Visio

Visual

Sections



Updated - Saturday, February 4, 2023

Thank you GW, JG, DP, SL, ML, CR, SH

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[<242-0> J180 User-defined Cells 0/1 nCells=2 SPD Ca 1](#_Toc124490959)

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[Cc 2](#_Toc124490963)

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[<4-0> J149 Paragraph 0/1 nCells=15 S Cc 2](#_Toc124490966)

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# Introduction

The shapesheet is the heart of Visio. Power users can use it to make Visio shapes come to life. Developers have a way into the shapesheets using CellSRC. Graham Wideman did an excellent job exploring the shapesheet from the developer’s side with his series of books. I am filling in the blanks for the power users by exploring the visual shapesheet, what you see when you chose Show Shapesheet and look at the shape shapesheet, ThePage shapesheet or TheDoc shapesheet.

These are examples of the visual sections I have come across in exploring Visio shapesheets. Below the image are the results of doing a CellsSrc() against a similar visual section. The actual values in the images do not match the results from CellSRC(), but they are representative.

Not all values show up in the visual sections, the ones that do not are highlighted in red. The letters after the header represent where the shapesheet types these sections can be found. S – Shape, P - Page and D – Document

The final letter in the title indicates the type of section A for fixed, Cx for lists and G for Geometry. This is explained at the end of the document.

Any header that ends with NGB means that section is NOT covered in Graham Wideman’s books… It is new stuff. 😉

Row Types – each row in the shapesheet has a record type, but only the Geometry section record types are enumerated. So, I created a VBA dictionary that will return a text. of the record when given a row type. New sections would return “Missing”. After several iteration, I had the dictionary filled out. … Well almost 😉.

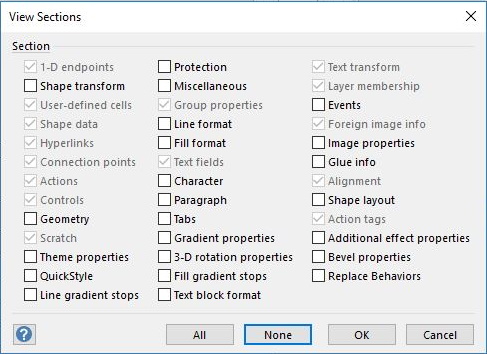
I used Graham Wideman’s books to correlate the cell names and Section numbers to determine the missing “Section” names.

The CellSRC() lines in red are ones that do not exist in the visual versions of the shapesheet sections.

The description after the SRC listing is basically an embellished version of the description in the online documentation about that section.

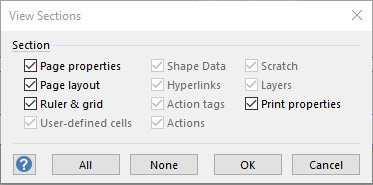
This is a work in progress…

## Shape Sections

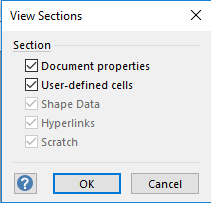


Replace Behaviours listed here is Change Shape Behaviour?

## Page Sections



## Document Sections



# Section Types

I found three section types. Type A is a fixed grid, Type C is a List and Type G are the geometry section rows.

# A

A fixed grid shape.

1-D Endpoints, 3-D Rotation Properties, Additional Effect Properties, Alignment, Bevel Properties, Change Shape Behavior, Document Properties, Events, Fill Format, Foreign Image Info, Geometry, Glue Info, Gradient Properties, Group Properties, Image Properties, Line Format, Line Gradient Stops, Miscellaneous, Page Layout, Page Properties, Print Properties, Protection, Quick Style, Ruler & Grid, Shape Layout, Shape Transform, Style Properties, Text Block Format, Text Transform, Theme Properties

# C

Lists

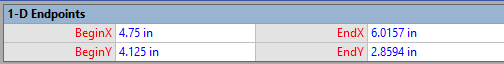
Action Tags, Actions, Annotation, Character, Connection Points, Controls, Fill Gradient Stops, Hyperlinks, Layers, Paragraph, Reviewer, Scratch, Shape Data, Tabs, Text Fields, User-defined Cells

# G

Geometry sections

ArcTo, Ellipse, EllipticalArcTo, Geo Sub Hdr, InfiniteLine, Layer Membership, LineTo, MoveTo, NURBSTo, PolylineTo, RelCubBezTo, RelEllipticalArcTo, RelLineTo, RelMoveTo, RelQuadBezTo, SplineKnot, SplineStart

# <1-4> J157 1-D Endpoints section S A



<1-4-0/4> J157 1-D Endpoints N=BeginX F=3.2812345266338 in.

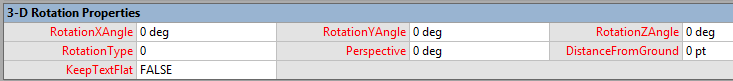
<1-4-1/4> J157 1-D Endpoints N=BeginY F=9.6718526065345 in.

<1-4-2/4> J157 1-D Endpoints N=EndX F=3.7812345266338 in.

<1-4-3/4> J157 1-D Endpoints N=EndY F=9.6718526065345 in.

Contains x- and y-coordinates of the begin point and endpoint of a 1-D shape. This section appears for 1-D shapes only.

# <1-30> J246 3D Rotation Properties Section S A NGB



<1-30-0/14> J246 3D Rotation Properties N=RotationXAngle F=333.99996666667 deg.

<1-30-1/14> J246 3D Rotation Properties N=RotationYAngle F=18 deg.

<1-30-2/14> J246 3D Rotation Properties N=RotationZAngle F=0 deg.

<1-30-3/14> J246 3D Rotation Properties N=RotationType F=1

<1-30-4/14> J246 3D Rotation Properties N=Perspective F=0 deg.

<1-30-5/14> J246 3D Rotation Properties N=DistanceFromGround F=0 pt.

<1-30-6/14> J246 3D Rotation Properties N=KeepTextFlat F=FALSE

<1-30-7/14> J246 3D Rotation Properties N=Sect1.F31

<1-30-8/14> J246 3D Rotation Properties N=Sect1.G31

<1-30-9/14> J246 3D Rotation Properties N=Sect1.H31

<1-30-10/14> J246 3D Rotation Properties N=Sect1.I31

<1-30-11/14> J246 3D Rotation Properties N=Sect1.J31

<1-30-12/14> J246 3D Rotation Properties N=Sect1.K31

<1-30-13/14> J246 3D Rotation Properties N=Sect1.L31

Shows the current values of a shape's angle of rotation along the x-, y-, and z-axes.

**Notes:**

The 3-D Rotation Properties section does not include cells that control shape bevel effects. To set a bevel effect, change the values of the cells in the [**Bevel Properties**](https://learn.microsoft.com/en-us/office/client-developer/visio/bevel-properties-section) section.

You can change the 3-D rotation values in the **Format Shape** dialog box (**Home** > **Shape Styles** > **Effects** > **3-D Rotation** or by making a change to one of the cells in the **3-D Rotation Properties** section.

# 

# <247-0> J199 Action Tag 0/1 SP Ca



<247-0/1-0/16> N=SmartTags.Row\_1 F=0 in.

<247-0/1-1/16> N=SmartTags.Row\_1.Y F=0 in.

<247-0/1-2/16> N=SmartTags.Row\_1.TagName

<247-0/1-3/16> N=SmartTags.Row\_1.XJustify F=0

<247-0/1-4/16> N=SmartTags.Row\_1.YJustify F=0

<247-0/1-5/16> N=SmartTags.Row\_1.DisplayMode F=0

<247-0/1-6/16> N=SmartTags.Row\_1.ButtonFace

<247-0/1-7/16> N=SmartTags.Row\_1.Disabled F=FALSE

<247-0/1-8/16> N=SmartTags.Row\_1G15

<247-0/1-9/16> N=SmartTags.Row\_1H15

<247-0/1-10/16> N=SmartTags.Row\_1I15

<247-0/1-11/16> N=SmartTags.Row\_1J15

<247-0/1-12/16> N=SmartTags.Row\_1K15

<247-0/1-13/16> N=SmartTags.Row\_1L15

<247-0/1-14/16> N=SmartTags.Row\_1M15

<247-0/1-15/16> N=SmartTags.Row\_1.Description

Smart Tags was the old name of Action Tags.

Contains a row for each action tag defined for a shape or page.

**Notes:**

In previous versions of Microsoft Visio, action tags are called smart tags.

The **Action Tag** section controls the appearance and position of action tags in the drawing. Using the **TagName** cell, you can associate each action tag with a row or rows in the Actions section, where menu items that appear on an action tag menu are defined.

A single shape or page can contain multiple action tags.

If an action tag has no matching actions, the action tag button appears and disappears as defined, but its menu is blank.

You can only insert an **Action Tag** section in the ShapeSheet window (right-click in the ShapeSheet window, click **Insert Section**, and then select the **Action tags** check box). To add an action tag to an existing **Action Tag** section, right-click a row, and then click **Insert Row** on the shortcut menu.

The **Action Tag** section controls the appearance and position of action tags in the drawing. Using the **TagName** cell, you can associate each action tag with a row or rows in the Actions section, where menu items that appear on an action tag menu are defined.

# <240-0> J169 Actions Section SP Ca



<240-0/1-0/17> N=Actions.Row\_1

<240-0/1-1/17> N=Actions.Row\_1.\_Unused1

<240-0/1-2/17> N=Actions.Row\_1.\_Unused2

<240-0/1-3/17> N=Actions.Row\_1.Action

<240-0/1-4/17> N=Actions.Row\_1.Checked F=0

<240-0/1-5/17> N=Actions.Row\_1.Disabled F=0

<240-0/1-6/17> N=Actions.Row\_1.ReadOnly F=FALSE

<240-0/1-7/17> N=Actions.Row\_1.Invisible F=FALSE

<240-0/1-8/17> N=Actions.Row\_1.BeginGroup F=FALSE

<240-0/1-9/17> N=Actions.Row\_1.FlyoutChild F=FALSE

<240-0/1-10/17> N=Actions.Row\_1I15

<240-0/1-11/17> N=Actions.Row\_1J15

<240-0/1-12/17> N=Actions.Row\_1K15

<240-0/1-13/17> N=Actions.Row\_1L15

<240-0/1-14/17> N=Actions.Row\_1.TagName

<240-0/1-15/17> N=Actions.Row\_1.ButtonFace

<240-0/1-16/17> N=Actions.Row\_1.SortKey

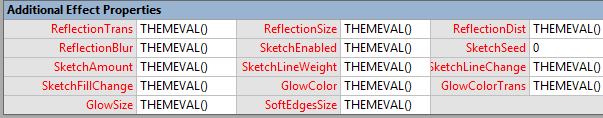
Contains rows that describe menu items on a shortcut or action tag menu of a shape or page. In previous versions of Microsoft Visio, action tags are called smart tags.The **TagName** cell is used to associate an action with a row in the **Action Tag** section, where action tags are defined.

**Notes:**

In previous versions of Microsoft Visio, action tags are called smart tags.

The **TagName** cell is used to associate an action with a row in the **Action Tag** section, where action tags are defined.

# <1-28> J244 Additional Effect Properties Section S A NGB



<1-28-0/17> J244 Additional Effect Properites N=ReflectionTrans

<1-28-1/17> J244 Additional Effect Properites N=ReflectionSize

<1-28-2/17> J244 Additional Effect Properites N=ReflectionDist

<1-28-3/17> J244 Additional Effect Properites N=ReflectionBlur

<1-28-4/17> J244 Additional Effect Properites N=GlowColor

<1-28-5/17> J244 Additional Effect Properites N=GlowColorTrans

<1-28-6/17> J244 Additional Effect Properites N=GlowSize

<1-28-7/17> J244 Additional Effect Properites N=SoftEdgesSize F=2.5 pt.

<1-28-8/17> J244 Additional Effect Properites N=SketchSeed F=0

<1-28-9/17> J244 Additional Effect Properites N=SketchEnabled

<1-28-10/17> J244 Additional Effect Properites N=SketchAmount

<1-28-11/17> J244 Additional Effect Properites N=SketchLineWeight

<1-28-12/17> J244 Additional Effect Properites N=SketchLineChange

<1-28-13/17> J244 Additional Effect Properites N=SketchFillChange

<1-28-14/17> J244 Additional Effect Properites N=Sect1.M29

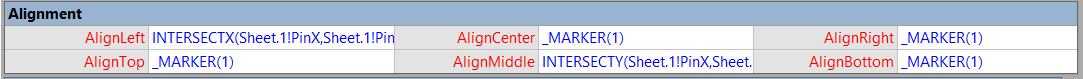
<1-28-15/17> J244 Additional Effect Properites N=Sect1.N29

<1-28-16/17> J244 Additional Effect Properites N=Sect1.O29

Shows the additional effects applied to the shape, including reflection, glow, and soft edges effects. This section also included the values for a Sketch effect.

You can set the reflection, glow, and soft edges effects in the **Format Shape** dialog box (**Home** > **Shape Styles** > **Effects**). A Sketch effect can be applied to a shape by using one of the sketch themes (**Design** > **Themes** > **Effects**) or by making changes to values in the corresponding ShapeSheet cells.

# <1-14> Alignment section



<1-14> nCells=6 RT=159 J159 Alignment

<1-14-0/6> N=AlignLeft F=INTERSECTX(Sheet.1636!PinX,Sheet.1636!PinY,Sheet.1636!Angle,5.6676100553974 in.,6.9999776363368 in.,Sheet.1636!Angle+90 deg.) R=0.2500 in.

<1-14-1/6> N=AlignCenter F=\_MARKER(1) R=1.0000 in.

<1-14-2/6> N=AlignRight F=\_MARKER(1) R=1.0000 in.

<1-14-3/6> N=AlignTop F=\_MARKER(1) R=1.0000 in.

<1-14-4/6> N=AlignMiddle F=INTERSECTY(Sheet.1636!PinX,Sheet.1636!PinY,Sheet.1636!Angle,5.6676100553974 in.,6.9999776363368 in.,Sheet.1636!Angle+90 deg.) R=7.0000 in.

<1-14-5/6> N=AlignBottom F=\_MARKER(1) R=1.0000 in.

Sheet.1637< 1 - 14 > 159

Indicates the alignment of a shape with respect to the guide or guide point to which the shape is glued. The **Alignment** section appears only for shapes that are glued to guides.

# <246-0> Annotation Section

Looking for details…

Contains information about comments inserted into a document page.

**Notes:**

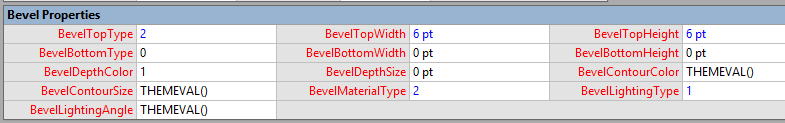
This section is used for tracking comments only when opening a .vsd file in Microsoft Visio 2013 or when saving a .vsdx file in the .vsd file format. It is not used for tracking comments in new .vsdx documents in Visio 2013.

The **Annotation** section of a page's ShapeSheet contains one row for each comment added to a page in the drawing, whether it is an original drawing page or a markup overlay page (a page containing markup that has been added to the drawing by a reviewer). Information about markup that has been added using ink or other shapes, rather than comments, is not included in the **Annotation** section.

To view the ShapeSheet for a page, make sure nothing is selected on the page, right-click the page, and click **Show ShapeSheet**.

For information about particular reviewers, see the **Reviewer** section in the document's ShapeSheet.

# <1-29> J245 Bevel Properties S A NGB



<1-29-0/13> J245 Bevel Properties N=BevelTopType F=2

<1-29-1/13> J245 Bevel Properties N=BevelTopWidth F=6 pt.

<1-29-2/13> J245 Bevel Properties N=BevelTopHeight F=6 pt.

<1-29-3/13> J245 Bevel Properties N=BevelBottomType F=0

<1-29-4/13> J245 Bevel Properties N=BevelBottomWidth F=0 pt.

<1-29-5/13> J245 Bevel Properties N=BevelBottomHeight F=0 pt.

<1-29-6/13> J245 Bevel Properties N=BevelDepthColor F=1

<1-29-7/13> J245 Bevel Properties N=BevelDepthSize F=0 pt.

<1-29-8/13> J245 Bevel Properties N=BevelContourColor

<1-29-9/13> J245 Bevel Properties N=BevelContourSize

<1-29-10/13> J245 Bevel Properties N=BevelMaterialType F=2

<1-29-11/13> J245 Bevel Properties N=BevelLightingType F=1

<1-29-12/13> J245 Bevel Properties N=BevelLightingAngle

Shows the attributes for any bevel effects applied to the shape.

You can apply a bevel to a shape in the **Format Shape** pane (**Home** > **Shape Styles** > **Bevel** > **3-D Options**, or by making changes to the cells in the **Bevel Properties** section of the ShapeSheet.

# <1-32>Change Shape Behaviour S NGB



<1-32> J241 Replace nCells=4

<1-32-0/4> N=ReplaceLockShapeData F=0 R=0

<1-32-1/4> N=ReplaceLockText F=0 R=0

<1-32-2/4> N=ReplaceLockFormat F=0 R=0

<1-32-3/4> N=ReplaceCopyCells F= R=FALSE

This is Replace Behaviours?

Determines the properties that are transferred from the old shape to the replacement shape during a replacement operation. The values of the cells in the **Change Shape Behavior** section of the Master shape of the replacement are read during the shape replacement operation.

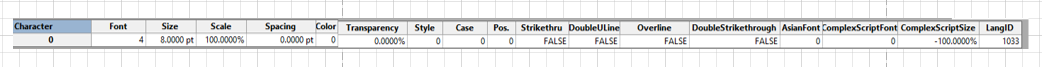
By setting the cells in the **Change Shape Behavior** section, you can ensure that certain properties of the replacement shape remain unchanged during the replacement operation. Properties that are not protected are updated with the local shape values from the old shape during the operation.

You can change the replacement behavior settings of a Master shape by editing the Master shape (in the **Shapes** window, right-click the shape, point to **Edit Master**, and then click **Edit Master Shape**) and changing the values of the [ReplaceCopyCells Cell (Change Shape Behavior Section) | Microsoft Learn](https://learn.microsoft.com/en-us/office/client-developer/visio/replacecopycells-cell-change-shape-behavior-section) [ReplaceLockFormat Cell (Change Shape Behavior Section) | Microsoft Learn](https://learn.microsoft.com/en-us/office/client-developer/visio/replacelockformat-cell-change-shape-behavior-section) and [ReplaceLockText Cell (Change Shape Behavior Section) | Microsoft Learn](https://learn.microsoft.com/en-us/office/client-developer/visio/replacelocktext-cell-change-shape-behavior-section), and cells in the Master's ShapeSheet.

**Note:**

You cannot change the shape replacement behaviors of the shapes that are included with the built-in stencils in Microsoft Visio 2013. To modify the shape replacement behaviors of the built-in Visio shapes, create a new stencil and add the shape that you want to modify to the new stencil.

# <3-0> J148 Character 0/1 S Ca



<3-0/1-0/58> N=Char.Font F=4

<3-0/1-1/58> N=Char.Color F=0

<3-0/1-2/58> N=Char.Style F=0

<3-0/1-3/58> N=Char.Case F=0

<3-0/1-4/58> N=Char.Pos F=0

<3-0/1-5/58> N=Char.FontScale F=100%

<3-0/1-6/58> N=Char.\_Unused6 F=0

<3-0/1-7/58> N=Char.Size F=12 pt.

<3-0/1-8/58> N=Char.DblUnderline F=FALSE

<3-0/1-9/58> N=Char.Overline F=FALSE

<3-0/1-10/58> N=Char.Strikethru F=FALSE

<3-0/1-11/58> N=Char.\_Unused11 F=FALSE

<3-0/1-12/58> N=Char.\_Unused12 F=FALSE

<3-0/1-13/58> N=Char.DoubleStrikethrough F=FALSE

<3-0/1-14/58> N=Char.\_Unused14 F=FALSE

<3-0/1-15/58> N=Char.\_Unused15 F=FALSE

<3-0/1-16/58> N=Char.Letterspace F=0 pt.

<3-0/1-17/58> N=Char.ColorTrans F=0%

<3-0/1-18/58> N=Char.Q1 F=

<3-0/1-19/58> N=Char.R1 F=

<3-0/1-20/58> N=Char.S1 F=

<3-0/1-21/58> N=Char.T1 F=

<3-0/1-22/58> N=Char.U1 F=

<3-0/1-23/58> N=Char.V1 F=

<3-0/1-24/58> N=Char.W1 F=

<3-0/1-25/58> N=Char.Z1 F=

<3-0/1-26/58> N=Char.AA1 F=

<3-0/1-27/58> N=Char.AB1 F=

<3-0/1-28/58> N=Char.AC1 F=

<3-0/1-29/58> N=Char.AD1 F=

<3-0/1-30/58> N=Char.AE1 F=

<3-0/1-31/58> N=Char.AF1 F=

<3-0/1-32/58> N=Char.AG1 F=

<3-0/1-33/58> N=Char.AH1 F=

<3-0/1-34/58> N=Char.AI1 F=

<3-0/1-35/58> N=Char.AJ1 F=

<3-0/1-36/58> N=Char.AK1 F=

<3-0/1-37/58> N=Char.AL1 F=

<3-0/1-38/58> N=Char.AM1 F=

<3-0/1-39/58> N=Char.AN1 F=

<3-0/1-40/58> N=Char.AO1 F=

<3-0/1-41/58> N=Char.AP1 F=

<3-0/1-42/58> N=Char.AQ1 F=

<3-0/1-43/58> N=Char.AR1 F=

<3-0/1-44/58> N=Char.AS1 F=

<3-0/1-45/58> N=Char.AT1 F=

<3-0/1-46/58> N=Char.AU1 F=

<3-0/1-47/58> N=Char.AV1 F=

<3-0/1-48/58> N=Char.AW1 F=

<3-0/1-49/58> N=Char.AX1 F=

<3-0/1-50/58> N=Char.AY1 F=

<3-0/1-51/58> N=Char.AsianFont F=0

<3-0/1-52/58> N=Char.ComplexScriptFont F=0

<3-0/1-53/58> N=Char.\_Unused53 F=0

<3-0/1-54/58> N=Char.ComplexScriptSize F=-100%

<3-0/1-55/58> N=Char.BD1 F=

<3-0/1-56/58> N=Char.BE1 F=

<3-0/1-57/58> N=Char.LangID F=1033

Shows the formatting attributes for the shape's text, such as font, color, text style, case, position relative to the baseline, and point size.

Each character style in a shape has a corresponding row in the **Character** section as viewed in the ShapeSheet window. The name of the row represents the number of characters the character style applies to.

You can set text formats in the **Text** dialog box (click the dialog box launcher in the **Font** group on the **Home** tab), by applying a text style, or by making an entry in a **Character** section cell.

# <7-0> J153 Connection Points 0/1 S Cb



<7-0/1-0/14> N=Connections.X1 F=Width\*0

<7-0/1-1/14> N=Connections.Y1 F=Height\*0

<7-0/1-2/14> N=Connections.DirX F=0 in.

<7-0/1-3/14> N=Connections.DirY F=0 in.

<7-0/1-4/14> N=Connections.Type F=0

<7-0/1-5/14> N=Connections.AutoGen F=FALSE

<7-0/1-6/14> N=Connections.Prompt

<7-0/1-7/14> N=Connections.F1

<7-0/1-8/14> N=Connections.G1

<7-0/1-9/14> N=Connections.H1

<7-0/1-10/14> N=Connections.I1

<7-0/1-11/14> N=Connections.J1

<7-0/1-12/14> N=Connections.K1

<7-0/1-13/14> N=Connections.L1

Contains a row and cells for each connection point defined for the shape.

You can define connection points in the **Connection Points** section in the ShapeSheet window or by clicking the **Connection Point** tool on the **Home** tab.

If your shape has no **Connection Points** section you can insert a **Connection Points** section in the ShapeSheet window. Right-click in the ShapeSheet window, click **Insert Section**, and then click **Connection points**. To add connection points to an existing **Connection Points** section, right-click a row and click **Insert Row** on the shortcut menu.

You can change the row type of a connection point in this section to display additional cells that you can use for scratch calculations. To do this, right-click the row, and then click **Change Row Type** on the shortcut menu.

# <9-0> J170 Controls S Ca



<9-0/1-0/9> N=Controls.Row\_1 F=Width\*0

<9-0/1-1/9> N=Controls.Row\_1.Y F=Height\*0

<9-0/1-2/9> N=Controls.Row\_1.XDyn F=Controls.Row\_1

<9-0/1-3/9> N=Controls.Row\_1.YDyn F=Controls.Row\_1.Y

<9-0/1-4/9> N=Controls.Row\_1.XCon F=0

<9-0/1-5/9> N=Controls.Row\_1.YCon F=0

<9-0/1-6/9> N=Controls.Row\_1.CanGlue F=TRUE

<9-0/1-7/9> N=Controls.Row\_1.Type

<9-0/1-8/9> N=Controls.Row\_1.Prompt

Contains a row and cells for each control handle defined for the shape.

You can define control handles in the **Controls** section in the ShapeSheet window. If your shape has no **Controls** section, you can insert one in the ShapeSheet window. Right-click in the ShapeSheet window, click **Insert Section**, and then select the **Controls** check box. To add control handles to an existing **Controls** section, right-click a row and click **Insert Row** on the shortcut menu.

# <1-16> J163 CopyRight

<1-16-0/4> N=HelpTopic F="" R=

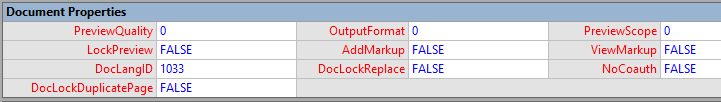
<1-16-1/4> N=Copyright F="" R=

<1-16-2/4> N=Sect1.A17 F="" R=

<1-16-3/4> N=Sect1.B17 F="" R=

HelpTopic is calledObHelp in GW

# <1-20> J188 Document Properties D A



<1-20-0/22> J188 Document Properties N=OutputFormat F=0

<1-20-1/22> J188 Document Properties N=LockPreview F=FALSE

<1-20-2/22> J188 Document Properties N=Metric F=FALSE

<1-20-3/22> J188 Document Properties N=AddMarkup F=FALSE

<1-20-4/22> J188 Document Properties N=ViewMarkup F=FALSE

<1-20-5/22> J188 Document Properties N=DocLockReplace F=FALSE

<1-20-6/22> J188 Document Properties N=NoCoauth F=FALSE

<1-20-7/22> J188 Document Properties N=DocLockDuplicatePage F=FALSE

<1-20-8/22> J188 Document Properties N=Sect1.G21

<1-20-9/22> J188 Document Properties N=PreviewQuality F=0

<1-20-10/22> J188 Document Properties N=PreviewScope F=0

<1-20-11/22> J188 Document Properties N=Sect1.J21

<1-20-12/22> J188 Document Properties N=Sect1.K21 F=FALSE

<1-20-13/22> J188 Document Properties N=Sect1.L21

<1-20-14/22> J188 Document Properties N=Sect1.M21

<1-20-15/22> J188 Document Properties N=Sect1.N21 F=FALSE

<1-20-16/22> J188 Document Properties N=Sect1.O21

<1-20-17/22> J188 Document Properties N=Sect1.P21

<1-20-18/22> J188 Document Properties N=Sect1.Q21

<1-20-19/22> J188 Document Properties N=DocLangID F=1033

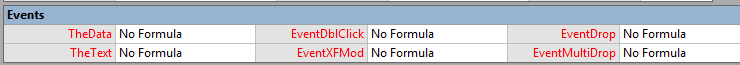
<1-20-20/22> J188 Document Properties N=\_UnusedFC

<1-20-21/22> J188 Document Properties N=\_UnusedFD

Contains cells for a document that control preview quality, scope, and output format.

You can also set these values by using the **Properties** dialog box (click the **File** tab, click **Info**, click **Properties**, and then click **Advanced Properties**).

# <1-5> J132 Events S A



<1-5-0/23> J132 Events N=TheData

<1-5-1/23> J132 Events N=TheText

<1-5-2/23> J132 Events N=EventDblClick

<1-5-3/23> J132 Events N=EventXFMod

<1-5-4/23> J132 Events N=EventDrop

<1-5-5/23> J132 Events N=\_EventPatMas

<1-5-6/23> J132 Events N=EventTextOverflow

<1-5-7/23> J132 Events N=Sect1.F6

<1-5-8/23> J132 Events N=Sect1.G6

<1-5-9/23> J132 Events N=Sect1.H6

<1-5-10/23> J132 Events N=Sect1.I6

<1-5-11/23> J132 Events N=Sect1.J6

<1-5-12/23> J132 Events N=Sect1.K6

<1-5-13/23> J132 Events N=Sect1.L6

<1-5-14/23> J132 Events N=Sect1.M6

<1-5-15/23> J132 Events N=Sect1.N6

<1-5-16/23> J132 Events N=Sect1.O6

<1-5-17/23> J132 Events N=Sect1.P6

<1-5-18/23> J132 Events N=Sect1.Q6

<1-5-19/23> J132 Events N=Sect1.R6

<1-5-20/23> J132 Events N=Sect1.S6

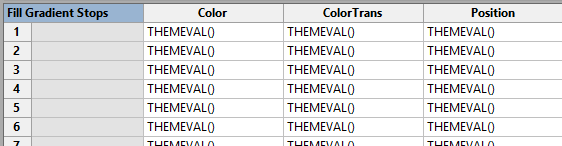
<1-5-21/23> J132 Events N=Sect1.T6

<1-5-22/23> J132 Events N=EventMultiDrop

Contains formulas that control shape events. Event cells are evaluated only when the event occurs, not upon formula entry.

# 

# <249-0> J248 FillGradient Section S Cc



<249-0/1-0/3> N=FillGradientStops.GradientStopColor F=1

<249-0/1-1/3> N=FillGradientStops.GradientStopColorTrans F=0%

<249-0/1-2/3> N=FillGradientStops.GradientStopPosition F=0%

Shows the color values for the fill gradient applied to the shape.

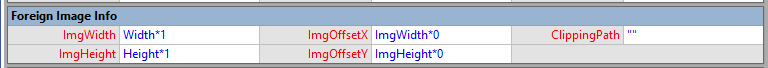
Each [Gradient Stop Row (Fill Gradient Section)](https://learn.microsoft.com/en-us/office/client-developer/visio/gradient-stop-row-fill-gradient-section) row in the section represents a gradient stop in the fill. This section can be empty.

Only the first 10 rows contained in the section are used by the gradient settings. All **Gradient Stop** rows beyond 10 are ignored.

You can set the fill gradient properties in the **Format Shape** pane (on the **Home** tab, in the **Shape Styles** group, click **Fill**, and then click **Fill Options**).

You can enable or disable a gradient fill for the shape by changing the value of the [FillGradientEnabled Cell (Gradient Properties Section)](https://learn.microsoft.com/en-us/office/client-developer/visio/fillgradientenabled-cell-gradient-properties-section) cell.

# <1-9> J152 Foreign Image Info Section S A



<1-9-0/5> J152 Foreign Image Info N=ImgOffsetX F=ImgWidth\*0

<1-9-1/5> J152 Foreign Image Info N=ImgOffsetY F=ImgHeight\*0

<1-9-2/5> J152 Foreign Image Info N=ImgWidth F=Width\*1

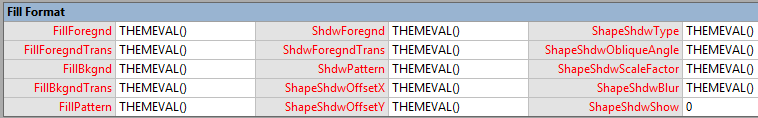
<1-9-3/5> J152 Foreign Image Info N=ImgHeight F=Height\*1

<1-9-4/5> J152 Foreign Image Info N=ClippingPathS

Contains the width and height of an object from another program used in a Microsoft Visio drawing and appears in the ShapeSheet window only for such objects. It also indicates the distance the object's image is offset within its borders.

In versions of Visio products earlier than version 2000, this section was named **Image Info**.

# <1-3> J134 Fill Format S A



<1-3-0/17> J134 Fill Format N=FillForegnd F=THEMEGUARD(RGB(255,127,0))

<1-3-1/17> J134 Fill Format N=FillBkgnd F=THEMEGUARD(SHADE(FillForegnd,LUMDIFF(THEMEVAL("FillColor"),THEMEVAL("FillColor2"))))

<1-3-2/17> J134 Fill Format N=FillPattern F=0

<1-3-3/17> J134 Fill Format N=ShdwForegnd

<1-3-4/17> J134 Fill Format N=ShdwBkgnd F=1

<1-3-5/17> J134 Fill Format N=ShdwPattern F=0

<1-3-6/17> J134 Fill Format N=FillForegndTrans

<1-3-7/17> J134 Fill Format N=FillBkgndTrans

<1-3-8/17> J134 Fill Format N=ShdwForegndTrans

<1-3-9/17> J134 Fill Format N=ShdwBkgndTrans F=0%

<1-3-10/17> J134 Fill Format N=ShapeShdwType

<1-3-11/17> J134 Fill Format N=ShapeShdwOffsetX

<1-3-12/17> J134 Fill Format N=ShapeShdwOffsetY

<1-3-13/17> J134 Fill Format N=ShapeShdwObliqueAngle

<1-3-14/17> J134 Fill Format N=ShapeShdwScaleFactor

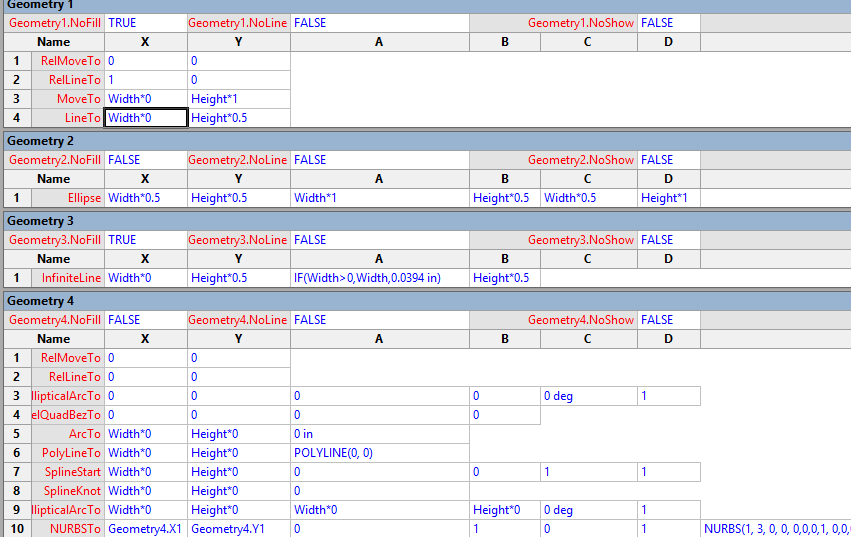
<1-3-15/17> J134 Fill Format N=ShapeShdwBlur

<1-3-16/17> J134 Fill Format N=ShapeShdwShow F=2

Shows the current fill formatting attributes for the shape and the shape's drop shadow, including pattern, foreground color, and background color.

You can set fill formats in the **Format Shape** pane (on the **Home** tab, in the **Shape Styles** group, click **Fill**, and then click **Fill Options**), by applying a fill style, or by making an entry in a cell in the **Fill Format** section.

# <10-0> Geometry 1 S



<10-0/3-0/6> N=Geometry1.NoFill F=TRUE

<10-0/3-1/6> N=Geometry1.NoLine F=FALSE

<10-0/3-2/6> N=Geometry1.NoShow F=FALSE

<10-0/3-3/6> N=Geometry1.NoSnap F=FALSE

<10-0/3-4/6> N=Geometry1.Path

<10-0/3-5/6> N=Geometry1.NoQuickDrag F=FALSE

<10-1> G238 RelMoveTo nCells=2

<10-1/3-0/2> N=Geometry1.X1 F=0.53376659131289

<10-1/3-1/2> N=Geometry1.Y1 F=0.68418793647153

<10-2> G240 RelEllipticalArcTo nCells=6

<10-2/3-0/6> N=Geometry1.X2 F=0.35809091442719

<10-2/3-1/6> N=Geometry1.Y2 F=0.68418793647153

<10-2/3-2/6> N=Geometry1.A2 F=0.5

<10-2/3-3/6> N=Geometry1.B2 F=0.6

<10-2/3-4/6> N=Geometry1.C2 F=0 deg.

<10-2/3-5/6> N=Geometry1.D2 F=Width/Height\*0.89866185162901

Contains rows that list the coordinates of the vertices for the lines and arcs that make up the shape.

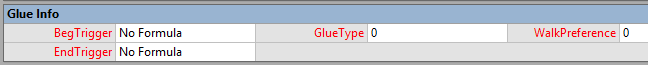
The geometry of a shape can be expressed in multiple **Geometry** sections. Multiple paths can be useful when multiple paths have different properties (e.g. [image clipping](https://learn.microsoft.com/en-us/office/client-developer/visio/clippingpath-cell-foreign-image-info-section) paths).

The **Geometry** section contains the following row types. For details, see the row topics.

| **Row** | **Description** |
| --- | --- |
| MoveTo | Move to a coordinate. |
| LineTo | Draw a line to a coordinate. |
| ArcTo | Draw a circular arc to a coordinate. |
| EllipticalArcTo | Draw an elliptical arc to a coordinate. |
| PolylineTo | Draw a polyline, or consecutive lines, to a coordinate. |
| NURBSTo | Draw a non-uniform rational B-spline (NURBS) to a coordinate. |
| SplineStart | Start a spline. |
| SplineKnot | Draw a spline segment to a knot coordinate. |
| InfiniteLine | Draw an infinite line from one coordinate to another. |
| Ellipse | Draw an ellipse from a center coordinate and a major/minor axis. |
| RelCubBezTo | Draw a cubic Bezier curve relative to the width and height of the shape. |
| RelEllipticalArcTo | Draw an elliptical arc to a coordinate relative to the height and width of the shape. |
| RelLineTo | Draw a line to a coordinate relative the height and width of a shape. |
| RelMoveTo | Move to a coordinate relative to the width and height of the shape. |
| RelQuadBezTo | Draws a quadratic Bezier curve relative to the width and height of the shape. |

To change a row type in this section, right-click the row, and then click **Change Row Type** on the shortcut menu.

# <1-17> Glue Info Section S A



This is part of the Miscellaneous section. The lines are coloured in green. See Miscellaneous section.

<1-17-9/31> J164 Miscellaneous N=GlueType F=0

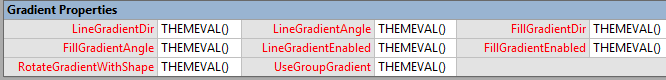
<1-17-10/31> J164 Miscellaneous N=WalkPreference F=1

<1-17-11/31> J164 Miscellaneous N=BegTrigger

<1-17-12/31> J164 Miscellaneous N=EndTrigger

Contains formulas generated for a 1-D shape when the 1-D shape is glued to other shapes.

# <1-26> J242 Gradient Properties S A NGB



<1-26-0/12> J242 Gradient Properties N=LineGradientDir

<1-26-1/12> J242 Gradient Properties N=LineGradientAngle

<1-26-2/12> J242 Gradient Properties N=FillGradientDir F=0

<1-26-3/12> J242 Gradient Properties N=FillGradientAngle F=90 deg.

<1-26-4/12> J242 Gradient Properties N=LineGradientEnabled

<1-26-5/12> J242 Gradient Properties N=FillGradientEnabled F=TRUE

<1-26-6/12> J242 Gradient Properties N=RotateGradientWithShape

<1-26-7/12> J242 Gradient Properties N=UseGroupGradient F=FALSE

<1-26-8/12> J242 Gradient Properties N=Sect1.G27

<1-26-9/12> J242 Gradient Properties N=Sect1.H27

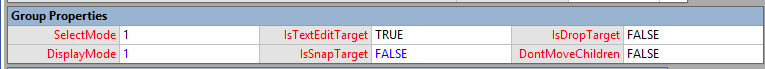
<1-26-10/12> J242 Gradient Properties N=Sect1.I27

<1-26-11/12> J242 Gradient Properties N=Sect1.J27

Shows the properties for any gradient fill or line color effects applied to the shape. This section also includes cells that control whether a shape's gradient rotates with the shape or whether the shape assumes an applied gradient when grouped with other shapes.

You can set gradient settings in the **Format Shape** dialog box (**Home** > **Shape Styles** > **Fill** > **Fill Options** > **Fill** > **Gradient fill**).

# <1-22> J190 Group S A



<1-22-0/10> J190 Group N=SelectMode F=1

<1-22-1/10> J190 Group N=DisplayMode F=1

<1-22-2/10> J190 Group N=IsDropTarget F=FALSE

<1-22-3/10> J190 Group N=IsSnapTarget F=FALSE

<1-22-4/10> J190 Group N=IsTextEditTarget F=TRUE

<1-22-5/10> J190 Group N=DontMoveChildren F=FALSE

<1-22-6/10> J190 Group N=Sect1.E23

<1-22-7/10> J190 Group N=Sect1.F23

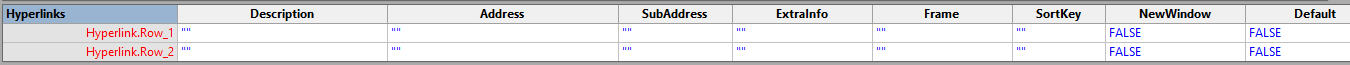
<1-22-8/10> J190 Group N=Sect1.G23

<1-22-9/10> J190 Group N=Sect1.H23

Contains cells for a group that control how you add shapes to a group, move members of a group, and select groups.

You can also set these values on the **Behavior** tab in the **Behavior** dialog box (click **Behavior** in the **Shape Design** group on the [Developer](https://learn.microsoft.com/en-us/office/client-developer/visio/run-in-developer-mode-display-the-developer-tab) tab).

# <244-0> J196 Hyperlinks SPD Ca



<244-0/2-0/16> N=Hyperlink.Row\_1

<244-0/2-1/16> N=Hyperlink.Row\_1.Address

<244-0/2-2/16> N=Hyperlink.Row\_1.SubAddress

<244-0/2-3/16> N=Hyperlink.Row\_1.ExtraInfo

<244-0/2-4/16> N=Hyperlink.Row\_1.Frame

<244-0/2-5/16> N=Hyperlink.Row\_1.NewWindow F=FALSE

<244-0/2-6/16> N=Hyperlink.Row\_1E15

<244-0/2-7/16> N=Hyperlink.Row\_1.Default F=FALSE

<244-0/2-8/16> N=Hyperlink.Row\_1.Invisible F=FALSE

<244-0/2-9/16> N=Hyperlink.Row\_1H15

<244-0/2-10/16> N=Hyperlink.Row\_1I15

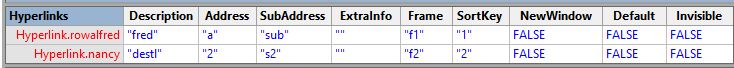
<244-0/2-11/16> N=Hyperlink.Row\_1J15

<244-0/2-12/16> N=Hyperlink.Row\_1K15

<244-0/2-13/16> N=Hyperlink.Row\_1L15

<244-0/2-14/16> N=Hyperlink.Row\_1M15

<244-0/2-15/16> N=Hyperlink.Row\_1.SortKey



Section=244/244 [J196 Hyperlinks] nrows=2

<244-0> J196 Hyperlinks 0 nCells=16 nrows=2

<244-0/2-0/16> N=Hyperlink.Row\_15 F="fred" R=fred

<244-0/2-1/16> N=Hyperlink.Row\_15.Address F="a" R=a

<244-0/2-2/16> N=Hyperlink.Row\_15.SubAddress F="sub" R=sub

<244-0/2-3/16> N=Hyperlink.Row\_15.ExtraInfo F="" R=

<244-0/2-4/16> N=Hyperlink.Row\_15.Frame F="f1" R=f1

<244-0/2-5/16> N=Hyperlink.Row\_15.NewWindow F=FALSE R=FALSE

<244-0/2-6/16> N=Hyperlink.Row\_15E679 F= R=FALSE

<244-0/2-7/16> N=Hyperlink.Row\_15.Default F=FALSE R=FALSE

<244-0/2-8/16> N=Hyperlink.Row\_15.Invisible F=FALSE R=FALSE

<244-0/2-9/16> N=Hyperlink.Row\_15H679 F= R=FALSE

<244-0/2-10/16> N=Hyperlink.Row\_15I679 F= R=FALSE

<244-0/2-11/16> N=Hyperlink.Row\_15J679 F= R=FALSE

<244-0/2-12/16> N=Hyperlink.Row\_15K679 F= R=FALSE

<244-0/2-13/16> N=Hyperlink.Row\_15L679 F= R=0.0000

<244-0/2-14/16> N=Hyperlink.Row\_15M679 F= R=

<244-0/2-15/16> N=Hyperlink.Row\_15.SortKey F="1" R=1

<244-1/2-0/16> N=Hyperlink.Row\_16 F="destl" R=destl

<244-1/2-1/16> N=Hyperlink.Row\_16.Address F="2" R=2

<244-1/2-2/16> N=Hyperlink.Row\_16.SubAddress F="s2" R=s2

<244-1/2-3/16> N=Hyperlink.Row\_16.ExtraInfo F="" R=

<244-1/2-4/16> N=Hyperlink.Row\_16.Frame F="f2" R=f2

<244-1/2-5/16> N=Hyperlink.Row\_16.NewWindow F=FALSE R=FALSE

<244-1/2-6/16> N=Hyperlink.Row\_16E680 F= R=FALSE

<244-1/2-7/16> N=Hyperlink.Row\_16.Default F=FALSE R=FALSE

<244-1/2-8/16> N=Hyperlink.Row\_16.Invisible F=FALSE R=FALSE

<244-1/2-9/16> N=Hyperlink.Row\_16H680 F= R=FALSE

<244-1/2-10/16> N=Hyperlink.Row\_16I680 F= R=FALSE

<244-1/2-11/16> N=Hyperlink.Row\_16J680 F= R=FALSE

<244-1/2-12/16> N=Hyperlink.Row\_16K680 F= R=FALSE

<244-1/2-13/16> N=Hyperlink.Row\_16L680 F= R=0.0000

<244-1/2-14/16> N=Hyperlink.Row\_16M680 F= R=

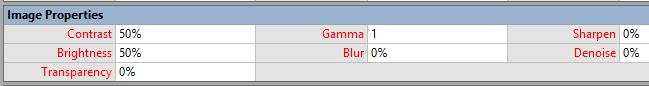
<244-1/2-15/16> N=Hyperlink.Row\_16.SortKey F="2" R=2

Contains cells for creating multiple jumps between a shape or drawing page and another drawing page, another file, or a website.

To define a hyperlink, enter values in the cells of this section, or use the **Hyperlinks** dialog box (click **Hyperlink** on the **Insert** tab).

You can add the Hyperlinks section to a shape, group, page, or foreign object in a ShapeSheet window.

# <1-21>J189 Image Properties S A



<1-21> nCells=9 RT=J189 Image

<1-21-0/9> N=Gamma F=1 R=1.0000

<1-21-1/9> N=Contrast F=50% R=50.0000%

<1-21-2/9> N=Brightness F=50% R=50.0000%

<1-21-3/9> N=Sharpen F=0% R=0.0000%

<1-21-4/9> N=Blur F=0% R=0.0000%

<1-21-5/9> N=Denoise F=0% R=0.0000%

<1-21-6/9> N=Transparency F=0% R=0.0000%

<1-21-7/9> N=\_Unused8F F=0% R=0.0000%

<1-21-8/9> N=\_Unused90 F=0 R=0

Contains the gamma, brightness, contrast, blur, sharpen, and denoise values for bitmaps (an image that consists of pixels) and appears in the ShapeSheet window only for such objects.

# <1-167> Layer Membership Section P



<H2> 167 J167 LayerMember

<1-6> nCells=1 RT=167 J167 LayerMember

<1-6-0/1> N=LayerMember F="" R=

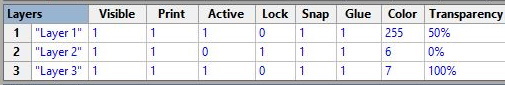
Contains one row that lists each layer to which the shape is assigned.

The layer assignment is shown as an index to the list of layers on the page. The layer index corresponds to the order of the layers in the **Layer Properties** dialog box (on the **Home** tab, in the **Editing** group, click **Layers**, and then click **Layer Properties**). The first name in the dialog box is layer 0, the second is layer 1, and so forth.

If a shape is assigned to more than one layer, each layer index appears in the Layer Membership cell separated by a semicolon.

To refer to the value of the Layer Membership cell in a formula, use the name **LayerMember**.

# <241-0> J168 J168 Layers Section P Cb



<241-0> nCells=12 RT=168 J168 Layers

<241-0-0/12> N=Layers.Name F="Layer 1" R=Layer 1

<241-0-1/12> N=Layers.Password F= R=

<241-0-2/12> N=Layers.Color F=255 R=255

<241-0-3/12> N=Layers.Status F=0 R=0

<241-0-4/12> N=Layers.Visible F=1 R=1

<241-0-5/12> N=Layers.Print F=1 R=1

<241-0-6/12> N=Layers.Active F=1 R=1

<241-0-7/12> N=Layers.Locked F=0 R=0

<241-0-8/12> N=Layers.Snap F=1 R=1

<241-0-9/12> N=Layers.Glue F=1 R=1

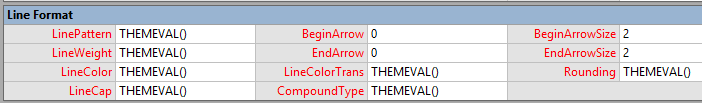
<241-0-10/12> N=Layers.NameUniv F="Layer 1" R=Layer 1

<241-0-11/12> N=Layers.ColorTrans F=50% R=50.0000%

Shows all layers defined for the page and the properties set for each layer.

This section is a page property that can be viewed only in the ShapeSheet window for a page. Its cells correspond to the options in the **Layer Properties** dialog box (on the **Home** tab, in the **Editing** group, click **Layers**, and then click **Layer Properties**).

# <1-2> J133 Line Format Section S A



<1-2-0/11> J133 Line Format N=LineWeight

<1-2-1/11> J133 Line Format N=LineColor

<1-2-2/11> J133 Line Format N=LinePattern

<1-2-3/11> J133 Line Format N=Rounding

<1-2-4/11> J133 Line Format N=EndArrowSize F=2

<1-2-5/11> J133 Line Format N=BeginArrow F=0

<1-2-6/11> J133 Line Format N=EndArrow F=0

<1-2-7/11> J133 Line Format N=LineCap

<1-2-8/11> J133 Line Format N=BeginArrowSize F=2

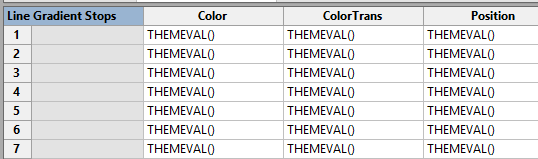
<1-2-9/11> J133 Line Format N=LineColorTrans

<1-2-10/11> J133 Line Format N=CompoundType F=3

Contains cells that control line attributes for a shape, such as pattern, weight, and color. They determine whether the line ends are formatted (for example, with an arrowhead), the size of line end formats, radius of the rounding circle applied to the line, and line cap style (round or square).

You can set line formats by using the **Format Shape** pane (on the **Home** tab, in the **Shape Styles** group, click **Line**, click **Line Options**), by applying a line style, or by entering a formula in a Line Format cell.

# <248-0> J247 LineGradient Section S Cc



<248-0/1-0/3> N=LineGradientStops.GradientStopColor F=1

<248-0/1-1/3> N=LineGradientStops.GradientStopColorTrans F=0%

<248-0/1-2/3> N=LineGradientStops.GradientStopPosition F=0%

Shows the color values for the line gradient applied to the shape.

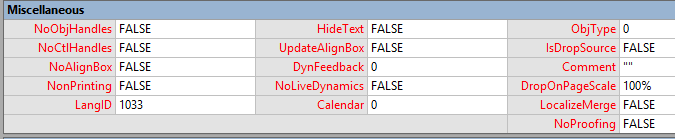
Each [Gradient Stop Row (Line Gradient Section)](https://learn.microsoft.com/en-us/office/client-developer/visio/gradient-stop-row-line-gradient-section) row in the section represents a gradient stop in the line. This section can be empty.

Only the first 10 rows contained in the section are used by the gradient settings. All **Gradient Stop** rows beyond 10 are ignored.

You can set the line gradient properties in the **Line** section of the **Format Shape** pane (on the **Home** tab, in the **Shape Styles** group, click **Line**, and then click **Line Options**).

You can enable or disable a gradient line color for the shape by changing the value of the [LineGradientEnabled Cell (Gradient Properties Section)](https://learn.microsoft.com/en-us/office/client-developer/visio/linegradientenabled-cell-gradient-properties-section) cell.

# <1-17> J164 Miscellaneous Section S A



<1-17-0/31> J164 Miscellaneous N=NoObjHandles F=FALSE

<1-17-1/31> J164 Miscellaneous N=NonPrinting F=FALSE

<1-17-2/31> J164 Miscellaneous N=NoCtlHandles F=FALSE

<1-17-3/31> J164 Miscellaneous N=NoAlignBox F=FALSE

<1-17-4/31> J164 Miscellaneous N=UpdateAlignBox F=FALSE

<1-17-5/31> J164 Miscellaneous N=HideText F=FALSE

<1-17-6/31> J164 Miscellaneous N=\_Unused83 F=FALSE

<1-17-7/31> J164 Miscellaneous N=ShapeTabStop F=FALSE

<1-17-8/31> J164 Miscellaneous N=DynFeedback F=0

<1-17-9/31> J164 Miscellaneous N=GlueType F=0

<1-17-10/31> J164 Miscellaneous N=WalkPreference F=1

<1-17-11/31> J164 Miscellaneous N=BegTrigger

<1-17-12/31> J164 Miscellaneous N=EndTrigger

<1-17-13/31> J164 Miscellaneous N=ObjType F=1

<1-17-14/31> J164 Miscellaneous N=\_Unused78 F=0

<1-17-15/31> J164 Miscellaneous N=\_Unused79 F=0

<1-17-16/31> J164 Miscellaneous N=Comment

<1-17-17/31> J164 Miscellaneous N=IsDropSource F=FALSE

<1-17-18/31> J164 Miscellaneous N=NoLiveDynamics F=FALSE

<1-17-19/31> J164 Miscellaneous N=LocalizeMerge F=FALSE

<1-17-20/31> J164 Miscellaneous N=NoProofing F=FALSE

<1-17-21/31> J164 Miscellaneous N=Sect1.T18 F=FALSE

<1-17-22/31> J164 Miscellaneous N=Sect1.U18 F=FALSE

<1-17-23/31> J164 Miscellaneous N=Sect1.V18 F=FALSE

<1-17-24/31> J164 Miscellaneous N=Sect1.W18 F=FALSE

<1-17-25/31> J164 Miscellaneous N=Calendar F=0

<1-17-26/31> J164 Miscellaneous N=LangID F=1033

<1-17-27/31> J164 Miscellaneous N=ShapeKeywords

<1-17-28/31> J164 Miscellaneous N=DropOnPageScale F=100%

<1-17-29/31> J164 Miscellaneous N=Sect1.AD18

<1-17-30/31> J164 Miscellaneous N=Sect1.AE18

The lines in green show up as the Glue Section.

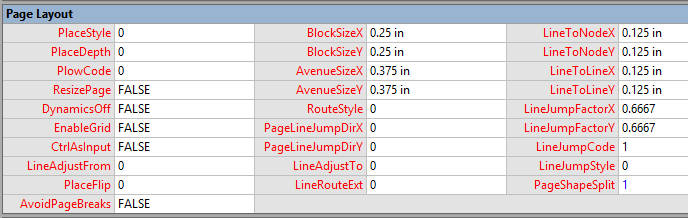
Contains various attributes of shapes and groups, such as control selection highlighting and visibility.

You can set the value of many of the cells in this section in the ShapeSheet window, or on the **Behavior** tab in the **Behavior** dialog box (click **Behavior** in the **Shape Design** group on the [Developer](https://learn.microsoft.com/en-us/office/client-developer/visio/run-in-developer-mode-display-the-developer-tab) tab). in the drawing window. You can set other group properties using cells in the Group Properties section.

In Visio version 5.0 products, this section included **ObjInteract** and **ObjBehavior** cells. The behavior in the **ObjInteract** cell is now mapped to the following cells in the Shape Layout section: **ShapeFixedCode**, **ShapePermeableX**, **ShapePermeableY**, and **ShapePermeablePlace**. The behavior in the ObjBehavior cell is now mapped to the **ConFixedCode** and **ShapeRouteStyle** cells.

In Visio version 5.0 Japanese products, this section included a **VerticalText** cell. In Visio version 2000 products and later, the value of this cell is stored in the **TextDirection** cell in the **Text Block Format** section.

# <1-24> J192 Page Layout Section P A



<1-24-0/31> J192 Page Layout N=ResizePage F=FALSE

<1-24-1/31> J192 Page Layout N=EnableGrid F=FALSE

<1-24-2/31> J192 Page Layout N=DynamicsOff F=FALSE

<1-24-3/31> J192 Page Layout N=CtrlAsInput F=FALSE

<1-24-4/31> J192 Page Layout N=AvoidPageBreaks F=TRUE

<1-24-5/31> J192 Page Layout N=Sect1.D25 F=FALSE

<1-24-6/31> J192 Page Layout N=Sect1.E25 F=FALSE

<1-24-7/31> J192 Page Layout N=Sect1.F25 F=FALSE

<1-24-8/31> J192 Page Layout N=PlaceStyle F=0

<1-24-9/31> J192 Page Layout N=RouteStyle F=1

<1-24-10/31> J192 Page Layout N=PlaceDepth F=0

<1-24-11/31> J192 Page Layout N=PlowCode F=0

<1-24-12/31> J192 Page Layout N=LineJumpCode F=1

<1-24-13/31> J192 Page Layout N=LineJumpStyle F=0

<1-24-14/31> J192 Page Layout N=PageLineJumpDirX F=0

<1-24-15/31> J192 Page Layout N=PageLineJumpDirY F=0

<1-24-16/31> J192 Page Layout N=LineToNodeX F=0.125 in.

<1-24-17/31> J192 Page Layout N=LineToNodeY F=0.125 in.

<1-24-18/31> J192 Page Layout N=BlockSizeX F=0.25 in.

<1-24-19/31> J192 Page Layout N=BlockSizeY F=0.25 in.

<1-24-20/31> J192 Page Layout N=AvenueSizeX F=0.375 in.

<1-24-21/31> J192 Page Layout N=AvenueSizeY F=0.375 in.

<1-24-22/31> J192 Page Layout N=LineToLineX F=0.125 in.

<1-24-23/31> J192 Page Layout N=LineToLineY F=0.125 in.

<1-24-24/31> J192 Page Layout N=LineJumpFactorX F=0.66666666666667

<1-24-25/31> J192 Page Layout N=LineJumpFactorY F=0.66666666666667

<1-24-26/31> J192 Page Layout N=LineAdjustFrom F=0

<1-24-27/31> J192 Page Layout N=LineAdjustTo F=0

<1-24-28/31> J192 Page Layout N=PlaceFlip F=0

<1-24-29/31> J192 Page Layout N=LineRouteExt F=1

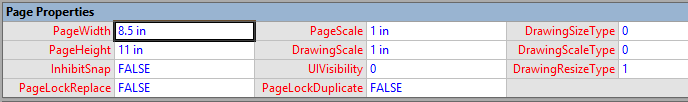
<1-24-30/31> J192 Page Layout N=PageShapeSplit F=1

Contains cells that control the page settings for shapes and connectors, such as the spacing between all shapes on the page, spacing between all connectors on the page, and routing style for all connectors on the page.

To override the page defaults for a specific shape, use the cells in the **Shape Layout** section.

You can also set the values of the cells in this section on the **Layout and Routing** tab in the **Page Setup** dialog box (on the **Design** tab, click the dialog box launcher in the **Page Setup** group).

# <1-10> J146 Page Properties Section P A



<1-10-0/40> J146 Page Properties N=PageWidth F=8.5 in.

<1-10-1/40> J146 Page Properties N=PageHeight F=11 in.

<1-10-2/40> J146 Page Properties N=ShdwOffsetX F=0.125 in.

<1-10-3/40> J146 Page Properties N=ShdwOffsetY F=-0.125 in.

<1-10-4/40> J146 Page Properties N=PageScale F=1 in.

<1-10-5/40> J146 Page Properties N=DrawingScale F=1 in.

<1-10-6/40> J146 Page Properties N=DrawingSizeType F=2

<1-10-7/40> J146 Page Properties N=DrawingScaleType F=0

<1-10-8/40> J146 Page Properties N=\_Unused5F F=0

<1-10-9/40> J146 Page Properties N=\_Unused60 F=0

<1-10-10/40> J146 Page Properties N=Sect1.I11

<1-10-11/40> J146 Page Properties N=Sect1.J11 F=0

<1-10-12/40> J146 Page Properties N=\_UpdateNotes

<1-10-13/40> J146 Page Properties N=Sect1.L11 F=0

<1-10-14/40> J146 Page Properties N=Sect1.M11 F=0

<1-10-15/40> J146 Page Properties N=Sect1.N11

<1-10-16/40> J146 Page Properties N=Sect1.O11

<1-10-17/40> J146 Page Properties N=Sect1.P11

<1-10-18/40> J146 Page Properties N=Sect1.Q11

<1-10-19/40> J146 Page Properties N=Sect1.R11

<1-10-20/40> J146 Page Properties N=Sect1.S11

<1-10-21/40> J146 Page Properties N=Sect1.T11

<1-10-22/40> J146 Page Properties N=Sect1.U11

<1-10-23/40> J146 Page Properties N=Sect1.V11

<1-10-24/40> J146 Page Properties N=Sect1.W11

<1-10-25/40> J146 Page Properties N=Sect1.Z11

<1-10-26/40> J146 Page Properties N=InhibitSnap F=FALSE

<1-10-27/40> J146 Page Properties N=PageLockReplace F=FALSE

<1-10-28/40> J146 Page Properties N=PageLockDuplicate F=FALSE

<1-10-29/40> J146 Page Properties N=Sect1.AD11

<1-10-30/40> J146 Page Properties N=Sect1.AE11

<1-10-31/40> J146 Page Properties N=Sect1.AF11

<1-10-32/40> J146 Page Properties N=Sect1.AG11

<1-10-33/40> J146 Page Properties N=Sect1.AH11

<1-10-34/40> J146 Page Properties N=UIVisibility F=0

<1-10-35/40> J146 Page Properties N=ShdwType F=0

<1-10-36/40> J146 Page Properties N=ShdwObliqueAngle F=0 deg.

<1-10-37/40> J146 Page Properties N=ShdwScaleFactor F=100%

<1-10-38/40> J146 Page Properties N=DrawingResizeType F=2

<1-10-39/40> J146 Page Properties N=Sect1.AN11

Contains cells that control page attributes, such as the page width, height, and scale.

You can set the values of page properties by making an entry in the **Page Properties** section cell, or by using the **Page Setup** dialog box (on the **Design** tab, click the dialog box launcher in the **Page Setup** group).

# <4-0> J149 Paragraph Section S Cc



<4-0/1-0/15> N=Para.IndFirst F=0 in.

<4-0/1-1/15> N=Para.IndLeft F=0 in.

<4-0/1-2/15> N=Para.IndRight F=0 in.

<4-0/1-3/15> N=Para.SpLine F=-120%

<4-0/1-4/15> N=Para.SpBefore F=0 pt.

<4-0/1-5/15> N=Para.SpAfter F=0 pt.

<4-0/1-6/15> N=Para.HorzAlign F=1

<4-0/1-7/15> N=Para.Bullet F=0

<4-0/1-8/15> N=Para.BulletStr

<4-0/1-9/15> N=Para.BulletFont F=0

<4-0/1-10/15> N=Para.\_Unused10 F=0

<4-0/1-11/15> N=Para.BulletFontSize F=-100%

<4-0/1-12/15> N=Para.TextPosAfterBullet F=0 in.

<4-0/1-13/15> N=Para.Flags F=0

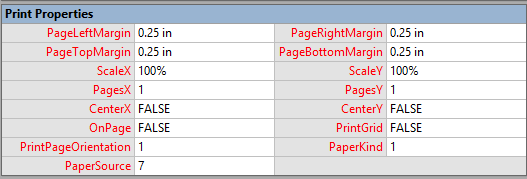
<4-0/1-14/15> N=Para.M1

Shows the paragraph formatting attributes for the shape's text, such as indents, line spacing, bullets, and horizontal alignment of paragraphs.

Paragraph formats can be set by making an entry in a **Paragraph** section cell by applying a text style, or by entering values in the **Text** dialog box (on the **Home** tab, click the dialog box launcher in the **Font** group).

The **Paragraph** section does not include cells for tab settings. To set tabs for a shape's text, use the **Text** dialog box.

# <1-25> J200 Print Properties Section P A



<1-25-0/19> J200 Print Properties N=PageLeftMargin F=0.25 in.

<1-25-1/19> J200 Print Properties N=PageRightMargin F=0.25 in.

<1-25-2/19> J200 Print Properties N=PageTopMargin F=0.25 in.

<1-25-3/19> J200 Print Properties N=PageBottomMargin F=0.25 in.

<1-25-4/19> J200 Print Properties N=ScaleX F=100%

<1-25-5/19> J200 Print Properties N=ScaleY F=100%

<1-25-6/19> J200 Print Properties N=PagesX F=1

<1-25-7/19> J200 Print Properties N=PagesY F=1

<1-25-8/19> J200 Print Properties N=CenterX F=FALSE

<1-25-9/19> J200 Print Properties N=CenterY F=FALSE

<1-25-10/19> J200 Print Properties N=OnPage F=FALSE

<1-25-11/19> J200 Print Properties N=PrintGrid F=TRUE

<1-25-12/19> J200 Print Properties N=Sect1.K26

<1-25-13/19> J200 Print Properties N=Sect1.L26

<1-25-14/19> J200 Print Properties N=Sect1.M26

<1-25-15/19> J200 Print Properties N=Sect1.N26

<1-25-16/19> J200 Print Properties N=PrintPageOrientation F=1

<1-25-17/19> J200 Print Properties N=PaperKind F=1

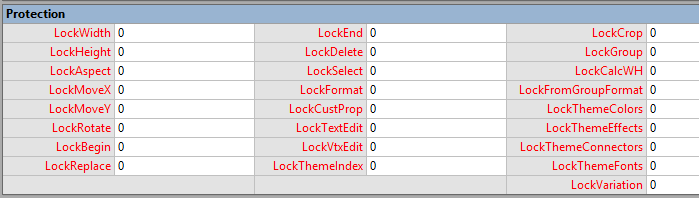
<1-25-18/19> J200 Print Properties N=PaperSource F=7

Contains the cells that control how the drawing page is formatted (appears) on the printer page.

Use the **Print Properties** section to control printing at the page level. These settings are per page and are independent of the drawing page settings, for example, a drawing page that uses landscape orientation can be printed using portrait orientation. Also, documents can be printed using a combination of orientations.

The settings in the **Print Properties** section correspond to the values set on the **Print Setup** tab in the **Page Setup** dialog box (on the **Design** tab, click the dialog box launcher in the **Page Setup** group). See the **Page Properties** section for settings that apply to the drawing page.

# <1-15> J160 Protection Section S A



<1-15-0/25> J160 Protection N=LockWidth F=0

<1-15-1/25> J160 Protection N=LockHeight F=0

<1-15-2/25> J160 Protection N=LockMoveX F=0

<1-15-3/25> J160 Protection N=LockMoveY F=0

<1-15-4/25> J160 Protection N=LockAspect F=0

<1-15-5/25> J160 Protection N=LockDelete F=0

<1-15-6/25> J160 Protection N=LockBegin F=0

<1-15-7/25> J160 Protection N=LockEnd F=0

<1-15-8/25> J160 Protection N=LockRotate F=0

<1-15-9/25> J160 Protection N=LockCrop F=0

<1-15-10/25> J160 Protection N=LockVtxEdit F=0

<1-15-11/25> J160 Protection N=LockTextEdit F=0

<1-15-12/25> J160 Protection N=LockFormat F=0

<1-15-13/25> J160 Protection N=LockGroup F=0

<1-15-14/25> J160 Protection N=LockCalcWH F=0

<1-15-15/25> J160 Protection N=LockSelect F=0

<1-15-16/25> J160 Protection N=LockCustProp F=0

<1-15-17/25> J160 Protection N=LockFromGroupFormat F=0

<1-15-18/25> J160 Protection N=LockThemeColors F=0

<1-15-19/25> J160 Protection N=LockThemeEffects F=0

<1-15-20/25> J160 Protection N=LockThemeConnectors F=0

<1-15-21/25> J160 Protection N=LockThemeFonts F=1

<1-15-22/25> J160 Protection N=LockThemeIndex F=0

<1-15-23/25> J160 Protection N=LockReplace F=0

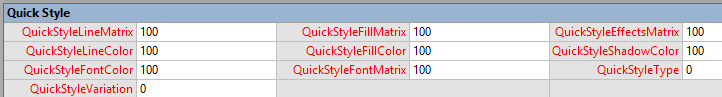
<1-15-24/25> J160 Protection N=LockVariation F=0

Shows the current lock settings set with the **Protection** command ( [Developer](https://learn.microsoft.com/en-us/office/client-developer/visio/run-in-developer-mode-display-the-developer-tab) tab) plus a few additional locks that can be set only in a ShapeSheet window.

Locking helps prevent inadvertent changes to the shape but does not prevent values from being reset in other circumstances. It also does not protect against changes made in the ShapeSheet window.

To protect a formula from being changed, use the **GUARD** function.

# <1-27> J243 Quick Style Section A NGB



<1-27-0/10> J243 Quick Style N=QuickStyleLineColor F=100

<1-27-1/10> J243 Quick Style N=QuickStyleFillColor F=100

<1-27-2/10> J243 Quick Style N=QuickStyleShadowColor F=100

<1-27-3/10> J243 Quick Style N=QuickStyleFontColor F=100

<1-27-4/10> J243 Quick Style N=QuickStyleLineMatrix F=1

<1-27-5/10> J243 Quick Style N=QuickStyleFillMatrix F=1

<1-27-6/10> J243 Quick Style N=QuickStyleEffectsMatrix F=1

<1-27-7/10> J243 Quick Style N=QuickStyleFontMatrix F=1

<1-27-8/10> J243 Quick Style N=QuickStyleType F=0

<1-27-9/10> J243 Quick Style N=QuickStyleVariation F=0

Shows the current Quick Style formatting values applied to the shape, including line color and style, fill color and style, shadow color, effects, font, and style type.

You can Quick Style selecting the shape and then selecting a new Quick Style (on the **Home** tab, in the **Shape Styles** group, click **More**, and then select another Quick Style from the gallery).

# <245-0>Reviewer Section D



<245-0> J197 Reviewer nCells=5

<245-0-0/5> N=Reviewer.Name F="Validation Explorer" R=Validation Explorer

<245-0-1/5> N=Reviewer.Initials F="vex" R=vex

<245-0-2/5> N=Reviewer.Color F=RGB(255,0,0) R=RGB(255, 0, 0)

<245-0-3/5> N=Reviewer.ReviewerID F=1 R=1.0000

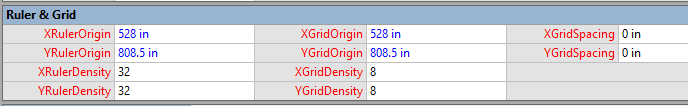
<245-0-4/5> N=Reviewer.CurrentIndex F=1 R=1

The reviewer section contains one row for each reviewer who has added markup to the document, even if all of a particular reviewer's markup is deleted.

The reviewer section is contained in the ShapeSheet of a document. To view a document's ShapeSheet, on the [Developer](https://learn.microsoft.com/en-us/office/client-developer/visio/run-in-developer-mode-display-the-developer-tab) tab, in the **Show/Hide** group, select **Drawing Explorer**, right-click the document name, and then click **Show ShapeSheet**.

For more information about comments that are added to a document as a part of markup, see the **Annotation** section.

# <1-18> J183 Ruler & Grid Section P A



<1-18-0/12> J183 Ruler N=XRulerDensity F=32

<1-18-1/12> J183 Ruler N=YRulerDensity F=32

<1-18-2/12> J183 Ruler N=XRulerSpacing F=0 in.

<1-18-3/12> J183 Ruler N=YRulerSpacing F=0 in.

<1-18-4/12> J183 Ruler N=XRulerOrigin F=656 in.

<1-18-5/12> J183 Ruler N=YRulerOrigin F=945 in.

<1-18-6/12> J183 Ruler N=XGridDensity F=8

<1-18-7/12> J183 Ruler N=YGridDensity F=8

<1-18-8/12> J183 Ruler N=XGridSpacing F=0 in.

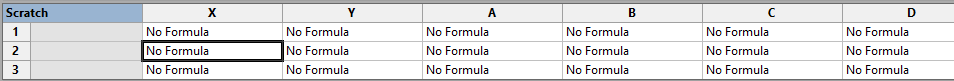
<1-18-9/12> J183 Ruler N=YGridSpacing F=0 in.

<1-18-10/12> J183 Ruler N=XGridOrigin F=656 in.

<1-18-11/12> J183 Ruler N=YGridOrigin F=945 in.

Shows the current settings of the page's rulers and grid.

This section is a page property that can be viewed only in the ShapeSheet window for a page. The cells it contains correspond to the settings in the **Ruler & Grid** dialog box (on the **View** tab, in the **Show/Hide** group, click the dialog box launcher).<6-0> J158 Scratch SPD Cc



<6-0/3-0/6> N=Scratch.X1

<6-0/3-1/6> N=Scratch.Y1

<6-0/3-2/6> N=Scratch.A1

<6-0/3-3/6> N=Scratch.B1

<6-0/3-4/6> N=Scratch.C1

<6-0/3-5/6> N=Scratch.D1

<6-1> J158 Scratch 1/3 nCells=6

<6-1/3-0/6> N=Scratch.X2

<6-1/3-1/6> N=Scratch.Y2

<6-1/3-2/6> N=Scratch.A2

<6-1/3-3/6> N=Scratch.B2

<6-1/3-4/6> N=Scratch.C2

<6-1/3-5/6> N=Scratch.D2

<6-2> J158 Scratch 2/3 nCells=6

<6-2/3-0/6> N=Scratch.X3

<6-2/3-1/6> N=Scratch.Y3

<6-2/3-2/6> N=Scratch.A3

<6-2/3-3/6> N=Scratch.B3

<6-2/3-4/6> N=Scratch.C3

<6-2/3-5/6> N=Scratch.D3

A work area for entering and testing formulas that can be referred to by other cells.

You can add this section by using the **Insert Section** dialog box. Right-click in the ShapeSheet window, and then click **Insert Section**.

The **Scratch** section is typically used to isolate repeated complex calculations. If your solution has a well-defined purpose, it's wiser to use a cell in the **User-Defined Cells** section for clarity because User cells can be named.

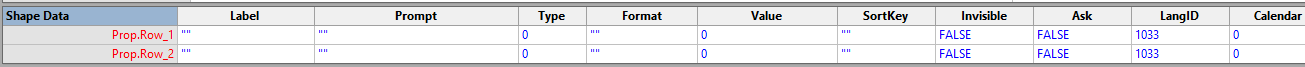
Cells in the **Scratch** section use units in two different ways. X and Y cells use drawing units; A through D cells don't use units. (In C programmers' jargon, X and Y cells are "typed," and cells A through D are "void.") The **Scratch X** and **Scratch Y** cells are often used for deriving *x-* and *y-* coordinates, such as **PinX** and **PinY**, or the X and Y cells found in a **Geometry** section cell. Scratch cells A through D can display whatever units you specify.

A further difference is the way these cells store point values. A point in Visio is a single data package for an ( *x,y*) coordinate. When a formula returns a point value, that value is interpreted in one of three ways, depending on the ShapeSheet cell the formula is in. Cells that relate to *x* -coordinates (for example, **PinX**, or cells in the X column of a **Geometry** section) extract just the *x* -coordinate part of a point value. Cells that relate to *y* -coordinates extract just the *y* -coordinate part of a point value.

For example, Visio extracts the formula PNT(3,4) in these three ways.

| **Cell** | **If you enter** | **Visio treats it as** | **Result** |
| --- | --- | --- | --- |
| X | PNT(3,4) | PNTX(PNT(3,4)) | 3.0000 in. |
| Y | PNT(3,4) | PNTY(PNT(3,4)) | 4.0000 in. |
| A-D | PNT(3,4) | PNT(3,4) | PNT(3.0000 in., 4.0000 in.) |

# <243-0> J182 Shape Data Section SPD Ca



Formerly Known As Custom Properties, which is why the prefix is Prop.

<243-0/2-0/16> N=Prop.Row\_1 F=0

<243-0/2-1/16> N=Prop.Row\_1.Prompt

<243-0/2-2/16> N=Prop.Row\_1.Label

<243-0/2-3/16> N=Prop.Row\_1.Format

<243-0/2-4/16> N=Prop.Row\_1.SortKey

<243-0/2-5/16> N=Prop.Row\_1.Type F=0

<243-0/2-6/16> N=Prop.Row\_1.Invisible F=FALSE

<243-0/2-7/16> N=Prop.Row\_1.Verify F=FALSE

<243-0/2-8/16> N=Prop.Row\_1.DataLinked F=FALSE

<243-0/2-9/16> N=Prop.Row\_1H15

<243-0/2-10/16> N=Prop.Row\_1I15

<243-0/2-11/16> N=Prop.Row\_1J15

<243-0/2-12/16> N=Prop.Row\_1K15

<243-0/2-13/16> N=Prop.Row\_1L15

<243-0/2-14/16> N=Prop.Row\_1.LangID F=1033

<243-0/2-15/16> N=Prop.Row\_1.Calendar F=0

<243-1/2-0/16> N=Prop.Row\_2 F=0

<243-1/2-1/16> N=Prop.Row\_2.Prompt

<243-1/2-2/16> N=Prop.Row\_2.Label

<243-1/2-3/16> N=Prop.Row\_2.Format

<243-1/2-4/16> N=Prop.Row\_2.SortKey

<243-1/2-5/16> N=Prop.Row\_2.Type F=0

<243-1/2-6/16> N=Prop.Row\_2.Invisible F=FALSE

<243-1/2-7/16> N=Prop.Row\_2.Verify F=FALSE

<243-1/2-8/16> N=Prop.Row\_2.DataLinked F=FALSE

<243-1/2-9/16> N=Prop.Row\_2H16

<243-1/2-10/16> N=Prop.Row\_2I16

<243-1/2-11/16> N=Prop.Row\_2J16

<243-1/2-12/16> N=Prop.Row\_2K16

<243-1/2-13/16> N=Prop.Row\_2L16

<243-1/2-14/16> N=Prop.Row\_2.LangID F=1033

<243-1/2-15/16> N=Prop.Row\_2.Calendar F=0

Contains one row for each item of shape data and cells for associating data with a shape.

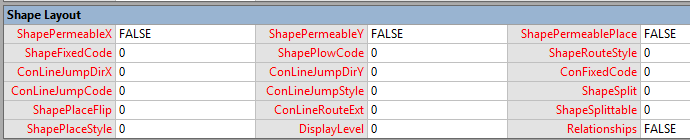
Shape Data can be defined by using the **Shape Data** window or the cells in the Shape Data section.

**Notes:**

In previous versions of Visio, the **Shape Data** section was called **Custom Properties**.

* In the ShapeSheet window, you can define shape data in the **Shape Data** section. Right-click in the ShapeSheet window and click **Insert Section**, and then select the **Shape Data** check box. You can add as many Prop. name rows as you need, assign meaningful names to the rows, and set cell values.
* In the drawing window, you can define shape data in the **Shape Data** window. On the **View** tab, in the **Show/Hide** group, click **Task Panes**, and then click **Shape Data**. To access the **Define Shape Data** dialog box, right-click the **Shape Data** window, and then click **Define Shape Data**.

# <1-23> J191 Shape Layout Section S A



<1-23-0/25> J191 Shape Layout N=ShapePermeableX F=FALSE

<1-23-1/25> J191 Shape Layout N=ShapePermeableY F=FALSE

<1-23-2/25> J191 Shape Layout N=ShapePermeablePlace F=FALSE

<1-23-3/25> J191 Shape Layout N=Relationships F=FALSE

<1-23-4/25> J191 Shape Layout N=Sect1.C24 F=FALSE

<1-23-5/25> J191 Shape Layout N=Sect1.D24 F=FALSE

<1-23-6/25> J191 Shape Layout N=Sect1.E24 F=FALSE

<1-23-7/25> J191 Shape Layout N=Sect1.F24 F=FALSE

<1-23-8/25> J191 Shape Layout N=ShapeFixedCode F=0

<1-23-9/25> J191 Shape Layout N=ShapePlowCode F=0

<1-23-10/25> J191 Shape Layout N=ShapeRouteStyle F=0

<1-23-11/25> J191 Shape Layout N=ShapePlaceStyle F=0

<1-23-12/25> J191 Shape Layout N=ConFixedCode F=6

<1-23-13/25> J191 Shape Layout N=ConLineJumpCode F=0

<1-23-14/25> J191 Shape Layout N=ConLineJumpStyle F=0

<1-23-15/25> J191 Shape Layout N=ShapePlaceDepth F=0

<1-23-16/25> J191 Shape Layout N=ConLineJumpDirX F=0

<1-23-17/25> J191 Shape Layout N=ConLineJumpDirY F=0

<1-23-18/25> J191 Shape Layout N=ShapePlaceFlip F=0

<1-23-19/25> J191 Shape Layout N=ConLineRouteExt F=0

<1-23-20/25> J191 Shape Layout N=ShapeSplit F=0

<1-23-21/25> J191 Shape Layout N=ShapeSplittable F=1

<1-23-22/25> J191 Shape Layout N=DisplayLevel F=0

<1-23-23/25> J191 Shape Layout N=Sect1.V24

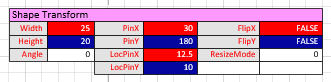
<1-23-24/25> J191 Shape Layout N=Sect1.W24

Contains cells that control shape placement and connector routing settings.

You can also set the values of the shape-specific cells in this section by using the **Placement** tab in the **Behavior** dialog box (on the [Developer](https://learn.microsoft.com/en-us/office/client-developer/visio/run-in-developer-mode-display-the-developer-tab) tab, in the **Shape Design** group, click **Behavior**). You can set the values of the connector-specific cells in this section using the **Connector** tab in the **Behavior** dialog box. (To see the **Connector** tab, select the connector in the drawing window, and then display the **Behavior** dialog box.)

You can use values in the **Shape Layout** section to override default values contained in the **Page Layout** section.

# <1-1> J155 Shape Transform Section S A



<1-1-0/10> J155 Shape Transform N=PinX

<1-1-1/10> J155 Shape Transform N=PinY

<1-1-2/10> J155 Shape Transform N=Width

<1-1-3/10> J155 Shape Transform N=Height

<1-1-4/10> J155 Shape Transform N=LocPinX

<1-1-5/10> J155 Shape Transform N=LocPinY

<1-1-6/10> J155 Shape Transform N=Angle

<1-1-7/10> J155 Shape Transform N=FlipX

<1-1-8/10> J155 Shape Transform N=FlipY

<1-1-9/10> J155 Shape Transform N=ResizeMode

Contains general positioning information about a shape: for example, its width, height, angle, and center of rotation (pin); whether the shape has been flipped; and how the shape should behave when resized within a group.

# <?-?> Style Properties Section A



<1-8> nCells=11 RT=J147 Style

<1-8-0/11> N=EnableLineProps F=TRUE R=TRUE

<1-8-1/11> N=EnableFillProps F=TRUE R=TRUE

<1-8-2/11> N=EnableTextProps F=TRUE R=TRUE

<1-8-3/11> N=HideForApply F=FALSE R=FALSE

<1-8-4/11> N=Sect1.C9 F= R=FALSE

<1-8-5/11> N=Sect1.D9 F= R=FALSE

<1-8-6/11> N=Sect1.E9 F= R=FALSE

<1-8-7/11> N=Sect1.F9 F= R=FALSE

<1-8-8/11> N=Sect1.G9 F= R=FALSE

<1-8-9/11> N=Sect1.H9 F= R=FALSE

<1-8-10/11> N=Sect1.I9 F= R=FALSE

# Includes cells that control style behavior, such as whether a style includes text, line, and fill attributes.<5-0> J136 Tabs Section S



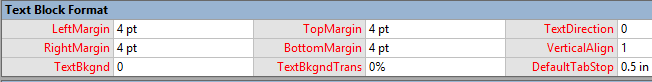
<5-0/1-0/1> N=Tabs.X1 F=0

Contains cells for shapes or styles that control tab stop position and alignment.

You can also set these values by using the **Tabs** tab in the **Text** dialog box (click dialog box launcher in the **Font** group on the **Home** tab) or by using the **Text Ruler**. To display the **Text Ruler**, right-click the text while in text-editing mode, and then click **Text Ruler** on the shortcut menu.

You can set tab stops for specific characters by selecting the text, and then setting the tab stop. When you set tab stops for specific characters, a new row is added in the ShapeSheet window. The name of the row represents the number of characters the tab stop contains.

# <1-11> J135 Text Block Format Section S C



<1-11-0/15> J135 Text Block Format N=LeftMargin F=4 pt.

<1-11-1/15> J135 Text Block Format N=RightMargin F=4 pt.

<1-11-2/15> J135 Text Block Format N=TopMargin F=4 pt.

<1-11-3/15> J135 Text Block Format N=BottomMargin F=4 pt.

<1-11-4/15> J135 Text Block Format N=VerticalAlign F=1

<1-11-5/15> J135 Text Block Format N=TextBkgnd F=THEMEGUARD(THEMEVAL("BackgroundColor")+1)

<1-11-6/15> J135 Text Block Format N=DefaultTabStop F=0.5 in.

<1-11-7/15> J135 Text Block Format N=TextMaxDepth F=4294967295

<1-11-8/15> J135 Text Block Format N=TextGeometry F=0

<1-11-9/15> J135 Text Block Format N=TextContainer F=0

<1-11-10/15> J135 Text Block Format N=TextDirection F=0

<1-11-11/15> J135 Text Block Format N=TextBkgndTrans F=0%

<1-11-12/15> J135 Text Block Format N=\_UnusedE5 F=

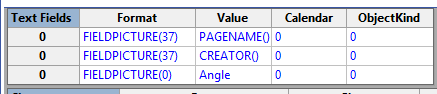
<1-11-13/15> J135 Text Block Format N=\_UnusedE6 F=

<1-11-14/15> J135 Text Block Format N=\_UnusedE7 F=

Contains cells that control the alignment, margins, and default tab stop position of text in a shape's text block.

You can also set these text attributes by using the **Text** dialog box (on the **Home** tab, click the dialog box launcher in the **Font** group).

# <8-0> J161 Text Fields Section S C



<8-0/1-0/11> N=Fields.Value F=User.LabelText

<8-0/1-1/11> N=Fields.\_Unused1

<8-0/1-2/11> N=Fields.Format F=FIELDPICTURE(0)

<8-0/1-3/11> N=Fields.Type F=0

<8-0/1-4/11> N=Fields.UICat

<8-0/1-5/11> N=Fields.UICod

<8-0/1-6/11> N=Fields.UIFmt

<8-0/1-7/11> N=Fields.Calendar F=0

<8-0/1-8/11> N=Fields.G1 F=

<8-0/1-9/11> N=Fields.H1 F=

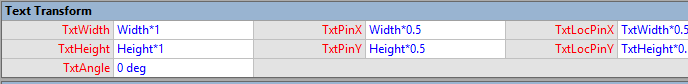
<8-0/1-10/11> N=Fields.ObjectKind F=0

Displays functions and formulas inserted in the shape's text by using the **Field** dialog box.

The only way to add this section is to insert a field into a shape by using the **Field** dialog box (**Insert** tab).

Each text field in a text block has a corresponding row in the ShapeSheet window. The name of the row represents the number of characters the field contains.

# <1-12> J156 Text Transform Section S A



<1-12-0/10> J156 Text Transform N=TxtPinX F=Width\*0.5

<1-12-1/10> J156 Text Transform N=TxtPinY F=Height\*0.5

<1-12-2/10> J156 Text Transform N=TxtWidth F=Width\*1

<1-12-3/10> J156 Text Transform N=TxtHeight F=Height\*1

<1-12-4/10> J156 Text Transform N=TxtLocPinX F=TxtWidth\*0.5

<1-12-5/10> J156 Text Transform N=TxtLocPinY F=TxtHeight\*0.5

<1-12-6/10> J156 Text Transform N=TxtAngle F=0 deg.

<1-12-7/10> J156 Text Transform N=TxtFlipX

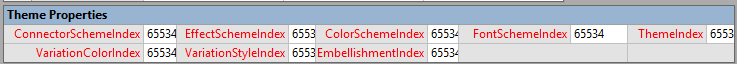
<1-12-8/10> J156 Text Transform N=TxtFlipY

<1-12-9/10> J156 Text Transform N=Sect1.H13

Contains positioning information about a shape's text block.

To add this section, use the **Insert Section** dialog box (right-click in the ShapeSheet window and click **Insert Section**). Setting values in the **Text Transform** section is comparable to working with the text block by using the **Text Block** tool (the **Tools** group on the **Home** tab).

# <1-31> J249 Theme Properties Section A NGB



<1-31-0/8> J249 Themes N=ColorSchemeIndex F=42

<1-31-1/8> J249 Themes N=EffectSchemeIndex F=42

<1-31-2/8> J249 Themes N=ConnectorSchemeIndex F=42

<1-31-3/8> J249 Themes N=FontSchemeIndex F=42

<1-31-4/8> J249 Themes N=ThemeIndex F=42

<1-31-5/8> J249 Themes N=VariationColorIndex F=2

<1-31-6/8> J249 Themes N=VariationStyleIndex F=2

<1-31-7/8> J249 Themes N=EmbellishmentIndex F=0

Shows the index values of the theme currently applied to the document, including color, font, connector, and effects values.

You can set theme values on the **Design** tab or by making changes in the cells in the **Theme Properties** section of the ShapeSheet.

# <242-0> J180 User-defined Cells SPD Ca



<242-0/1-0/2> N=User.msvNoAutoConnect F=1

<242-0/1-1/2> N=User.msvNoAutoConnect.Prompt

A work area for entering formulas in user-specific cells that can be referred to by other cells and add-on tools.

Like the [Scratch](https://learn.microsoft.com/en-us/office/client-developer/visio/scratch-section) section, the **User-defined Cells** section can be used by your solution in many different ways. The advantage of the **User-defined Cells** section is that cells can be named; cells in the **Scratch** section cannot be named.

If your solution has a well-defined purpose it is suggested that you use cells in the **User-defined Cells** section for clarity because User cells can be named. The **Scratch** section is typically used to isolate repeated complex calculations.

To add this section, use the **Insert Section** dialog box (right-click in the ShapeSheet window and click **Insert Section**).

# Enumerations

What are the Jnnn numbers? In the official Visio enumeration lists, not all sections are identified. To be able to handle the Geometry section, I decided to treat each row in a Geometry section as its’ own Section. Luckily the Geometry Row tags are independent of the known Section numbers. So, I combined the lists and gave each section a prefix of “J”

## VisSectionIndices enumeration (Visio)

| **Constant** | **Value** | **Description** |
| --- | --- | --- |
| visSectionFirst | 0 | Index whose value is less than any other section index. |
| visSectionObject | 1 | Stores general non-repeating properties of an object. |
| visSectionCharacter | 3 | Stores character properties; for example, font. |
| visSectionParagraph | 4 | Stores paragraph properties; for example, indentation. |
| visSectionTab | 5 | Stores position and alignment of tab stops. |
| visSectionScratch | 6 | Holds scratch cells. |
| visSectionConnectionPts | 7 | Stores an object's connection points. |
| visSectionTextField | 8 | Stores an object's text fields. |
| visSectionControls | 9 | Stores an object's control handles. |
| visSectionFirstComponent | 10 | An object's first Geometry section. Additional sections have indices (visSectionFirstComponent + ). |
| visSectionLastComponent | 239 | An object's last Geometry section. |
| visSectionAction | 240 | Stores the actions that appear on the shortcut menu. |
| visSectionLayer | 241 | Stores a page or master's layer properties. |
| visSectionUser | 242 | Stores cells created and used by an external solution. |
| visSectionProp | 243 | Stores shape data (formerly custom properties). |
| visSectionHyperlink | 244 | Stores hyperlinks. |
| visSectionReviewer | 245 | Index of section whose rows represent reviewers. |
| visSectionAnnotation | 246 | Index of a section whose rows represent annotations. |
| visSectionSmartTag | 247 | Index of section whose rows represent SmartTags. |
| visSectionLineGradientStops | 248 | Index of a section whose rows represent line gradient stops. |
| visSectionFillGradientStops | 249 | Index of a section whose rows represent fill gradient stops. |
| visSectionLast | 252 | Index whose value is greater than any other section index. |
| visSectionInval | 255 | An invalid index that no section will ever have. |
| visSectionNone | 255 | Unspecified section. |

# VisRowTags enumeration (Visio)

Row-type constants used in conjunction with the Shape.RowType property and similar properties.

| Constant | Value | Description |
| --- | --- | --- |
| visTagDefault | 0 | Connotes row of default type to AddRow, AddNamedRows, or AddRows methods. |
| visTagTab0 | 136 | The row type of a row in a visSectionTab section that defines 0 (zero) tab stops. |
| visTagComponent | 137 | The row type of the component properties row in a Geometry section. |
| visTagMoveTo | 138 | The row type of a MoveTo row in a Geometry section. |
| visTagLineTo | 139 | The row type of a LineTo row in a Geometry section. |
| visTagArcTo | 140 | The row type of an ArcTo row in a Geometry section. |
| visTagInfiniteLine | 141 | The row type of an InfiniteLine row in a Geometry section. |
| visTagEllipse | 143 | The row type of an Ellipse row in a Geometry section. |
| visTagEllipticalArcTo | 144 | The row type of an EllipticalArcTo row in a Geometry section. |
| visTagTab2 | 150 | The row type of a row in a visSectionTab section that defines up to 2 tab stops. |
| visTagTab10 | 151 | The row type of a row in a visSectionTab section that defines up to 10 tab stops. |
| visTagCnnctPt | 153 | The row type of a row in a visSectionConnectionPts section that has unnamed rows. |
| visTagCtlPt | 162 | The row type of a row in visSectionControls that doesn't supply a ToolTip. |
| visTagSplineBeg | 165 | The row type of a SplineStart row in a Geometry section. |
| visTagSplineSpan | 166 | The row type of a SplineKnot row in a Geometry section. |
| visTagCtlPtTip | 170 | The row type of a row in visSectionControls that supplies a ToolTip. |
| visTagTab60 | 181 | The row type of a row in a visSectionTab section that defines up to 60 tab stops. |
| visTagCnnctNamed | 185 | The row type of a row in a visSectionConnectionPts section that has named rows. |
| visTagCnnctPtABCD | 186 | The row type of an extended row in a visSectionConnectionPts section that has unnamed rows. Seldom used. |
| visTagCnnctNamedABCD | 187 | The row type of an extended row in a visSectionConnectionPts section that has named rows. Seldom used. |
| visTagPolylineTo | 193 | The row type of a PolylineTo row in a Geometry section. |
| visTagNURBSTo | 195 | The row type of a NURBSTo row in a Geometry section. |
| visTagRelCubBezTo | 236 | The row type of a RelCubBezTo row in a Geometry section. |
| visTagRelMoveTo | 238 | The row type of a RelMoveTo row in a Geometry section. |
| visTagRelLineTo | 239 | The row type of a RelLineTo row in a Geometry section. |
| visTagRelEllipticalArcTo | 240 | The row type of a RelEllipticalArcTo row in a Geometry section. |
| visTagRelQuadBezTo | 23777 | The row type of a RelQuadBezTo row in a Geometry section. |

## **RowType**

| **Constant** | **Value** |
| --- | --- |
| visTagTab0 | 136 |
| visTagComponent | 137 |
| visTagMoveTo | 138 |
| visTagLineTo | 139 |
| visTagArcTo | 140 |
| visTagInfiniteLine | 141 |
| visTagEllipse | 143 |
| visTagEllipticalArcTo | 144 |
| visTagTab2 | 150 |
| visTagTab10 | 151 |
| visTagCnnctPt | 153 |
| visTagCtlPt | 162 |
| visTagSplineBeg | 165 |
| visTagSplineSpan | 166 |
| visTagCtlPtTip | 170 |
| visTagTab60 | 181 |
| visTagCnnctNamed | 185 |
| visTagPolylineTo | 193 |
| visTagNURBSTo | 195 |

| **Value** | **Constant** |
| --- | --- |
| J131 | Character |
| J132 | Events |
| J133 | Line Format |
| J134 | Fill Format |
| J135 | Text Block Format |
| J136 | Tabs |
| J137 | Geometry |
| J138 | MoveTo |
| J139 | LineTo |
| J140 | ArcTo |
| J141 | InfiniteLine |
| J143 | Ellipse |
| J144 | EllipticalArcTo |
| J146 | Page Properties |
| J148 | Character |
| J149 | Paragraph |
| J152 | Foreign Image Info |
| J153 | Connection Points |
| J155 | Shape Transform |
| J156 | Text Transform |
| J157 | 1-D Endpoints |
| J158 | Scratch |
| J159 | Mystery |
| J160 | Protection |
| J161 | Text Fields |
| J164 | Miscellaneous |
| J165 | SplineBeg |
| J166 | SplineSpan |
| J167 | Scratch |
| J168 | Layers |
| J169 | Actions |
| J170 | Controls |
| J180 | User-defined Cells |
| J182 | Shape Data |
| J183 | Ruler |
| J188 | Document Properties |
| J190 | Group |
| J191 | Shape Layout |
| J192 | Page Layout |
| J193 | PolylineTo |
| J195 | NURBSTo |
| J196 | Hyperlinks |
| J199 | Action Tags |
| J200 | Print Properties |
| J236 | RelCubBezTo |
| J237 | RelQuadBezTo |
| J238 | RelMoveTo |
| J239 | RelLineTo |
| J240 | RelEllipticalArcTo |
| J242 | Gradient Properties |
| J243 | Quick Style |
| J244 | Additional Effect Properites |
| J245 | Bevel Properties |
| J246 | 3D Rotation Properties |
| J247 | LineGradientStops |
| J248 | FillGradientStops |
| J249 | Themes |
| S0 | visSectionFirst |
| S1 | visSectionObject |
| S10 | visSectionFirstComponent |
| S239 | visSectionLastComponent |
| S240 | visSectionAction |
| S241 | visSectionLayer |
| S242 | visSectionUser |
| S243 | visSectionProp |
| S244 | visSectionHyperlink |
| S245 | visSectionReviewer |
| S246 | visSectionAnnotation |
| S247 | visSectionSmartTag |
| S248 | visSectionLineGradientStops |
| S249 | visSectionFillGradientStops |
| S252 | visSectionLast |
| S255 | visSectionInval |
| S3 | visSectionCharacter |
| S4 | visSectionParagraph |
| S5 | visSectionTab |
| S6 | visSectionScratch |
| S7 | visSectionConnectionPts |
| S8 | visSectionTextField |
| S9 | visSectionControls |

# Section Types

I found three section types. Type A is the fixed grid, Type B is a List and Type C are the Geometry section rows.

## A

A fixed grid section.

1-D Endpoints, 3-D Rotation Properties, Additional Effect Properties, Alignment, Bevel Properties, Change Shape Behavior, Document Properties, Events, Fill Format, Foreign Image Info, Geometry, Glue Info, Gradient Properties, Group Properties, Image Properties, Line Format, Line Gradient Stops, Miscellaneous, Page Layout, Page Properties, Print Properties, Protection, Quick Style, Ruler & Grid, Shape Layout, Shape Transform, Style Properties, Text Block Format, Text Transform, Theme Properties

## Ca

A list section.

Action Tags, Actions, Annotation, Character, Controls, Hyperlinks, Reviewer, Shape Data, Tabs, Text Fields, User-defined Cells

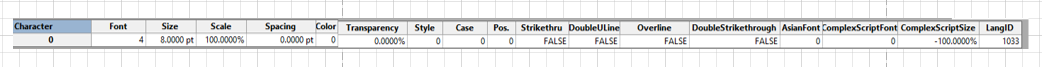
### <247-0> J199 Action Tags 0/1 nCells=16 SP Ca



### <240-0> J169 Actions 0/1 nCells=17 SP Ca



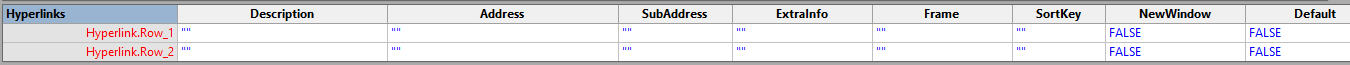
### <3-0> J148 Character 0/1 nCells=58 S Ca



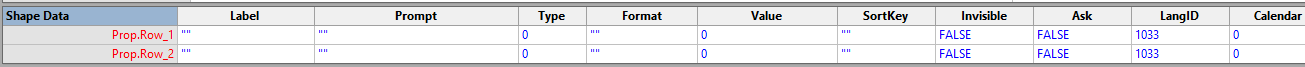
### <9-0> J170 Controls 0/1 nCells=9 S Ca



### <244-0> J196 Hyperlinks 0/2 nCells=16 SPD Ca



### <243-0> J182 Shape Data 0/2 nCells=16 SPD Ca



### <5-0> J136 Tabs 0/1 nCells=1 S Ca



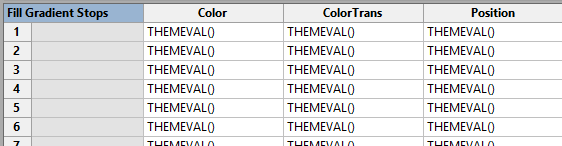
### <242-0> J180 User-defined Cells 0/1 nCells=2 SPD Ca



## Cb

Connection Points, Fill Gradient Stops, Layers, Reviewer, Tabs, Text Fields





### <7-0> J153 Connection Points 0/1 nCells=14 S Cb



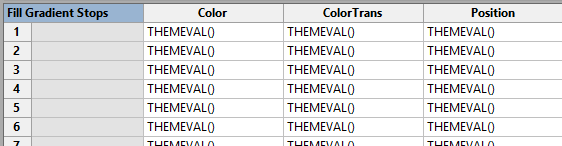
### <241-0> J168 Layers 0/2 nCells=12 P Cb



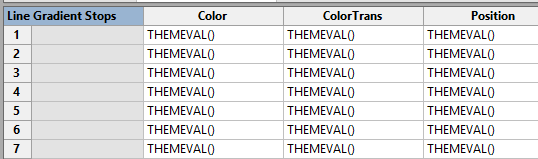
## Cc

Fill Gradient Stops, Hyperlinks, Paragraph, Reviewer, Scratch, Tabs, Text Fields,

### <249-0> J248 FillGradientStops 0/1 nCells=3 S Cc



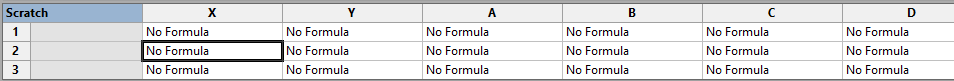
### <248-0> J247 LineGradientStops 0/1 nCells=3 S Cc



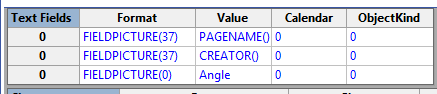
### <4-0> J149 Paragraph 0/1 nCells=15 S Cc



### <6-0> J158 Scratch 0/3 nCells=6 SPD Cc



### <8-0> J161 Text Fields 0/1 nCells=11 S C



## G

A Geometry section.

ArcTo, Ellipse, EllipticalArcTo, Geo Sub Hdr, InfiniteLine, Layer Membership, LineTo, MoveTo, NURBSTo, PolylineTo, RelCubBezTo, RelEllipticalArcTo, RelLineTo, RelMoveTo, RelQuadBezTo, SplineKnot, SplineStart