Module 14: Creating Graphical Effects

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Overview

Coordinate System

Graphics Methods

Graphical Controls
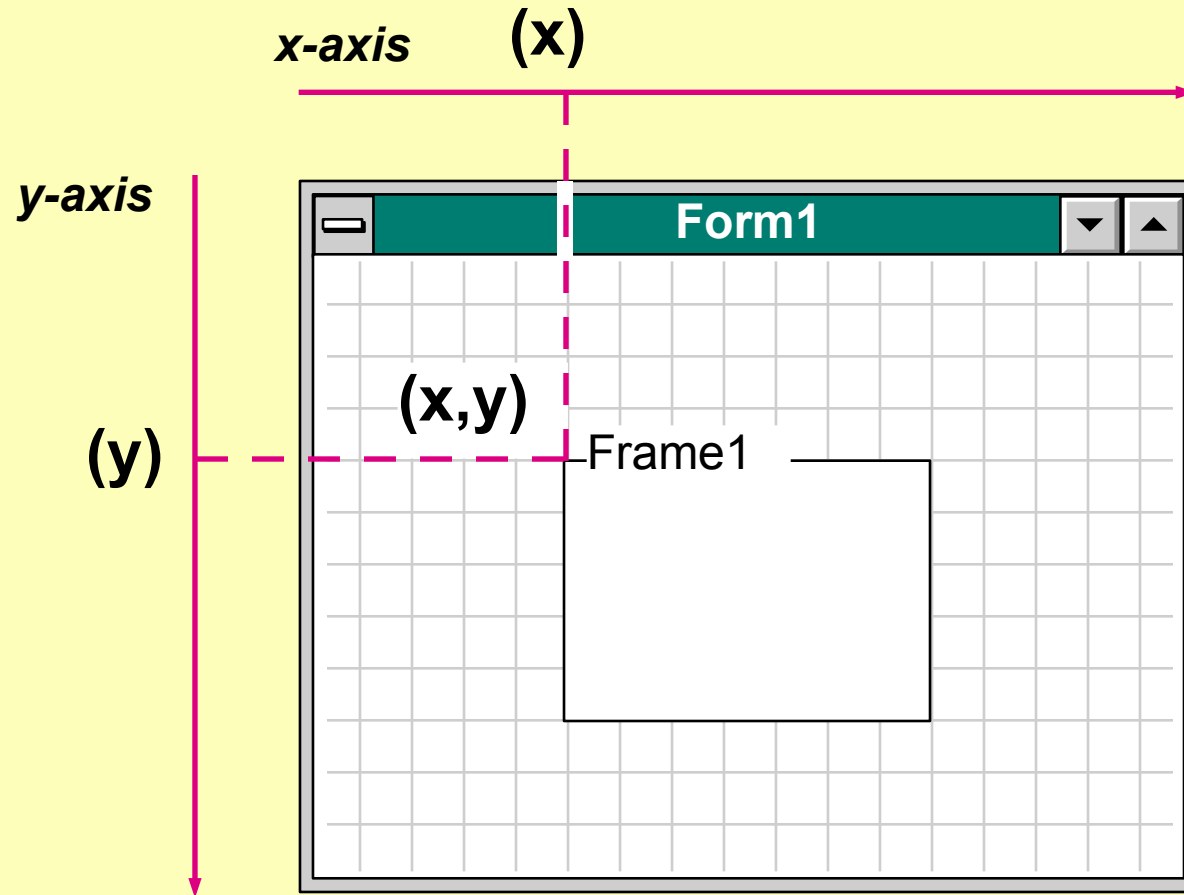
Picture Boxes

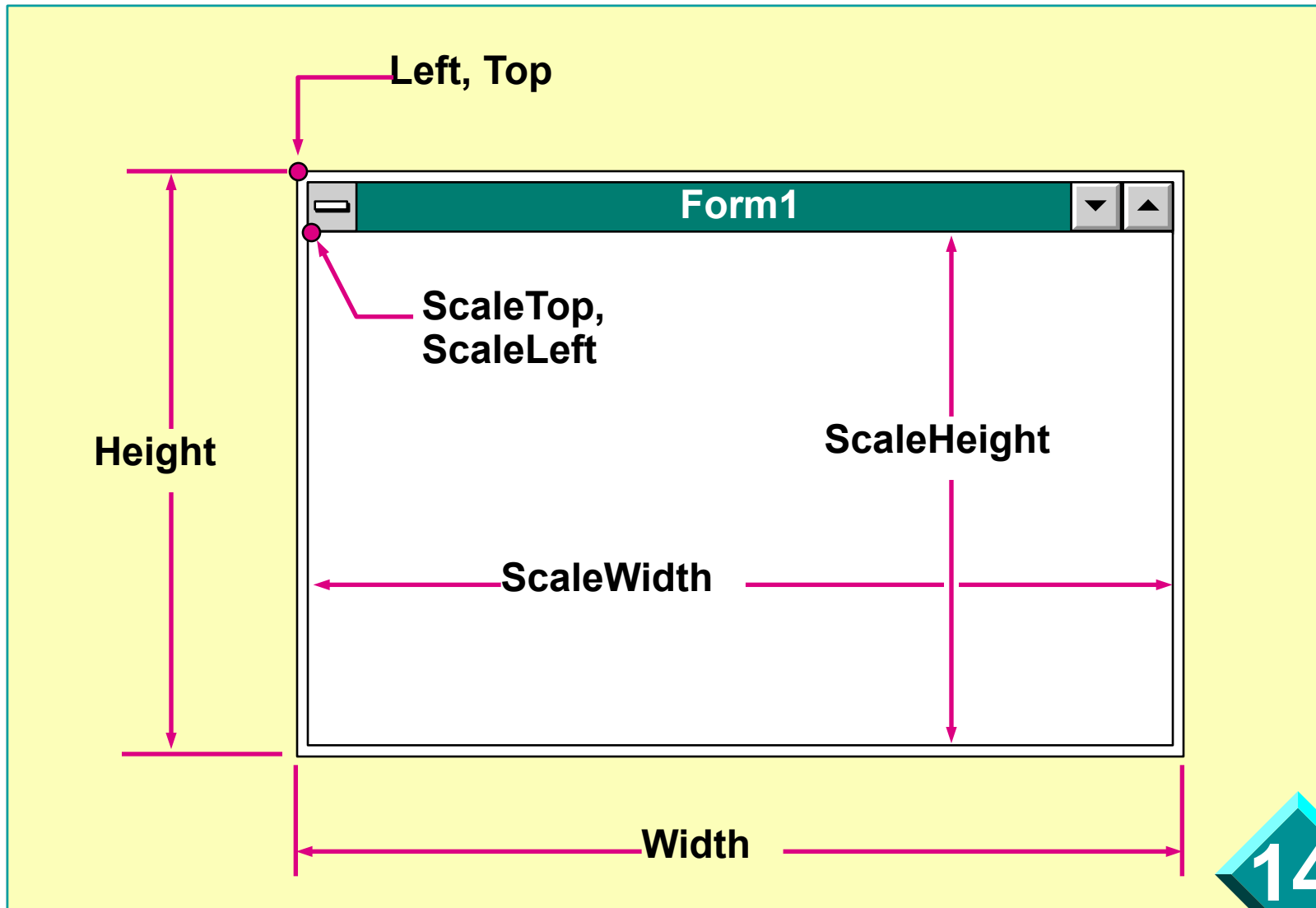Using Colors

Managing Redrawing Graphics

Graph Control from the Visual Basic
   Professional Edition

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Placing a Graphic or Control

x-axis (x)

y-axis

(y)

(x,y)

Form1

Frame1

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Changing the Coordinate System Units

Left, Top

Form1

ScaleTop,
ScaleLeft

ScaleHeight

Height

ScaleWidth

Width

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Changing Coordinate System Units: Standard Scales

User-Defined

Twips (Default)

Points

Pixels

Characters

Inches

Millimeters

Centimeters

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Changing Coordinate System Units: User-Defined Scale - The Scale Method

(50, 100)

100 ⬤

400
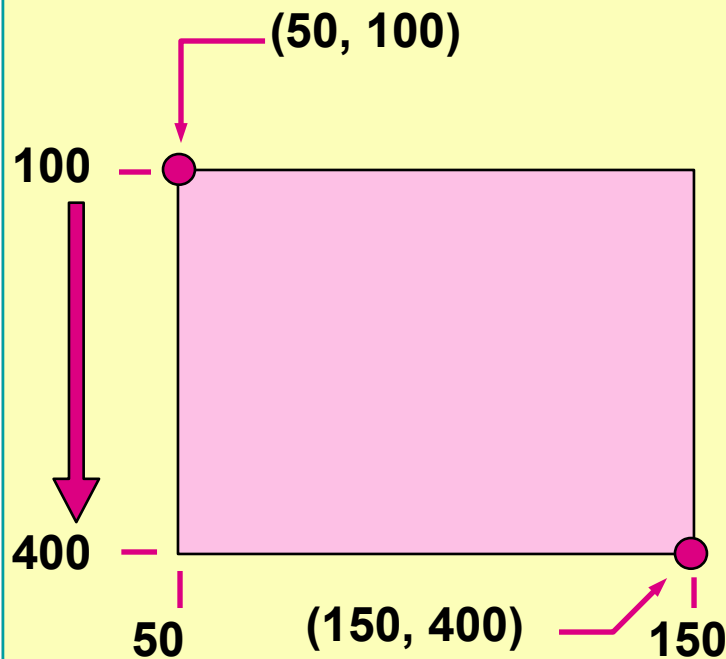
50   **(150, 400)**   150

ScaleHeight	=	300
ScaleWidth	=	100
ScaleLeft	=	50
ScaleTop	=	100

Scale (50, 100) - (150, 400)

(50, 400)

400 ⬤

100
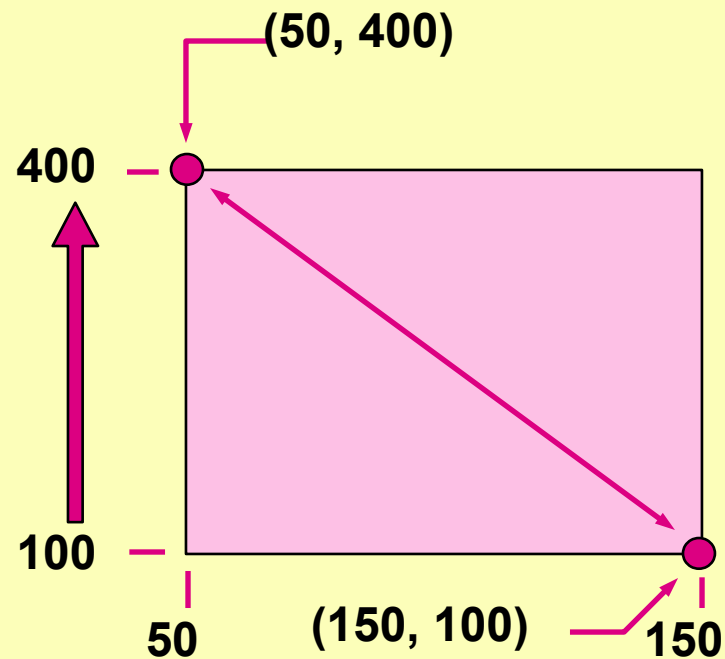
50   **(150, 100)**   150

ScaleHeight	=	-300
ScaleWidth	=	100
ScaleLeft	=	50
ScaleTop	=	400

Scale (50, 400) - (150, 100)

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Using a Picture to Display a Complicated Control

Bunch of Control Buttons

1	6	11	16	21	26	31	36	41	46
2	7	12	17	22	27	32	37	42	47
3	8	13	18	23	28	33	38	43	48
4	9	14	19	24	29	34	39	44	49
5	10	15	20	25	30	35	40	45	50

Picture1

Quit

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Graphic Layers

Command Button

List Box

Top Layer

Line Control

Middle Layer

Ellipse Created Using the Circle Method

Bottom Layer

Rearrange Within Layer - ZOrder Method

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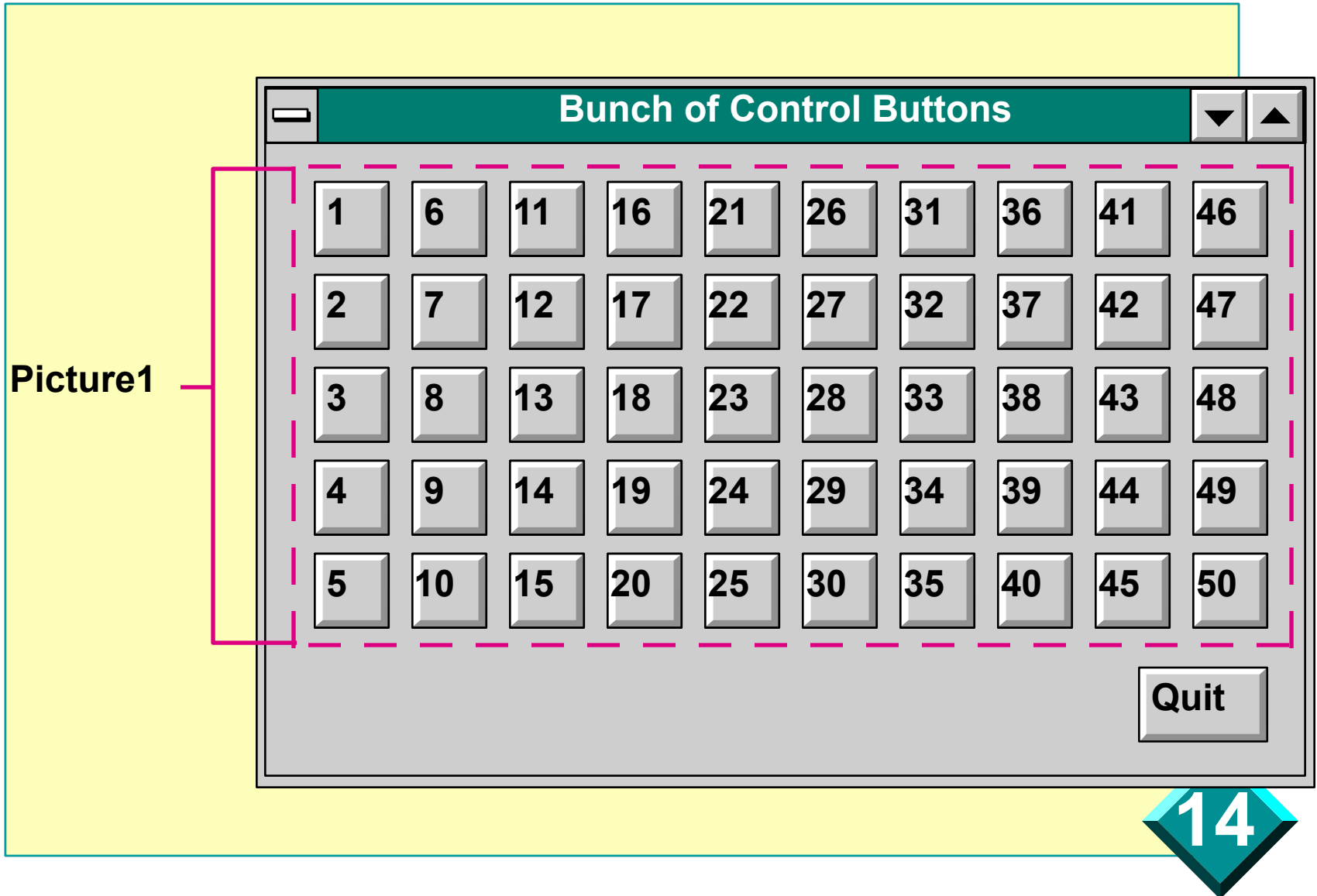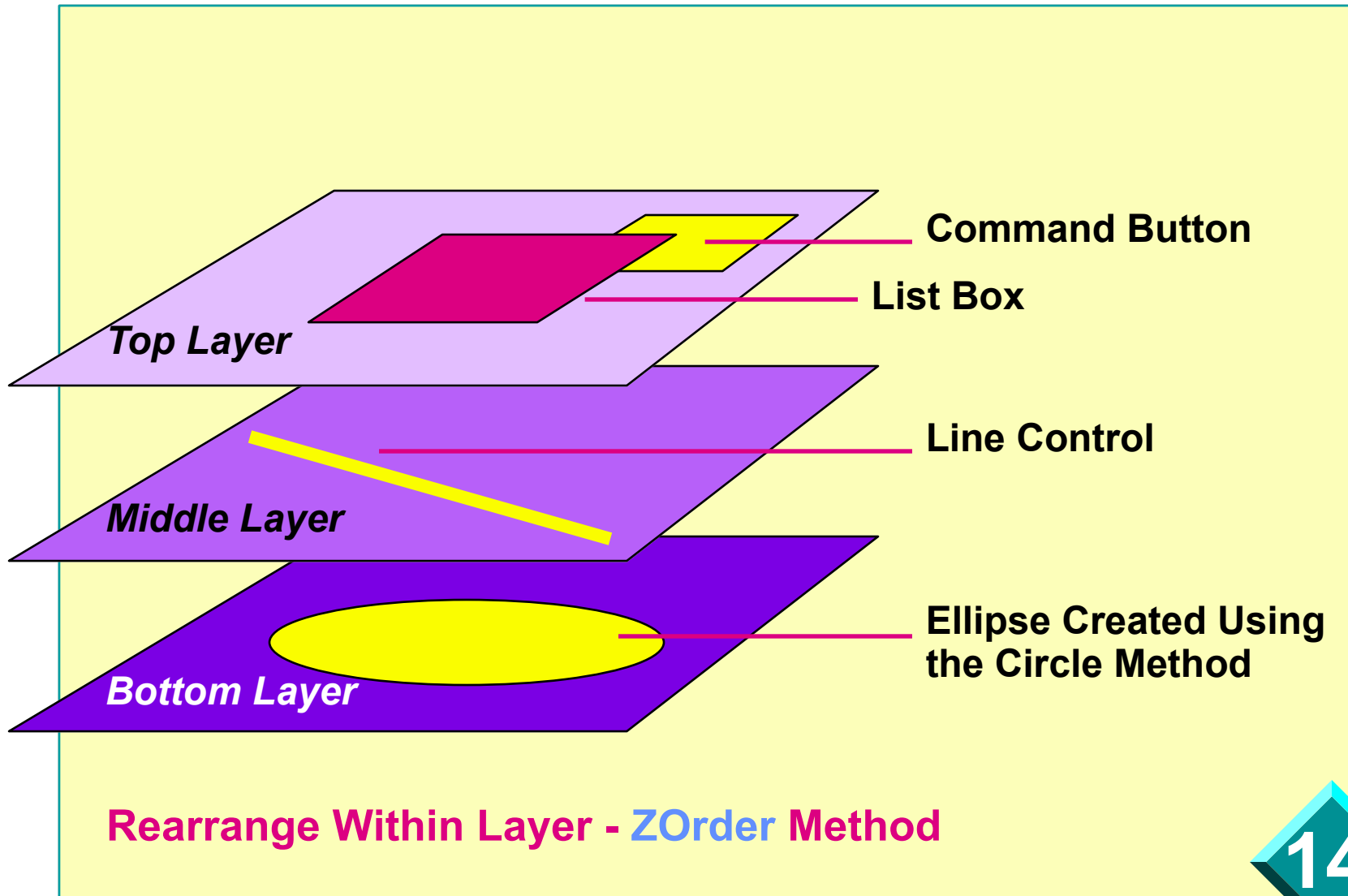
Using Graphics Methods and Functions

Statement	Purpose
Pset	Method - Draws single point
Line	Method - Draws line, rectangle, filled-in box
Circle	Method - Draws a circle, ellipse, or arc
Cls	Method - Clears the graphics
Print	Method - Prints text to form, picture box
TextWidth	Function - Returns width of text
TextHeight	Function - Returns height of text
DrawWidth	Property - Sets the width of a line

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Using Graphical Controls

Shape Control
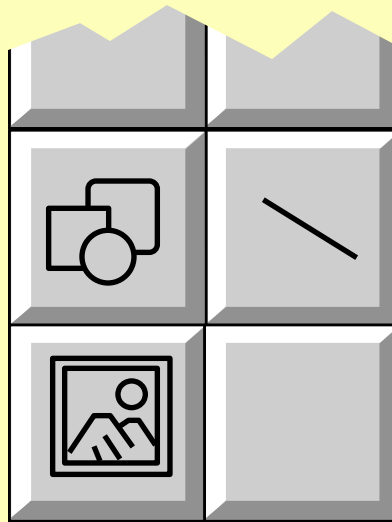
Line Control

Image Control

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Using Picture Boxes

Form1

Picture Box

.BMP
.ICO
.WMF

Windows Paintbrush

Clip Art Libraries

Other Programs

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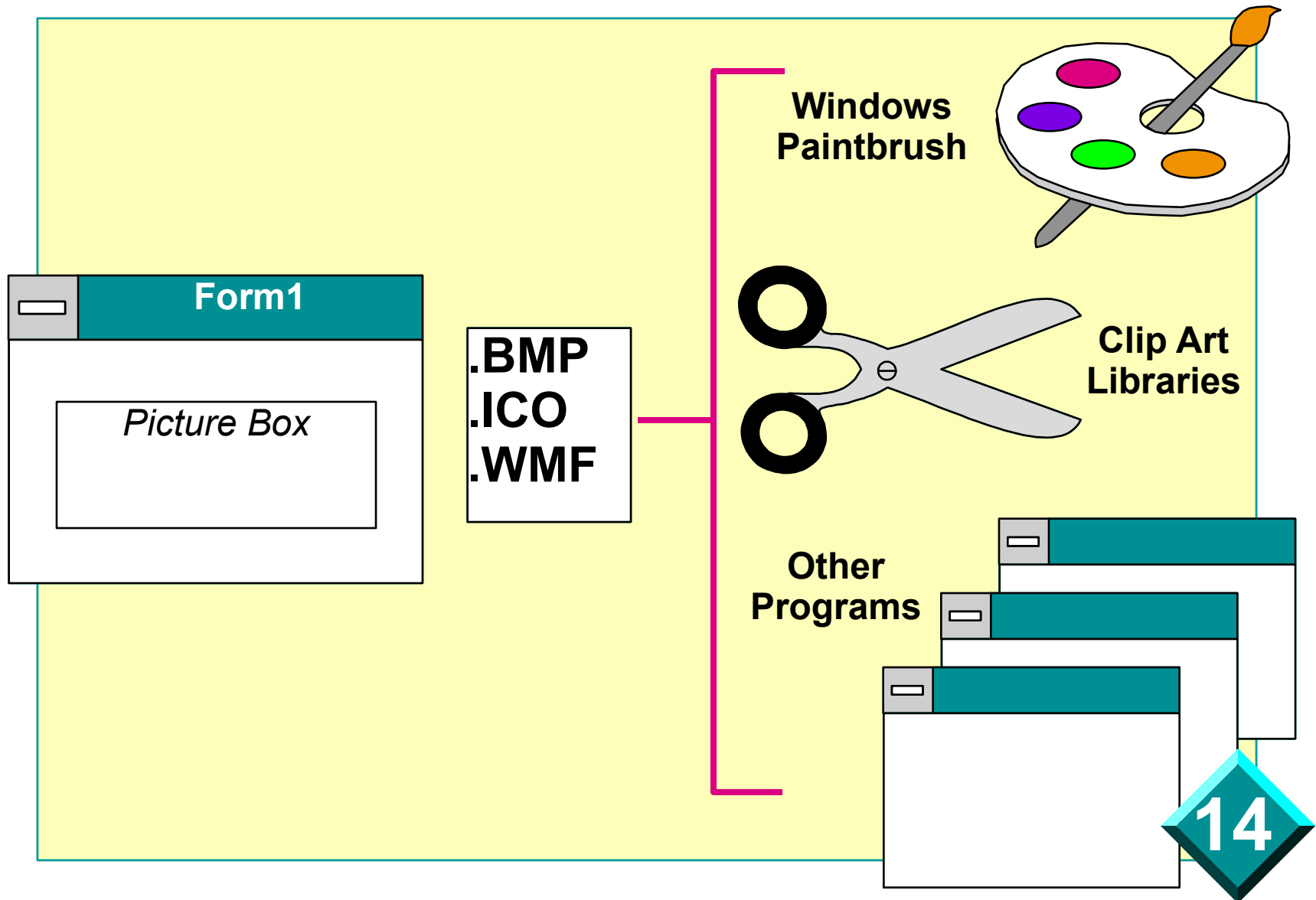
Adding a Picture During Design Time
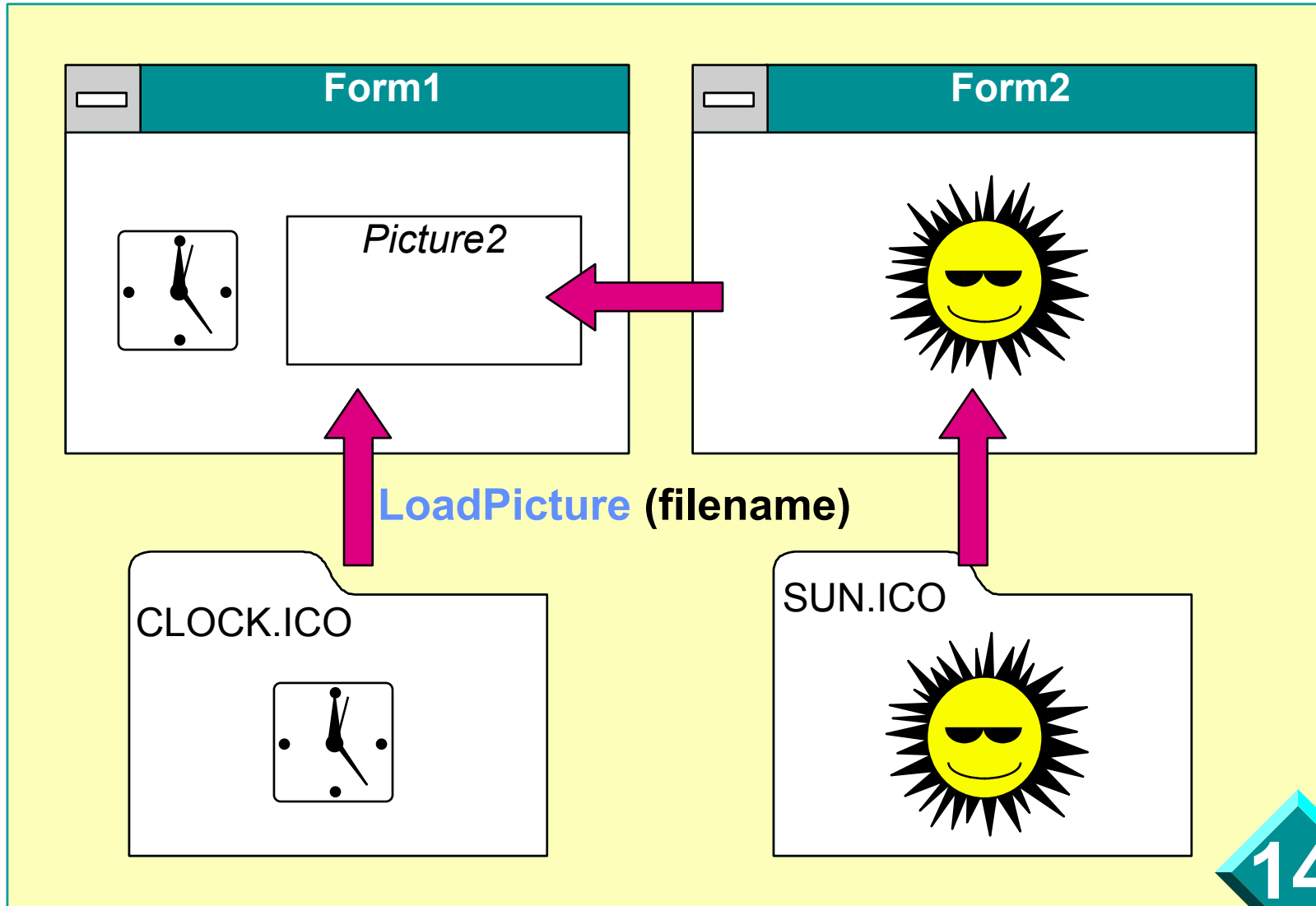
Load a Picture from a Picture File

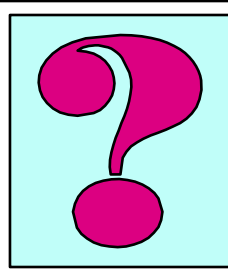| Picture | ↓ | (none) | ... |
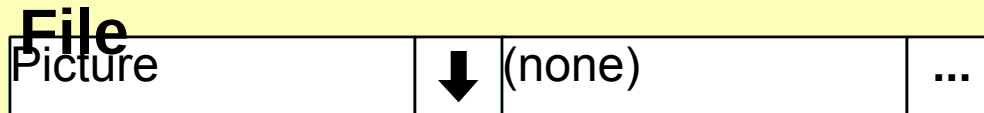
Paste a Picture from Another Application

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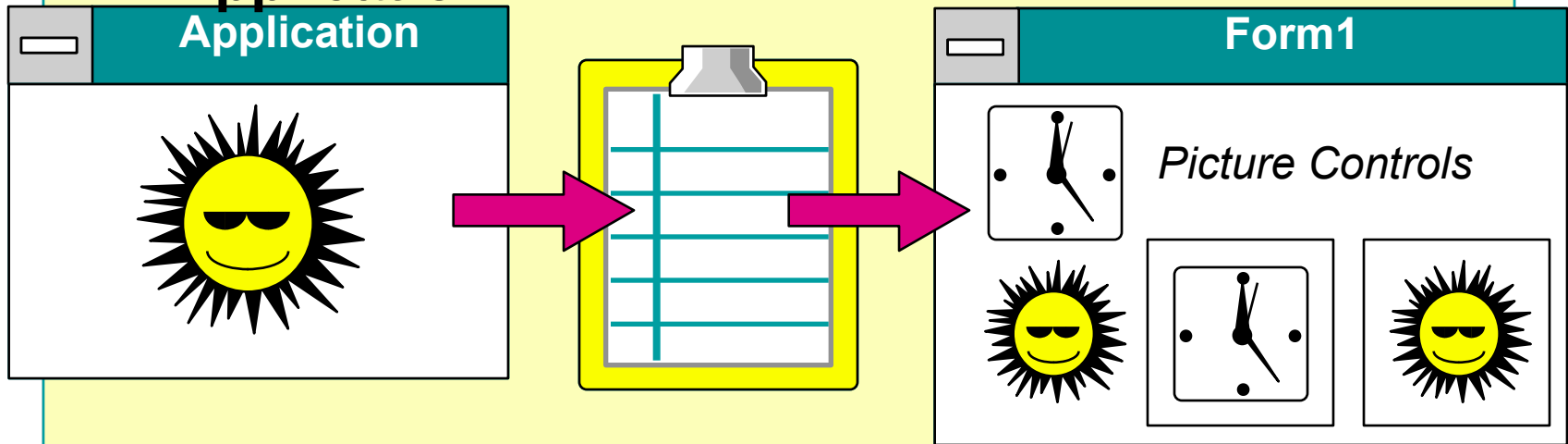
Adding a Picture During Run Time
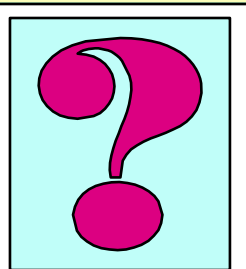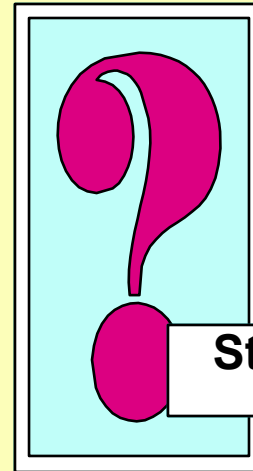
Sizing a Picture vs. Sizing an Image

Picture
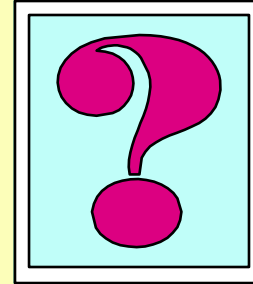
Image

AutoSize = False

AutoSize = True

Stretch = False

Stretch = True

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Using Colors

RGB Function

QBColor Function

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Managing Redrawing Graphics
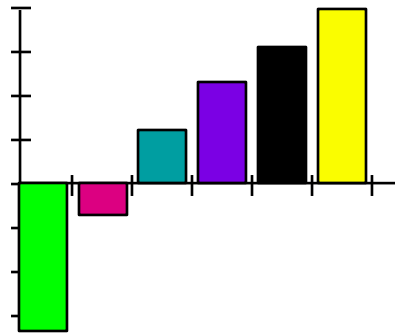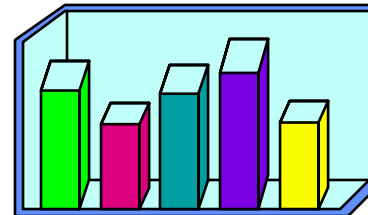

AutoRedraw

Form1

MsgBox

OK

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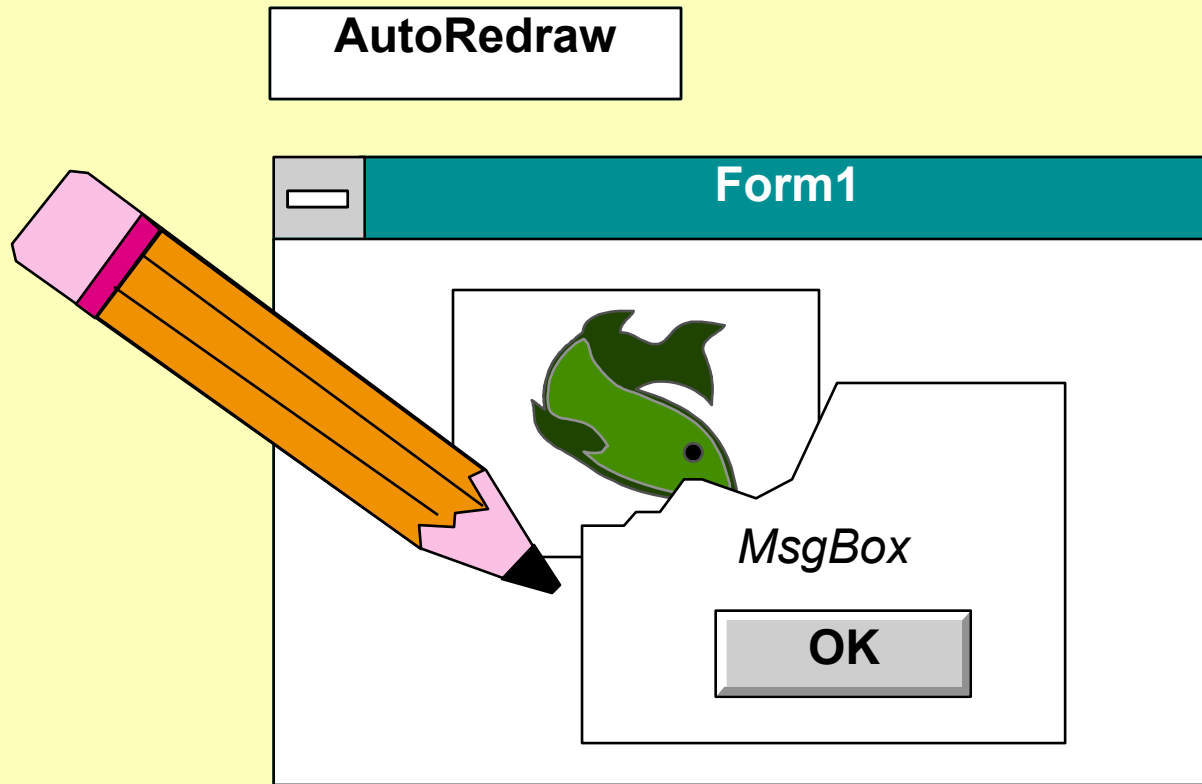
Using the Graph Custom Control
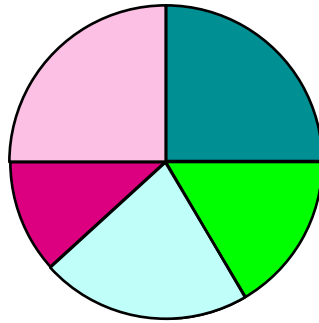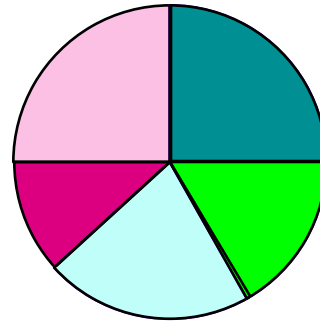
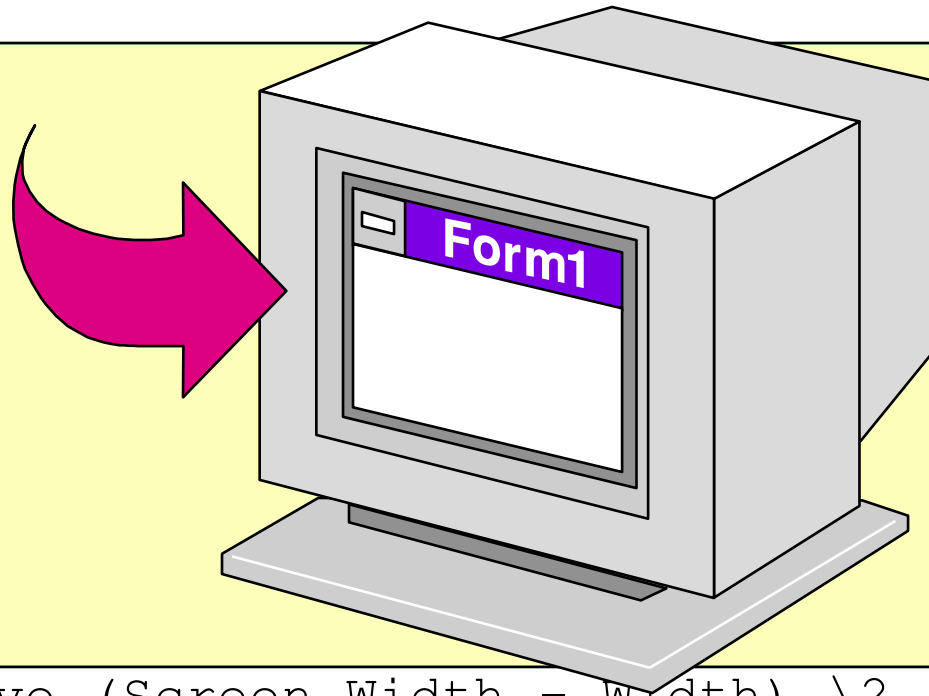# Adding an Icon to Your Executable File

```
Form1.Icon = Load Picture ("XYZ.ICO")
```

—Or

```
Form1.Icon = Image1.Picture
```

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Getting the Screen Resolution from the Screen Object

```
If Screen.Height < EGA_HEIGHT...
```

Form1

```
Form1.Move (Screen.Width - Width) \2
       (Screen.Height - Height) \2
```

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Summary

Coordinate System

Graphics Methods

Graphical Controls

Picture Boxes

Using Colors

Managing Redrawing Graphics

Graph Control from the Visual Basic Professional Edition

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The End of The Course

Thanks for your participation

There's even more to Visual Basic

Enjoy ! ! !

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