sup>

Draws a line from *point1* to *point2*.

---

<sup>w</sup>`wxDrawnShape::DrawLine`  
<sup>w</sup>`wxdrawnshapedrawline`  
<sup>b</sup>`rowse00068`  
<sup>K</sup>`wxDrawnShape DrawLine`  
<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")`  
<sup>K</sup>`DrawLine`

\$#+K! **wxDrawnShape::DrawLines**

**void DrawLines**(int *n*, wxPoint& *points*[])<sup>K</sup>

Draws *n* lines.

---

wxDrawnShape::DrawLines

wxdrawnshapedrawlines

browse00069

K wxDrawnShape DrawLines

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")

K DrawLines

\$#+K! **wxDrawnShape::DrawPoint**

**void DrawPoint(const wxPoint& *point*)**<sup>K</sup>

Draws a point.

---

<sup>w</sup>xDrawnShape::DrawPoint

<sup>w</sup>xdrawnshapedrawpoint

<sup>b</sup>rowse00070

<sup>K</sup> wxDrawnShape DrawPoint

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")

<sup>K</sup> DrawPoint

\$#+K! **wxDrawnShape::DrawPolygon**

**void DrawPolygon**(int *n*, wxPoint& *points*[], int *flags* = 0)<sup>K</sup>

Draws a polygon. *flags* can be one or more of **ogIMETAFLAGS\_OUTLINE** (use this polygon for the drag outline) and **ogIMETAFLAGS\_ATTACHMENTS** (use the vertices of this polygon for attachments).

---

wxDrawnShape::DrawPolygon  
wxdrawnshapedrawpolygon  
browse00071  
K wxDrawnShape DrawPolygon  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K DrawPolygon

\$#+K! **wxDrawnShape::DrawRectangle**

**void DrawRectangle(const wxRect& *rect*)**<sup>K</sup>

Draws a rectangle.

---

wxDrawnShape::DrawRectangle

wxdrawnshapedrawrectangle

browse00072

K wxDrawnShape DrawRectangle

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")

K DrawRectangle

\$#+K! **wxDrawnShape::DrawRoundedRectangle**

**void DrawRoundedRectangle(const wxRect& *rect*, double *radius*)**<sup>K</sup>

Draws a rounded rectangle. *radius* is the corner radius. If *radius* is negative, it expresses the radius as a proportion of the smallest dimension of the rectangle.

---

wxDrawnShape::DrawRoundedRectangle  
wxdrawnshapedrawroundedrectangle  
browse00073  
K wxDrawnShape DrawRoundedRectangle  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K DrawRoundedRectangle

`$#+K!` **wxDrawnShape::DrawSpline**

**void DrawSpline**(int *n*, wxPoint& *points[]*)<sup>K</sup>

Draws a spline curve.

---

<sup>w</sup>xDrawnShape::DrawSpline

<sup>w</sup>xdrawnshapedrawspline

<sup>b</sup>rowse00074

<sup>K</sup> wxDrawnShape DrawSpline

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")

<sup>K</sup> DrawSpline

\$#+K! **wxDrawnShape::DrawText**

**void DrawText(const wxString& *text*, const wxPoint& *point*)**<sup>K</sup>

Draws text at the given point.

---

wxDrawnShape::DrawText  
wxdrawnshapedrawtext  
browse00075  
K wxDrawnShape DrawText  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")  
K DrawText

`wxDrawnShape::GetAngle`

`int GetAngle() const`

Returns the current orientation, which can be one of:

`{bmc bullet.bmp} ogIDRAWN_ANGLE_0`

`{bmc bullet.bmp} ogIDRAWN_ANGLE_90`

`{bmc bullet.bmp} ogIDRAWN_ANGLE_180`

`{bmc bullet.bmp} ogIDRAWN_ANGLE_270`

See also [wxDrawnShape::DrawAtAngle](#).

---

`wxDrawnShape::GetAngle`

`wxdrawnshapegetangle`

`rowse00076`

`wxDrawnShape GetAngle`

`GetAngle`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")`

`$#+KKl wxDrawnShape::GetMetaFile`

`wxPseudoMetaFile& GetMetaFile() const`

Returns a reference to the internal 'pseudo-metafile'.

---

`wxDrawnShape::GetMetaFile`

`topic51`

`browse00077`

`K wxDrawnShape GetMetaFile`

`K GetMetaFile`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape`)")`

`$#+KK!` **wxDrawnShape::GetRotation**

**double GetRotation() const**

Returns the current rotation of the shape in radians.

---

`w`xDrawnShape::GetRotation  
`w`xdrawnshapegetrotation  
`b`rowse00078  
`K` wxDrawnShape GetRotation  
`K` GetRotation  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")

**wxDrawnShape::LoadFromMetaFile**

**bool LoadFromMetaFile(const wxString& filename)<sup>K</sup>**

Loads a (very simple) Windows metafile, created for example by Top Draw, the Windows shareware graphics package.

---

wxDrawnShape::LoadFromMetaFile  
topic52  
browse00079  
K wxDrawnShape LoadFromMetaFile  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K LoadFromMetaFile

\$#+K! **wxDrawnShape::Rotate**

**void Rotate(double *x*, double *y*, double *theta*)**<sup>K</sup>

Rotate about the given axis by the given amount in radians.

---

wxDrawnShape::Rotate

topic53

browse00080

K wxDrawnShape Rotate

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")

K Rotate

\$#+K! **wxDrawnShape::SetClippingRect**

**void SetClippingRect(const wxRect& *rect*)**<sup>K</sup>

Sets the clipping rectangle. See also [wxDrawnShape::DestroyClippingRect](#).

---

<sup>w</sup>wxDrawnShape::SetClippingRect  
<sup>w</sup>wxdrawnshapesetclippingrect  
<sup>b</sup>rowse00081  
<sup>K</sup> wxDrawnShape SetClippingRect  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
<sup>K</sup> SetClippingRect

\$#+K! **wxDrawnShape::SetDrawnBackgroundColour**

**void SetDrawnBackgroundColour(const wxColour& *colour*)**<sup>K</sup>

Sets the current background colour for the current metafile.

---

wxDrawnShape::SetDrawnBackgroundColour  
wxdrawnshapetdrawnbackgroundcolour  
browse00082  
K wxDrawnShape SetDrawnBackgroundColour  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")  
K SetDrawnBackgroundColour

\$#+K! **wxDrawnShape::SetDrawnBackgroundMode**

**void SetDrawnBackgroundMode(int *mode*)**<sup>K</sup>

Sets the current background mode for the current metafile.

---

<sup>w</sup>wxDrawnShape::SetDrawnBackgroundMode  
<sup>w</sup>wxdrawnshapetdrawnbackgroundmode  
<sup>b</sup>rowse00083  
<sup>K</sup>wxDrawnShape SetDrawnBackgroundMode  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")  
<sup>K</sup>SetDrawnBackgroundMode

\$#+K! **wxDrawnShape::SetDrawnBrush**

**void SetDrawnBrush**(wxPen\* *pen*, **bool** *isOutline* = *FALSE*)<sup>K</sup>

Sets the pen for this metafile. If *isOutline* is TRUE, this pen is taken to indicate the outline (and if the outline pen is changed for the whole shape, the pen will be replaced with the outline pen).

---

wxDrawnShape::SetDrawnBrush  
wxdrawnshapetdrawnbrush  
browse00084  
K wxDrawnShape SetDrawnBrush  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K SetDrawnBrush

**`wxDrawnShape::SetDrawnFont`**

**`void SetDrawnFont(wxFont* font)`**<sup>K</sup>

Sets the current font for the current metafile.

---

<sup>w</sup>`wxDrawnShape::SetDrawnFont`

<sup>w</sup>`wxdrawnshapetdrawnfont`

<sup>b</sup>`rowse00085`

<sup>K</sup>`wxDrawnShape SetDrawnFont`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")`

<sup>K</sup>`SetDrawnFont`

<sup>\$#+K!</sup>**wxDrawnShape::SetDrawnPen**

**void SetDrawnPen**(wxPen\* *pen*, **bool** *isOutline* = *FALSE*)<sup>K</sup>

Sets the pen for this metafile. If *isOutline* is TRUE, this pen is taken to indicate the outline (and if the outline pen is changed for the whole shape, the pen will be replaced with the outline pen).

---

<sup>w</sup>xDrawnShape::SetDrawnPen  
<sup>w</sup>xdrawnshapetdrawnpen  
<sup>b</sup>rowse00086  
<sup>K</sup> wxDrawnShape SetDrawnPen  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
<sup>K</sup> SetDrawnPen

<sup>\$#+K!</sup>**wxDrawnShape::SetDrawnTextColour**

**void SetDrawnTextColour(const wxColour& *colour*)**<sup>K</sup>

Sets the current text colour for the current metafile.

---

<sup>w</sup>xDrawnShape::SetDrawnTextColour  
<sup>w</sup>xdrawnshapetdrawntextcolour  
<sup>b</sup>rowse00087  
<sup>K</sup> wxDrawnShape SetDrawnTextColour  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
<sup>K</sup> SetDrawnTextColour

\$#+K! **wxDrawnShape::Scale**

**void Scale(double *sx*, double *sy*)**<sup>K</sup>

Scales the shape by the given amount.

---

wxDrawnShape::Scale  
topic54  
browse00088  
K wxDrawnShape Scale  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K Scale

\$#+K! **wxDrawnShape::SetSaveToFile**

**void SetSaveToFile**(**bool** *save*)<sup>K</sup>

If *save* is TRUE, the image will be saved along with the shape's other attributes. The reason why this might not be desirable is that if there are many shapes with the same image, it would be more efficient for the application to save one copy, and not duplicate the information for every shape. The default is TRUE.

---

wxDrawnShape::SetSaveToFile  
topic55  
browse00089  
K wxDrawnShape SetSaveToFile  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdrawnshape')")  
K SetSaveToFile

\$#+K! **wxDrawnShape::Translate**

**void Translate(double x, double y)**<sup>K</sup>

Translates the shape by the given amount.

---

<sup>w</sup>xDrawnShape::Translate

<sup>t</sup>opic56

<sup>b</sup>rowse00090

<sup>K</sup> wxDrawnShape Translate

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdrawnshape')")

<sup>K</sup> Translate

`$#+K!wxCircleShape::wxCircleShape`

`wxCircleShape(double width = 0.0)K`

Constructor.

---

`wxCircleShape::wxCircleShape`

`topic57`

`browse00092`

`K wxCircleShape wxCircleShape`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcirclesshape')")`

`K wxCircleShape`

**`$#+K!wxCircleShape::~~wxCircleShape`**

**`~wxCircleShape()`<sup>K</sup>**

Destructor.

---

**`wxCircleShape::~~wxCircleShape`**

**`topic58`**

**`browse00093`**

**`K wxCircleShape ~wxCircleShape`**

**`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcircleshape')")`**

**`K ~wxCircleShape`**

**`wxCompositeShape::wxCompositeShape`**

**`wxCompositeShape()`**<sup>K</sup>

Constructor.

---

`wxCompositeShape::wxCompositeShape`

`topic59`

`browse00095`

`wxCompositeShape wxCompositeShape`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")`

`wxCompositeShape`

**`wxCompositeShape::~wxCompositeShape`**

**`~wxCompositeShape()`**<sup>K</sup>

Destructor.

---

`wxCompositeShape::~wxCompositeShape`

`topic60`

`browse00096`

`wxCompositeShape ~wxCompositeShape`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")`

`~wxCompositeShape`

**wxCompositeShape::AddChild**

**void AddChild(wxShape \*child, wxShape \*addAfter = NULL)**<sup>K</sup>

Adds a child shape to the composite. If *addAfter* is non-NULL, the shape will be added after this shape.

---

<sup>w</sup> wxCompositeShape::AddChild  
<sup>w</sup> wxcompositeshapeaddchild  
<sup>b</sup>rowse00097  
<sup>K</sup> wxCompositeShape AddChild  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")  
<sup>K</sup> AddChild

**`$#+K!` wxCompositeShape::AddConstraint**

**`wxOGLConstraint * AddConstraint(wxOGLConstraint *constraint)K`**

**`wxOGLConstraint * AddConstraint(int type, wxShape *constraining,  
wxList&constrained)K`**

**`wxOGLConstraint * AddConstraint(int type, wxShape *constraining, wxShape  
*constrained)K`**

Adds a constraint to the composite.

---

<sup>w</sup>xCompositeShape::AddConstraint

<sup>w</sup>xcompositeshapeaddconstraint

<sup>b</sup>rowse00098

<sup>K</sup> wxCompositeShape AddConstraint

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxcompositeshape')")

<sup>K</sup> AddConstraint

<sup>K</sup> AddConstraint

<sup>K</sup> AddConstraint

`$#+K!` **wxCompositeShape::CalculateSize**

**void CalculateSize()**<sup>K</sup>

Calculates the size and position of the composite based on child sizes and positions.

---

<sup>w</sup>xCompositeShape::CalculateSize

<sup>t</sup>opic61

<sup>b</sup>rowse00099

<sup>K</sup> wxCompositeShape CalculateSize

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")

<sup>K</sup> CalculateSize

\$#+K! **wxCompositeShape::ContainsDivision**

**bool FindContainerImage(wxDivisionShape \**division*)**<sup>K</sup>

Returns TRUE if *division* is a descendant of this container.

---

wxCompositeShape::ContainsDivision

topic62

browse00100

K wxCompositeShape ContainsDivision

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")

K FindContainerImage

**`wxCompositeShape::DeleteConstraint`**

**`void DeleteConstraint(wxOGLConstraint *constraint)`**<sup>K</sup>

Deletes constraint from composite.

---

<sup>w</sup>`wxCompositeShape::DeleteConstraint`

<sup>t</sup>`opic63`

<sup>b</sup>`rowse00101`

<sup>K</sup>`wxCompositeShape DeleteConstraint`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")`

<sup>K</sup>`DeleteConstraint`

**`wxCompositeShape::DeleteConstraintsInvolvingChild`**

**`void DeleteConstraintsInvolvingChild(wxShape *child)`**<sup>K</sup>

This function deletes constraints which mention the given child. Used when deleting a child from the composite.

---

`wxCompositeShape::DeleteConstraintsInvolvingChild`

`topic64`

`browse00102`

`wxCompositeShape DeleteConstraintsInvolvingChild`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")`

`DeleteConstraintsInvolvingChild`

**`$#+K! wxCompositeShape::FindConstraint`**

**`wxOGLConstraint * FindConstraint(long id, wxCompositeShape  
**actualComposite)K`**

Finds the constraint with the given id, also returning the actual composite the constraint was in, in case that composite was a descendant of this composite.

---

`w`xCompositeShape::FindConstraint  
`t`opic65  
`b`rowse00103  
`K` wxCompositeShape FindConstraint  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")  
`K` FindConstraint

**`wxCompositeShape::FindContainerImage`**

**`wxShape * FindContainerImage()`**<sup>K</sup>

Finds the image used to visualize a container. This is any child of the composite that is not in the divisions list.

---

<sup>w</sup>xCompositeShape::FindContainerImage  
<sup>t</sup>opic66  
<sup>b</sup>rowse00104  
<sup>K</sup> wxCompositeShape FindContainerImage  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")  
<sup>K</sup> FindContainerImage

`wxCompositeShape::GetConstraints`

`wxList& GetConstraints() const`

Returns a reference to the list of constraints.

---

`wxCompositeShape::GetConstraints`

`topic67`

`rowse00105`

`wxCompositeShape GetConstraints`

`GetConstraints`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")`

`$#+KKl` **wxCompositeShape::GetDivisions**

**wxList& GetDivisions() const**

Returns a reference to the list of divisions.

---

`w`xCompositeShape::GetDivisions  
`t`opic68  
`b`rowse00106  
`K` wxCompositeShape GetDivisions  
`K` GetDivisions  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxcompositeshape')")

\$#+K! **wxCompositeShape::MakeContainer**

**void MakeContainer()**<sup>K</sup>

Makes this composite into a container by creating one child wxDivisionShape.

---

wxCompositeShape::MakeContainer  
wxcompositeshapemakecontainer  
browse00107  
K wxCompositeShape MakeContainer  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")  
K MakeContainer

**wxCompositeShape::OnCreateDivision**

**wxDivisionShape \* OnCreateDivision()**<sup>K</sup>

Called when a new division shape is required. Can be overridden to allow an application to use a different class of division.

---

**wxCompositeShape::OnCreateDivision**

**topic69**

**browse00108**

**wxCompositeShape OnCreateDivision**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")**

**OnCreateDivision**

**`wxCompositeShape::Recompute`**

**`bool Recompute()`**<sup>K</sup>

Recomputes any constraints associated with the object. If FALSE is returned, the constraints could not be satisfied (there was an inconsistency).

---

<sup>w</sup>`wxCompositeShape::Recompute`  
<sup>w</sup>`wxcompositeshaperecompute`  
<sup>b</sup>`rowse00109`  
<sup>K</sup> `wxCompositeShape` `Recompute`  
<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")`  
<sup>K</sup> `Recompute`

`$#+K!` **wxCompositeShape::RemoveChild**

**void RemoveChild(wxShape \*child)**<sup>K</sup>

Removes the child from the composite and any constraint relationships, but does not delete the child.

---

<sup>w</sup>xCompositeShape::RemoveChild

<sup>t</sup>opic70

<sup>b</sup>rowse00110

<sup>K</sup> wxCompositeShape RemoveChild

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxcompositeshape')")

<sup>K</sup> RemoveChild

`$#+K!` **wxDividedShape::wxDividedShape**

**wxDividedShape**(**double** *width* = 0.0, **double** *height* = 0.0)<sup>K</sup>

Constructor.

---

`w`xDividedShape::wxDividedShape

`t`opic71

`b`rowse00112

`K` wxDividedShape wxDividedShape

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdividedshape')")

`K` wxDividedShape

**`$#+K!wxDividedShape::~~wxDividedShape`**

**`~wxDividedShape()`**<sup>K</sup>

Destructor.

---

`wxDividedShape::~~wxDividedShape`

`topic72`

`browse00113`

`K wxDividedShape ~wxDividedShape`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdividedshape')")`

`K ~wxDividedShape`

**wxDividedShape::EditRegions**

**void EditRegions()**

Edit the region colours and styles.

---

**wxDividedShape::EditRegions**

**topic73**

**browse00114**

**wxDividedShape EditRegions**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdividedshape')")**

**EditRegions**

`$#+K!wxDividedShape::SetRegionSizes`

`void SetRegionSizes()`<sup>K</sup>

Set all region sizes according to proportions and this object total size.

---

`wxDividedShape::SetRegionSizes`

`topic74`

`browse00115`

`K wxDividedShape SetRegionSizes`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdividedshape')")`

`K SetRegionSizes`

**wxDivisionShape::wxDivisionShape**

**wxDivisionShape()**<sup>K</sup>

Constructor.

---

wxDivisionShape::wxDivisionShape  
topic75  
browse00117  
K wxDivisionShape wxDivisionShape  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K wxDivisionShape

**`$#+K!wxDivisionShape::~~wxDivisionShape`**

**`~wxDivisionShape()`<sup>K</sup>**

Destructor.

---

`wxDivisionShape::~~wxDivisionShape`

`topic76`

`browse00118`

`K wxDivisionShape ~wxDivisionShape`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")`

`K ~wxDivisionShape`

\$#+K! **wxDivisionShape::AdjustBottom**

**void AdjustBottom(double *bottom*, bool *test*)**<sup>K</sup>

Adjust a side, returning FALSE if it's not physically possible to adjust it to this point.

---

<sup>w</sup>xDivisionShape::AdjustBottom

<sup>t</sup>opic77

<sup>b</sup>rowse00119

<sup>K</sup> wxDivisionShape AdjustBottom

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdivisionshape')")

<sup>K</sup> AdjustBottom

\$#+K! **wxDivisionShape::AdjustLeft**

**void AdjustLeft(double *left*, bool *test*)**<sup>K</sup>

Adjust a side, returning FALSE if it's not physically possible to adjust it to this point.

---

<sup>w</sup>xDivisionShape::AdjustLeft

<sup>t</sup>opic78

<sup>b</sup>rowse00120

<sup>K</sup> wxDivisionShape AdjustLeft

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdivisionshape')")

<sup>K</sup> AdjustLeft

`$#+K!` **wxDivisionShape::AdjustRight**

**void AdjustRight(double *right*, bool *test*)**<sup>K</sup>

Adjust a side, returning FALSE if it's not physically possible to adjust it to this point.

---

<sup>w</sup>xDivisionShape::AdjustRight

<sup>t</sup>opic79

<sup>b</sup>rowse00121

<sup>K</sup> wxDivisionShape AdjustRight

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")

<sup>K</sup> AdjustRight

\$#+K! **wxDivisionShape::AdjustTop**

**void AdjustTop(double *top*, bool *test*)**<sup>K</sup>

Adjust a side, returning FALSE if it's not physically possible to adjust it to this point.

---

wxDivisionShape::AdjustTop  
topic80  
browse00122  
K wxDivisionShape AdjustTop  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K AdjustTop

\$#+K! **wxDivisionShape::Divide**

**void Divide**(int *direction*)<sup>K</sup>

Divide this division into two further divisions, horizontally (*direction* is wxHORIZONTAL) or vertically (*direction* is wxVERTICAL).

---

wxDivisionShape::Divide  
wxdivisionshapedivide  
browse00123  
K wxDivisionShape Divide  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K Divide

\$#+K! **wxDivisionShape::EditEdge**

**void EditEdge(int *side*)**<sup>K</sup>

Interactively edit style of left or top side.

---

wxDivisionShape::EditEdge  
topic81  
browse00124  
K wxDivisionShape EditEdge  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K EditEdge

\$#+K! **wxDivisionShape::GetBottomSide**

**wxDivisionShape \* GetBottomSide()**<sup>K</sup>

Returns a pointer to the division on the bottom side of this division.

---

wxDivisionShape::GetBottomSide  
topic82  
browse00125  
K wxDivisionShape GetBottomSide  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K GetBottomSide

\$#+K! **wxDivisionShape::GetHandleSide**

**int GetHandleSide()**<sup>K</sup>

Returns the side which the handle appears on (DIVISION\_SIDE\_LEFT or DIVISION\_SIDE\_TOP).

---

wxDivisionShape::GetHandleSide  
topic83  
browse00126  
K wxDivisionShape GetHandleSide  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K GetHandleSide

**`$#+K!wxDivisionShape::GetLeftSide`**

**`wxDivisionShape * GetLeftSide()`**<sup>K</sup>

Returns a pointer to the division on the left side of this division.

---

<sup>w</sup>xDivisionShape::GetLeftSide  
<sup>t</sup>opic84  
<sup>b</sup>rowse00127  
<sup>K</sup> wxDivisionShape GetLeftSide  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
<sup>K</sup> GetLeftSide

**`wxDivisionShape::GetLeftSideColour`**

**`wxString GetLeftSideColour()`**<sup>K</sup>

Returns a pointer to the colour used for drawing the left side of the division.

---

<sup>w</sup>xDivisionShape::GetLeftSideColour  
<sup>t</sup>opic85  
<sup>b</sup>rowse00128  
<sup>K</sup> wxDivisionShape GetLeftSideColour  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
<sup>K</sup> GetLeftSideColour

\$#+K! **wxDivisionShape::GetLeftSidePen**

**wxPen \* GetLeftSidePen()**<sup>K</sup>

Returns a pointer to the pen used for drawing the left side of the division.

---

wxDivisionShape::GetLeftSidePen  
topic86  
browse00129  
K wxDivisionShape GetLeftSidePen  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K GetLeftSidePen

\$#+K! **wxDivisionShape::GetRightSide**

**wxDivisionShape \* GetRightSide()**<sup>K</sup>

Returns a pointer to the division on the right side of this division.

---

wxDivisionShape::GetRightSide

topic87

browse00130

K wxDivisionShape GetRightSide

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")

K GetRightSide

**`wxDivisionShape::GetTopSide`**

**`wxDivisionShape * GetTopSide()`**<sup>K</sup>

Returns a pointer to the division on the top side of this division.

---

<sup>w</sup>xDivisionShape::GetTopSide  
<sup>t</sup>opic88  
<sup>b</sup>rowse00131  
<sup>K</sup> wxDivisionShape GetTopSide  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
<sup>K</sup> GetTopSide

\$#+K! **wxDivisionShape::GetTopSideColour**

**wxString GetTopSideColour()**<sup>K</sup>

Returns a pointer to the colour used for drawing the top side of the division.

---

wxDivisionShape::GetTopSideColour  
topic89  
browse00132  
K wxDivisionShape GetTopSideColour  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K GetTopSideColour

\$#+K! **wxDivisionShape::GetTopSidePen**

**wxPen \* GetTopSidePen()**<sup>K</sup>

Returns a pointer to the pen used for drawing the left side of the division.

---

wxDivisionShape::GetTopSidePen  
topic90  
browse00133  
K wxDivisionShape GetTopSidePen  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K GetTopSidePen

\$\$\$K! **wxDivisionShape::ResizeAdjoining**

**void ResizeAdjoining**(int *side*, double *newPos*, bool *test*)<sup>K</sup>

Resize adjoining divisions at the given side. If *test* is TRUE, just see whether it's possible for each adjoining region, returning FALSE if it's not.

*side* can be one of:

{bmc bullet.bmp} DIVISION\_SIDE\_NONE

{bmc bullet.bmp} DIVISION\_SIDE\_LEFT

{bmc bullet.bmp} DIVISION\_SIDE\_TOP

{bmc bullet.bmp} DIVISION\_SIDE\_RIGHT

{bmc bullet.bmp} DIVISION\_SIDE\_BOTTOM

---

wxDivisionShape::ResizeAdjoining

topic91

browse00134

K wxDivisionShape ResizeAdjoining

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")

K ResizeAdjoining

`$#+K!` **wxDivisionShape::PopupMenu**

**void PopupMenu(double *x*, double *y*)**<sup>K</sup>

PopupMenu the division menu.

---

<sup>w</sup>xDivisionShape::PopupMenu

<sup>t</sup>opic92

<sup>b</sup>rowse00135

<sup>K</sup> wxDivisionShape PopupMenu

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdivisionshape')")

<sup>K</sup> PopupMenu

\$#+K! **wxDivisionShape::SetBottomSide**

**void SetBottomSide(wxDivisionShape \**shape*)**<sup>K</sup>

Set the pointer to the division on the bottom side of this division.

---

wxDivisionShape::SetBottomSide

topic93

browse00136

K wxDivisionShape SetBottomSide

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")

K SetBottomSide

\$#+K! **wxDivisionShape::SetHandleSide**

**int SetHandleSide()**<sup>K</sup>

Sets the side which the handle appears on (DIVISION\_SIDE\_LEFT or DIVISION\_SIDE\_TOP).

---

wxDivisionShape::SetHandleSide

topic94

browse00137

K wxDivisionShape SetHandleSide

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdivisionshape')")

K SetHandleSide

\$#+K! **wxDivisionShape::SetLeftSide**

**void SetLeftSide(wxDivisionShape \**shape*)**<sup>K</sup>

Set the pointer to the division on the left side of this division.

---

wxDivisionShape::SetLeftSide  
topic95  
browse00138  
K wxDivisionShape SetLeftSide  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K SetLeftSide

`$#+K!wxDivisionShape::SetLeftSideColour`

`void SetLeftSideColour(const wxString& colour)K`

Sets the colour for drawing the left side of the division.

---

`wxDivisionShape::SetLeftSideColour`  
`topic96`  
`browse00139`  
`K wxDivisionShape SetLeftSideColour`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")`  
`K SetLeftSideColour`

`$#+K!` **wxDivisionShape::SetLeftSidePen**

**void SetLeftSidePen**(wxPen \*pen)<sup>K</sup>

Sets the pen for drawing the left side of the division.

---

`w`xDivisionShape::SetLeftSidePen

`t`opic97

`b`rowse00140

`K` wxDivisionShape SetLeftSidePen

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")

`K` SetLeftSidePen

\$#+K! **wxDivisionShape::SetRightSide**

**void SetRightSide(wxDivisionShape \**shape*)**<sup>K</sup>

Set the pointer to the division on the right side of this division.

---

<sup>w</sup>xDivisionShape::SetRightSide

<sup>t</sup>opic98

<sup>b</sup>rowse00141

<sup>K</sup> wxDivisionShape SetRightSide

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")

<sup>K</sup> SetRightSide

\$#+K! **wxDivisionShape::SetTopSide**

**void SetTopSide(wxDivisionShape \**shape*)**<sup>K</sup>

Set the pointer to the division on the top side of this division.

---

wxDivisionShape::SetTopSide  
topic99  
browse00142  
K wxDivisionShape SetTopSide  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")  
K SetTopSide

\$#+K! **wxDivisionShape::SetTopSideColour**

**void SetTopSideColour(const wxString& *colour*)**<sup>K</sup>

Sets the colour for drawing the top side of the division.

---

wxDivisionShape::SetTopSideColour  
topic100  
browse00143  
K wxDivisionShape SetTopSideColour  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxdivisionshape')")  
K SetTopSideColour

`$#+K!` **wxDivisionShape::SetTopSidePen**

**void SetTopSidePen**(wxPen \*pen)<sup>K</sup>

Sets the pen for drawing the top side of the division.

---

`w`xDivisionShape::SetTopSidePen

`t`opic101

`b`rowse00144

`K` wxDivisionShape SetTopSidePen

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxdivisionshape')")

`K` SetTopSidePen

`$#+K!` **wxEllipseShape::wxEllipseShape**

**wxEllipseShape(double *width* = 0.0, double *height* = 0.0)**<sup>K</sup>

Constructor.

---

`w`xEllipseShape::wxEllipseShape

`t`opic102

`b`rowse00146

`K` wxEllipseShape wxEllipseShape

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxellipseshape')")

`K` wxEllipseShape

**`$#+K!wxEllipseShape::~~wxEllipseShape`**

**`~wxEllipseShape()`<sup>K</sup>**

Destructor.

---

`w`xEllipseShape::~~wxEllipseShape  
`t`opic103  
`b`rowse00147  
`K` wxEllipseShape ~wxEllipseShape  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxellipseshape')")  
`K` ~wxEllipseShape

`$#+K!` **wxLineShape::wxLineShape**

**wxLineShape()**<sup>K</sup>

Constructor.

Usually you will call wxLineShape::MakeLineControlPoints to specify the number of segments in the line.

---

`w`xLineShape::wxLineShape  
`t`opic104  
`b`rowse00149  
`K` wxLineShape wxLineShape  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")  
`K` wxLineShape

`$#+K!wxLineShape::~~wxLineShape`

`~wxLineShape()`<sup>K</sup>

Destructor.

---

`wxLineShape::~~wxLineShape`  
`topic105`  
`browse00150`  
`K wxLineShape ~wxLineShape`  
`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`  
`K ~wxLineShape`

**`wxLineShape::AddArrow`**

**`void AddArrow(WXTYPE type, bool end = ARROW_POSITION_END, double arrowSize = 10.0, double xOffset = 0.0, const wxString& name = "", wxPseudoMetaFile *mf = NULL, long arrowId = -1)`**<sup>K</sup>

Adds an arrow (or annotation) to the line.

*type* may currently be one of:

**`ARROW_HOLLOW_CIRCLE`** Hollow circle.

**`ARROW_FILLED_CIRCLE`** Filled circle.

**`ARROW_ARROW`** Conventional arrowhead.

**`ARROW_SINGLE_OBLIQUE`** Single oblique stroke.

**`ARROW_DOUBLE_OBLIQUE`** Double oblique stroke.

**`ARROW_DOUBLE_METAFILE`** Custom arrowhead.

*end* may currently be one of:

**`ARROW_POSITION_END`** Arrow appears at the end.

**`ARROW_POSITION_START`** Arrow appears at the start.

*arrowSize* specifies the length of the arrow.

*xOffset* specifies the offset from the end of the line.

*name* specifies a name for the arrow.

*mf* can be a `wxPseudoMetaFile`, perhaps loaded from a simple Windows metafile.

*arrowId* is the id for the arrow.

---

<sup>w</sup>`wxLineShape::AddArrow`

<sup>w</sup>`wxlineshapeaddarrow`

<sup>b</sup>`rowse00151`

<sup>K</sup>`wxLineShape AddArrow`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`

<sup>K</sup>`AddArrow`

**`$#+K! wxLineShape::AddArrowOrdered`**

**`void AddArrowOrdered(wxArrowHead *arrow, wxList& referenceList, int end)`**<sup>K</sup>

Add an arrowhead in the position indicated by the reference list of arrowheads, which contains all legal arrowheads for this line, in the correct order. E.g.

```
Reference list:    a b c d e
Current line list: a d
```

Add c, then line list is: a c d.

If no legal arrowhead position, return FALSE. Assume reference list is for one end only, since it potentially defines the ordering for any one of the 3 positions. So we don't check the reference list for arrowhead position.

---

<sup>w</sup>xLineShape::AddArrowOrdered

<sup>t</sup>opic106

<sup>b</sup>rowse00152

<sup>K</sup> wxLineShape AddArrowOrdered

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")

<sup>K</sup> AddArrowOrdered

\$#+K! **wxLineShape::ClearArrow**

**bool ClearArrow(const wxString& *name*)**<sup>K</sup>

Delete the arrow with the given name.

---

wxLineShape::ClearArrow  
topic107  
browse00153  
K wxLineShape ClearArrow  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")  
K ClearArrow

**`wxLineShape::ClearArrowsAtPosition`**

**`void ClearArrowsAtPosition(int position = -1)`**<sup>K</sup>

Delete the arrows at the specified position, or at any position if *position* is -1.

---

<sup>w</sup>`wxLineShape::ClearArrowsAtPosition`  
<sup>t</sup>`opic108`  
<sup>b</sup>`rowse00154`  
<sup>K</sup> `wxLineShape ClearArrowsAtPosition`  
<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`  
<sup>K</sup> `ClearArrowsAtPosition`

\$#+K! **wxLineShape::DrawArrow**

**void DrawArrow**(**ArrowHead** \*arrow, **double** xOffset, **bool** proportionalOffset)<sup>K</sup>

Draws the given arrowhead (or annotation).

---

wxLineShape::DrawArrow

topic109

browse00155

K wxLineShape DrawArrow

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

K DrawArrow

`$#+K!` **wxLineShape::DeleteArrowHead**

**bool DeleteArrowHead(long *arrowId*)**<sup>K</sup>

**bool DeleteArrowHead(int *position*, const wxString& *name*)**<sup>K</sup>

Delete arrowhead by id or position and name.

---

`w`xLineShape::DeleteArrowHead

`t`opic110

`b`rowse00156

`K` wxLineShape DeleteArrowHead

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

`K` DeleteArrowHead

`K` DeleteArrowHead

**`wxLineShape::DeleteLineControlPoint`**

**`bool DeleteLineControlPoint()`**<sup>K</sup>

Deletes an arbitrary point on the line.

---

<sup>w</sup>`xLineShape::DeleteLineControlPoint`

<sup>t</sup>`opic111`

<sup>b</sup>`rowse00157`

<sup>K</sup>`wxLineShape DeleteLineControlPoint`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`

<sup>K</sup>`DeleteLineControlPoint`

\$#+K! **wxLineShape::DrawArrows**

**void DrawArrows(wxDC& *dc*)**<sup>K</sup>

Draws all arrows.

---

<sup>w</sup>xLineShape::DrawArrows

<sup>t</sup>opic112

<sup>b</sup>rowse00158

<sup>K</sup> wxLineShape DrawArrows

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

<sup>K</sup> DrawArrows

\$#+K! **wxLineShape::DrawRegion**

**void DrawRegion**(wxDC& *dc*, wxShapeRegion \**region*, double *x*, double *y*)<sup>K</sup>

Format one region at this position.

---

wxLineShape::DrawRegion

topic113

browse00159

K wxLineShape DrawRegion

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

K DrawRegion

\$#+K! **wxLineShape::EraseRegion**

**void EraseRegion(wxDC& *dc*, wxShapeRegion \**region*, double *x*, double *y*)**<sup>K</sup>

Format one region at this position.

---

wxLineShape::EraseRegion

topic114

browse00160

K wxLineShape EraseRegion

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

K EraseRegion

\$#+K! **wxLineShape::FindArrowHead**

**wxArrowHead \* FindArrowHead(long *arrowId*)**<sup>K</sup>

**wxArrowHead \* FindArrowHead(int *position*, const wxString& *name*)**<sup>K</sup>

Find arrowhead by id or position and name.

---

wxLineShape::FindArrowHead

topic115

browse00161

K wxLineShape FindArrowHead

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

K FindArrowHead

K FindArrowHead

**`wxLineShape::FindLineEndPoints`**

**`void FindLineEndPoints(double *fromX, double *fromY, double *toX, double *toY)`**<sup>K</sup>

Finds the x, y points at the two ends of the line. This function can be used by e.g. line-routing routines to get the actual points on the two node images where the lines will be drawn to/from.

---

<sup>w</sup>`wxLineShape::FindLineEndPoints`

<sup>t</sup>`opic116`

<sup>b</sup>`rowse00162`

<sup>K</sup>`wxLineShape FindLineEndPoints`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")`

<sup>K</sup>`FindLineEndPoints`

**`$#+K! wxLineShape::FindLinePosition`**

**`int FindLinePosition(double x, double y)K`**

Find which position we're talking about at this x, y. Returns  
ARROW\_POSITION\_START, ARROW\_POSITION\_MIDDLE,  
ARROW\_POSITION\_END.

---

`w`xLineShape::FindLinePosition  
`t`opic117  
`b`rowse00163  
`K` wxLineShape FindLinePosition  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")  
`K` FindLinePosition

`$#+K! wxLineShape::FindMinimumWidth`

`double FindMinimumWidth()`<sup>K</sup>

Finds the horizontal width for drawing a line with arrows in minimum space. Assume arrows at end only.

---

`wxLineShape::FindMinimumWidth`

`topic118`

`browse00164`

`K wxLineShape FindMinimumWidth`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`

`K FindMinimumWidth`

<sup>\$#+K!</sup>**wxLineShape::FindNth**

**void FindNth**(**wxShape** \**image*, **int** \**nth*, **int** \**noArcs*, **bool** *incoming*)<sup>K</sup>

Finds the position of the line on the given object. Specify whether incoming or outgoing lines are being considered with *incoming*.

---

<sup>w</sup>xLineShape::FindNth  
<sup>t</sup>opic119  
<sup>b</sup>rowse00165  
<sup>K</sup> wxLineShape FindNth  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")  
<sup>K</sup> FindNth

`$#+KKl wxLineShape::GetAttachmentFrom`

`int GetAttachmentFrom() const`

Returns the attachment point on the 'from' node.

---

`wxLineShape::GetAttachmentFrom`  
`topic120`  
`browse00166`  
`K wxLineShape GetAttachmentFrom`  
`K GetAttachmentFrom`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`

`$#+KKl wxLineShape::GetAttachmentTo`

`int GetAttachmentTo() const`

Returns the attachment point on the 'to' node.

---

`wxLineShape::GetAttachmentTo`  
`topic121`  
`rowse00167`  
`K wxLineShape GetAttachmentTo`  
`K GetAttachmentTo`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")`

\$#+K! **wxLineShape::GetEnds**

**void GetEnds(double \*x1, double \*y1, double \*x2, double \*y2)**<sup>K</sup>

Gets the visible endpoints of the lines for drawing between two objects.

---

<sup>w</sup>xLineShape::GetEnds

<sup>t</sup>opic122

<sup>b</sup>rowse00168

<sup>K</sup> wxLineShape GetEnds

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

<sup>K</sup> GetEnds

`$#+KKl wxLineShape::GetFrom`

`wxShape * GetFrom() const`

Gets the 'from' object.

---

`wxLineShape::GetFrom`

`topic123`

`browse00169`

`K wxLineShape GetFrom`

`K GetFrom`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`

**wxLineShape::GetLabelPosition**

**void GetLabelPosition(int *position*, double \**x*, double \**y*)**<sup>K</sup>

Get the reference point for a label. Region x and y are offsets from this. position is 0 (middle), 1 (start), 2 (end).

---

<sup>w</sup>xLineShape::GetLabelPosition

<sup>t</sup>opic124

<sup>b</sup>rowse00170

<sup>K</sup> wxLineShape GetLabelPosition

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")

<sup>K</sup> GetLabelPosition

\$#+K! **wxLineShape::GetNextControlPoint**

**wxPoint \* GetNextControlPoint(wxShape \*shape)**<sup>K</sup>

Find the next control point in the line after the start/end point, depending on whether the shape is at the start or end.

---

wxLineShape::GetNextControlPoint  
topic125  
browse00171  
K wxLineShape GetNextControlPoint  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")  
K GetNextControlPoint

**`$#+K! wxLineShape::GetTo`**

**`wxShape * GetTo()`**<sup>K</sup>

Gets the 'to' object.

---

<sup>w</sup>xLineShape::GetTo  
<sup>t</sup>opic126  
<sup>b</sup>rowse00172  
<sup>K</sup> wxLineShape GetTo  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")  
<sup>K</sup> GetTo

`$#+K!` **wxLineShape::Initialise**

**void Initialise()**<sup>K</sup>

Initialises the line object.

---

<sup>w</sup>xLineShape::Initialise

<sup>t</sup>opic127

<sup>b</sup>rowse00173

<sup>K</sup> wxLineShape Initialise

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

<sup>K</sup> Initialise

**`wxLineShape::InsertLineControlPoint`**

**`void InsertLineControlPoint()`**<sup>K</sup>

Inserts a control point at an arbitrary position.

---

<sup>w</sup>xLineShape::InsertLineControlPoint  
<sup>t</sup>opic128  
<sup>b</sup>rowse00174  
<sup>K</sup> wxLineShape InsertLineControlPoint  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")  
<sup>K</sup> InsertLineControlPoint

`$#+K!` **wxLineShape::IsEnd**

**bool IsEnd(wxShape \**shape*)**<sup>K</sup>

Returns TRUE if *shape* is at the end of the line.

---

<sup>w</sup>xLineShape::IsEnd

<sup>t</sup>opic129

<sup>b</sup>rowse00175

<sup>K</sup> wxLineShape IsEnd

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

<sup>K</sup> IsEnd

\$#+K! **wxLineShape::IsSpline**

**bool IsSpline()**<sup>K</sup>

Returns TRUE if a spline is drawn through the control points, and FALSE otherwise.

---

wxLineShape::IsSpline  
topic130  
browse00176  
K wxLineShape IsSpline  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")  
K IsSpline

`$#+K!` **wxLineShape::MakeLineControlPoints**

**void MakeLineControlPoints(int *n*)**<sup>K</sup>

Make a given number of control points (minimum of two).

---

<sup>w</sup>xLineShape::MakeLineControlPoints  
<sup>w</sup>xlineshapemakelinecontrolpoints  
<sup>b</sup>rowse00177  
<sup>K</sup> wxLineShape MakeLineControlPoints  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")  
<sup>K</sup> MakeLineControlPoints

\$#+K! **wxLineShape::OnMoveLink**

**void OnMoveLink**(**wxDC&** *dc*, **bool** *moveControlPoints = TRUE*)<sup>K</sup>

Called when a connected object has moved, to move the link to correct position.

---

wxLineShape::OnMoveLink  
topic131  
browse00178  
K wxLineShape OnMoveLink  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")  
K OnMoveLink

`$#+K!` **wxLineShape::SetAttachmentFrom**

**void SetAttachmentTo**(int *fromAttach*)<sup>K</sup>

Sets the 'from' shape attachment.

---

<sup>w</sup>xLineShape::SetAttachmentFrom  
<sup>t</sup>opic132  
<sup>b</sup>rowse00179  
<sup>K</sup> wxLineShape SetAttachmentFrom  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")  
<sup>K</sup> SetAttachmentTo

\$#+K! **wxLineShape::SetAttachments**

**void SetAttachments**(**int** *fromAttach*, **int** *toAttach*)<sup>K</sup>

Specifies which object attachment points should be used at each end of the line.

---

<sup>w</sup>xLineShape::SetAttachments

<sup>t</sup>opic133

<sup>b</sup>rowse00180

<sup>K</sup> wxLineShape SetAttachments

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

<sup>K</sup> SetAttachments

`$#+K!wxLineShape::SetAttachmentTo`

`void SetAttachmentTo(int toAttach)K`

Sets the 'to' shape attachment.

---

`wxLineShape::SetAttachmentTo`  
`topic134`  
`browse00181`  
`K wxLineShape SetAttachmentTo`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`  
`K SetAttachmentTo`

<sup>\$#+K!</sup>**wxLineShape::SetEnds**

**void SetEnds(double *x1*, double *y1*, double *x2*, double *y2*)**<sup>K</sup>

Sets the end positions of the line.

---

<sup>w</sup>xLineShape::SetEnds  
<sup>t</sup>opic135  
<sup>b</sup>rowse00182  
<sup>K</sup> wxLineShape SetEnds  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")  
<sup>K</sup> SetEnds

\$#+K! **wxLineShape::SetFrom**

**void SetFrom(wxShape \*object)**<sup>K</sup>

Sets the 'from' object for the line.

---

<sup>w</sup>xLineShape::SetFrom

<sup>t</sup>opic136

<sup>b</sup>rowse00183

<sup>K</sup> wxLineShape SetFrom

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

<sup>K</sup> SetFrom

**`wxLineShape::SetIgnoreOffsets`**

**`void SetIgnoreOffsets(bool ignore)`**<sup>K</sup>

Tells the shape whether to ignore offsets from the end of the line when drawing.

---

<sup>w</sup>`wxLineShape::SetIgnoreOffsets`

<sup>t</sup>`opic137`

<sup>b</sup>`rowse00184`

<sup>K</sup>`wxLineShape SetIgnoreOffsets`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`

<sup>K</sup>`SetIgnoreOffsets`

\$#+K! **wxLineShape::SetSpline**

**void SetSpline**(**bool** *spline*)<sup>K</sup>

Specifies whether a spline is to be drawn through the control points (TRUE), or a line (FALSE).

---

wxLineShape::SetSpline  
topic138  
browse00185  
K wxLineShape SetSpline  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")  
K SetSpline

\$#+K! **wxLineShape::SetTo**

**void SetTo(wxShape \*object)**<sup>K</sup>

Sets the 'to' object for the line.

---

<sup>w</sup>xLineShape::SetTo

<sup>t</sup>opic139

<sup>b</sup>rowse00186

<sup>K</sup> wxLineShape SetTo

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxlineshape')")

<sup>K</sup> SetTo

`$#+K!wxLineShape::Straighten`

`void Straighten(wxDC* dc = NULL)K`

Straighten verticals and horizontals. *dc* is optional.

---

`wxLineShape::Straighten`

`topic140`

`browse00187`

`K wxLineShape Straighten`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`

`K Straighten`

`$#+K!wxLineShape::Unlink`

`void Unlink()`<sup>K</sup>

Unlinks the line from the nodes at either end.

---

`wxLineShape::Unlink`  
`topic141`  
`browse00188`  
`K wxLineShape Unlink`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxlineshape')")`  
`K Unlink`

**wxPolygonShape::wxPolygonShape**

**wxPolygonShape**(void)<sup>K</sup>

Constructor. Call [wxPolygonShape::Create](#) to specify the polygon's vertices.

---

wxPolygonShape::wxPolygonShape  
topic142  
browse00190  
K wxPolygonShape wxPolygonShape  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxpolygonshape')")  
K wxPolygonShape

**`$#+K!wxPolygonShape::~~wxPolygonShape`**

**`~wxPolygonShape()`<sup>K</sup>**

Destructor.

---

**`wxPolygonShape::~~wxPolygonShape`**

**`topic143`**

**`browse00191`**

**`K wxPolygonShape ~wxPolygonShape`**

**`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxpolygonshape')")`**

**`K ~wxPolygonShape`**

**`wxPolygonShape::Create`**

**`void Create(wxList* points)`**<sup>K</sup>

Takes a list of `wxRealPoints`; each point is an *offset* from the centre. The polygon's destructor will delete these points, so do not delete them yourself.

---

<sup>w</sup>`xPolygonShape::Create`  
<sup>w</sup>`xpolygonshapecreate`  
<sup>b</sup>`rowse00192`  
<sup>K</sup> `wxPolygonShape Create`  
<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxpolygonshape')")`  
<sup>K</sup> `Create`

`$#+K!` **wxPolygonShape::AddPolygonPoint**

**void AddPolygonPoint(int pos = 0)**<sup>K</sup>

Add a control point after the given point.

---

<sup>w</sup>xPolygonShape::AddPolygonPoint  
<sup>t</sup>opic144  
<sup>b</sup>rowse00193  
<sup>K</sup> wxPolygonShape AddPolygonPoint  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxpolygonshape')")  
<sup>K</sup> AddPolygonPoint

**wxPolygonShape::CalculatePolygonCentre**

**void CalculatePolygonCentre()**

Recalculates the centre of the polygon.

---

**wxPolygonShape::CalculatePolygonCentre**

topic145

browse00194

**wxPolygonShape CalculatePolygonCentre**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxpolygonshape')")**

**CalculatePolygonCentre**

**wxPolygonShape::DeletePolygonPoint**

**void DeletePolygonPoint(int pos = 0)**

Deletes a control point.

---

wxPolygonShape::DeletePolygonPoint

topic146

browse00195

wxPolygonShape DeletePolygonPoint

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxpolygonshape')")

DeletePolygonPoint

**wxPolygonShape::GetPoints**

**wxList \* GetPoints()**

Returns a pointer to the internal list of polygon vertices (wxRealPoints).

---

**wxPolygonShape::GetPoints**

**topic147**

**browse00196**

**wxPolygonShape GetPoints**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxpolygonshape')")**

**GetPoints**

`wxPolygonShape::UpdateOriginalPoints`

`void UpdateOriginalPoints()`

If we've changed the shape, must make the original points match the working points with this function.

---

`wxPolygonShape::UpdateOriginalPoints`

`topic148`

`browse00197`

`wxPolygonShape UpdateOriginalPoints`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxpolygonshape')")`

`UpdateOriginalPoints`

**`wxRectangleShape::wxRectangleShape`**

**`wxRectangleShape(double width = 0.0, double height = 0.0)`**<sup>K</sup>

Constructor.

---

<sup>w</sup>`wxRectangleShape::wxRectangleShape`

<sup>t</sup>`opic149`

<sup>b</sup>`rowse00199`

<sup>K</sup>`wxRectangleShape wxRectangleShape`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxrectangleshape')")`

<sup>K</sup>`wxRectangleShape`

**`$#+K!wxRectangleShape::~~wxRectangleShape`**

**`~wxRectangleShape()`**<sup>K</sup>

Destructor.

---

<sup>w</sup>xRectangleShape::~~wxRectangleShape

<sup>t</sup>opic150

<sup>b</sup>rowse00200

<sup>K</sup> wxRectangleShape ~wxRectangleShape

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxrectangleshape')")

<sup>K</sup> ~wxRectangleShape

`$#+K!` **wxRectangleShape::SetCornerRadius**

**void SetCornerRadius(double *radius*)**<sup>K</sup>

Sets the radius of the rectangle's rounded corners. If the radius is zero, a non-rounded rectangle will be drawn. If the radius is negative, the value is the proportion of the smaller dimension of the rectangle.

---

<sup>w</sup>xRectangleShape::SetCornerRadius  
<sup>t</sup>opic151  
<sup>b</sup>rowse00201  
<sup>K</sup> wxRectangleShape SetCornerRadius  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxrectangleshape')")  
<sup>K</sup> SetCornerRadius

\$#+K! **wxShape::wxShape**

**wxShape(wxShapeCanvas\* *canvas* = *NULL*)**<sup>K</sup>

Constructs a new wxShape.

---

wxShape::wxShape

topic152

browse00204

K wxShape wxShape

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

K wxShape

`$#+K!wxShape::~~wxShape`

`~wxShape()`<sup>K</sup>

Destructor.

---

`wxShape::~~wxShape`  
`topic153`  
`browse00205`  
`K wxShape ~wxShape`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`  
`K ~wxShape`

\$#+K! **wxShape::AddLine**

**void AddLine**(**wxLineShape\*** *line*, **wxShape\*** *other*, **int** *attachFrom* = 0, **int** *attachTo* = 0, **int** *positionFrom* = -1, **int** *positionTo* = -1)K

Adds a line between the specified canvas shapes, at the specified attachment points.

The position in the list of lines at each end can also be specified, so that the line will be drawn at a particular point on its attachment point.

---

wxShape::AddLine

topic154

browse00206

K wxShape AddLine

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

K AddLine

\$#+K! **wxShape::AddRegion**

**void AddRegion**(wxShapeRegion\* *region*)<sup>K</sup>

Adds a region to the shape.

---

wxShape::AddRegion

topic155

browse00207

K wxShape AddRegion

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

K AddRegion

\$#+K! **wxShape::AddText**

**void AddText(const wxString& *string*)**<sup>K</sup>

Adds a line of text to the shape's default text region.

---

wxShape::AddText

topic156

browse00208

K wxShape AddText

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

K AddText

**`wxShape::AddToCanvas`**

**`void AddToCanvas(wxShapeCanvas* theCanvas, wxShape* addAfter=NULL)`**<sup>K</sup>

Adds the shape to the canvas's shape list. If *addAfter* is non-NULL, will add the shape after this one.

---

`wxShape::AddToCanvas`

`topic157`

`browse00209`

`wxShape AddToCanvas`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`AddToCanvas`

`$#+KKl` **wxShape::AncestorSelected**

**bool AncestorSelected() const**

TRUE if the shape's ancestor is currently selected.

---

`w`xShape::AncestorSelected

`t`opic158

`b`rowse00210

`K` wxShape AncestorSelected

`K` AncestorSelected

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

\$#+K! **wxShape::ApplyAttachmentOrdering**

**void ApplyAttachmentOrdering(wxList& *linesToSort*)**<sup>K</sup>

Applies the line ordering in *linesToSort* to the shape, to reorder the way lines are attached.

---

wxShape::ApplyAttachmentOrdering  
wxshapeapplyattachmentordering  
browse00211  
K wxShape ApplyAttachmentOrdering  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K ApplyAttachmentOrdering

**`$#+K!wxShape::AssignNewIds`**

**`void AssignNewIds()`**<sup>K</sup>

Assigns new ids to this image and its children.

---

<sup>w</sup>xShape::AssignNewIds  
<sup>t</sup>opic159  
<sup>b</sup>rowse00212  
<sup>K</sup> wxShape AssignNewIds  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
<sup>K</sup> AssignNewIds

\$#+K! **wxShape::Attach**

**void Attach(wxShapeCanvas\* *can*)**<sup>K</sup>

Sets the shape's internal canvas pointer to point to the given canvas.

---

<sup>w</sup>xShape::Attach

<sup>w</sup>xshapeattach

<sup>b</sup>rowse00213

<sup>K</sup> wxShape Attach

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> Attach

`wxShape::AttachmentIsValid`

`bool AttachmentIsValid(int attachment) const`

Returns TRUE if *attachment* is a valid attachment point.

---

`wxShape::AttachmentIsValid`

`wxshapeattachmentisvalid`

`rowse00214`

`wxShape AttachmentIsValid`

`AttachmentIsValid`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`$#+KKl wxShape::AttachmentSortTest`

**bool AttachmentSortTest(int *attachment*, const wxRealPoint& *pt1*, const wxRealPoint& *pt2*) const**

Returns TRUE if *pt1* is less than or equal to *pt2*, in the sense that one point comes before another on an edge of the shape. *attachment* is the attachment point (side) in question.

This function is used in wxShape::MoveLineToNewAttachment to determine the new line ordering.

---

```
w_xShape::AttachmentSortTest
w_xshapeattachmentsorttest
b_rowse00215
K wxShape AttachmentSortTest
K AttachmentSortTest
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")
```

\$#+K! **wxShape::CalcSimpleAttachment**

**wxRealPoint CalcSimpleAttachment(const wxRealPoint& pt1, const wxRealPoint& pt2, int nth, int noArcs, wxLineShape\* line)<sup>K</sup>**

Assuming the attachment lies along a vertical or horizontal line, calculates the position on that point.

### Parameters

*pt1*

The first point of the line representing the edge of the shape.

*pt2*

The second point of the line representing the edge of the shape.

*nth*

The position on the edge (for example there may be 6 lines at this attachment point, and this may be the 2nd line).

*noArcs*

The number of lines at this edge.

*line*

The line shape.

### Remarks

This function expects the line to be either vertical or horizontal, and determines which.

---

<sup>w</sup>xShape::CalcSimpleAttachment

<sup>w</sup>xshapecalcsimpleattachment

<sup>b</sup>rowse00216

<sup>K</sup> wxShape CalcSimpleAttachment

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> CalcSimpleAttachment

**wxShape::CalculateSize**

**void CalculateSize()**<sup>K</sup>

Called to calculate the shape's size if dependent on children sizes.

---

<sup>w</sup>xShape::CalculateSize  
<sup>t</sup>opic160  
<sup>b</sup>rowse00217  
<sup>K</sup> wxShape CalculateSize  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
<sup>K</sup> CalculateSize

**wxShape::ClearAttachments**

**void ClearAttachments()**<sup>K</sup>

Clears internal custom attachment point shapes (of class wxAttachmentPoint).

---

<sup>w</sup>xShape::ClearAttachments

<sup>t</sup>opic161

<sup>b</sup>rowse00218

<sup>K</sup> wxShape ClearAttachments

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> ClearAttachments

\$#+K! **wxShape::ClearRegions**

**void ClearRegions()**<sup>K</sup>

Clears the wxShapeRegions from the shape.

---

wxShape::ClearRegions

topic162

browse00219

K wxShape ClearRegions

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K ClearRegions

\$#+K! **wxShape::ClearText**

**void ClearText**(int *regionId* = 0)<sup>K</sup>

Clears the text from the specified text region.

---

<sup>w</sup>xShape::ClearText

<sup>t</sup>opic163

<sup>b</sup>rowse00220

<sup>K</sup> wxShape ClearText

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> ClearText

`$#+K!` **wxShape::Constrain**

**bool Constrain()**<sup>K</sup>

Calculates the shape's constraints (if any). Applicable only to wxCompositeShape, does nothing if the shape is of a different class.

---

`w`xShape::Constrain  
`t`opic164  
`b`rowse00221  
`K` wxShape Constrain  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
`K` Constrain

\$#+K! **wxShape::Copy**

**void Copy(wxShape& copy)**<sup>K</sup>

Copy this shape into *copy*. Every derived class must have one of these, and each Copy implementation must call the derived class's implementation to ensure everything is copied. See also [wxShape::CreateNewCopy](#).

---

wxShape::Copy  
wxshapecopy  
browse00222  
K wxShape Copy  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K Copy

## <sup>S#+K!</sup>**wxShape::CreateNewCopy**

**wxShape\*** **CreateNewCopy**(**bool** *resetMapping* = *TRUE*, **bool** *recompute* = *TRUE*)<sup>K</sup>

Creates and returns a new copy of this shape (calling wxShape::Copy). Do not override this function.

This function should always be used to create a new copy, since it must do special processing for copying constraints associated with constraints.

If *resetMapping* is *TRUE*, a mapping table used for complex shapes is reset; this may not be desirable if the shape being copied is a child of a composite (and so the mapping table is in use).

If *recompute* is *TRUE*, wxShape::Recompute is called for the new shape.

### **Remarks**

This function uses the wxWindows dynamic object creation system to create a new shape of the same type as 'this', before calling Copy.

If the event handler for this shape is not the same as the shape itself, the event handler is also copied using wxShapeEvtHandler::CreateNewCopy.

---

<sup>w</sup>xShape::CreateNewCopy

<sup>w</sup>xshapecreatenewcopy

<sup>b</sup>rowse00223

<sup>K</sup> wxShape CreateNewCopy

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> CreateNewCopy

\$#+K! **wxShape::DeleteControlPoints**

**void DeleteControlPoints()**<sup>K</sup>

Deletes the control points (or handles) for the shape. Does not redraw the shape.

---

wxShape::DeleteControlPoints

topic165

browse00224

K wxShape DeleteControlPoints

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K DeleteControlPoints

**wxShape::Detach**

**void Detach()**

Disassociates the shape from its canvas by setting the internal shape canvas pointer to NULL.

---

**wxShape::Detach**

**topic166**

**browse00225**

**wxShape Detach**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")**

**Detach**

\$#+K! **wxShape::Draggable**

**bool Draggable()**<sup>K</sup>

TRUE if the shape may be dragged by the user.

---

wxShape::Draggable  
topic167  
browse00226  
K wxShape Draggable  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K Draggable

**wxShape::Draw**

**void Draw(wxDC& dc)**

Draws the whole shape and any lines attached to it.

Do not override this function: override OnDraw, which is called by this function.

---

wxShape::Draw

topic168

browse00227

wxShape Draw

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

Draw

\$#+K! **wxShape::DrawContents**

**void DrawContents(wxDC& dc)**<sup>K</sup>

Draws the internal graphic of the shape (such as text).

Do not override this function: override OnDrawContents, which is called by this function.

---

wxShape::DrawContents

topic169

browse00228

K wxShape DrawContents

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

K DrawContents

\$#+K! **wxShape::DrawLinks**

**void DrawLinks(wxDC& *dc*, int *attachment* = -1)**<sup>K</sup>

Draws any lines linked to this shape.

---

<sup>w</sup>xShape::DrawLinks

<sup>t</sup>opic170

<sup>b</sup>rowse00229

<sup>K</sup> wxShape DrawLinks

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> DrawLinks

**wxShape::Erase**

**void Erase(wxDC& dc)**

Erases the shape, but does not repair damage caused to other shapes.

---

**wxShape::Erase**

topic171

browse00230

**wxShape Erase**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")**

**Erase**

**wxShape::EraseContents**

**void EraseContents(wxDC& dc)**

Erases the shape contents, that is, the area within the shape's minimum bounding box.

---

wxShape::EraseContents

topic172

browse00231

wxShape EraseContents

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

EraseContents

\$#+K! **wxShape::EraseLinks**

**void EraseLinks(wxDC& *dc*, int *attachment* = -1)**<sup>K</sup>

Erases links attached to this shape, but does not repair damage caused to other shapes.

---

wxShape::EraseLinks

topic173

browse00232

K wxShape EraseLinks

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

K EraseLinks

\$#+K! **wxShape::FindRegion**

**wxShape \* FindRegion(const wxString& *regionName*, int \**regionId*)**<sup>K</sup>

Finds the actual image ('this' if non-composite) and region id for the given region name.

---

<sup>w</sup>xShape::FindRegion

<sup>t</sup>opic174

<sup>b</sup>rowse00233

<sup>K</sup> wxShape FindRegion

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> FindRegion

\$#+K! **wxShape::FindRegionNames**

**void FindRegionNames(wxStringList& *list*)**<sup>K</sup>

Finds all region names for this image (composite or simple). Supply an empty string list.

---

wxShape::FindRegionNames

topic175

browse00234

K wxShape FindRegionNames

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

K FindRegionNames

**wxShape::Flash**

**void Flash()**

Flashes the shape.

---

**wxShape::Flash**

**topic176**

**browse00235**

**wxShape Flash**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")**

**Flash**

`$#+K!`**wxShape::FormatText**

**void FormatText(const wxString& s, int *i* = 0)**<sup>K</sup>

Reformats the given text region; defaults to formatting the default region.

---

<sup>w</sup>xShape::FormatText

<sup>t</sup>opic177

<sup>b</sup>rowse00236

<sup>K</sup> wxShape FormatText

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> FormatText

`$#+KKl` **wxShape::GetAttachmentMode**

**bool GetAttachmentMode() const**

Returns the attachment mode, which is TRUE if attachments are used, FALSE otherwise (in which case lines will be drawn as if to the centre of the shape). See [wxShape::SetAttachmentMode](#).

---

`w`xShape::GetAttachmentMode  
`t`opic178  
`b`rowse00237  
`K` wxShape GetAttachmentMode  
`K` GetAttachmentMode  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

\$#+K! **wxShape::GetAttachmentPosition**

**bool GetAttachmentPosition**(int *attachment*, double\* *x*, double\* *y*, int *nth* = 0, int *noArcs* = 1, wxLineShape\* *line* = NULL)<sup>K</sup>

Gets the position at which the given attachment point should be drawn.

If *attachment* isn't found among the attachment points of the shape, returns FALSE.

---

wxShape::GetAttachmentPosition

wxshapegetattachmentposition

browse00238

K wxShape GetAttachmentPosition

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K GetAttachmentPosition

\$#+K! **wxShape::GetBoundingBoxMax**

**void GetBoundingBoxMax(double \*width, double \*height)**<sup>K</sup>

Gets the maximum bounding box for the shape, taking into account external features such as shadows.

---

wxShape::GetBoundingBoxMax

topic179

browse00239

K wxShape GetBoundingBoxMax

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K GetBoundingBoxMax

\$#+K! **wxShape::GetBoundingBoxMin**

**void GetBoundingBoxMin(double \*width, double \*height)**<sup>K</sup>

Gets the minimum bounding box for the shape, that defines the area available for drawing the contents (such as text).

---

wxShape::GetBoundingBoxMin

topic180

browse00240

K wxShape GetBoundingBoxMin

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

K GetBoundingBoxMin

`$#+KKl wxShape::GetBrush`

`wxBrush* GetBrush() const`

Returns the brush used for filling the shape.

---

`wxShape::GetBrush`

`topic181`

`browse00241`

`K wxShape GetBrush`

`K GetBrush`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`$#+KKl wxShape::GetCanvas`

`wxShapeCanvas* GetCanvas() const`

Gets the internal canvas pointer.

---

`wxShape::GetCanvas`

`topic182`

`browse00242`

`K wxShape GetCanvas`

`K GetCanvas`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

`wxShape::GetCentreResize`

`bool GetCentreResize() const`

Returns TRUE if the shape is to be resized from the centre (the centre stands still), or FALSE if from the corner or side being dragged (the other corner or side stands still).

---

`wxShape::GetCentreResize`  
`topic183`  
`browse00243`  
`wxShape GetCentreResize`  
`GetCentreResize`  
`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`$#+KKl wxShape::GetChildren`

`wxList& GetChildren() const`

Returns a reference to the list of children for this shape.

---

`wxShape::GetChildren`  
`topic184`  
`browse00244`  
`K wxShape GetChildren`  
`K GetChildren`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

**wxShape::GetClientData**

**wxObject\* GetClientData()**<sup>K</sup>

Gets the client data associated with the shape (NULL if there is none).

---

<sup>w</sup>xShape::GetClientData

<sup>t</sup>opic185

<sup>b</sup>rowse00245

<sup>K</sup> wxShape GetClientData

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> GetClientData

`$#+KKl wxShape::GetDisableLabel`

`bool GetDisableLabel() const`

Returns TRUE if the default region will not be shown, FALSE otherwise.

---

`wxShape::GetDisableLabel`

`topic186`

`browse00246`

`K wxShape GetDisableLabel`

`K GetDisableLabel`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

`$#+KKl wxShape::GetEventHandler`

`wxShapeEvtHandler* GetEventHandler() const`

Returns the event handler for this shape.

---

`wxShape::GetEventHandler`

`topic187`

`browse00247`

`K wxShape GetEventHandler`

`K GetEventHandler`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`wxShape::GetFixedHeight`

`bool GetFixedHeight() const`

Returns TRUE if the shape cannot be resized in the vertical plane.

---

`wxShape::GetFixedHeight`

`topic188`

`browse00248`

`wxShape GetFixedHeight`

`GetFixedHeight`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

\$#+K! **wxShape::GetFixedSize**

**void GetFixedSize**(**bool** \* *x*, **bool** \* *y*)<sup>K</sup>

Returns flags indicating whether the shape is of fixed size in either direction.

---

<sup>w</sup>xShape::GetFixedSize

<sup>t</sup>opic189

<sup>b</sup>rowse00249

<sup>K</sup> wxShape GetFixedSize

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> GetFixedSize

`wxShape::GetFixedWidth`

`bool GetFixedWidth() const`

Returns TRUE if the shape cannot be resized in the horizontal plane.

---

`wxShape::GetFixedWidth`

`topic190`

`browse00250`

`wxShape GetFixedWidth`

`GetFixedWidth`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

\$#+KK!**wxShape::GetFont**

**wxFont\* GetFont(int *regionId* = 0) const**

Gets the font for the specified text region.

---

wxShape::GetFont

topic191

browse00251

K wxShape GetFont

K GetFont

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

`$#+KKl` **wxShape::GetFunctor**

**wxString GetFunctor() const**

Gets a string representing the type of the shape, to be used when writing out shape descriptions to a file. This is overridden by each derived shape class to provide an appropriate type string. By default, "node\_image" is used for non-line shapes, and "arc\_image" for lines.

---

`w`xShape::GetFunctor  
`t`opic192  
`b`rowse00252  
`K` wxShape GetFunctor  
`K` GetFunctor  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

`$#+KKl wxShape::GetId`

`long GetId() const`

Returns the integer identifier for this shape.

---

`w_xShape::GetId`

`topic193`

`rowse00253`

`K wxShape GetId`

`K GetId`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

\$#+K! **wxShape::GetLinePosition**

**int GetLinePosition(wxLineShape\* *line*)**<sup>K</sup>

Gets the zero-based position of *line* in the list of lines for this shape.

---

<sup>w</sup>xShape::GetLinePosition

<sup>w</sup>xshapegetlineposition

<sup>b</sup>rowse00254

<sup>K</sup> wxShape GetLinePosition

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> GetLinePosition

`wxShape::GetLines`

`wxList& GetLines() const`

Returns a reference to the list of lines connected to this shape.

---

`wxShape::GetLines`

`topic194`

`rowse00255`

`wxShape GetLines`

`GetLines`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`$#+KKl` **wxShape::GetMaintainAspectRatio**

**bool GetMaintainAspectRatio() const**

If returns TRUE, resizing the shape will not change the aspect ratio (width and height will be in the original proportion).

---

`w`xShape::GetMaintainAspectRatio  
`w`xshapegetmaintainaspectratio  
`b`rowse00256  
`K` wxShape GetMaintainAspectRatio  
`K` GetMaintainAspectRatio  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

`$#+KKl wxShape::GetNumberOfAttachments`

`int GetNumberOfAttachments() const`

Gets the number of attachment points for this shape.

---

`w_xShape::GetNumbers  
w_xshapegetnumberofattachments  
b_rowse00257  
K wxShape GetNumberOfAttachments  
K GetNumberOfAttachments  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

`$#+KKl wxShape::GetNumberOfTextRegions`

`int GetNumberOfTextRegions() const`

Gets the number of text regions for this shape.

---

`w`xShape::GetNumberOfTextRegions  
`t`opic195  
`b`rowse00258  
`K` wxShape GetNumberOfTextRegions  
`K` GetNumberOfTextRegions  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

`$#+KKl wxShape::GetParent`

`wxShape * GetParent() const`

Returns the parent of this shape, if it is part of a composite.

---

`wxShape::GetParent`

`topic196`

`browse00259`

`K wxShape GetParent`

`K GetParent`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`$#+KKl wxShape::GetPen`

`wxPen* GetPen() const`

Returns the pen used for drawing the shape's outline.

---

`wxShape::GetPen`

`topic197`

`browse00260`

`K wxShape GetPen`

`K GetPen`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

`$#+K!` **wxShape::GetPerimeterPoint**

**bool GetPerimeterPoint(double x1, double y1, double x2, double y2, double \*x3, double \*y3)**<sup>K</sup>

Gets the point at which the line from (x1, y1) to (x2, y2) hits the shape. Returns TRUE if the line hits the perimeter.

---

`w`xShape::GetPerimeterPoint

`t`opic198

`b`rowse00261

`K` wxShape GetPerimeterPoint

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

`K` GetPerimeterPoint

\$#+K! **wxShape::GetRegionId**

**int GetRegionId(const wxString& name)<sup>K</sup>**

Gets the region's identifier by name. This is *not* unique for within an entire composite, but is unique for the image.

---

wxShape::GetRegionId  
getregionid  
browse00262  
K wxShape GetRegionId  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K GetRegionId

\$#+K! **wxShape::GetRegionName**

**wxString GetRegionName**(int *regionId* = 0)<sup>K</sup>

Gets the region's name. A region's name can be used to uniquely determine a region within an entire composite image hierarchy. See also [wxShape::SetRegionName](#).

---

wxShape::GetRegionName  
getregionname  
browse00263  
K wxShape GetRegionName  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K GetRegionName

**`wxShape::GetRegions`**

**`wxList< wxShapeRegions >`**

Returns the list of `wxShapeRegions`.

---

`wxShape::GetRegions`  
`getregions`  
`browse00264`  
`wxShape GetRegions`  
`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`  
`GetRegions`

`wxShape::GetRotation`

`double GetRotation() const`

Returns the angle of rotation in radians.

---

`wxShape::GetRotation`

`topic199`

`browse00265`

`wxShape GetRotation`

`GetRotation`

`enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

**wxShape::GetSensitivityFilter**

**void GetSensitivityFilter() const**

Returns the sensitivity filter, a bitlist of values. See [wxShape::SetSensitivityFilter](#).

---

wxShape::GetSensitivityFilter

topic200

browse00266

K wxShape GetSensitivityFilter

K GetSensitivityFilter

E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

**wxShape::GetShadowMode**

**int SetShadowMode() const**

Returns the shadow mode. See [wxShape::SetShadowMode](#).

---

wxShape::GetShadowMode  
topic201  
browse00267  
K wxShape GetShadowMode  
K SetShadowMode  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

`$#+KKl` **wxShape::GetSpaceAttachments**

**bool GetSpaceAttachments() const**

Indicates whether lines should be spaced out evenly at the point they touch the node (TRUE), or whether they should join at a single point (FALSE).

---

`w`xShape::GetSpaceAttachments

`t`opic202

`b`rowse00268

`K` wxShape GetSpaceAttachments

`K` GetSpaceAttachments

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

`$#+KKl` **wxShape::GetTextColour**

**wxString GetTextColour**(int *regionId* = 0) **const**

Gets the colour for the specified text region.

---

`w`xShape::GetTextColour

`t`opic203

`b`rowse00269

`K` wxShape GetTextColour

`K` GetTextColour

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp`, `wxshape`)"

`$#+KKl wxShape::GetTopAncestor`

`wxShape * GetTopAncestor() const`

Returns the top-most ancestor of this shape (the root of the composite).

---

`wxShape::GetTopAncestor`

`topic204`

`browse00270`

`K wxShape GetTopAncestor`

`K GetTopAncestor`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`$#+KKl wxShape::GetX`

`double GetX() const`

Gets the x position of the centre of the shape.

---

`w_xShape::GetX`

`topic205`

`browse00271`

`K wxShape GetX`

`K GetX`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`$#+KKl wxShape::GetY`

`double GetY() const`

Gets the y position of the centre of the shape.

---

`w_xShape::GetY`

`topic206`

`browse00272`

`K wxShape GetY`

`K GetY`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

\$#+K! **wxShape::HitTest**

**bool HitTest(double *x*, double *y*, int\* *attachment*, double\* *distance*)**<sup>K</sup>

Given a point on a canvas, returns TRUE if the point was on the shape, and returns the nearest attachment point and distance from the given point and target.

---

wxShape::HitTest

topic207

browse00273

K wxShape HitTest

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K HitTest

\$#+K! **wxShape::Insert**

**void InsertInCanvas(wxShapeCanvas\* *canvas*)**<sup>K</sup>

Inserts the shape at the front of the shape list of *canvas*.

---

<sup>w</sup>xShape::Insert

<sup>t</sup>opic208

<sup>b</sup>rowse00274

<sup>K</sup> wxShape Insert

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> InsertInCanvas

`$#+KKl wxShape::IsHighlighted`

`bool IsHighlighted() const`

Returns TRUE if the shape is highlighted. Shape highlighting is unimplemented.

---

`wxShape::IsHighlighted`

`topic209`

`browse00275`

`K wxShape IsHighlighted`

`K IsHighlighted`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

`$#+KKl wxShape::IsShown`

**bool IsShown() const**

Returns TRUE if the shape is in a visible state, FALSE otherwise. Note that this has nothing to do with whether the window is hidden or the shape has scrolled off the canvas; it refers to the internal visibility flag.

---

`wxShape::IsShown`  
`topic210`  
`browse00276`  
`K wxShape IsShown`  
`K IsShown`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

**wxShape::MakeControlPoints**

**void MakeControlPoints()**

Make a list of control points (draggable handles) appropriate to the shape.

---

**wxShape::MakeControlPoints**

topic211

browse00277

**wxShape MakeControlPoints**

**EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")**

**MakeControlPoints**

**`$#+K! wxShape::MakeMandatoryControlPoints`**

**`void MakeMandatoryControlPoints()`**<sup>K</sup>

Make the mandatory control points. For example, the control point on a dividing line should appear even if the divided rectangle shape's handles should not appear (because it is the child of a composite, and children are not resizable).

---

`w`xShape::MakeMandatoryControlPoints  
`t`opic212  
`b`rowse00278  
`K` wxShape MakeMandatoryControlPoints  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
`K` MakeMandatoryControlPoints

\$#+K! **wxShape::Move**

**void Move(wxDC& *dc*, double *x1*, double *y1*, bool *display* = *TRUE*)**<sup>K</sup>

Move the shape to the given position, redrawing if *display* is *TRUE*.

---

wxShape::Move

wxshapemove

browse00279

K wxShape Move

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K Move

**`wxShape::MoveLineToNewAttachment`**

**`void MoveLineToNewAttachment(wxDC& dc, wxLineShape* toMove, double x, double y)`**<sup>K</sup>

Move the given line (which must already be attached to the shape) to a different attachment point on the shape, or a different order on the same attachment.

Calls `wxShape::AttachmentSortTest` and then `wxShapeEvtHandler::OnChangeAttachment`.

---

<sup>w</sup>xShape::MoveLineToNewAttachment  
<sup>w</sup>xshapemovelinetonewattachment  
<sup>b</sup>rowse00280  
<sup>K</sup> wxShape MoveLineToNewAttachment  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
<sup>K</sup> MoveLineToNewAttachment

\$#+K! **wxShape::MoveLinks**

**void MoveLinks(wxDC& dc)**<sup>K</sup>

Redraw all the lines attached to the shape.

---

<sup>w</sup>xShape::MoveLinks

<sup>t</sup>opic213

<sup>b</sup>rowse00281

<sup>K</sup> wxShape MoveLinks

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> MoveLinks

\$#+K! **wxShape::NameRegions**

**void NameRegions(const wxString& *parentName* = "")**K

Make unique names for all the regions in a shape or composite shape.

---

wxShape::NameRegions

topic214

browse00282

K wxShape NameRegions

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K NameRegions

\$#+K! **wxShape::Rotate**

**void Rotate(double *x*, double *y*, double *theta*)**<sup>K</sup>

Rotate about the given axis by the given amount in radians (does nothing for most shapes). But even non-rotating shapes should record their notional rotation in case it's important (e.g. in dog-leg code).

---

wxShape::Rotate  
topic215  
browse00283  
K wxShape Rotate  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K Rotate

**`$#+K! wxShape::ReadConstraints`**

**`void ReadConstraints(wxExpr *clause, wxExprDatabase *database)K`**

If the shape is a composite, it may have constraints that need to be read in in a separate pass.

---

<sup>w</sup>xShape::ReadConstraints

<sup>t</sup>opic216

<sup>b</sup>rowse00284

<sup>K</sup> wxShape ReadConstraints

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> ReadConstraints

\$#+K! **wxShape::ReadAttributes**

**void ReadAttributes(wxExpr\* *clause*)**<sup>K</sup>

Reads the attributes (data member values) from the given expression.

---

<sup>w</sup>xShape::ReadAttributes

<sup>t</sup>opic217

<sup>b</sup>rowse00285

<sup>K</sup> wxShape ReadAttributes

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> ReadAttributes

**$\$#+K!$  wxShape::ReadRegions**

**void ReadRegions(wxExpr \**clause*)<sup>K</sup>**

Reads in the regions.

---

<sup>w</sup>xShape::ReadRegions

<sup>t</sup>opic218

<sup>b</sup>rowse00286

<sup>K</sup> wxShape ReadRegions

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> ReadRegions

\$#+K! **wxShape::Recentre**

**void Recentre()**<sup>K</sup>

Does recentring (or other formatting) for all the text regions for this shape.

---

<sup>w</sup>xShape::Recentre

<sup>t</sup>opic219

<sup>b</sup>rowse00287

<sup>K</sup> wxShape Recentre

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> Recentre

**`wxShape::RemoveFromCanvas`**

**`void RemoveFromCanvas(wxShapeCanvas* canvas)`**<sup>K</sup>

Removes the shape from the canvas.

---

<sup>w</sup>`wxShape::RemoveFromCanvas`

<sup>t</sup>`opic220`

<sup>b</sup>`rowse00288`

<sup>K</sup>`wxShape RemoveFromCanvas`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

<sup>K</sup>`RemoveFromCanvas`

**`$#+K! wxShape::ResetControlPoints`**

**`void ResetControlPoints()`**<sup>K</sup>

Resets the positions of the control points (for instance when the shape's shape has changed).

---

<sup>w</sup>`xShape::ResetControlPoints`

<sup>t</sup>`opic221`

<sup>b</sup>`rowse00289`

<sup>K</sup>`wxShape ResetControlPoints`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

<sup>K</sup>`ResetControlPoints`

**`wxShape::ResetMandatoryControlPoints`**

**`void ResetMandatoryControlPoints()`**<sup>K</sup>

Reset the mandatory control points. For example, the control point on a dividing line should appear even if the divided rectangle shape's handles should not appear (because it is the child of a composite, and children are not resizable).

---

<sup>w</sup>`wxShape::ResetMandatoryControlPoints`  
<sup>t</sup>`opic222`  
<sup>b</sup>`rowse00290`  
<sup>K</sup> `wxShape ResetMandatoryControlPoints`  
<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`  
<sup>K</sup> `ResetMandatoryControlPoints`

\$#+K! **wxShape::Recompute**

**bool Recompute()**<sup>K</sup>

Recomputes any constraints associated with the shape (normally applicable to wxCompositeShapes only, but harmless for other classes of shape).

---

wxShape::Recompute  
wxshaperecompute  
browse00291  
K wxShape Recompute  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K Recompute

\$#+K! **wxShape::RemoveLine**

**void RemoveLine(wxLineShape\* *line*)**<sup>K</sup>

Removes the given line from the shape's list of attached lines.

---

wxShape::RemoveLine  
topic223  
browse00292  
K wxShape RemoveLine  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")  
K RemoveLine

\$#+K! **wxShape::Select**

**void Select**(**bool** *select* = *TRUE*)<sup>K</sup>

Selects or deselects the given shape, drawing or erasing control points (handles) as necessary.

---

wxShape::Select  
wxshapeselect  
browse00293  
K wxShape Select  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K Select

`$#+KKl wxShape::Selected`

`bool Selected() const`

TRUE if the shape is currently selected.

---

`w_xShape::Selected`

`w_xshapeselected`

`browse00294`

`K wxShape Selected`

`K Selected`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

\$#+K! **wxShape::SetAttachmentMode**

**void SetAttachmentMode**(**bool** *flag*)<sup>K</sup>

Sets the attachment mode to TRUE or FALSE. If TRUE, attachment points will be significant when drawing lines to and from this shape. If FALSE, lines will be drawn as if to the centre of the shape.

---

wxShape::SetAttachmentMode  
wxshapetattachmentmode  
browse00295  
K wxShape SetAttachmentMode  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K SetAttachmentMode

`$#+K!wxShape::SetBrush`

`void SetBrush(wxBrush *brush)K`

Sets the brush for filling the shape's shape.

---

`wxShape::SetBrush`

`topic224`

`browse00296`

`K wxShape SetBrush`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`K SetBrush`

$\$#+K!$  **wxShape::SetCanvas**

**void SetCanvas(wxShapeCanvas\* *theCanvas*)**<sup>K</sup>

Identical to wxShape::Attach.

---

<sup>w</sup>xShape::SetCanvas

<sup>w</sup>xshapetocanvas

<sup>b</sup>rowse00297

<sup>K</sup> wxShape SetCanvas

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> SetCanvas

\$#+K! **wxShape::SetCentreResize**

**void SetCentreResize**(**bool** *cr*)<sup>K</sup>

Specify whether the shape is to be resized from the centre (the centre stands still) or from the corner or side being dragged (the other corner or side stands still).

---

<sup>w</sup>xShape::SetCentreResize

<sup>t</sup>opic225

<sup>b</sup>rowse00298

<sup>K</sup> wxShape SetCentreResize

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> SetCentreResize

**wxShape::SetClientData**

**void SetClientData**(wxObject \*clientData)<sup>K</sup>

Sets the client data.

---

<sup>w</sup>xShape::SetClientData

<sup>t</sup>opic226

<sup>b</sup>rowse00299

<sup>K</sup> wxShape SetClientData

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> SetClientData

**wxShape::SetDefaultRegionSize**

**void SetDefaultRegionSize()**

Set the default region to be consistent with the shape size.

---

wxShape::SetDefaultRegionSize  
setdefaultregionsize  
browse00300  
K wxShape SetDefaultRegionSize  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K SetDefaultRegionSize

`$#+K!wxShape::SetDisableLabel`

`void SetDisableLabel(bool flag)K`

Set *flag* to TRUE to stop the default region being shown, FALSE otherwise.

---

`wxShape::SetDisableLabel`

`topic227`

`browse00301`

`K wxShape SetDisableLabel`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")`

`K SetDisableLabel`

\$#+K! **wxShape::SetDraggable**

**void SetDraggable**(**bool** *drag*, **bool** *recursive* = *FALSE*)<sup>K</sup>

Sets the shape to be draggable or not draggable.

---

<sup>w</sup>xShape::SetDraggable

<sup>t</sup>opic228

<sup>b</sup>rowse00302

<sup>K</sup> wxShape SetDraggable

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> SetDraggable

\$#+K! **wxShape::SetDrawHandles**

**void SetDrawHandles**(**bool** *drawH*)<sup>K</sup>

Sets the *drawHandles* flag for this shape and all descendants. If *drawH* is TRUE (the default), any handles (control points) will be drawn. Otherwise, the handles will not be drawn.

---

wxShape::SetDrawHandles

topic229

browse00303

K wxShape SetDrawHandles

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K SetDrawHandles

**`wxShape::SetEventHandler`**

**`void GetEventHandler(wxShapeEvtHandler *handler)`**<sup>K</sup>

Sets the event handler for this shape.

---

<sup>w</sup>`xShape::SetEventHandler`

<sup>t</sup>`opic230`

<sup>b</sup>`rowse00304`

<sup>K</sup>`wxShape SetEventHandler`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

<sup>K</sup>`GetEventHandler`

\$#+K! **wxShape::SetFixedSize**

**void SetFixedSize**(bool *x*, bool *y*)<sup>K</sup>

Sets the shape to be of the given, fixed size.

---

wxShape::SetFixedSize  
topic231  
browse00305  
K wxShape SetFixedSize  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K SetFixedSize

\$#+K! **wxShape::SetFont**

**void SetFont(wxFont \*font, int regionId = 0)**<sup>K</sup>

Sets the font for the specified text region.

---

<sup>w</sup>xShape::SetFont

<sup>t</sup>opic232

<sup>b</sup>rowse00306

<sup>K</sup> wxShape SetFont

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> SetFont

<sup>\$#+K!</sup>**wxShape::SetFormatMode**

**void SetFormatMode**(int *mode*, int *regionId* = 0)<sup>K</sup>

Sets the format mode of the default text region. The argument can be a bit list of the following:

**FORMAT\_NONE** No formatting.

**FORMAT\_CENTRE\_HORIZ** Horizontal centring.

**FORMAT\_CENTRE\_VERT** Vertical centring.

---

<sup>w</sup>xShape::SetFormatMode

<sup>s</sup>etformatmode

<sup>b</sup>rowse00307

<sup>K</sup> wxShape SetFormatMode

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> SetFormatMode

\$#+K! **wxShape::SetHighlight**

**void SetHighlight**(**bool** *hi*, **bool** *recurse* = *FALSE*)<sup>K</sup>

Sets the highlight for a shape. Shape highlighting is unimplemented.

---

wxShape::SetHighlight  
topic233  
browse00308  
K wxShape SetHighlight  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K SetHighlight

\$#+K! **wxShape::SetId**

**void SetId(long *id*)**<sup>K</sup>

Set the integer identifier for this shape.

---

<sup>w</sup>xShape::SetId

<sup>t</sup>opic234

<sup>b</sup>rowse00309

<sup>K</sup> wxShape SetId

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> SetId

\$#+K! **wxShape::SetMaintainAspectRatio**

**void SetMaintainAspectRatio**(**bool** *flag*)<sup>K</sup>

If the argument is TRUE, tells the shape that resizes should not change the aspect ratio (width and height should be in the original proportion).

---

wxShape::SetMaintainAspectRatio  
wxshapetomaintainaspectratio  
browse00310  
K wxShape SetMaintainAspectRatio  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K SetMaintainAspectRatio

`$#+K!wxShape::SetPen`

`void SetPen(wxPen *pen)K`

Sets the pen for drawing the shape's outline.

---

`wxShape::SetPen`

`topic235`

`browse00311`

`K wxShape SetPen`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`K SetPen`

\$#+K! **wxShape::SetRegionName**

**void SetRegionName(const wxString& *name*, int *regionId* = 0)**<sup>K</sup>

Sets the name for this region. The name for a region is unique within the scope of the whole composite, whereas a region id is unique only for a single image.

---

WxShape::SetRegionName  
Wxshapetregionname  
browse00312  
K wxShape SetRegionName  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
K SetRegionName

\$#+K! **wxShape::SetSensitivityFilter**

**void SetSensitivityFilter**(**int** *sens=OP\_ALL*, **bool** *recursive = FALSE*)<sup>K</sup>

Sets the shape to be sensitive or insensitive to specific mouse operations.

*sens* is a bitlist of the following:

{bmc bullet.bmp} OP\_CLICK\_LEFT

{bmc bullet.bmp} OP\_CLICK\_RIGHT

{bmc bullet.bmp} OP\_DRAG\_LEFT

{bmc bullet.bmp} OP\_DRAG\_RIGHT

{bmc bullet.bmp} OP\_ALL (equivalent to a combination of all the above).

---

wxShape::SetSensitivityFilter

wxshapetsensitivityfilter

browse00313

K wxShape SetSensitivityFilter

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K SetSensitivityFilter

\$#+K! **wxShape::SetShadowMode**

**void SetShadowMode**(**int** *mode*, **bool** *redraw* = *FALSE*)<sup>K</sup>

Sets the shadow mode (whether a shadow is drawn or not). *mode* can be one of the following:

**SHADOW\_NONE** No shadow (the default).

**SHADOW\_LEFT** Shadow on the left side.

**SHADOW\_RIGHT** Shadow on the right side.

---

<sup>w</sup>xShape::SetShadowMode  
<sup>w</sup>xshap esetshadowmode  
<sup>b</sup>rowse00314  
<sup>K</sup> wxShape SetShadowMode  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
<sup>K</sup> SetShadowMode

\$#+K! **wxShape::SetSize**

**void SetSize(double *x*, double *y*, bool *recursive* = *TRUE*)**<sup>K</sup>

Sets the shape's size.

---

<sup>w</sup>xShape::SetSize

<sup>t</sup>opic236

<sup>b</sup>rowse00315

<sup>K</sup> wxShape SetSize

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> SetSize

`$#+K!` **wxShape::SetSpaceAttachments**

**void SetSpaceAttachments**(bool *sp*)<sup>K</sup>

Indicate whether lines should be spaced out evenly at the point they touch the node (TRUE), or whether they should join at a single point (FALSE).

---

<sup>w</sup>xShape::SetSpaceAttachments

<sup>t</sup>opic237

<sup>b</sup>rowse00316

<sup>K</sup> wxShape SetSpaceAttachments

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")

<sup>K</sup> SetSpaceAttachments

\$#+K! **wxShape::SetTextColour**

**void SetTextColour(const wxString& colour, int regionId = 0)**<sup>K</sup>

Sets the colour for the specified text region.

---

<sup>w</sup>xShape::SetTextColour

<sup>t</sup>opic238

<sup>b</sup>rowse00317

<sup>K</sup> wxShape SetTextColour

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> SetTextColour

`$#+K!wxShape::SetX`

`void SetX(double x)K`

Sets the x position of the shape.

---

`wxShape::SetX`

`topic239`

`browse00318`

`K wxShape SetX`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`K SetX`

`$#+K!wxShape::SetX`

`void SetY(double y)K`

Sets the *y* position of the shape.

---

`wxShape::SetX`

`topic240`

`browse00319`

`K wxShape SetX`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")`

`K SetY`

`$#+K!` **wxShape::SpaceAttachments**

**void SpaceAttachments**(**bool** *sp*)<sup>K</sup>

Sets the spacing mode: if TRUE, lines at the same attachment point will be spaced evenly across that side of the shape. If false, all lines at the same attachment point will emanate from the same point.

---

`w`xShape::SpaceAttachments  
`t`opic241  
`b`rowse00320  
`K` wxShape SpaceAttachments  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
`K` SpaceAttachments

\$#+K! **wxShape::Show**

**void Show**(**bool** *show*)<sup>K</sup>

Sets a flag indicating whether the shape should be drawn.

---

<sup>w</sup>xShape::Show

<sup>t</sup>opic242

<sup>b</sup>rowse00321

<sup>K</sup> wxShape Show

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> Show

`$#+K!` **wxShape::Unlink**

**void Unlink()**<sup>K</sup>

If the shape is a line, unlinks the nodes attached to the shape, removing itself from the list of lines for each of the 'to' and 'from' nodes.

---

`w`xShape::Unlink  
`t`opic243  
`b`rowse00322  
`K` wxShape Unlink  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshape')")  
`K` Unlink

\$#+K! **wxShape::WriteAttributes**

**void WriteAttributes(wxExpr \**clause*)**<sup>K</sup>

Writes the shape's attributes (data member values) into the given expression.

---

wxShape::WriteAttributes

topic244

browse00323

K wxShape WriteAttributes

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

K WriteAttributes

<sup>\$#+K!</sup>**wxShape::WriteRegions**

**void WriteRegions(wxExpr \**clause*)**<sup>K</sup>

Writes the regions.

---

<sup>w</sup>xShape::WriteRegions

<sup>t</sup>opic245

<sup>b</sup>rowse00324

<sup>K</sup> wxShape WriteRegions

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshape')")

<sup>K</sup> WriteRegions

`$#+K!` **wxShapeCanvas::wxShapeCanvas**

**wxShapeCanvas**(**wxWindow\*** *parent* = *NULL*, **wxWindowID** *id* = -1, **const wxPoint&** *pos* = *wxDefaultPosition*, **const wxSize&** *size* = *wxDefaultSize*, **long** *style* = *wxBORDER*)<sup>K</sup>

Constructor.

---

`w`xShapeCanvas::wxShapeCanvas

`t`opic246

`b`rowse00326

`K` wxShapeCanvas wxShapeCanvas

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")

`K` wxShapeCanvas

**wxShapeCanvas::~wxShapeCanvas**

**~wxShapeCanvas()**<sup>K</sup>

Destructor.

---

wxShapeCanvas::~wxShapeCanvas  
topic247  
browse00327  
K wxShapeCanvas ~wxShapeCanvas  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")  
K ~wxShapeCanvas

**`wxShapeCanvas::AddShape`**

**`void AddShape(wxShape *shape, wxShape *addAfter = NULL)`**<sup>K</sup>

Adds a shape to the diagram. If *addAfter* is non-NULL, the shape will be added after this one.

---

<sup>w</sup>`xShapeCanvas::AddShape`  
<sup>t</sup>`opic248`  
<sup>b</sup>`rowse00328`  
<sup>K</sup>`wxShapeCanvas AddShape`  
<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")`  
<sup>K</sup>`AddShape`

**wxShapeCanvas::FindShape**

**wxShape \* FindShape(double x1, double y, int \*attachment, wxClassInfo \*info = NULL, wxShape \*notImage = NULL)**<sup>K</sup>

Find a shape under this mouse click. Returns the shape (or NULL), and the nearest attachment point.

If *info* is non-NULL, a shape whose class which is a descendant of the desired class is found.

If *notImage* is non-NULL, shapes which are descendants of *notImage* are ignored.

---

<sup>w</sup>xShapeCanvas::FindShape

<sup>t</sup>opic249

<sup>b</sup>rowse00329

<sup>K</sup> wxShapeCanvas FindShape

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")

<sup>K</sup> FindShape

\$#+K! **wxShapeCanvas::FindFirstSensitiveShape**

**wxShape \* FindFirstSensitiveShape(double x1, double y, int \*attachment, int op)<sup>K</sup>**

Finds the first sensitive shape whose sensitivity filter matches *op*, working up the hierarchy of composites until one (or none) is found.

---

wxShapeCanvas::FindFirstSensitiveShape  
topic250  
browse00330  
K wxShapeCanvas FindFirstSensitiveShape  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")  
K FindFirstSensitiveShape

`$#+KKl wxShapeCanvas::GetDiagram`

`wxDiagram* GetDiagram() const`

Returns the canvas associated with this diagram.

---

`wxShapeCanvas::GetDiagram`

`topic251`

`browse00331`

`K wxShapeCanvas GetDiagram`

`K GetDiagram`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")`

`$#+KKl wxShapeCanvas::GetGridSpacing`

`double GetGridSpacing() const`

Returns the grid spacing.

---

`wxShapeCanvas::GetGridSpacing`

`topic252`

`browse00332`

`K wxShapeCanvas GetGridSpacing`

`K GetGridSpacing`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")`

`$#+KKl wxShapeCanvas::GetMouseTolerance`

`int GetMouseTolerance() const`

Returns the tolerance within which a mouse move is ignored.

---

`w`xShapeCanvas::GetMouseTolerance  
`t`opic253  
`b`rowse00333  
`K` wxShapeCanvas GetMouseTolerance  
`K` GetMouseTolerance  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")

`$#+KKl wxShapeCanvas::GetShapeList`

`wxList* GetShapeList() const`

Returns a pointer to the internal shape list.

---

`wxShapeCanvas::GetShapeList`  
`topic254`  
`browse00334`  
`K wxShapeCanvas GetShapeList`  
`K GetShapeList`  
`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")`

`$#+KKl` **wxShapeCanvas::GetQuickEditMode**

**bool GetQuickEditMode() const**

Returns quick edit mode for the associated diagram.

---

`w`xShapeCanvas::GetQuickEditMode  
`t`opic255  
`b`rowse00335  
`K` wxShapeCanvas GetQuickEditMode  
`K` GetQuickEditMode  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")

**wxShapeCanvas::InsertShape**

**void InsertShape(wxShape\* *shape*)**

Inserts a shape at the front of the shape list.

---

wxShapeCanvas::InsertShape  
topic256  
browse00336  
K wxShapeCanvas InsertShape  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")  
K InsertShape

\$#+K! **wxShapeCanvas::OnBeginDragLeft**

**void OnBeginDragLeft(double x, double y, int keys = 0)**<sup>K</sup>

Called when the start of a left-button drag event on the canvas background is detected by OnEvent. You may override this member; by default it does nothing.

*keys* is a bit list of the following:

{bmc bullet.bmp} KEY\_SHIFT

{bmc bullet.bmp} KEY\_CTRL

See also [wxShapeCanvas::OnDragLeft](#), [wxShapeCanvas::OnEndDragLeft](#).

---

wxShapeCanvas::OnBeginDragLeft

wxshapecanvasonbegindragleft

browse00337

K wxShapeCanvas OnBeginDragLeft

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")

K OnBeginDragLeft

**`wxShapeCanvas::OnBeginDragRight`**

**`void OnBeginDragRight(double x, double y, int keys = 0)`**<sup>K</sup>

Called when the start of a right-button drag event on the canvas background is detected by `OnEvent`. You may override this member; by default it does nothing.

*keys* is a bit list of the following:

{bmc bullet.bmp} `KEY_SHIFT`

{bmc bullet.bmp} `KEY_CTRL`

See also [`wxShapeCanvas::OnDragRight`](#), [`wxShapeCanvas::OnEndDragRight`](#).

---

<sup>w</sup>`wxShapeCanvas::OnBeginDragRight`  
<sup>w</sup>`wxshapecanvasonbegindragright`  
<sup>b</sup>`rowse00338`  
<sup>K</sup>`wxShapeCanvas OnBeginDragRight`  
<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")`  
<sup>K</sup>`OnBeginDragRight`

\$#+K! **wxShapeCanvas::OnEndDragLeft**

**void OnEndDragLeft(double x, double y, int keys = 0)**<sup>K</sup>

Called when the end of a left-button drag event on the canvas background is detected by OnEvent. You may override this member; by default it does nothing.

*keys* is a bit list of the following:

{bmc bullet.bmp} KEY\_SHIFT

{bmc bullet.bmp} KEY\_CTRL

See also [wxShapeCanvas::OnDragLeft](#), [wxShapeCanvas::OnBeginDragLeft](#).

---

wxShapeCanvas::OnEndDragLeft  
wxshapecanvasonenddragleft  
browse00339  
K wxShapeCanvas OnEndDragLeft  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")  
K OnEndDragLeft

\$#+K! **wxShapeCanvas::OnEndDragRight**

**void OnEndDragRight(double x, double y, int keys = 0)**<sup>K</sup>

Called when the end of a right-button drag event on the canvas background is detected by OnEvent. You may override this member; by default it does nothing.

*keys* is a bit list of the following:

{bmc bullet.bmp} KEY\_SHIFT

{bmc bullet.bmp} KEY\_CTRL

See also [wxShapeCanvas::OnDragRight](#), [wxShapeCanvas::OnBeginDragRight](#).

---

wxShapeCanvas::OnEndDragRight  
wxshapecanvasonenddragright  
browse00340  
K wxShapeCanvas OnEndDragRight  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")  
K OnEndDragRight

## **`wxShapeCanvas::OnDragLeft`**

**`void OnDragLeft(bool draw, double x, double y, int keys = 0)`**<sup>K</sup>

Called when a left-button drag event on the canvas background is detected by `OnEvent`. You may override this member; by default it does nothing.

*draw* is alternately `TRUE` and `FALSE`, to assist drawing and erasing.

*keys* is a bit list of the following:

{bmc bullet.bmp} `KEY_SHIFT`

{bmc bullet.bmp} `KEY_CTRL`

See also [`wxShapeCanvas::OnBeginDragLeft`](#), [`wxShapeCanvas::OnEndDragLeft`](#).

---

<sup>w</sup>`wxShapeCanvas::OnDragLeft`

<sup>w</sup>`wxshapecanvasondragleft`

<sup>b</sup>`rowse00341`

<sup>K</sup>`wxShapeCanvas OnDragLeft`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")`

<sup>K</sup>`OnDragLeft`

**`wxShapeCanvas::OnDragRight`**

**`void OnDragRight(bool draw, double x, double y, int keys = 0)`**<sup>K</sup>

Called when a right-button drag event on the canvas background is detected by `OnEvent`. You may override this member; by default it does nothing.

*draw* is alternately `TRUE` and `FALSE`, to assist drawing and erasing.

*keys* is a bit list of the following:

{bmc bullet.bmp} `KEY_SHIFT`

{bmc bullet.bmp} `KEY_CTRL`

See also [`wxShapeCanvas::OnBeginDragRight`](#), [`wxShapeCanvas::OnEndDragRight`](#).

---

<sup>w</sup>`wxShapeCanvas::OnDragRight`

<sup>w</sup>`wxshapecanvasondragright`

<sup>b</sup>`rowse00342`

<sup>K</sup>`wxShapeCanvas OnDragRight`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")`

<sup>K</sup>`OnDragRight`

\$#+K! **wxShapeCanvas::OnLeftClick**

**void OnLeftClick(double *x*, double *y*, int *keys* = 0)**<sup>K</sup>

Called when a left click event on the canvas background is detected by OnEvent. You may override this member; by default it does nothing.

*keys* is a bit list of the following:

{bmc bullet.bmp} KEY\_SHIFT

{bmc bullet.bmp} KEY\_CTRL

---

wxShapeCanvas::OnLeftClick  
wxshapecanvasonleftclick  
browse00343  
K wxShapeCanvas OnLeftClick  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")  
K OnLeftClick

**`wxShapeCanvas::OnRightClick`**

**`void OnRightClick(double x, double y, int keys = 0)`**<sup>K</sup>

Called when a right click event on the canvas background is detected by `OnEvent`. You may override this member; by default it does nothing.

*keys* is a bit list of the following:

`{bmc bullet.bmp} KEY_SHIFT`

`{bmc bullet.bmp} KEY_CTRL`

---

<sup>w</sup>`xShapeCanvas::OnRightClick`  
<sup>w</sup>`xshapecanvasonrightclick`  
<sup>b</sup>`rowse00344`  
<sup>K</sup> `wxShapeCanvas OnRightClick`  
<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")`  
<sup>K</sup> `OnRightClick`

**`wxShapeCanvas::Redraw`**

**`void Redraw()`**

Calls `wxDiagram::Redraw`.

---

`wxShapeCanvas::Redraw`

`topic257`

`browse00345`

`wxShapeCanvas Redraw`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")`

`Redraw`

**`wxShapeCanvas::RemoveShape`**

**`void RemoveShape(wxShape *shape)`**<sup>K</sup>

Calls `wxDiagram::RemoveShape`.

---

<sup>w</sup>`xShapeCanvas::RemoveShape`

<sup>t</sup>`opic258`

<sup>b</sup>`rowse00346`

<sup>K</sup>`wxShapeCanvas RemoveShape`

<sup>E</sup>`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")`

<sup>K</sup>`RemoveShape`

`$#+K!` **wxShapeCanvas::SetDiagram**

**void SetDiagram(wxDiagram \**diagram*)**<sup>K</sup>

Sets the diagram associated with this diagram.

---

<sup>w</sup>xShapeCanvas::SetDiagram

<sup>t</sup>opic259

<sup>b</sup>rowse00347

<sup>K</sup> wxShapeCanvas SetDiagram

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapecanvas')")

<sup>K</sup> SetDiagram

**wxShapeCanvas::Snap**

**void Snap(double \*x, double \*y)**

Calls wxDiagram::Snap.

---

wxShapeCanvas::Snap  
topic260  
browse00348  
wxShapeCanvas Snap  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapecanvas')")  
Snap

\$#+K! **wxShapeEvtHandler::m\_handlerShape**

**wxShape\* m\_handlerShape<sup>K</sup>**

Pointer to the shape associated with this handler.

---

wxShapeEvtHandler::m\_handlerShape  
topic261  
browse00350  
K wxShapeEvtHandler m\_handlerShape  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
K m\_handlerShape

<sup>\$#+K!</sup>**wxShapeEvtHandler::m\_previousHandler**

**wxShapeEvtHandler\* m\_previousHandler**<sup>K</sup>

Pointer to the previous handler.

---

<sup>w</sup>xShapeEvtHandler::m\_previousHandler

<sup>t</sup>opic262

<sup>b</sup>rowse00351

<sup>K</sup> wxShapeEvtHandler m\_previousHandler

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> m\_previousHandler

**`wxShapeEvtHandler::wxShapeEvtHandler`**

**`void wxShapeEvtHandler(wxShapeEvtHandler *previous = NULL, wxShape *shape = NULL)`**<sup>K</sup>

Constructs a new event handler.

---

`wxShapeEvtHandler::wxShapeEvtHandler`  
`topic263`  
`browse00352`  
`wxShapeEvtHandler wxShapeEvtHandler`  
`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")`  
`wxShapeEvtHandler`

**wxShapeEvtHandler::~wxShapeEvtHandler**

**void ~wxShapeEvtHandler()**<sup>K</sup>

Destructor.

---

<sup>w</sup>xShapeEvtHandler::~wxShapeEvtHandler

<sup>t</sup>opic264

<sup>b</sup>rowse00353

<sup>K</sup> wxShapeEvtHandler ~wxShapeEvtHandler

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> ~wxShapeEvtHandler

**wxShapeEvtHandler::CopyData**

**void CopyData(wxShapeEvtHandler& *handler*)**<sup>K</sup>

A virtual function to copy the data from this object to *handler*. Override if you derive from wxShapeEvtHandler and have data to copy.

---

<sup>w</sup>xShapeEvtHandler::CopyData  
<sup>w</sup>xshapeevthandlercopydata  
<sup>b</sup>rowse00354  
<sup>K</sup> wxShapeEvtHandler CopyData  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
<sup>K</sup> CopyData

**`$#+K! wxShapeEvtHandler::CreateNewCopy`**

**`wxShapeEvtHandler* CreateNewCopy()`**<sup>K</sup>

Creates a new event handler object of the same class as this object, and then calls `wxShapeEvtHandler::CopyData`.

---

<sup>w</sup>xShapeEvtHandler::CreateNewCopy  
<sup>w</sup>xshapeevthandlercreatenewcopy  
<sup>b</sup>rowse00355  
<sup>K</sup> wxShapeEvtHandler CreateNewCopy  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
<sup>K</sup> CreateNewCopy

`$#+KKl wxShapeEvtHandler::GetPreviousHandler`

`wxShapeEvtHandler* GetPreviousHandler() const`

Returns the previous handler.

---

`wxShapeEvtHandler::GetPreviousHandler`

`wxshapeevthandlergetprevioushandler`

`rowse00356`

`K wxShapeEvtHandler GetPreviousHandler`

`K GetPreviousHandler`

`E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")`

`$#+KK!` **wxShapeEvtHandler::GetShape**

**wxShape\* GetShape() const**

Returns the shape associated with this handler.

---

`w`xShapeEvtHandler::GetShape  
`w`xshapeevthandlergetshape  
`b`rowse00357  
`K` wxShapeEvtHandler GetShape  
`K` GetShape  
`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapeevthandler')")

**wxShapeEvtHandler::OnBeginDragLeft**

**void OnBeginDragLeft(double x, double y, int keys=0, int attachment = 0)**<sup>K</sup>

Called when the user is beginning to drag using the left mouse button.

---

<sup>w</sup>xShapeEvtHandler::OnBeginDragLeft

<sup>t</sup>opic265

<sup>b</sup>rowse00358

<sup>K</sup> wxShapeEvtHandler OnBeginDragLeft

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnBeginDragLeft

\$#+K! **wxShapeEvtHandler::OnBeginDragRight**

**void OnBeginDragRight(double x, double y, int keys=0, int attachment = 0)**<sup>K</sup>

Called when the user is beginning to drag using the right mouse button.

---

wxShapeEvtHandler::OnBeginDragRight

topic266

browse00359

K wxShapeEvtHandler OnBeginDragRight

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

K OnBeginDragRight

`$#+K!` **wxShapeEvtHandler::OnBeginSize**

**void OnBeginSize(double *width*, double *height*)**<sup>K</sup>

Called when a shape starts to be resized.

---

<sup>w</sup>xShapeEvtHandler::OnBeginSize

<sup>t</sup>opic267

<sup>b</sup>rowse00360

<sup>K</sup> wxShapeEvtHandler OnBeginSize

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnBeginSize

**`wxShapeEvtHandler::OnChangeAttachment`**

**`void OnChangeAttachment(int attachment, wxLineShape* line, wxList& ordering)`**<sup>K</sup>

Override this to prevent or intercept line reordering. wxShape's implementation of this function calls `wxShape::ApplyAttachmentOrdering` to apply the new ordering.

---

<sup>w</sup>xShapeEvtHandler::OnChangeAttachment  
<sup>w</sup>xshapeevthandleronchangeattachment  
<sup>b</sup>rowse00361  
<sup>K</sup> wxShapeEvtHandler OnChangeAttachment  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
<sup>K</sup> OnChangeAttachment

\$#+K! **wxShapeEvtHandler::OnDragLeft**

**void OnDragLeft**(**bool** *draw*, **double** *x*, **double** *y*, **int** *keys=0*, **int** *attachment = 0*)<sup>K</sup>

Called twice when the shape is being dragged, once to allow erasing the old image, and again to allow drawing at the new position.

---

wxShapeEvtHandler::OnDragLeft

topic268

browse00362

K wxShapeEvtHandler OnDragLeft

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapeevthandler')")

K OnDragLeft

`$#+K!` **wxShapeEvtHandler::OnDragRight**

**void OnDragRight**(*bool draw*, *double x*, *double y*, *int keys=0*, *int attachment = 0*)<sup>K</sup>

Called twice when the shape is being dragged, once to allow erasing the old image, and again to allow drawing at the new position.

---

<sup>w</sup>xShapeEvtHandler::OnDragRight

<sup>t</sup>opic269

<sup>b</sup>rowse00363

<sup>K</sup> wxShapeEvtHandler OnDragRight

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnDragRight

**wxShapeEvtHandler::OnDraw**

**void OnDraw(wxDC& dc)**

Defined for each class to draw the main graphic, but not the contents.

---

wxShapeEvtHandler::OnDraw

topic270

browse00364

wxShapeEvtHandler OnDraw

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

OnDraw

**wxShapeEvtHandler::OnDrawContents**

**void OnDrawContents(wxDC& dc)**

Defined for each class to draw the contents of the shape, such as text.

---

wxShapeEvtHandler::OnDrawContents  
topic271  
browse00365  
K wxShapeEvtHandler OnDrawContents  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
K OnDrawContents

\$#+K! **wxShapeEvtHandler::OnDrawControlPoints**

**void OnDrawControlPoints(wxDC& dc)**<sup>K</sup>

Called when the shape's control points (handles) should be drawn.

---

wxShapeEvtHandler::OnDrawControlPoints

topic272

browse00366

K wxShapeEvtHandler OnDrawControlPoints

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

K OnDrawControlPoints

**wxShapeEvtHandler::OnDrawOutline**

**void OnDrawOutline(wxDC& dc)**

Called when the outline of the shape should be drawn.

---

wxShapeEvtHandler::OnDrawOutline  
topic273  
browse00367  
K wxShapeEvtHandler OnDrawOutline  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
K OnDrawOutline

\$#+K! **wxShapeEvtHandler::OnEndDragLeft**

**void OnEndDragLeft(double x, double y, int keys=0, int attachment = 0)**<sup>K</sup>

Called when the user is stopping dragging using the left mouse button.

---

wxShapeEvtHandler::OnEndDragLeft  
topic274  
browse00368  
K wxShapeEvtHandler OnEndDragLeft  
EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapeevthandler')")  
K OnEndDragLeft

\$#+K! **wxShapeEvtHandler::OnEndDragRight**

**void OnEndDragRight(double *x*, double *y*, int *keys*=0, int *attachment* = 0)**<sup>K</sup>

Called when the user is stopping dragging using the right mouse button.

---

wxShapeEvtHandler::OnEndDragRight

topic275

browse00369

K wxShapeEvtHandler OnEndDragRight

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

K OnEndDragRight

**wxShapeEvtHandler::OnEndSize**

**void OnEndSize(double *width*, double *height*)**<sup>K</sup>

Called after a shape is resized.

---

<sup>w</sup>xShapeEvtHandler::OnEndSize

<sup>t</sup>opic276

<sup>b</sup>rowse00370

<sup>K</sup> wxShapeEvtHandler OnEndSize

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnEndSize

**wxShapeEvtHandler::OnErase**

**void OnErase(wxDC& dc)**

Called when the whole shape should be erased.

---

wxShapeEvtHandler::OnErase

topic277

browse00371

wxShapeEvtHandler OnErase

enableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

OnErase

**wxShapeEvtHandler::OnEraseContents**

**void OnEraseContents(wxDC& dc)**<sup>K</sup>

Called when the contents should be erased.

---

<sup>w</sup>xShapeEvtHandler::OnEraseContents

<sup>t</sup>opic278

<sup>b</sup>rowse00372

<sup>K</sup> wxShapeEvtHandler OnEraseContents

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnEraseContents

**wxShapeEvtHandler::OnEraseControlPoints**

**void OnEraseControlPoints(wxDC& dc)**

Called when the shape's control points (handles) should be erased.

---

wxShapeEvtHandler::OnEraseControlPoints

topic279

browse00373

wxShapeEvtHandler OnEraseControlPoints

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

OnEraseControlPoints

`wxShapeEvtHandler::OnHighlight`

`void OnHighlight(wxDC& dc)`

Called when the shape should be highlighted.

---

`wxShapeEvtHandler::OnHighlight`

`topic280`

`browse00374`

`wxShapeEvtHandler OnHighlight`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")`

`OnHighlight`

`$#+K!wxShapeEvtHandler::OnLeftClick`

`void OnLeftClick(double x, double y, int keys = 0, int attachment = 0)K`

Called when the shape receives a left mouse click event.

---

`wxShapeEvtHandler::OnLeftClick`

`topic281`

`browse00375`

`K wxShapeEvtHandler OnLeftClick`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")`

`K OnLeftClick`

`$#+K!` **wxShapeEvtHandler::OnMoveLink**

**void OnMoveLink**(wxDC& *dc*, **bool** *moveControlPoints=TRUE*)<sup>K</sup>

Called when the line attached to an shape need to be repositioned, because the shape has moved.

---

<sup>w</sup>xShapeEvtHandler::OnMoveLink

<sup>t</sup>opic282

<sup>b</sup>rowse00376

<sup>K</sup> wxShapeEvtHandler OnMoveLink

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnMoveLink

**wxShapeEvtHandler::OnMoveLinks**

**void OnMoveLinks(wxDC& dc)**

Called when the lines attached to an shape need to be repositioned, because the shape has moved.

---

wxShapeEvtHandler::OnMoveLinks  
topic283  
browse00377  
K wxShapeEvtHandler OnMoveLinks  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
K OnMoveLinks

`$#+K!` **wxShapeEvtHandler::OnMovePost**

**bool OnMovePost(wxDC& dc, double x, double y, double oldX, double oldY, bool display = TRUE)**<sup>K</sup>

Called just after the shape receives a move request.

---

<sup>w</sup>xShapeEvtHandler::OnMovePost

<sup>t</sup>opic284

<sup>b</sup>rowse00378

<sup>K</sup> wxShapeEvtHandler OnMovePost

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnMovePost

\$#+K! **wxShapeEvtHandler::OnMovePre**

**bool OnMovePre(wxDC& dc, double x, double y, double oldX, double oldY, bool display = TRUE)**<sup>K</sup>

Called just before the shape receives a move request. Returning TRUE allows the move to be processed; returning FALSE vetoes the move.

---

wxShapeEvtHandler::OnMovePre

topic285

browse00379

K wxShapeEvtHandler OnMovePre

EnableButton("Up");ChangeButtonBinding("Up", "JumpId(`ogl.hlp', `wxshapeevthandler')")

K OnMovePre

**wxShapeEvtHandler::OnRightClick**

**void OnRightClick(double x, double y, int keys = 0, int attachment = 0)**<sup>K</sup>

Called when the shape receives a mouse mouse click event.

---

<sup>w</sup>xShapeEvtHandler::OnRightClick

<sup>t</sup>opic286

<sup>b</sup>rowse00380

<sup>K</sup> wxShapeEvtHandler OnRightClick

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnRightClick

**wxShapeEvtHandler::OnSize**

**void OnSize(double x, double y)**<sup>K</sup>

Called when the shape receives a resize request.

---

<sup>w</sup>xShapeEvtHandler::OnSize

<sup>t</sup>opic287

<sup>b</sup>rowse00381

<sup>K</sup> wxShapeEvtHandler OnSize

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnSize

`$#+K!` **wxShapeEvtHandler::OnSizingBeginDragLeft**

**void OnSizingBeginDragLeft**(wxControlPoint\* *pt*, double *x*, double *y*, int *keys=0*, int *attachment = 0*)<sup>K</sup>

Called when a sizing drag is beginning.

---

wxShapeEvtHandler::OnSizingBeginDragLeft  
topic288  
browse00382  
K wxShapeEvtHandler OnSizingBeginDragLeft  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
K OnSizingBeginDragLeft

`$#+K!` **wxShapeEvtHandler::OnSizingDragLeft**

**void OnSizingDragLeft**(**wxControlPoint\*** *pt*, **bool** *draw*, **double** *x*, **double** *y*, **int** *keys=0*, **int** *attachment = 0*)<sup>K</sup>

Called when a sizing drag is occurring.

---

<sup>w</sup>xShapeEvtHandler::OnSizingDragLeft

<sup>t</sup>opic289

<sup>b</sup>rowse00383

<sup>K</sup> wxShapeEvtHandler OnSizingDragLeft

<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

<sup>K</sup> OnSizingDragLeft

`$#+K!` **wxShapeEvtHandler::OnSizingEndDragLeft**

**void OnSizingEndDragLeft**(wxControlPoint\* *pt*, double *x*, double *y*, int *keys*=0, int *attachment* = 0)<sup>K</sup>

Called when a sizing drag is ending.

---

`w`xShapeEvtHandler::OnSizingEndDragLeft

`t`opic290

`b`rowse00384

`K` wxShapeEvtHandler OnSizingEndDragLeft

`E`nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")

`K` OnSizingEndDragLeft

<sup>\$#+K!</sup>**wxShapeEvtHandler::SetPreviousHandler**

**void SetPreviousHandler(wxShapeEvtHandler\* *handler*)**<sup>K</sup>

Sets the previous handler.

---

<sup>w</sup>xShapeEvtHandler::SetPreviousHandler  
<sup>w</sup>xshapeevthandler::setprevioushandler  
<sup>b</sup>rowse00385  
<sup>K</sup> wxShapeEvtHandler SetPreviousHandler  
<sup>E</sup>nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
<sup>K</sup> SetPreviousHandler

**wxShapeEvtHandler::SetShape**

**void SetShape(wxShape\* *shape*)**

Sets the shape for this handler.

---

wxShapeEvtHandler::SetShape  
wxshapeevthandlersetshape  
browse00386  
K wxShapeEvtHandler SetShape  
E nableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxshapeevthandler')")  
K SetShape

**`wxTextShape::wxTextShape`**

**`void wxTextShape(double width = 0.0, double height = 0.0)`**<sup>K</sup>

Constructor.

---

`wxTextShape::wxTextShape`

`topic291`

`browse00388`

`wxTextShape wxTextShape`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxtextshape')")`

`wxTextShape`

**`wxTextShape::~wxTextShape`**

**`void ~wxTextShape()`**<sup>K</sup>

Destructor.

---

`wxTextShape::~wxTextShape`

`topic292`

`browse00389`

`wxTextShape ~wxTextShape`

`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `wxttextshape')")`

`~wxTextShape`

`$#+K!::wxOGLInitialize`

`void wxOGLInitialize()`<sup>K</sup> Initializes OGL.

---

`·:wxOGLInitialize`  
`topic293`  
`browse00391`  
`K wxOGLInitialize`  
`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `functions')")`  
`K wxOGLInitialize`

`$#+K!::wxOGLCleanUp`

`void wxOGLCleanUp()`<sup>K</sup> Cleans up OGL.

---

`::wxOGLCleanUp`  
`topic294`  
`browse00392`  
`K wxOGLCleanUp`  
`EnableButton("Up");ChangeButtonBinding("Up", "JumpId(^ogl.hlp', `functions')")`  
`K wxOGLCleanUp`





