

Visio 2007

Stephen Moffat, The Mouse Training Company



Visio



Download free books at

bookboon.com

Stephen Moffat

Visio 2007



Visio 2007

© 2011 Stephen Moffat & bookboon.com

ISBN 978-87-7681-893-7

Contents

Introduction	8
Getting Started	9
1 Visio Environment	10
Screen Layout	10
2 File Commands	15
Saving a File	15
Closing a File	15
Opening an Existing File	16
3 Stencils	17
Opening more stencils	17
Moving between Stencils	19
Closing stencils	19
Searching for a Shape on a Stencil	20

I joined MITAS because
I wanted **real responsibility**

The Graduate Programme
for Engineers and Geoscientists
www.discovermitas.com



Month 16
I was a construction supervisor in the North Sea advising and helping foremen solve problems

Real work
International opportunities
Three work placements





Download free eBooks at bookboon.com



4	Working with Shapes	22
	Creating a shape	22
	Selecting shapes	22
	Moving Shapes	25
	Deleting Shapes	25
	Resizing Shapes	25
	Rotating Shapes	26
	Flipping Shapes	29
	Duplicating/Copying Shapes	29
	Changing the attributes of a Shape	30
	Stacking Shapes	33
	Aligning shapes	34
	Distributing Shapes	36
	Grouping Shapes	36
5	Pages & Views	39
	Creating a new page	39
	Zooming	40
	Ruler & Grid	40
	Snap & Glue	41
	Guides	41



www.job.oticon.dk

oticon
PEOPLE FIRST

6	Working with Text	42
	Text Boxes	42
	Shapes	43
	Formatting Text	46
	Alignment of text	46
	Tabs within A Text Box or Shape	48
	Bullets within A Text Box or Shape	49
7	Connectors	50
	Overview	50
	Creating a Point-to-Point Connection	52
	Creating a Shape-to-Shape Connection	54
	Automatically Connected Shapes	55
	Working With connection points	55
	Working with cross- functional bands (Swim Lanes)	57
8	Drawing Shapes	61
9	Background Pages	62
	Inserting a Background Page	62
	Assigning a Background Page	64

ENGINEERING, RESEARCH AND OPERATIONS



85 years of innovation

>120,000 employees
>140 nationalities
~85 countries of operation

Who are we?
We are the world's largest oilfield services company. Working globally—often in remote and challenging locations—we invent, design, engineer, and apply technology to help our customers find and produce oil and gas safely.

Who are we looking for?
We're looking for high-energy, self-motivated graduates with vision to work in our engineering, research and operations domain.

What will you be?

Schlumberger

careers.slb.com

Copyright © 2013 Schlumberger. All rights reserved.



Creating a Background Page from an Existing Page	64
Editing an Existing Background Page	64
10 Custom Stencils	65
The Favourites Stencil	65
New Stencils	67
Theme colours and Theme effects	69
11 Printing	72
Print Preview	72
Printing your Drawing	73
12 Visio & Other Applications	74
13 Keyboard Shortcuts	75



#1
in eco-friendly attitude

**STUDY AT
LINKÖPING UNIVERSITY, SWEDEN**
RANKED AMONG TOP 50 UNIVERSITIES UNDER 50

Interested in Engineering and its various branches? Kick-start your career with a master's degree from Linköping University, Sweden.

→ [Click here!](#)

 Linköping University

Introduction

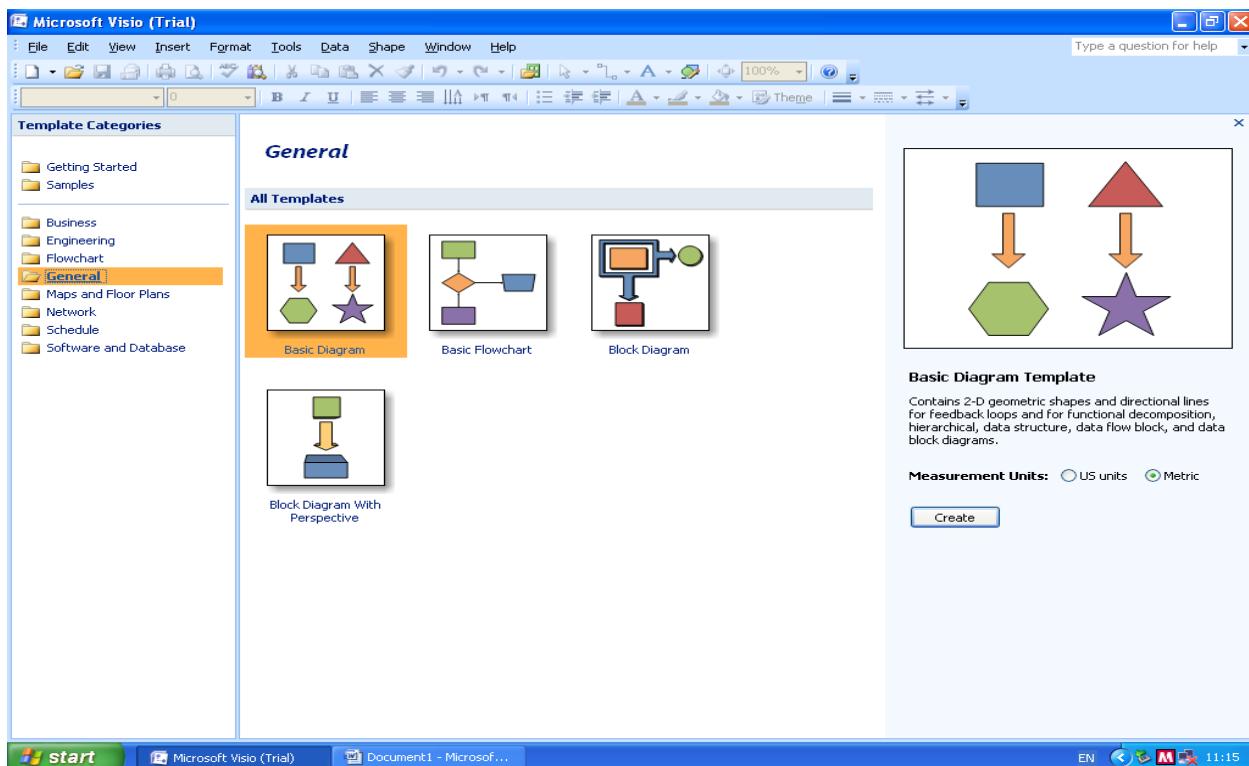
Visio is designed to help you create business and technical diagrams, including Organization Charts, Flow Charts and Office Layout Diagrams.

These diagrams are created with the use of sophisticated drawing tools and stencils of pre-drawn shapes that can be dropped onto the drawing page.

All graphics related to Microsoft in this book is in compliance with Microsoft guidelines and thus permitted by Microsoft.

Getting Started

When you start Visio, it displays the **Template categories** list. When you select a category, the group of predefined templates will be displayed in the main window. You can then choose the **Template** you wish to base your drawing on.

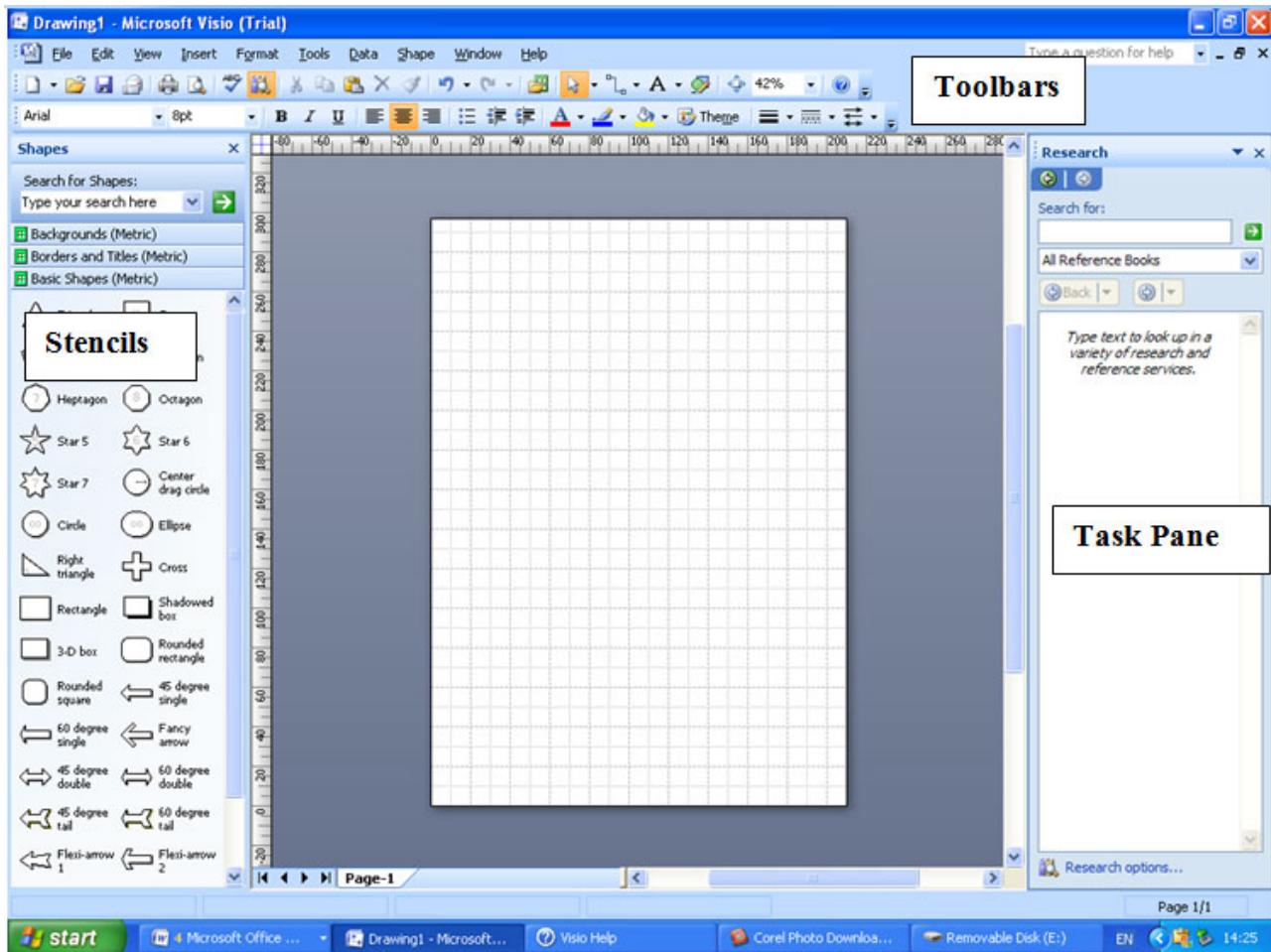


- Select the template you would like to use to see its description in the pane on the right hand side of the window.
- Choose your preferred measurement units
- Open the template you require by clicking on **Create** button.

1 Visio Environment

Screen Layout

On the Visio screen you will notice a number of features that are similar to other Microsoft Office applications: Title Bar, Menu Bar, Standard and Formatting Toolbars and the Task Pane. You will also see the Stencils, which are particular to Visio.



When Visio starts for the first time, the Standard and Formatting toolbars share one row on the screen, resulting in some of their icons being hidden from view. Similarly, the menus show most recently used commands first (only displaying the other commands after a short delay).

*These settings can be reversed by choosing **Customize** from the **Tools** menu, then on the **Customize** tab ticking the two option boxes at the top ('Show Standard & Formatting toolbars on two rows' and 'Always show full menus').*

Standard Toolbar

	New	To create a New drawing. The drop-down arrow can be used to select a Template.
	Open	To Open an existing drawing.
	Save	To Save the current drawing.
	E-mail	To E-mail the current drawing as an attachment.
	Print Page	To Print the current drawing.
	Print Preview	To Preview the current drawing.
	Spelling	To check the Spelling of all text in the current drawing.
	Research	To activate the Research task pane to enable you to search for information without the need to leave the Visio screen.
	Cut	To move data to the clipboard.
	Copy	To Copy data to the clipboard.
	Paste	To Paste data from the clipboard.
	Delete	To Delete the selected shape from the drawing page.
	Format Painter	To copy formatting from the current shape to others.
	Undo	To Undo the last action. The drop-down can be used to select as many as the last 20 actions.
	Redo	To Redo any actions that have been Undone. The drop-down can be used to Redo multiple actions.
	Shapes	To Open other stencils.
	Pointer Tool	To revert the mouse pointer to Select mode. The drop-down gives access to Lasso and Multiple Select modes.
	Connector Tool	To draw Connectors between shapes. The drop-down gives access to the Connection Point Tool.
	Text Tool	To create Text Boxes. The drop-down gives access to the Text Block Tool.
	Drawing Tools	To activate the Drawing toolbar.
	AutoConnect	To automatically connect, evenly distribute, and accurately align shapes



Zoom

To change the Zoom factor to be used on the current drawing.



Help

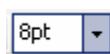
To activate the Visio Help task pane.

Formatting Toolbar



Font

To choose the Font type used for text.



Font Size

To choose the Font size used for text.



Bold

To apply Bold formatting to selected text, or all text within the selected shape.



Italic

To apply Italic formatting to selected text, or all text within the selected shape.



Underline

To apply Underline formatting to selected text, or all text within the selected shape.



Align Left/Centre/Right

To Align text.



Bullets

To bullet point the text within the shape



Decrease indent

To decrease indentation of the text within the shape



Increase indent

To increase indentation of the text within the shape



Text Colour

To change the colour of selected text, or all text within the selected shape. The drop-down allows the choice of colour to be made.



Line Colour

To change the Line (border) colour of the selected shape. The drop-down allows the choice of colour to be made



Fill Colour

To change the Fill (inside) colour of the selected shape. The drop-down allows the choice of colour to be made



Theme

To select set of colours and effects that can be applied to a drawing. Themes are a quick and easy way to give drawings a fresh and professionally designed look.



Line Weight

To change the Line (border) weight of the selected shape. The drop-down allows the choice of weight to be made



Line Pattern

To change the Line (border) pattern of the selected shape. The drop-down allows the choice of pattern to be made

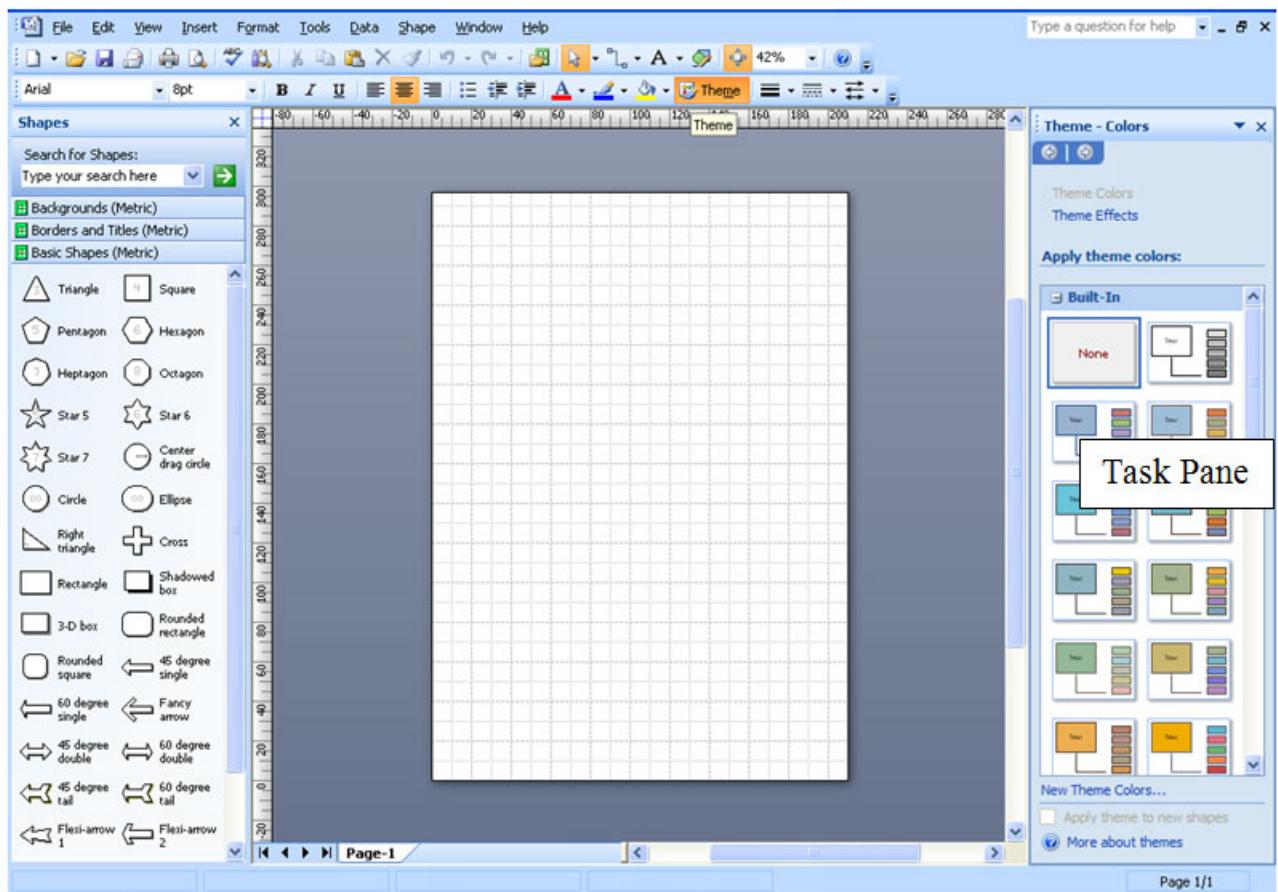


Line Ends

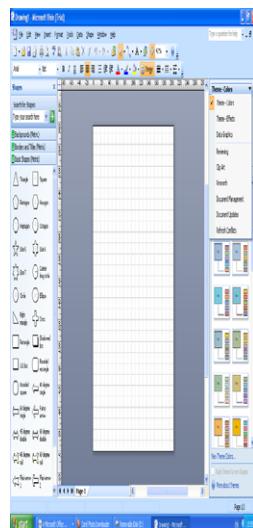
To add Line Ends (such as Arrow heads) to lines that have been drawn. This does not apply to shape borders.

Task Pane

The task pane is designed to make tasks simpler to perform by making their options more accessible.



You can switch between the different views of the task pane by clicking on the task pane name bar.



STUDY FOR YOUR MASTER'S DEGREE IN THE CRADLE OF SWEDISH ENGINEERING

Chalmers University of Technology conducts research and education in engineering and natural sciences, architecture, technology-related mathematical sciences and nautical sciences. Behind all that Chalmers accomplishes, the aim persists for contributing to a sustainable future – both nationally and globally.

Visit us on Chalmers.se or [Next Stop Chalmers](#) on facebook.



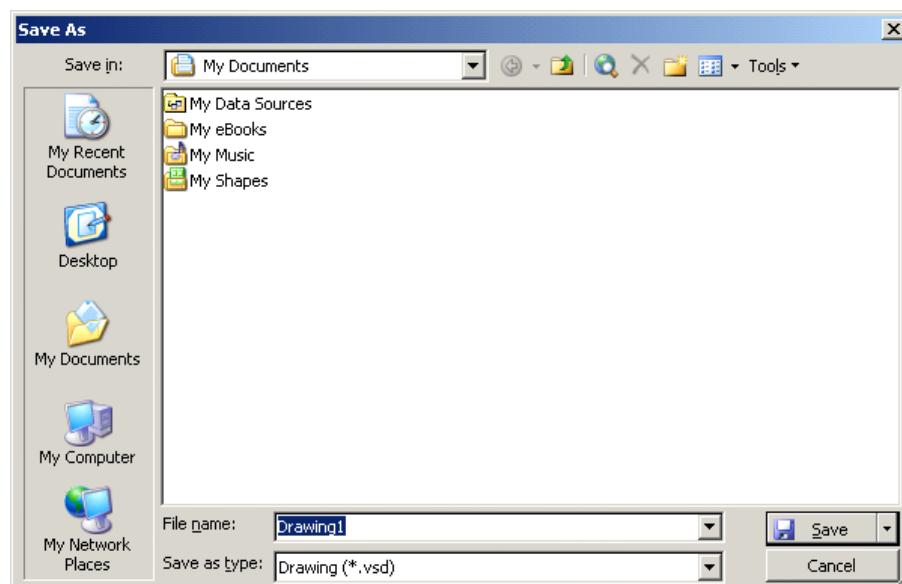
Download free eBooks at bookboon.com

2 File Commands

Saving a File

To Save a File for the First Time

- Select **Save** from the **File** menu or click **Save**  on the standard toolbar – the **Save As** dialog box will appear.



- Type a name for the file.
- Change the directory and/or the drive if required.
- Leave the file with the extension **.vsd**
- Choose **Save**.

To Save an Existing File

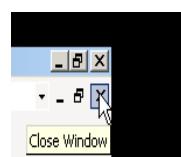
- Select **Save** from the **File** menu or click **Save** .

Closing a File

- Select **Close** from the **File** menu.

OR

- Click the Close Window icon in the top right of the screen

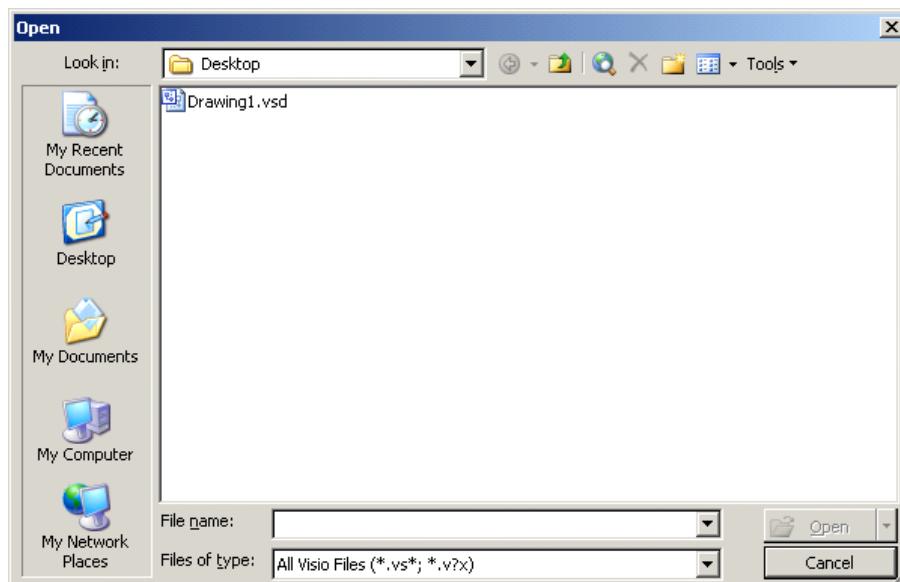


Opening an Existing File

- Select **Open** from the **File** menu.

OR

- Click **Open** .
- The open dialog box will appear:



- Select the file you require.
- Choose **Open**.

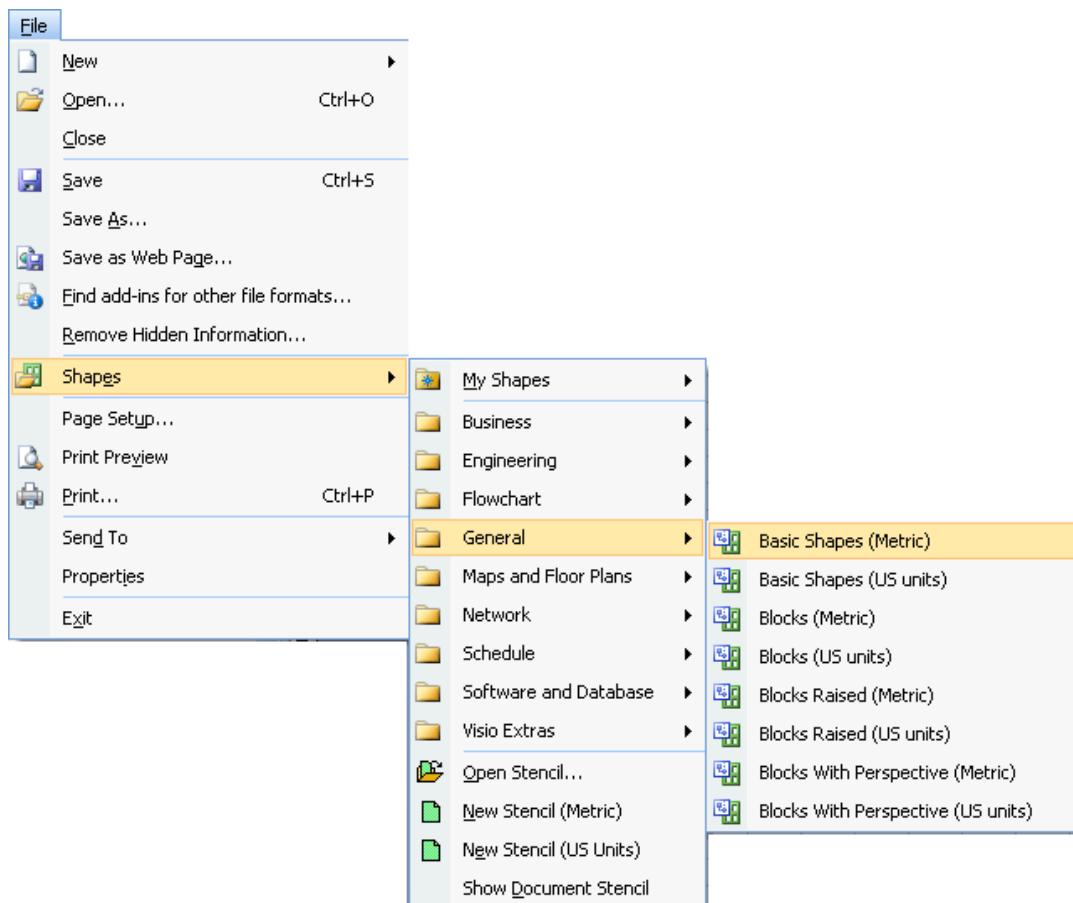
3 Stencils

A stencil is a collection of master shapes that are associated with a particular drawing type. Stencils are stored in stencil files (with a .vss extension). When you create a new drawing based on a template, the template opens stencils that are related to the drawing type. By default, stencils appear docked on the left side of the drawing window. You can also open a stencil independently of a template.

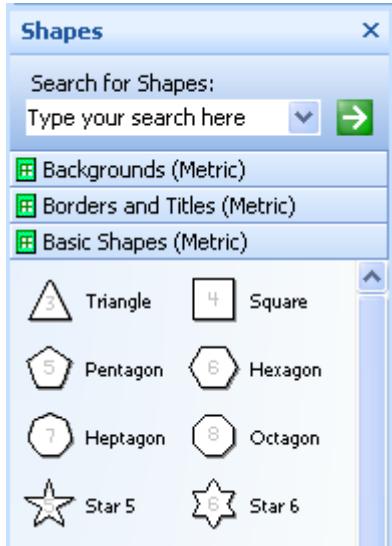
Opening more stencils

Although templates will automatically open particular related stencils, other stencils can also be opened for use with a drawing.

- From the **File** menu, choose **Shapes**, and then choose a stencil from one of the Category folders listed:



- The stencil opens docked, with the title bars of the other open stencils cascaded behind it:



OR

- Click **Shapes**  on the standard toolbar, the stencil Category folders will appear.

MÄLARDALEN UNIVERSITY SWEDEN

WELCOME TO OUR WORLD OF TEACHING!

INNOVATION, FLAT HIERARCHIES AND OPEN-MINDED PROFESSORS

STUDY IN SWEDEN - CLOSE COLLABORATION WITH FUTURE EMPLOYERS

MÄLARDALEN UNIVERSITY COLLABORATES WITH MANY EMPLOYERS SUCH AS ABB, VOLVO AND ERICSSON

TAKE THE RIGHT TRACK
GIVE YOUR CAREER A HEADSTART AT MÄLARDALEN UNIVERSITY

www.mdh.se

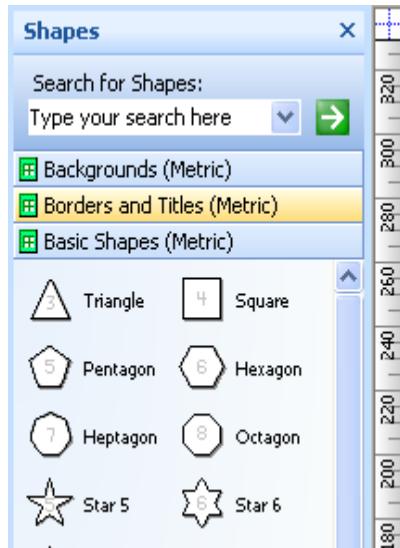
DEBAJYOTI NAG
SWEDEN, AND PARTICULARLY MDH, HAS A VERY IMPRESSIVE REPUTATION IN THE FIELD OF EMBEDDED SYSTEMS RESEARCH, AND THE COURSE DESIGN IS VERY CLOSE TO THE INDUSTRY REQUIREMENTS.

HE'LL TELL YOU ALL ABOUT IT AND ANSWER YOUR QUESTIONS AT MDHSTUDENT.COM

Download free eBooks at bookboon.com

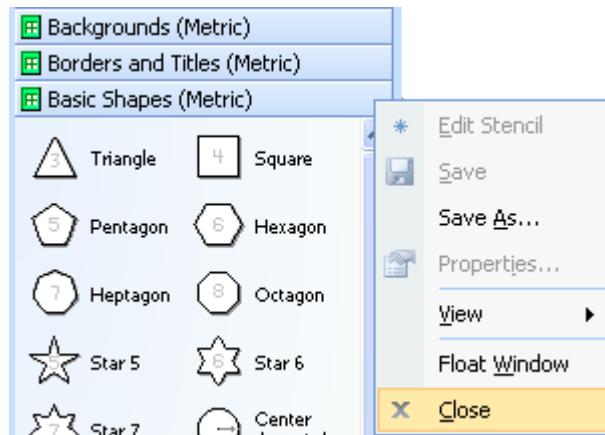
Moving between Stencils

- Click on the name of the stencil you wish to use, that stencil will appear at the front of the stencil column:



Closing stencils

- Click with your right mouse button on the name of the stencil you wish to close, a pop up menu will appear:



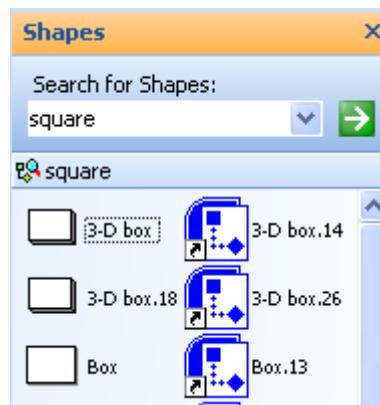
- Click on **Close** with your left mouse button.

Searching for a Shape on a Stencil

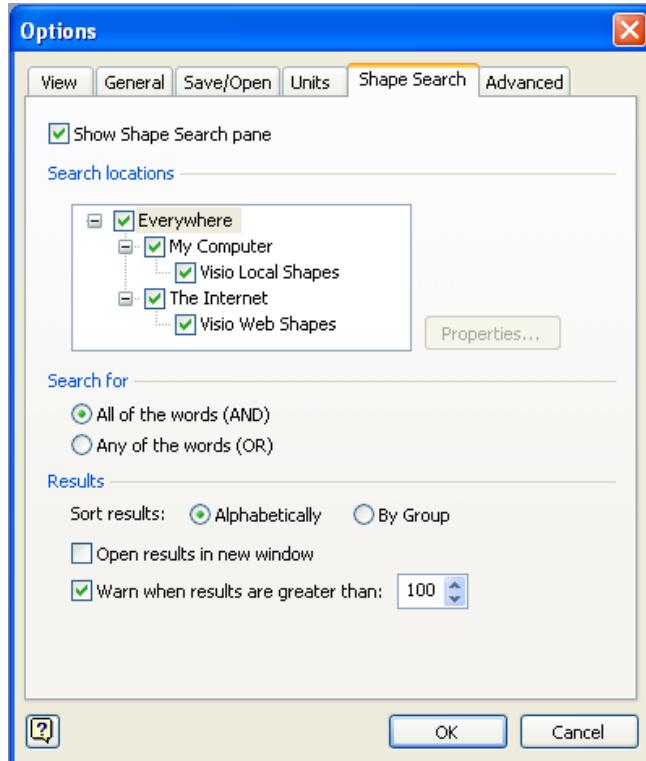
If you are unsure which stencil contains the shape you require, then a search can be performed from the top part of the **Shapes** window.



- Enter the word or phrase in the **Search for Shapes:** box and click the arrow to start the search.
- The results will appear in a temporary stencil:



- When a new search is performed, these results will be replaced by those of the new search.
- The results stencil can be closed at any time in the normal way.
- You can make some adjustment to the Search setting by going to the **Tools** menu, **Options** and selecting the **Shape Search** tab.



TOMTOM 

WHERE DO YOU WANT TO BE?

TomTom is a place for people who see solutions when faced with problems, who have the energy to drive our technology, innovation, growth along with goal achievement. We make it easy for people to make smarter decisions to keep moving towards their goals. If you share our passion - this could be the place for you.

Founded in 1991 and headquartered in Amsterdam, we have 3,600 employees worldwide and sell our products in over 35 countries.

For further information, please visit tomtom.jobs

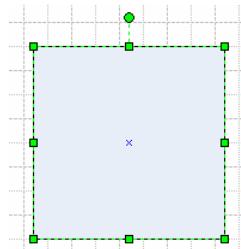


4 Working with Shapes

Shape is the general term for the objects you will find on a stencil and objects created using the drawing tools. These include geometric shapes such as rectangles, triangles and ellipses as well as more specialised shapes.

Creating a shape

- Locate the required shape on the stencil.
- Click and hold down the mouse button on the shape.
- Drag it over to your page.
- Let the mouse button go when you have positioned the shape in the preferred location.
- The shape will appear with 8 square (**Resize**) handles around the outside and 1 round (**Rotate**) handle at the top.
- These **Selection Handles** tell us the shape is active and able to be edited.



Selecting shapes

Shapes must be selected before any action such as copying, deleting and formatting can go ahead.

To Select a Single Shape

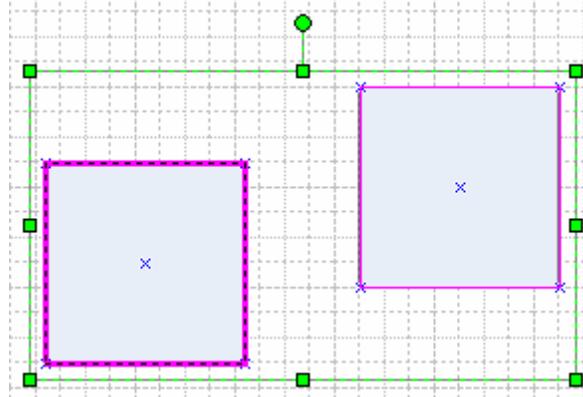
- Click on the shape with the left mouse button.
- The selection handles described above will appear.

To Deselect A Shape

- Click on any blank area of the page.

To Select Multiple Shapes Using the Keyboard

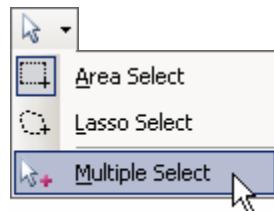
- Select the first shape.
- Hold down the **SHFT** key on the keyboard and select the second shape.
- The selection handles now form a rectangle that surrounds both of the shapes:



- Further shapes can also be selected using the same method.
- While still holding down the SHIFT a selected shape can be deselected by clicking it for a second time.

To Select Multiple Shapes Using the Multiple Select Tool

- Click the drop-down next to the Pointer Tool:



- Select the **Multiple Select** option.
- Click onto all the shapes to be selected, one after the other.
- Click a shape for a second time to deselect it.
- The **Multiple Select** option needs to be deactivated when it is no longer needed.

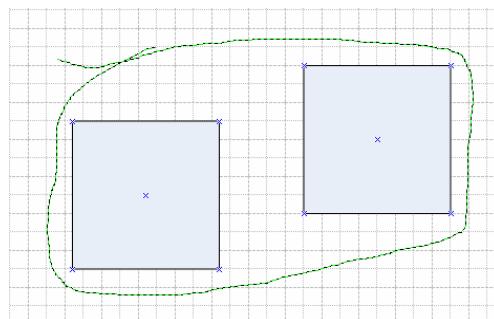
To Select Shapes Using the Area Select Tool

This method involves dragging a selection box around the shape or shapes to be selected.

- Starting above and to the left of your shapes, click and drag your mouse towards the bottom right of your shapes:
- Make sure all parts of the required shapes are within the selection box.
- Release the mouse button when you are happy with your box; if not, click away so nothing is selected and try to drag the box again.

To Select Shapes Using the Lasso Select Tool

This method involves drawing a selection 'lasso' of any shape around the shape or shapes to be selected.



- Click the Pointer Tool drop-down and select **Lasso Select**.
- Click and drag with the mouse to start drawing the lasso.
- Ensure the shapes to be selected are fully within the lasso.
- If possible overlap the start and end points of the lasso (although this is not always essential).

Both the Area Select and the Lasso Select methods can be used in conjunction with the Multiple Select method in order to easily select multiple shapes which are positioned in different parts of the drawing page.

.....Alcatel-Lucent 

www.alcatel-lucent.com/careers

What if you could build your future and create the future?

One generation's transformation is the next's status quo.
In the near future, people may soon think it's strange that devices ever had to be "plugged in." To obtain that status, there needs to be "The Shift".

To Select All Shapes on a Page

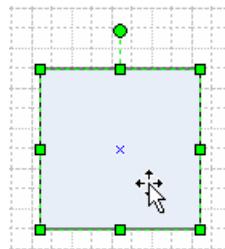
- In the **Edit** menu, choose **Select All**.

OR

- Press **CTRL+A**.

Moving Shapes

- Point your mouse at the shape to be moved.



- Click and hold down the mouse button.
- Drag the shape to the new location.
- Release the mouse button.

Deleting Shapes

- Select the shape to be deleted.
- Press the **Delete** key.

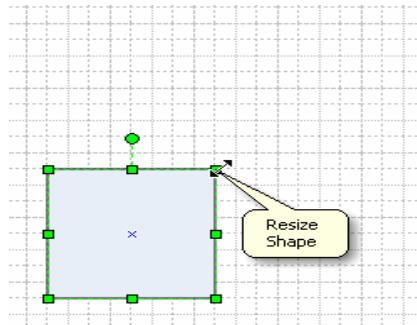
OR

- Use Delete  on the formatting toolbar.

Resizing Shapes

Resizing a Shape with the Mouse

- Select the shape to be resized.
- Move the mouse pointer to the required **Resize** handle:



- Drag the handle until the shape is at the required size.
- Release the mouse button.

Click and drag on any corner when resizing to maintain the shape's height-to-width proportions.

Resizing a Shape with the Size & Position Window

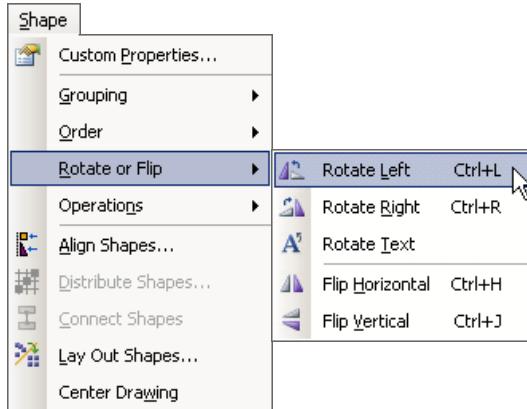
- Select the shape to be resized.
- From the **View** menu, select **Size & Position** – the following window will appear in the bottom left of the screen:

Size & Position	
X	85 mm
Y	215 mm
Width	40 mm
Height	40 mm
Angle	0 deg
X Pin Pos	Center-Cent

- Increase/decrease the **Width** and **Height** values to change the size of the shape.
- The X and Y values refer to the position of the shape on the drawing page.

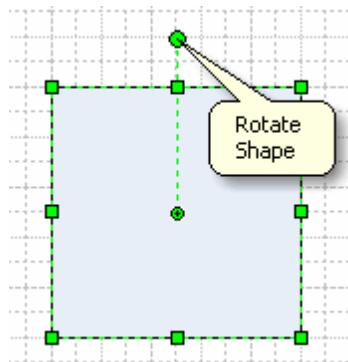
Rotating Shapes

- Select the shape to be rotated.
- Select **Rotate Left** or **Rotate Right** from **Rotate or Flip** in the **Shape** menu:



OR

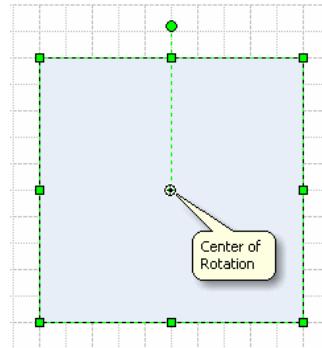
- Select the shape.
- Use the **Rotate** handle to drag the shape round as far as necessary:



Changing the Centre of Rotation

The centre of rotation is normally positioned in the centre of the shape and defines the point at which the shape will rotate. The centre of rotation can be moved at any time.

- Select the shape and move the mouse pointer over the Rotate handle (see above).
- The **Centre of Rotation** will appear in the centre of the shape:



- Move the mouse over the centre of rotation and click & drag it to another position.

REDEFINE
YOUR FUTURE

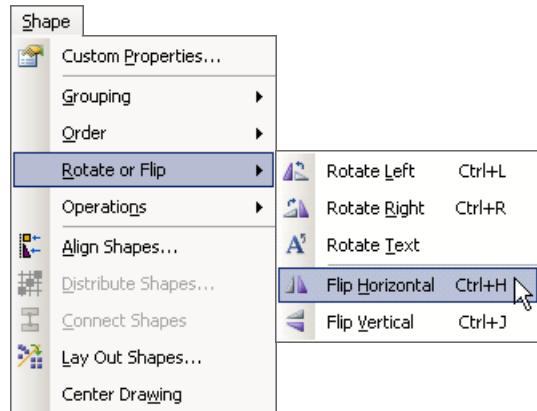
> Join AXA,
A GLOBAL LEADING
COMPANY IN INSURANCE
AND ASSET MANAGEMENT

redefining / standards 

agencecc cdg - © Photononstop

Flipping Shapes

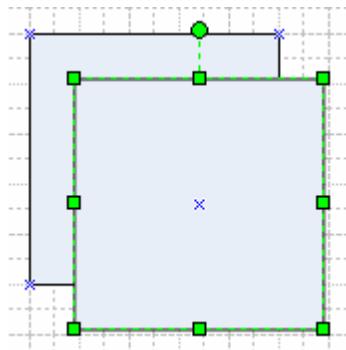
- Select the shape to be flipped.
- Select **Flip Horizontal** or **Flip Vertical** from **Rotate or Flip** in the **Shape** menu:



Duplicating/Copying Shapes

Duplicating a Shape

- Select the shape to be duplicated.
- Select **Duplicate** from the **Edit** menu, and a copy of the shape will appear directly beside the original:



- **CTRL+D** will do the same.

OR

- Hold down the **CTRL** key and move the shape to its new position, a copy is created.

Copying a Shape between Pages

- Select the shape to be copied.
- Select **Copy** from the **Edit** menu.

- Move to the page where the copy is required.
- Select **Paste** from the **Edit** menu.

Moving a Shape between Pages

- Select the shape to be moved.
- Select **Cut** from the **Edit** menu.
- Go to the page where the shape is required.
- Select **Paste** from the **Edit** menu.

OR

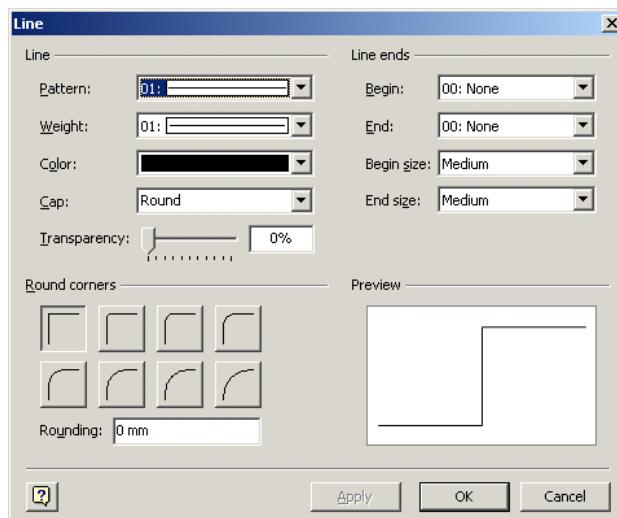
- Use Cut , Copy  and Paste  from the standard toolbar.

Changing the attributes of a Shape

Attributes, such as line and fill colour, can be changed to alter the appearance of a shape.

To Change Line (Border) Attributes

- Select the shape for which the line attributes are to be changed.
- Select **Line** from the **Format** menu – the **Line** dialog box will appear:



Line	Changes the style of the line, e.g. dotted, dashed etc.
Pattern	Changes the thickness of a line or a line around a shape.
Weight	Changes the colour of the line or the line colour of a shape.
Colour	Makes the ends of a line either round or square. This may not be visible if the line is fairly thin.
Cap	This sets the transparency of the line, from 0 to 100.
Transparency	
Line Ends	Changes the style of the beginning/end of the line, e.g. adds arrowhead.
Begin/End	Changes the size of the beginning/end of line attachments.
Begin/End Size	Gives you the option to smooth the corners of the line or shape.
Round Corners	

- Choose **OK** to finish.

Nido

Luxurious accommodation

Central zone 1 & 2 locations

Meet hundreds of international students

BOOK NOW and get a £100 voucher from voucherexpress

Nido Student Living - London

Visit www.NidoStudentLiving.com/Bookboon for more info.
+44 (0)20 3102 1060



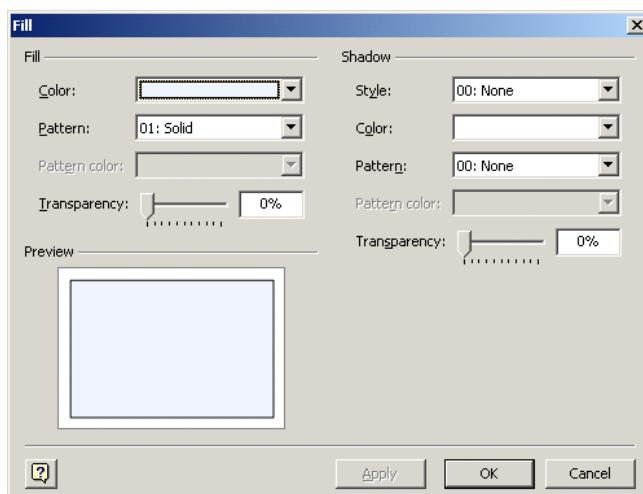
OR

- Select the shape or line.
- From the formatting toolbar:



To Change Fill Attributes

- Select the shape for which the fill attributes are to be changed.
- Select **Fill** from the **Format** menu – the **Fill** dialog box will appear:



Fill

Colour	Allows the colour of the shape to be chosen.
Pattern	Allows a pattern to be applied to the fill of the shape.
Pattern Colour	Allows the colour of the pattern to be chosen.
Transparency	Sets the Transparency of the fill, from 0 to 100.
Shadow	Some Shadow settings can be set from this section, but the Shadow dialog box (from the Format menu) gives more options.

- Choose **OK** to finish.

OR

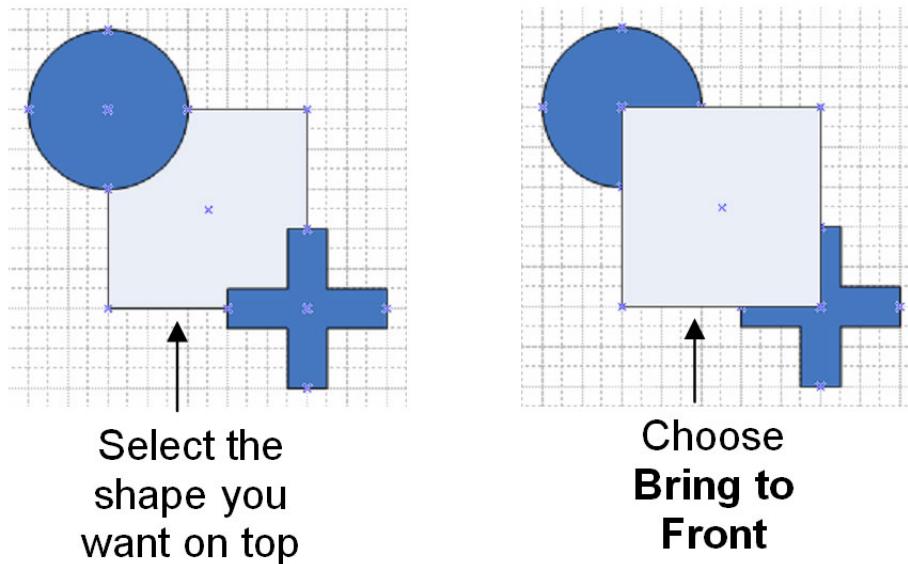
- Select the shape.
- From the formatting toolbar:



Fill Colour.

Stacking Shapes

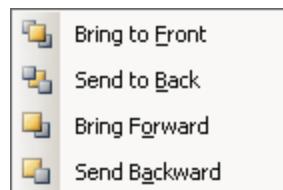
When you are working with shapes, you will find that you sometimes need to stack them to get the effect you want. When you stack shapes on top of each other, they will overlap. Visio has commands to move shapes up or down in a stack.



Bringing Shapes to the Front/Back of a Stack

The **Bring to Front** and **Send to Back** commands move a shape to the top or bottom of the stack.

- Select the shape you want to move.
- From the **Shape** menu, choose **Order**. The following sub-menu will appear:



- Select **Bring to Front** or **Send to Back**.

Bringing Shapes Forward/Backward One Level

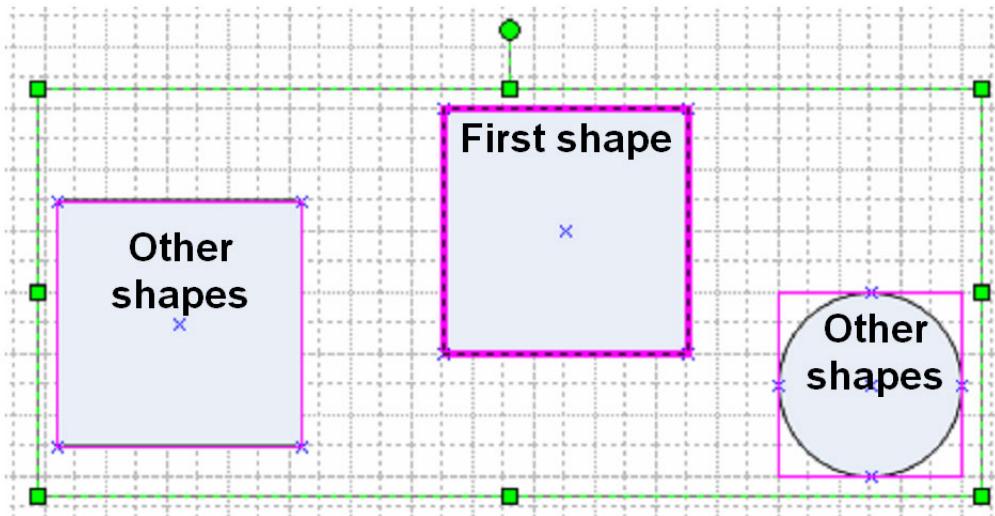
The **Bring Forward** and **Send Backward** commands move a shape up or down in the stack one level at a time.

- Select the shape you want to move.
- Select **Bring Forward** or **Send Backward** from the **Order** option of the **Shape** menu.

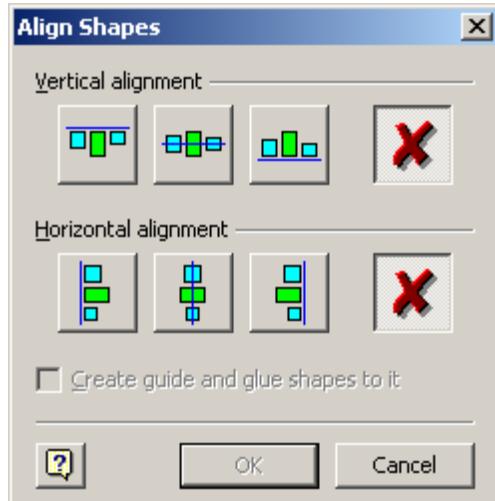
Aligning shapes

If you have created a number of shapes, you can align the entire group on their left/right borders, their top/bottom border or their centres. You do not have to select and move each shape individually.

- Select the first shape, the handles will be green. This will be the **master** shape.
- Select the other shapes using the **SHFT** key (or the **Multiple Select** option from the Pointer Tool dropdown).
- The green handles will surround all of the selected shapes. The first shape (the master) will now have a thick pink border, while the subsequent shapes selected will have a thinner pink border:



- Choose **Align Shapes** from the **Shape** menu, the **Align Shapes** dialog opens:



- Select the type of alignment you require. The green shape on each of the icons refers to the master shape.
- Click on **OK**.

SIMPLY CLEVER

ŠKODA

**WE WILL TURN YOUR CV
INTO AN OPPORTUNITY
OF A LIFETIME**

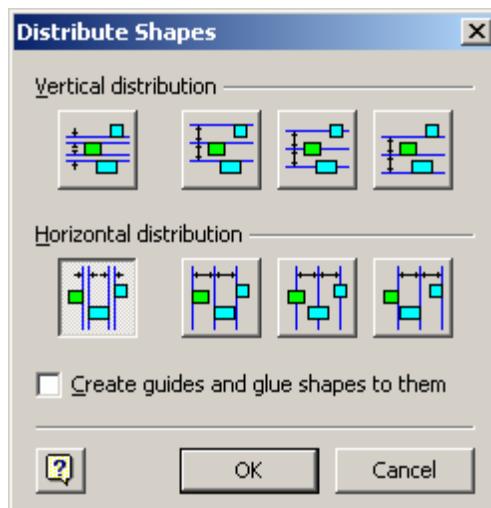
Do you like cars? Would you like to be a part of a successful brand?
As a constructor at ŠKODA AUTO you will put great things in motion. Things that will ease everyday lives of people all around. Send us your CV. We will give it an entirely new new dimension.

Send us your CV on www.employerforlife.com

Distributing Shapes

If you have created a number of shapes, you can distribute space equally between them.

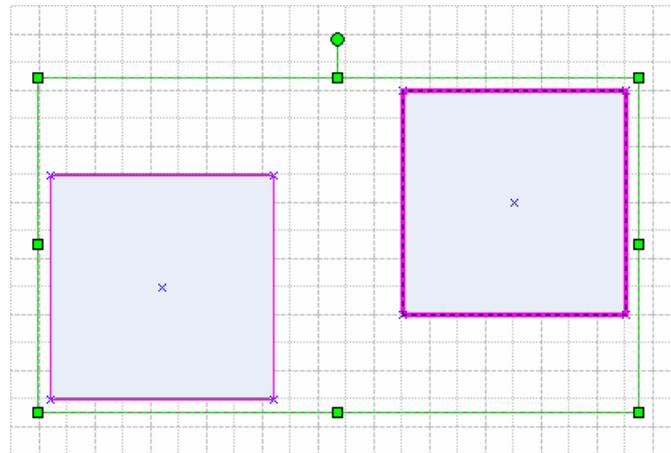
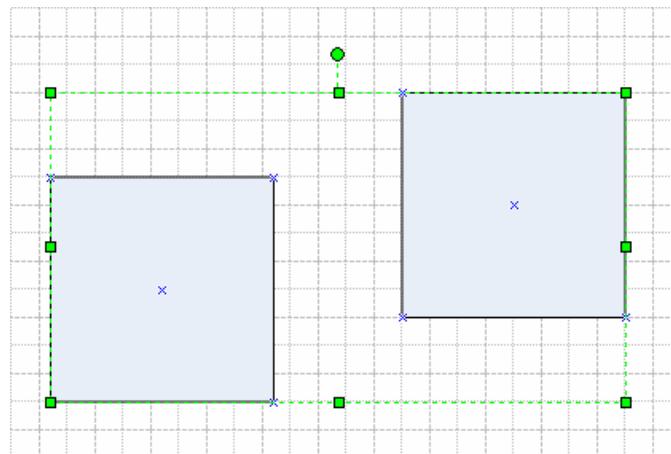
- Select the shapes you want to distribute space between.
- Choose **Distribute Shapes** from the **Shape** menu, the **Distribute Shapes** dialog opens:



- Select the type of distribution you want.
- Click on **OK**.

Grouping Shapes

When you have selected two or more shapes, you can create a group. Once you have a group, any attribute you choose such as shadow or line colour, is assigned to all the individual shapes within a group – as long as it applies (e.g. you cannot have a line with a shaded fill). The grouped shapes all move and rotate as a group.

Two Shapes Selected – NOT Grouped**Two Shapes Grouped****To Group Selected Shapes**

- Select the shapes to be grouped.
- Choose **Grouping** and then **Group** from the **Shape** menu.

OR

- Press **CTRL+G**.

To Ungroup Shapes

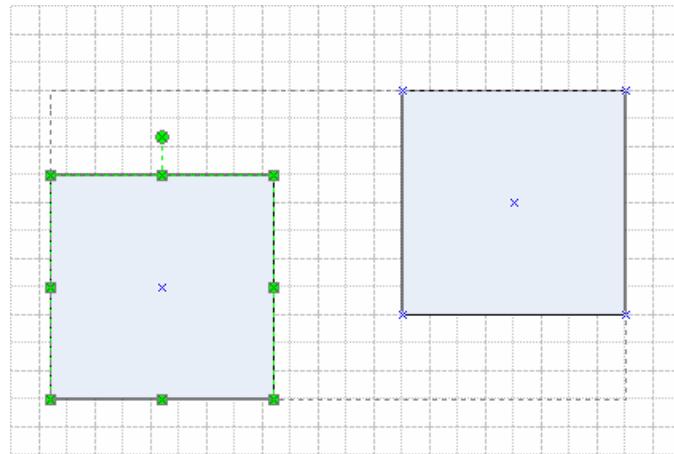
- Select the group by clicking on one of its shapes.
- Choose **Grouping** and then **Ungroup** from the **Shape** menu.

OR

- Press **CTRL+SHFT+U**.

Selecting a Shape within a Group

- Select the group.
- Select the shape you want to alter. When the shape has been selected, its selection handles will contain small crosses.



- Format the shape.
- Or click & drag the shape to move it within the boundaries of the group.
- Click away from the shape to deselect the group when you have finished.

5 Pages & Views

Creating a new page

- A new page can be added after the page that is currently displayed.
- Select **New Page** from the **Insert** menu.
- Choose **OK**.

Moving Between Pages

- Page Tabs appear at the bottom of the screen:



- Click onto a Tab to switch to that page.

OR

- Pressing **CTRL+ Page Up/Down** will move you forward or backward one page at a time through the file.

#1 in eco-friendly attitude

STUDY AT
LINKÖPING UNIVERSITY, SWEDEN
RANKED AMONG TOP 50 UNIVERSITIES UNDER 50

Interested in Engineering and its various branches? Kick-start your career with a master's degree from Linköping University, Sweden.

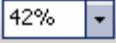
→ **Click here!**

Linköping University

Zooming

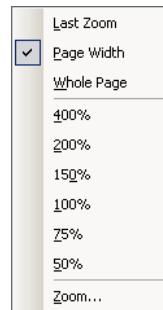
You can zoom in and out of your drawing to see either the whole page or just a portion of it.

Zooming via the Toolbar

- The Zoom drop-down  on the standard toolbar can be used.

Zooming via the Menu

- Choose **Zoom** from the **View** menu. The following sub-menu will appear:



- Select the desired magnification.
- The **Page Width** and **Whole Page** options are especially useful.

Zooming via Keyboard Shortcuts

Position the mouse pointer over the top of the shape on which you want to zoom.

CTRL+SHFT

+ Left mouse button click	Zoom in
+ Right mouse button click	Zoom out
+ Left mouse button & drag	Marquee zoom in
+ Right mouse button & drag	Hand, scroll page

CTRL+W

This is the same as choosing **Whole Page** from the Zoom menu.

Ruler & Grid

The page has a visible Grid of squares designed to help with the positioning of shapes. The size of the squares on this grid will change as you zoom in and out of the page.

There are also vertical and horizontal Rulers found on the left and top of the drawing page.

Both of these features can be adjusted from the **Ruler & Grid** option of the **Tools** menu.

Snap & Glue

As one shape is moved close to another on a drawing page, the two will tend to line up exactly without a gap between them. This is a feature called Snap. This is typically what you would want to happen to help with the overall appearance of your drawing. The feature can be deactivated by choosing **Snap & Glue** from the **Tools** menu.

Guides

Guides are another method designed to help with the positioning of shapes. Both horizontal and vertical guides can be introduced to the drawing page.

- Move the mouse pointer to one of the rulers (the top ruler for a horizontal guide, the left ruler for a vertical).
- Click & drag onto the drawing page. The guide will be created wherever the mouse is released.
- Guides can be moved, copied and deleted just like normal shapes.



UPPSALA
UNIVERSITET

Develop the tools we need for Life Science Masters Degree in Bioinformatics

Bioinformatics is the exciting field where biology, computer science, and mathematics meet.

We solve problems from biology and medicine using methods and tools from computer science and mathematics.

Read more about this and our other international masters degree programmes at www.uu.se/master

Download free eBooks at bookboon.com

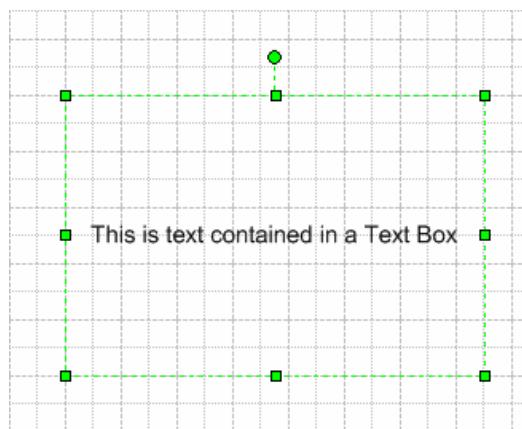


6 Working with Text

Text Boxes

Adding Text to a Drawing

- Select Text Tool  from the standard toolbar.
- Click and drag a box on the page where you want the text to go.
- Type the text.
- Click on the Pointer Tool  when finished:



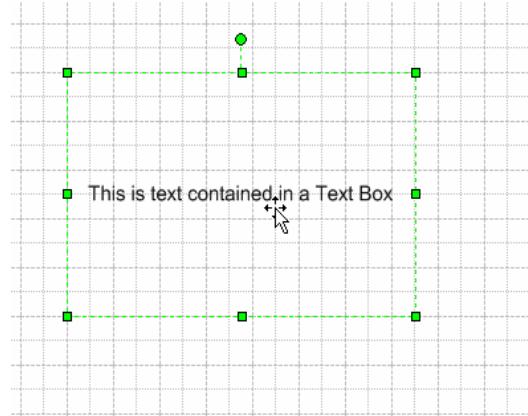
- This has created a **Text Box** to hold the text.

Editing Text in a Text Box

- Double click on the text box to be edited, all text will be highlighted.
- Click into the text and start editing.
- Click outside the text box when finished.

Moving a Text Box

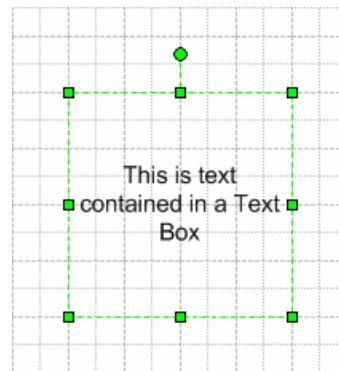
- Click on the text to be moved – the handles will appear around the outside.
- Point at the text or the border (but not the space in between):



- Click and drag to the new position.

Resizing A Text Box

- Click on the text box to be resized.
- Drag the handles to resize the box (the font size will not change):



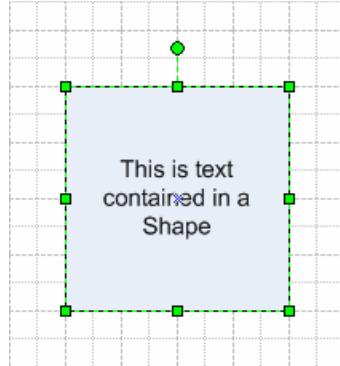
Rotating a Text Box

This is the same process as rotating a shape (see Rotating Shapes on Page 3).

Shapes

Adding Text to a Shape

- Drag the shape onto the page or click to select an existing shape.
- Start typing. Visio will automatically switch to the typing mode and zoom in on the shape.
- Click outside of the shape when finished:



Editing Text in a Shape

- Double click on the shape whose text is to be edited, all text will be highlighted.
- Click into the text and start editing.
- Click outside the shape when finished.

UNIVERSITY OF COPENHAGEN 

Copenhagen Master of Excellence

Copenhagen Master of Excellence are two-year master degrees taught in English at one of Europe's leading universities

Come to Copenhagen - *and aspire!*

Apply now at www.come.ku.dk



cultural studies



religious studies

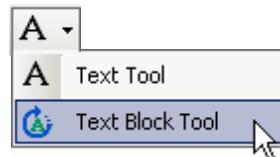


science

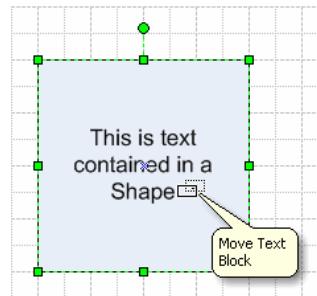
Moving Text in a Shape

The text in a shape is housed in a Text Frame (or Text Block). This text frame starts off with the same dimensions as the shape, and is positioned on top of it. It can therefore be difficult to see.

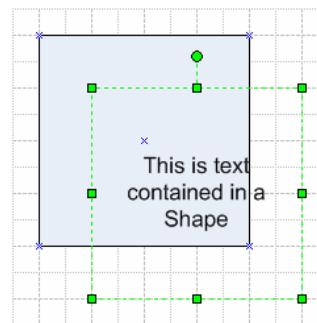
The text frame has the ability to be moved or resized independently of the shape, if required. This is done by activating the **Text Block Tool**, from the Text Tool drop-down on the standard toolbar:



- With the Text Block Tool activated, move the mouse cursor over the text to be moved:



- Click and drag the text frame to its new position:

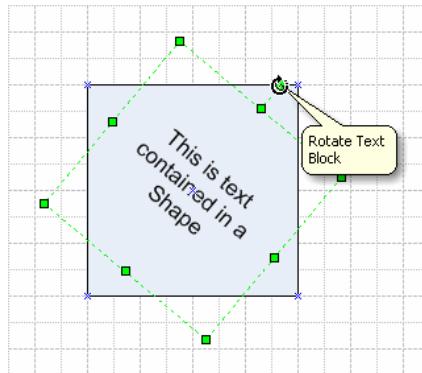


Resizing a Text Frame in a Shape

- Activate the Text Block Tool.
- The selection handles that are visible will now resize the Text Frame, not the shape.

Rotating a Frame in a Shape

- Activate the Text Block Tool.
- The Rotate handle that is visible will now rotate the Text Frame, not the shape.



Formatting Text

Text attributes such as font, size and colour can be changed using the formatting toolbar and commands from the **Format** menu. Before text can be formatted it has to be selected.

To Select All Text in a Text Box or Shape

- Click on the text to be selected – handles will appear around the box.
- The box (and therefore all of its text) is now selected.

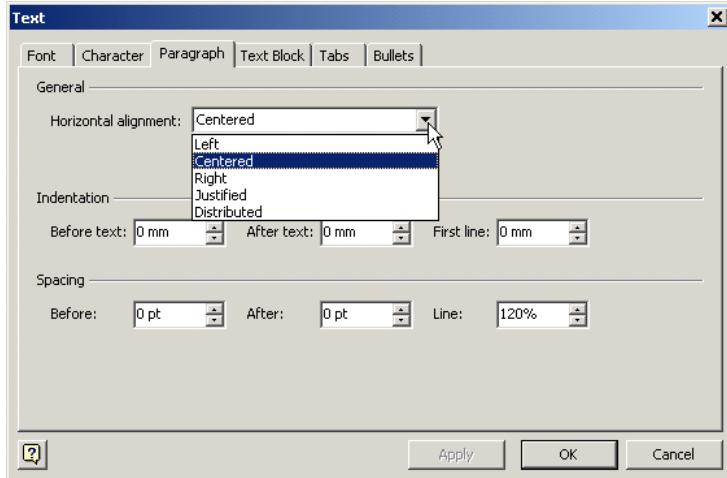
To Select Some of the Text in a Text Box or Shape

- Select the text box.
- Click at the start of the text to be selected.
- Click and drag the mouse to highlight and select the required text.

Alignment of text

Horizontal Alignment

- Select the shape.
- Choose **Text** from the **Format** menu, then choose the **Paragraph** tab.
- Choose the desired alignment from the **Horizontal Alignment** drop down box:



- Choose **OK**.

OR

- Use the Align icons  on the formatting toolbar.
- Use the Increase/ Decrease indent icons  to increase or decrease indentation of the text

Brain power

By 2020, wind could provide one-tenth of our planet's electricity needs. Already today, SKF's innovative know-how is crucial to running a large proportion of the world's wind turbines.

Up to 25 % of the generating costs relate to maintenance. These can be reduced dramatically thanks to our systems for on-line condition monitoring and automatic lubrication. We help make it more economical to create cleaner, cheaper energy out of thin air.

By sharing our experience, expertise, and creativity, industries can boost performance beyond expectations.

Therefore we need the best employees who can meet this challenge!

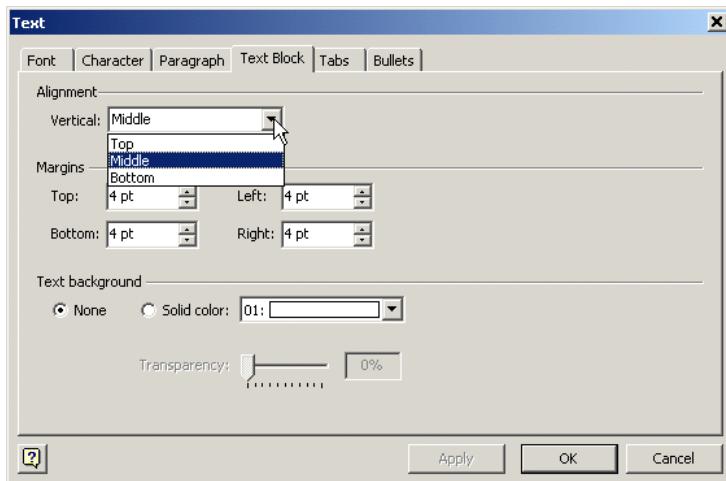
The Power of Knowledge Engineering

Plug into The Power of Knowledge Engineering.
Visit us at www.skf.com/knowledge

SKF

Vertical Alignment

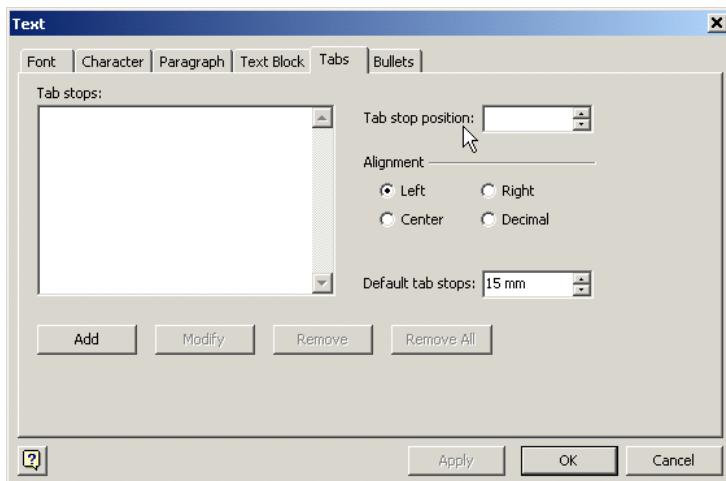
- Select the shape.
- Choose **Text** from the **Format** menu, and then choose the **Text Block** tab.
- Choose the desired alignment from the **Vertical Alignment** drop down box:



- Choose **OK**.

Tabs within A Text Box or Shape

- Select the text box.
- Choose **Text** from the **Format** menu, then choose the **Tabs** tab.
- In the **Tab stop position** box on the right of the dialog box, enter the position at which you want the tab:



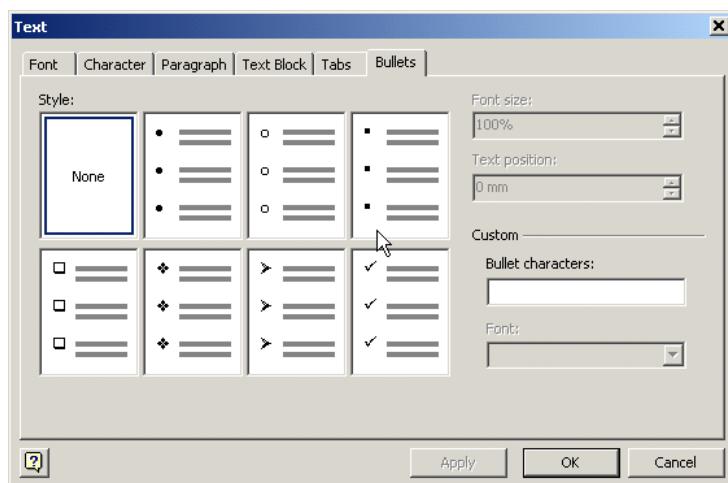
- Choose what type of alignment you require from the **Alignment** section.
- Choose **Add**.
- Repeat the above steps for any other tabs.
- Choose **OK**.
- By pressing the **Tab** key, you will move to the programmed positions.

Bullets within A Text Box or Shape

- Select the text box.
- Click the **Bullets** button  on the Formatting toolbar.

OR

- Select the text box.
- Choose **Text** from the **Format** menu, then choose the **Bullets** tab.
- Choose the bullet **Style** required:

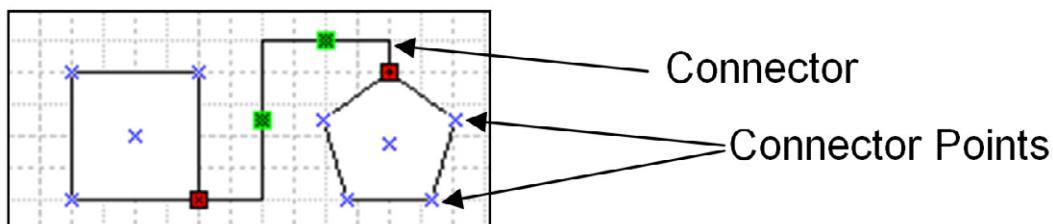


- Choose **OK**.

7 Connectors

Overview

Connectors are lines that connect your shapes. Once a connection has been made, when the shape is moved, the connector points stay connected and move with the shape.



You can connect any two shapes together. You can bring your shapes out already connected or connect them when they are on the drawing page.

Using the AutoConnect option

Trust and responsibility

NNE and Pharmaplan have joined forces to create NNE Pharmaplan, the world's leading engineering and consultancy company focused entirely on the pharma and biotech industries.

Inés Aréizaga Esteva (Spain), 25 years old
Education: Chemical Engineer

– You have to be proactive and open-minded as a newcomer and make it clear to your colleagues what you are able to cope. The pharmaceutical field is new to me. But busy as they are, most of my colleagues find the time to teach me, and they also trust me. Even though it was a bit hard at first, I can feel over time that I am beginning to be taken seriously and that my contribution is appreciated.



NNE Pharmaplan is the world's leading engineering and consultancy company focused entirely on the pharma and biotech industries. We employ more than 1500 people worldwide and offer global reach and local knowledge along with our all-encompassing list of services. nnepharmaplan.com

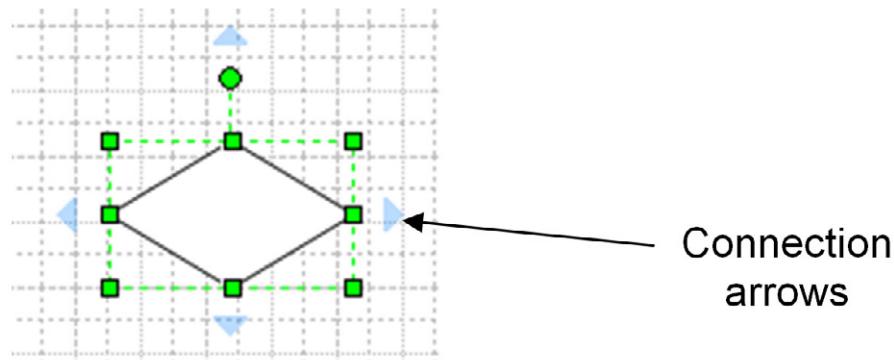
nne pharmaplan®

Visio 2007 made it easier to automatically connect, evenly distribute, and accurately align shapes by adding AutoConnect option.

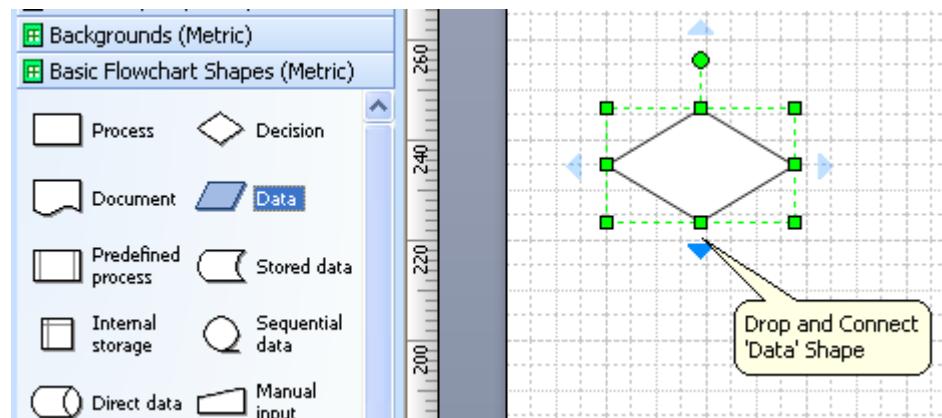
- Check if the AutoConnect button  on the **Standard Toolbar** is switched on.



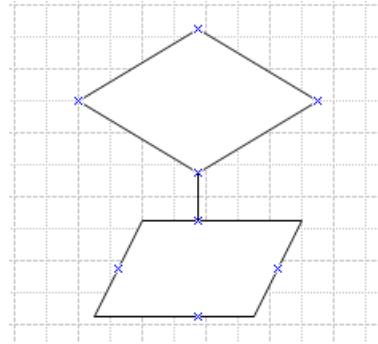
- Insert the first shape to your drawing. If you hover over it with your mouse pointer, blue arrowheads will become visible. Those are the connection arrows.



- Move back to the stencil and select the next shape by clicking on it.
- Hover over the first shape until the blue arrow heads become visible. Move to the arrow head you want to use as your connection point and click on it.

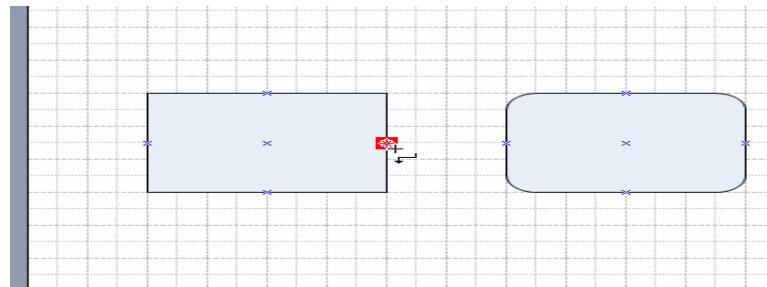


- Your shapes will now be connected.

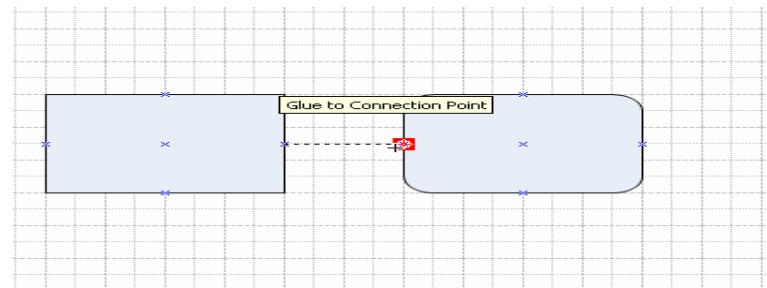


Creating a Point-to-Point Connection

- Choose the Connector Tool .
- Move the mouse over one of the connection points of the first shape:



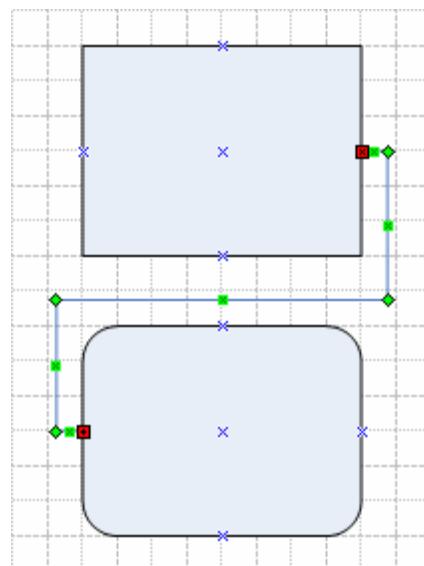
- Click & Drag to a connection point on the second shape:



- The connector is now fixed to the two connection points. This is indicated by the 'x' and '+' symbols in the red squares:

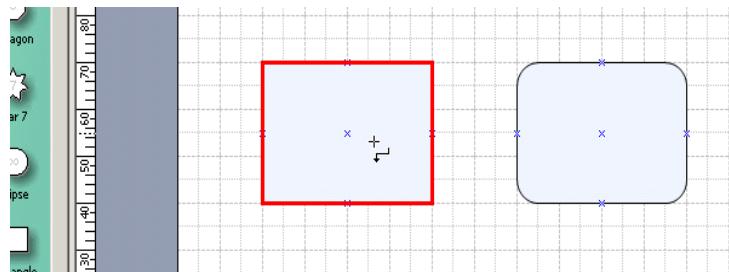


- If either of the two shapes were to move, the connector would stay fixed to the same two connection points:

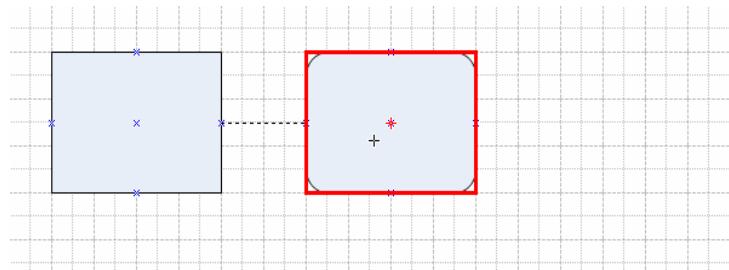


Creating a Shape-to-Shape Connection

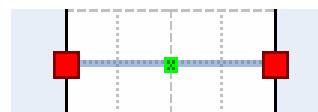
- Choose the Connector Tool .
- Move the mouse over the first shape. The whole shape becomes selected:



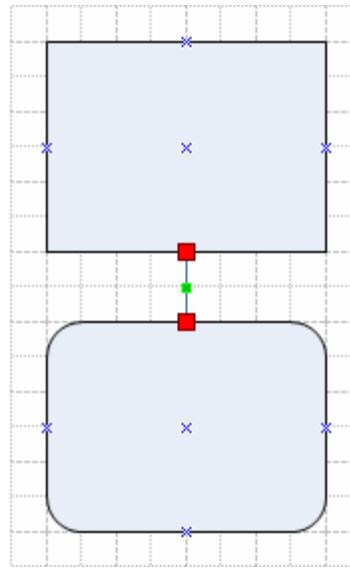
- Click & Drag over to the second shape. It will also become selected:



- The connector is now fixed to the two shapes. This is indicated by the larger, empty red squares:



- If either of the two shapes were to move, the connector would move to the two closest connection points:



Connecting Multiple Shapes

- Select the shapes you want to connect.
- Choose the **Connect Shapes** from the **Shape** menu.
- This forms a Shape-to-Shape Connection between the shapes.

Automatically Connected Shapes



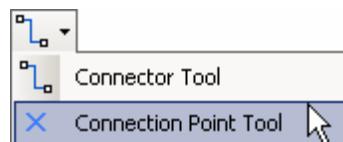
- Choose the Connector Tool .
- Select the shape you require and drag onto the page.
- Select another shape you require and drag onto the page.
- Shapes are automatically connected using a Shape-to-Shape connection.

Working With connection points

Sometimes you may want to have connection points in specific positions on a shape. Visio has predefined connection points, but these can be altered.

Adding a Connection Point

- Select the shape.
- Choose the **Connection Point Tool** from the Connector Tool drop-down:



- Move your mouse pointer to the position on the shape where you want to add a connection point.
- Hold down the **CTRL** key, the mouse pointer will be carrying a small cross at the tip.
- Click the mouse and the extra connection point will be added.

Deleting a Connection Point

- Choose the **Connection Point Tool**.
- Click on the connection point you want to delete.
- The connection point will go pink.
- Press the **Delete** key.



Sharp Minds - Bright Ideas!

We offer
A challenging job in an international and innovative company that is leading in its field. You will get the opportunity to work with the most advanced technology together with highly skilled colleagues.

Read more about FOSS at www.foss.dk - or go directly to our student site www.foss.dk/sharpminds where you can learn more about your possibilities of working together with us on projects, your thesis etc.

Dedicated Analytical Solutions

FOSS
 Slangerupgade 69
 3400 Hillerød
 Tel. +45 70103370
www.foss.dk



FOSS

Sharp Minds - Bright Ideas!

Employees at FOSS Analytical A/S are living proof of the company value - First - using new inventions to make dedicated solutions for our customers. With sharp minds and cross functional teamwork, we constantly strive to develop new unique products - Would you like to join our team?

FOSS works diligently with innovation and development as basis for its growth. It is reflected in the fact that more than 200 of the 1200 employees in FOSS work with Research & Development in Scandinavia and USA. Engineers at FOSS work in production, development and marketing, within a wide range of different fields, i.e. Chemistry, Electronics, Mechanics, Software, Optics, Microbiology, Chemometrics.

We offer
A challenging job in an international and innovative company that is leading in its field. You will get the opportunity to work with the most advanced technology together with highly skilled colleagues.

Read more about FOSS at www.foss.dk - or go directly to our student site www.foss.dk/sharpminds where you can learn more about your possibilities of working together with us on projects, your thesis etc.

Dedicated Analytical Solutions

FOSS
 Slangerupgade 69
 3400 Hillerød
 Tel. +45 70103370
www.foss.dk





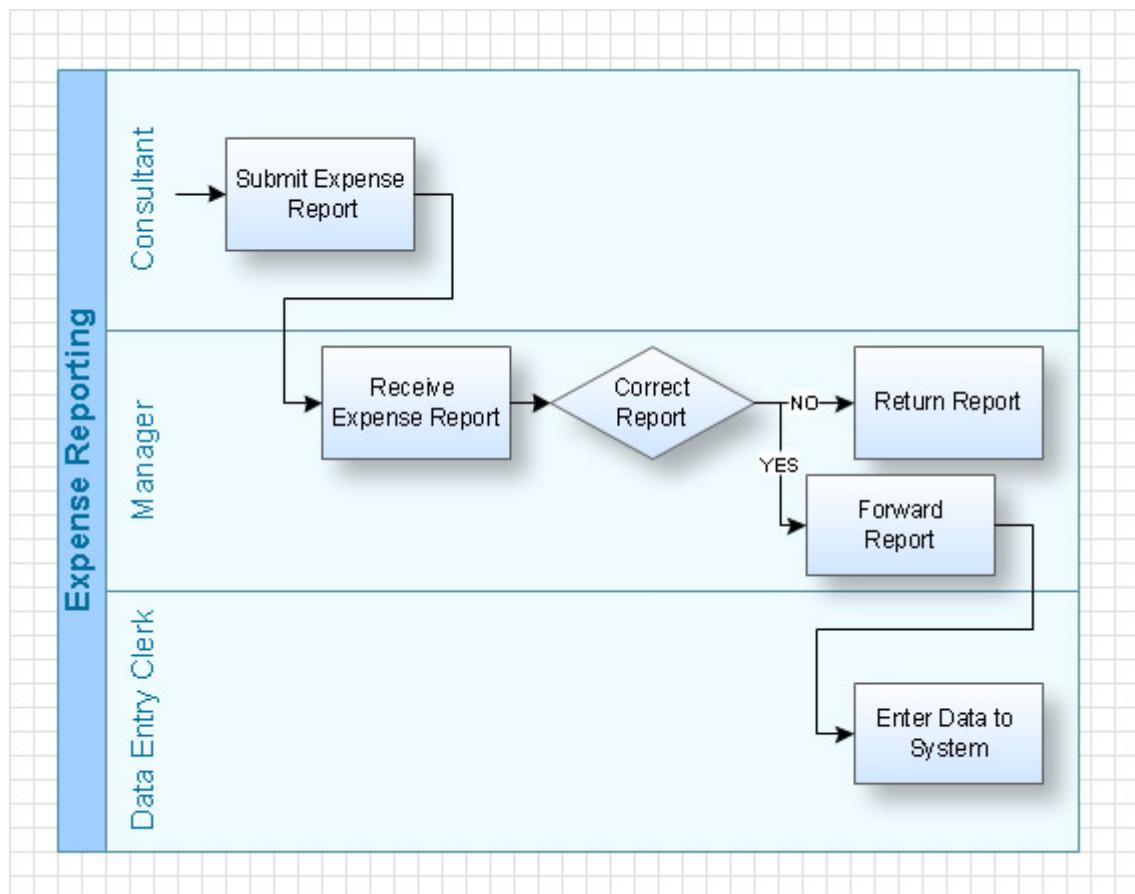




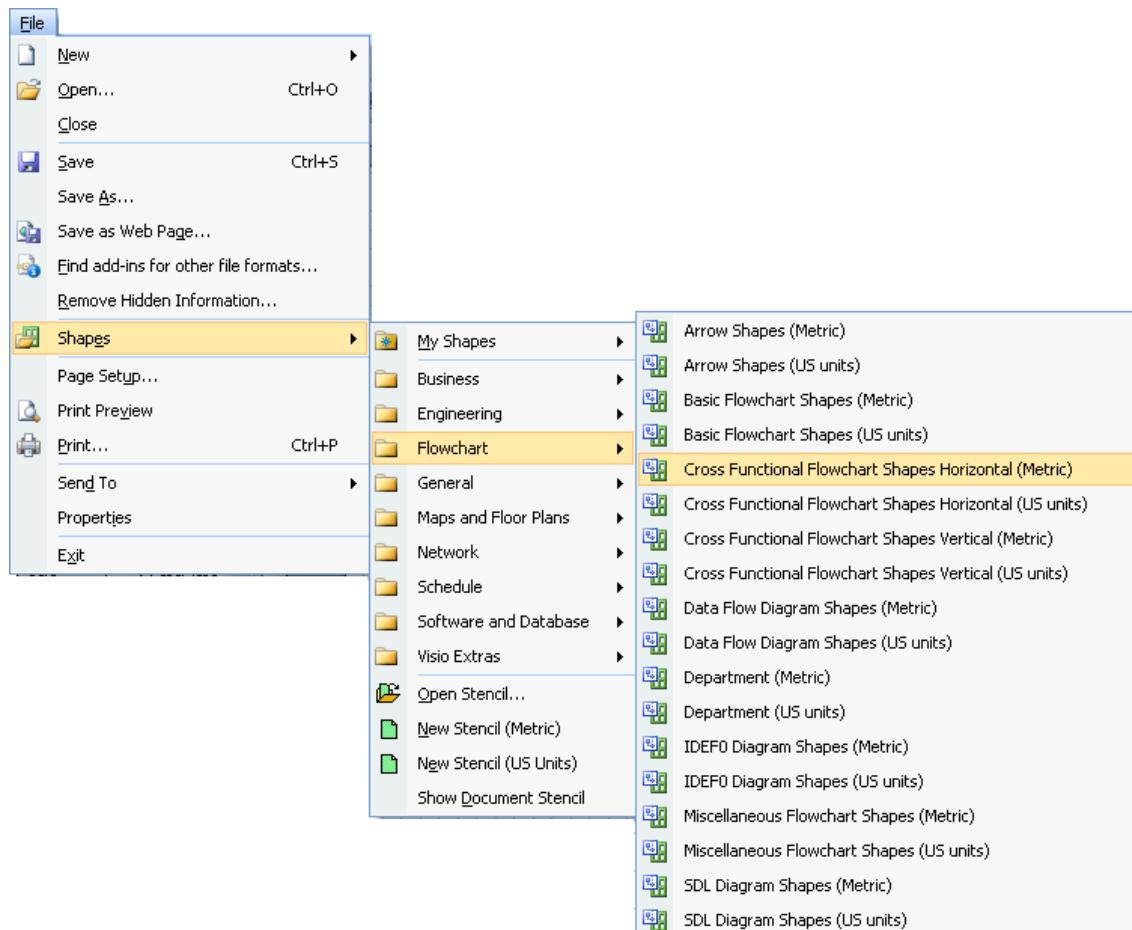



Working with cross-functional bands (Swim Lanes)

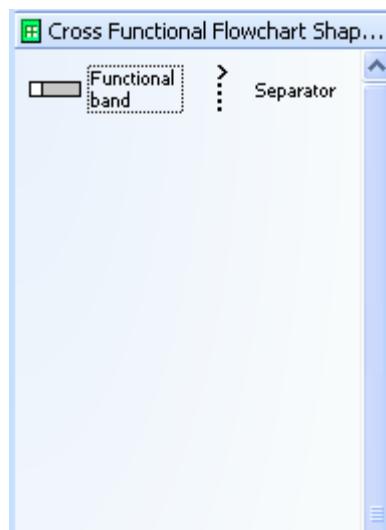
The swim lane flowchart differs from other flowcharts in that processes and decisions are grouped visually by placing them in lanes.



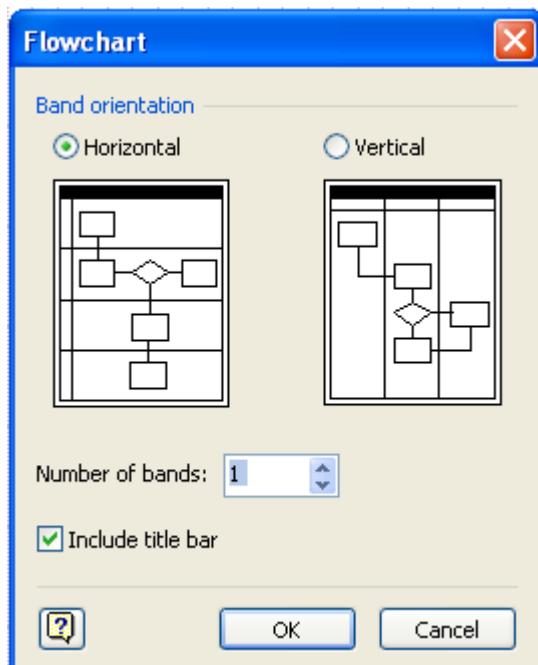
- From the File menu select **Shapes**, **Flow Chart**, **Cross Functional Flowchart Shapes**.



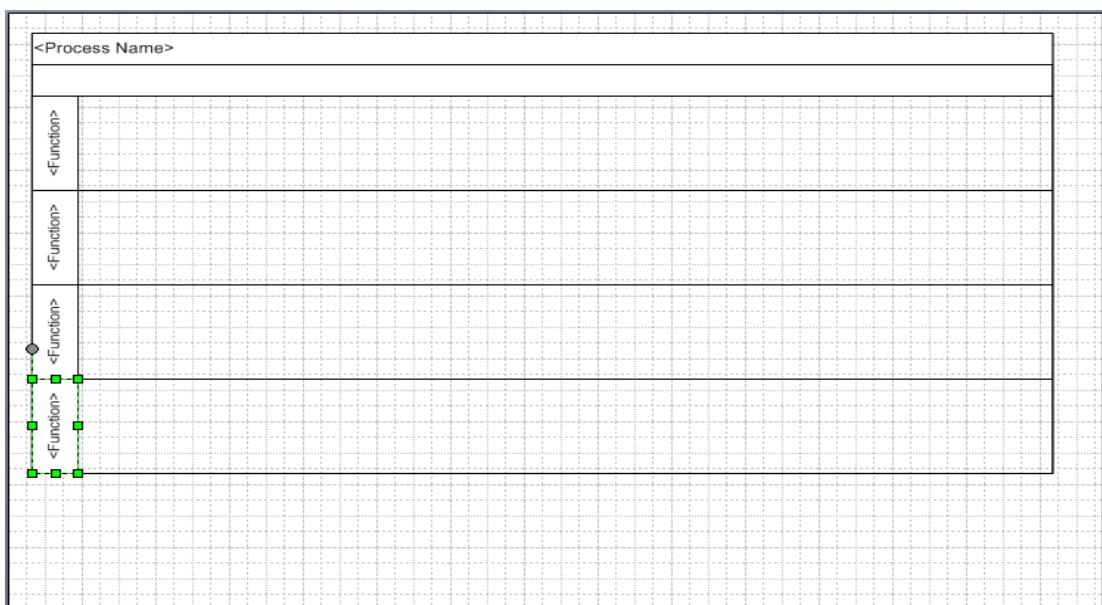
- The **Functional Flowchart Shapes** stencil will open.



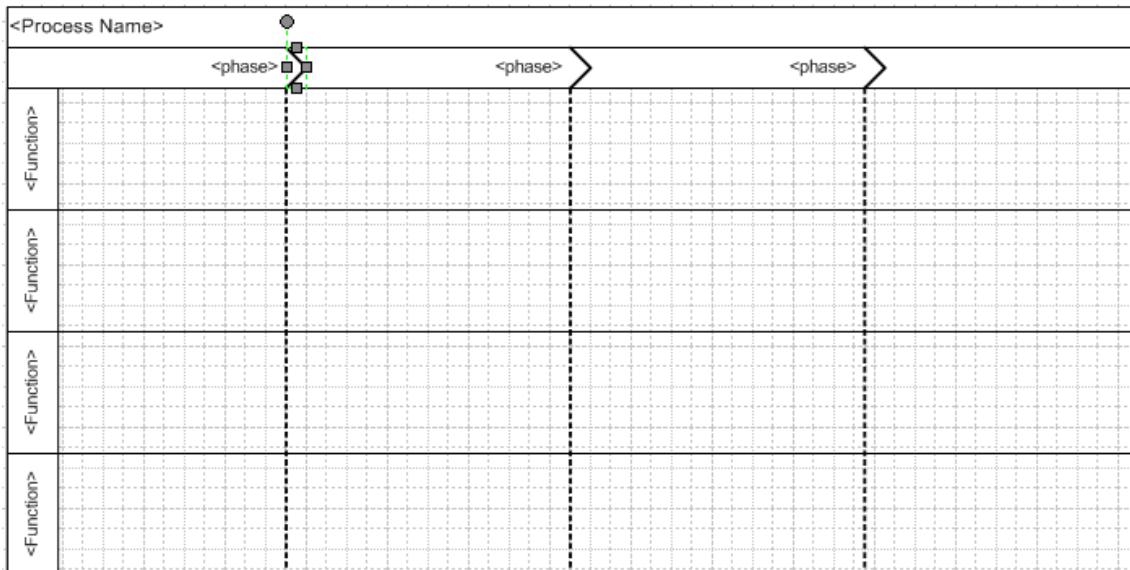
- Click and drag onto your page the Functional band. You will be presented with the flow chart options window.



- Select the orientation and number of bands needed and click OK.
- The bands will be created on the drawing page.



- Type the Process Name and Function names into provided shapes.
- You can now create your Flowchart and group the flowchart shapes by positioning them in the bands provided.
- To divide the flow chart into the phases click and drag the separator and drop it where required.



**“I studied English for 16 years but...
...I finally learned to speak it in just six lessons”**

Jane, Chinese architect

ENGLISH OUT THERE

Click to hear me talking before and after my unique course download



8 Drawing Shapes

As well as offering a multitude of shapes in its stencils, Visio also provides tools to enable the drawing of shapes. The Drawing toolbar is activated using the Drawing Tools icon on the standard toolbar:



- Click onto the appropriate tool for the shape you want to draw.
- Move the mouse cursor onto the drawing page.
- Click and drag to produce the shape or line.

The tools are divided into shape tools and line tools.

Shape

	Rectangle Tool	For a rectangle or a square. Click and drag a frame for the shape, from one corner diagonally across to the opposite corner. For a square, hold down the SHFT key as you are dragging.
--	----------------	--

	Ellipse Tool	For an ellipse or a circle. Click and drag a frame for the shape, from one corner diagonally across to the opposite corner. For a circle, hold down the SHFT key as you are dragging.
--	--------------	---

Line

	Line Tool	For straight lines. Click and drag from the start point to the finish. Holding down the SHIFT key will ensure the lines are at 45° increments.
--	-----------	---

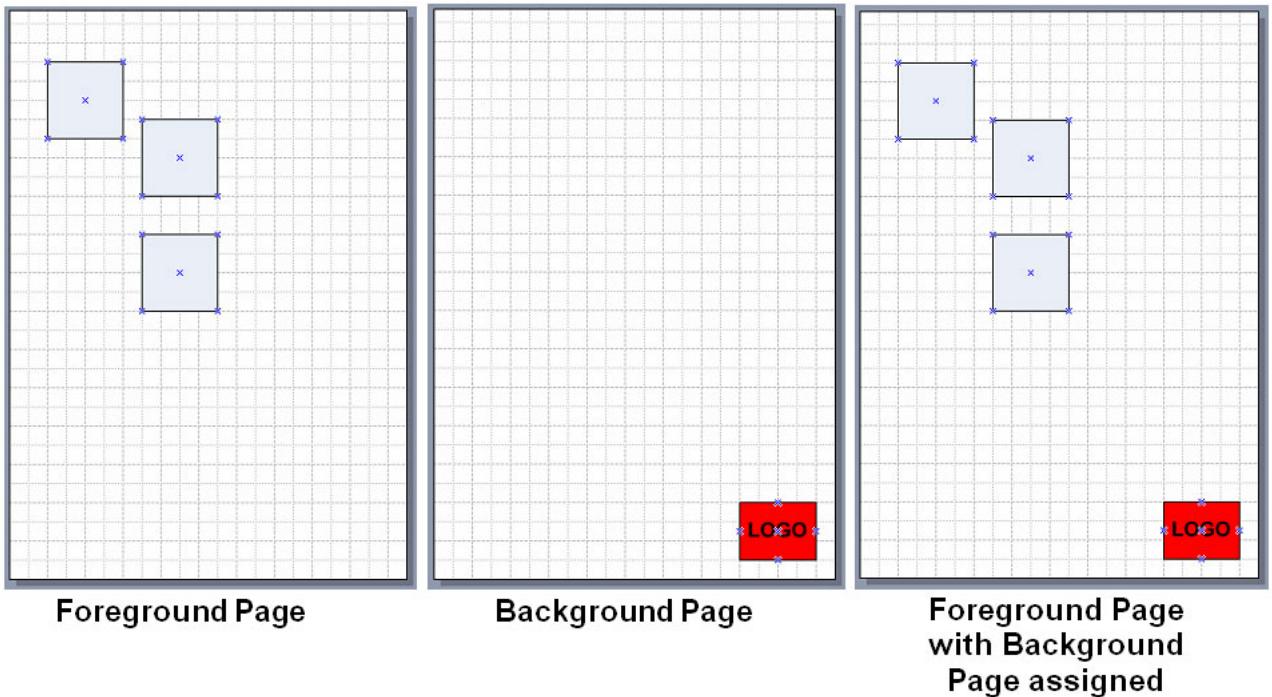
	Arc Tool	For arcs. Click and drag from the start point to the finish. Choose the pointer tool to adjust the curve with the control handle.
--	----------	--

	Freeform Tool	For an irregular shape. 'Bend' points are provided for adjusting the shape.
--	---------------	--

	Pencil Tool	The pencil tool can be used to draw both straight lines and arcs. It uses 'gesture-recognition' to decide which type of line to create.
--	-------------	---

9 Background Pages

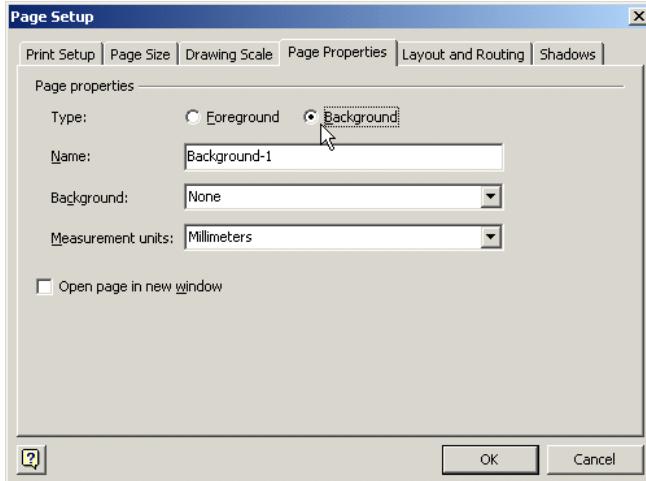
Each Visio drawing contains at least one page; its foreground page. A drawing may also contain one or more background pages. When you assign a background page to a foreground page, the shapes on the background page are also visible on the foreground page. This can be a very useful way of displaying a logo, for example.



You can assign only one background page to a foreground page, but each background page can also have its own background page. This allows multiple background pages to be used to create a layered effect.

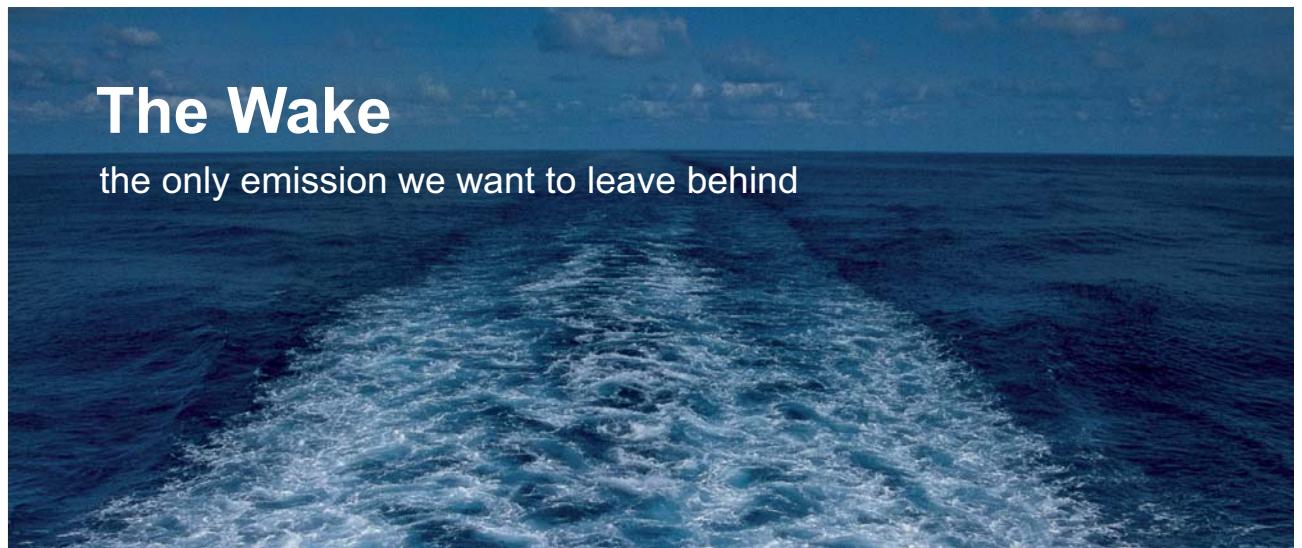
Inserting a Background Page

- Choose **New Page** from the **Insert** menu.
- In the **Page Setup** box, choose **Background** from the **Type** section:



- Visio will give a default name of 'Background-1', until you create a new name.
- Choose **OK**.
- Design the layout of the background page.

The Wake
the only emission we want to leave behind



Low-speed Engines Medium-speed Engines Turbochargers Propellers Propulsion Packages PrimeServ

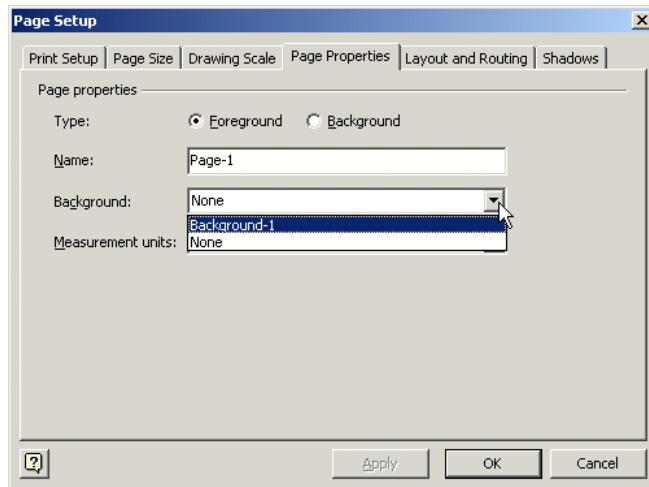
The design of eco-friendly marine power and propulsion solutions is crucial for MAN Diesel & Turbo. Power competencies are offered with the world's largest engine programme – having outputs spanning from 450 to 87,220 kW per engine. Get up front! Find out more at www.mandieselturbo.com

Engineering the Future – since 1758.
MAN Diesel & Turbo



Assigning a Background Page

- Display the foreground page for which you wish to assign a background page.
- Choose **Page Setup** from the **File** menu. Click onto the **Page Properties** tab.
- Choose the desired Background page from the drop-down:



- Choose **OK**.

Creating a Background Page from an Existing Page

- Display the foreground page you wish to become the Background Page.
- Choose **Page Setup** from the **File** menu. Click onto the **Page Properties** tab.
- Select **Background** from the **Type** section.
- Choose **OK**.

Editing an Existing Background Page

- Display the background page as you would a normal foreground page:



- Edit as normal.

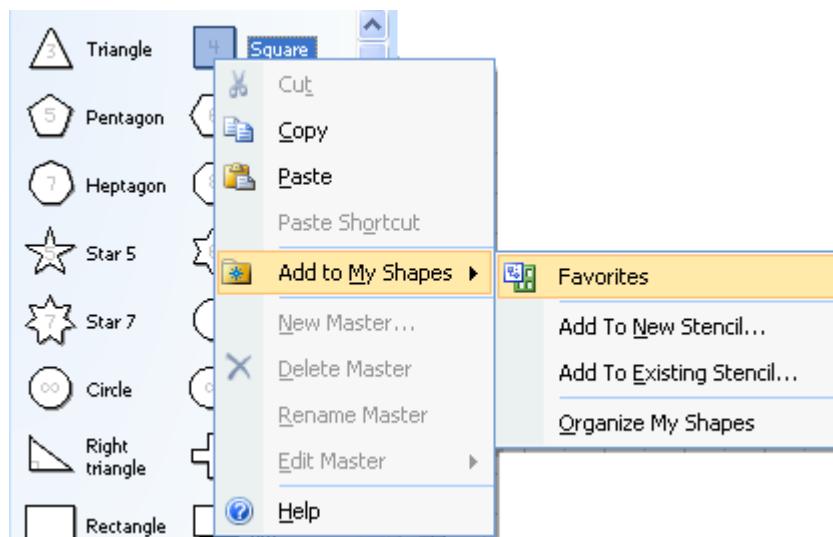
10 Custom Stencils

The Favourites stencil is one that is automatically created when you install Visio and is located in the My Shapes folder, in My Documents. It can be used to store shapes that you use often, those that you create yourself, or even your customised versions of shapes from other stencils.

The Favourites Stencil

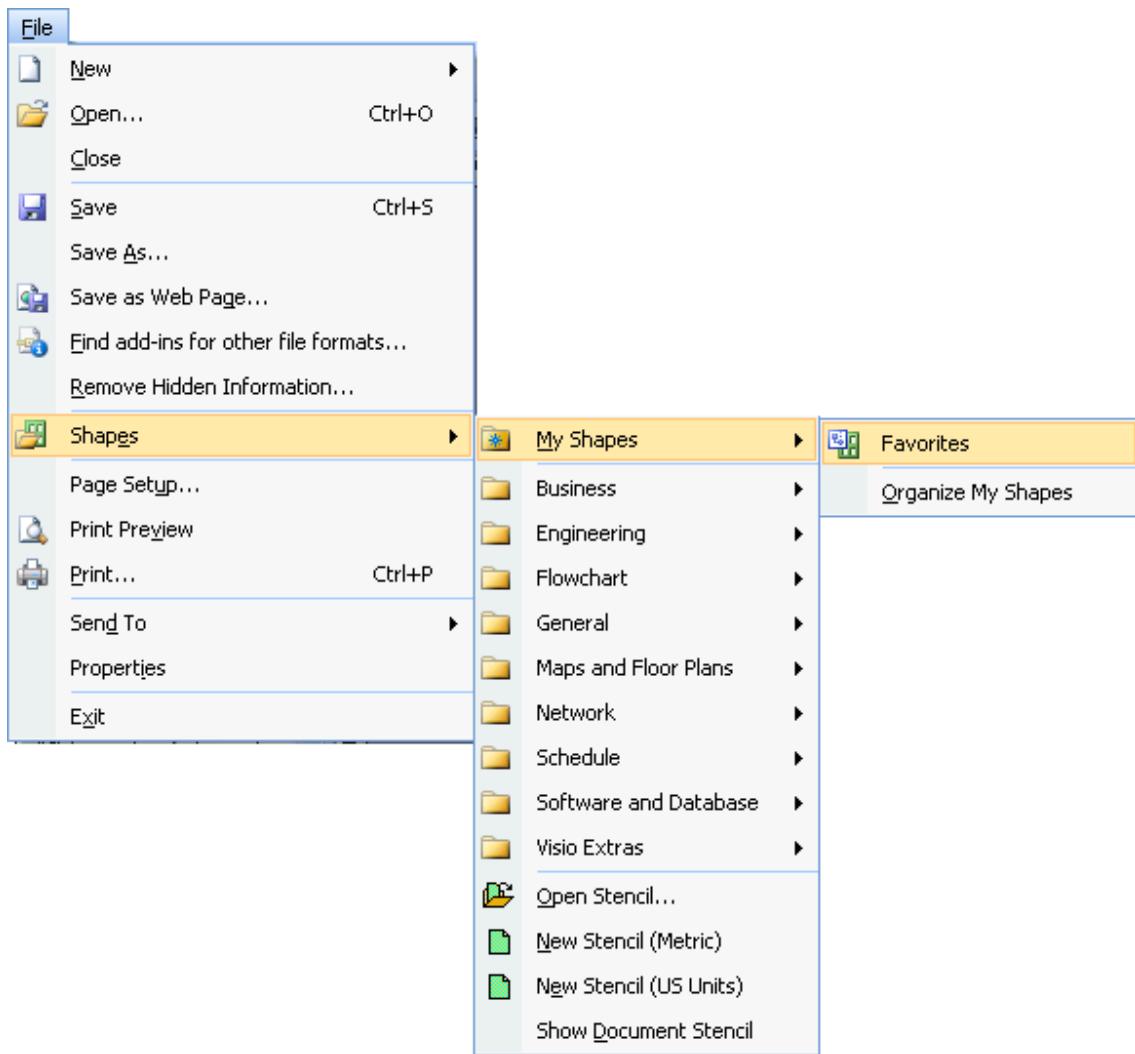
Adding Shapes From an Existing Stencil to Favourites

- Locate the shape (on any stencil).
- Right-click on the required shape.
- Select **Add To My Shapes** then **Favourites**:

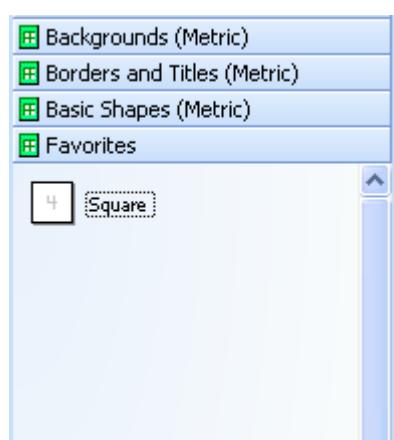


Viewing Favourites

- From the File menu, choose **Shapes** then **My Shapes** and **Favourites**:



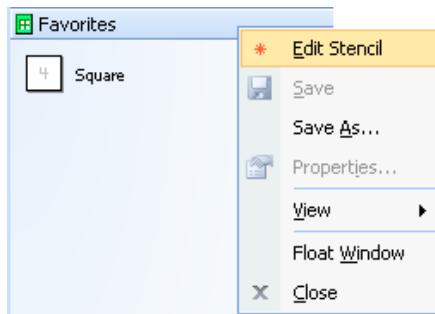
- Favourites will open below your current stencils:



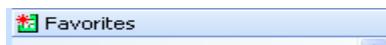
- Shapes on this stencil can be used in exactly the same way as those from any other.

Adding Shapes From A Drawing to Favourites

- View the Favourites as described in the previous point.
- Right-click on the title ‘Favourites’ and choose **Edit Stencil**.



- A red star will now appear on the icon:



- From the drawing page, simple drag your shape onto the Favourites stencil.
- It will appear with a name such as ‘Master.4’.
- Right-click the new ‘master’ and choose **Rename** if you want to change the name.

Saving Changes to Favourites

- Any time a new shape is added to the Favourites stencil, a disk icon will appear in the corner of the stencil as a reminder to save the changes:



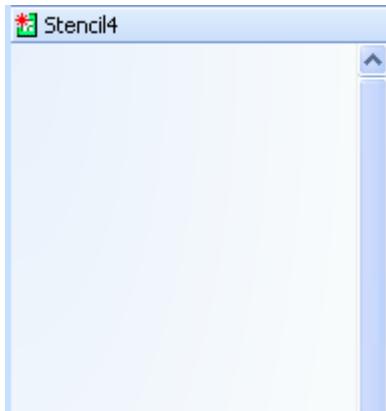
- Click onto this disk icon to save the changes. It will disappear once it has been clicked onto.

New Stencils

Although the Favourites makes it easy to store and access shapes, other stencils can also be created.

Creating a New Stencil

- From the **File** menu, choose **Shapes**, then **New Stencil**.
- The **Blank Stencil** will appear:



Adding Shapes to the New Stencil

- This can be done by dragging shapes onto the stencil, either from an existing stencil or from the drawing page.



**Technical training on
WHAT you need, WHEN you need it**

At IDC Technologies we can tailor our technical and engineering training workshops to suit your needs. We have extensive experience in training technical and engineering staff and have trained people in organisations such as General Motors, Shell, Siemens, BHP and Honeywell to name a few.

Our onsite training is cost effective, convenient and completely customisable to the technical and engineering areas you want covered. Our workshops are all comprehensive hands-on learning experiences with ample time given to practical sessions and demonstrations. We communicate well to ensure that workshop content and timing match the knowledge, skills, and abilities of the participants.

We run onsite training all year round and hold the workshops on your premises or a venue of your choice for your convenience.

For a no obligation proposal, contact us today at training@idc-online.com or visit our website for more information: www.idc-online.com/onsite/

**OIL & GAS
ENGINEERING**

ELECTRONICS

**AUTOMATION &
PROCESS CONTROL**

**MECHANICAL
ENGINEERING**

**INDUSTRIAL
DATA COMMS**

**ELECTRICAL
POWER**

Theme colours and Theme effects

Theme- Colours

Once you have created your Visio drawing you can choose from a set of professionally designed, built-in theme colors, or create your own color scheme to match your company logo and branding. The theme colors that come with Visio match the theme colors in other 2007 Microsoft Office system programs, such as PowerPoint and Word.

- On the Formatting toolbar click the **Theme** button .
- All available themes will be displayed in the **Task Pane**.



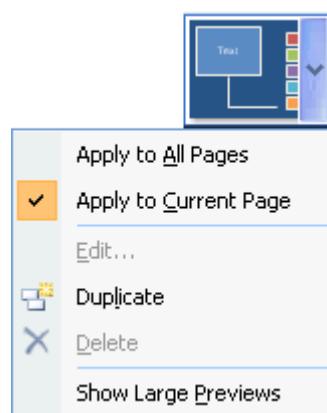
- Hover your mouse over the **Theme** to see its name.



- Click on the selected Theme to add it to the active page

OR

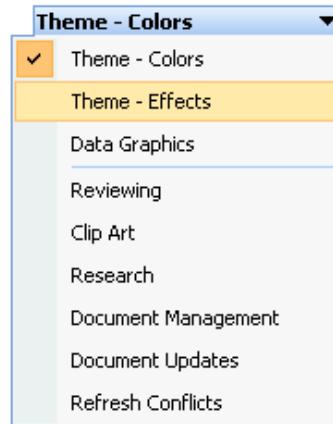
- Click on the arrow on the right hand side of the theme for the choice of applying it to the Current Page or All Pages in your drawing.



Theme- Effects

You can make your drawings more visually consistent and appealing by applying a unified set of design elements for fonts, fills, shadows, lines, and connectors.

- Click on the Task pane name and select Theme- Effects option.



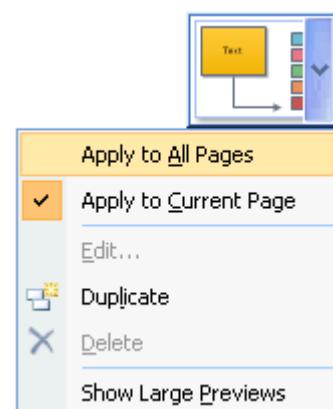
- The task pane will display a number of different effect options you can use for your drawing.
- Hover your mouse over the effect to see its name.



- Click on the selected Effect to add it to the active page

OR

- Click on the arrow on the right hand side of the effect for the choice of applying it to the Current Page or All Pages in your drawing.



11 Printing

Print Preview

It can be quite useful to see your drawing before you print it.

- Choose **Print Preview** from the **File** menu.

OR

- Choose the Print Preview icon  from the Standard Toolbar.
- When you have finished previewing your drawing, choose **Close** from the **Print Preview** toolbar:



I joined MITAS because
I wanted **real responsibility**

The Graduate Programme
for Engineers and Geoscientists
www.discovermitas.com

Month 16
I was a construction supervisor in the North Sea advising and helping foremen solve problems

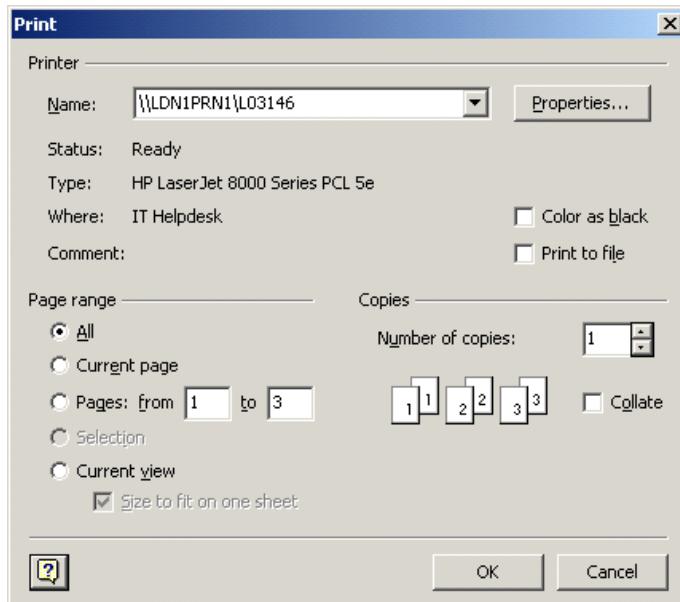
Real work
International opportunities
Three work placements

Download free eBooks at bookboon.com

Printing your Drawing

- From the **File** menu, select **Print**:



- The Page Range section gives the following choices:

All	Prints every page in the drawing file in the order in which they appear.
Current Page	Prints the currently displayed drawing page.
Pages:	Prints only the specific range of pages identified by the values you type in the From and To boxes.
Selection	Prints the currently selected shapes.
Current View	Prints the part of the drawing that shows in the program window.

- Make your choice and choose **OK**.

12 Visio & Other Applications

Visio drawings can be easily copied into other applications such as Word or PowerPoint.

- Select the shape (or shapes) on your Visio drawing. Remember **CTRL+A** is a quick way to select all shapes on a page.
- Copy these (using the Edit menu or toolbar icon).
- Go to your Word document (for example), and Paste.
- The shapes are automatically pasted as a grouped object to make it easier to move or resize them.



13 Keyboard Shortcuts

CTRL+A	Select all the shapes on the active drawing page.
CTRL+C	Copy the selection to the Clipboard.
CTRL+D	Duplicate the selection.
CTRL+G	Group the selected shapes.
CTRL+H	Flip the selected shape horizontally.
CTRL+J	Flip the selected shape vertically.
CTRL+L	Rotate the selected shape to the left.
CTRL+N	Open a new drawing based on the open drawing.
CTRL+O	Open an existing drawing.
CTRL+P	Open the Print dialog box.
CTRL+R	Rotate the selected shape to the right.
CTRL+S	Save the drawing.
CTRL+V	Paste the contents of the Clipboard.
CTRL+W	Zoom to show the whole page.
CTRL+X	Cut the selection to the Clipboard.
CTRL+Y	Reverse the action of the Undo command.
CTRL+Z	Undo the last action you performed.
CTRL+SHIFT+B	Send the selected shape to the back.
CTRL+SHIFT+F	Bring the selected shape to the front.
CTRL+SHIFT+U	Ungroup the selected group.
CTRL+ENTER	Insert the selected master shape into the drawing (from stencil).
CTRL+F4	Close the active drawing window.
CTRL+ drag shape	Copy the selected shape.
SHIFT+ drag shape	Move the selected shape in a straight line (up/down or left/right).
CTRL+SHIFT+ left mouse click	Zoom in at mouse pointer position.
CTRL+SHIFT+ right mouse click	Zoom out from mouse pointer position.
ALT+F6	Zoom in.
ALT+SHIFT+F6	Zoom out.
F4	Repeat the previous action.
F8	Open the Align Shapes dialog box.
F12	Open the Save As dialog box.