

MODULE 11.3: CURSORS & ICONS

Subject Outcome 1: Cursors

Subject Outcome 2: Icons



11.3 GRAPHICS

11.3.1 CURSORS

There are **two main types of cursors**; the **text cursor** and the **mouse pointer** (also known as the mouse cursor).

The **firstly mentioned is the blinking vertical line** which indicates the position of the next keyboard key input. This is where the next character will be displayed when you press a character (a-z, 0-9, special characters). There is not much that we can code about this cursor, except for where to focus (active element) the keyboard cursor (which QEdit field for instance).

The main cursor that we can customize is the mouse pointer. The mouse pointer is **defined as an icon**, typically an arrow that appears on the screen and is controlled by the **movement of the mouse or laptop touchpad**.

There are four methods of control on the mouse pointer:

- Active or non-active (visible or not; enabled or disabled).
- The position of the pointer (x/y coordinates relative to the screen and x/y coordinates relative to the active element).
- The altering of it's appearance (other icon shapes).
- The status (moved, button pressed, wheel turned, etc.)

An important aspect to understand is that a mouse pointer has **two parts, the actual appearance (image) and a HOT SPOT**. The **hot spot is the actual point (pixel size) that will be indicating the precise position of the actual point (x/y coordinates) when the mouse button is pressed or hovered over an element**.

There are the following programming methods that will control the mouse pointer:

- **QCursor** (element).
- **Internal methods**.
 - Screen.Cursor (alter appearance).
 - Screen.MouseButtons (determine how many buttons the connected mouse has – gaming/video and graphical editing).
 - Screen.MousePresent (determine if a mouse is connected).
 - Screen.MouseSwap (reports if the left and right mouse button functions were swapped – left handed people).
 - (QICON).ConvertAsCursor (save image as a cursor with a hot spot).
 - (QSYSTEM).MouseWheelPresent (if the mouse has a wheel)



- Pre-defined mouse pointers (each element is indicated individually).
- Custom mouse pointers (still and animated).
- **Current Window Activation:**
 - GetCapture.
 - SetCapture.
 - ReleaseCapture.
- **Coordinates:**
 - MouseX.
 - MouseY.
 - Screen.MouseX.
 - Screen.MouseY.
 - Screen.SetMouseXY.
- **Events:**
 - OnMouseDown & OnMouseUp.
 - OnMouseMove.
 - OnClick & OnDblClick.
 - OnMouseHover (QMenuEx).
 - OnLostFocus & OnGetFocus.
 - OnMouseWheel.



11.3.1.1 QCursor

This component will alter the appearance with a loaded file (custom) and not a pre-defined cursor from the MS Window's Cursor library. It is also capable of moving the cursor to an indicated position.


Syntax:

\$include <qcursor.inc>

Dim ? as QCursor

Sno	Property	Description
1	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qcursor.inc> \$resource cur1 as "c:\ms3\mybis\gx\cur3d.cur" \$resource cur2 as "c:\ms3\mybis\gx\curwait.cur" dim curme as qcursor CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal </pre>	<p>Including the QCURSOR element. Loading the first cursor into memory Loading another cursor into memory Establishing the qcursor element.</p>



Sno	Property	Description
2	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> #include <qcursor.inc> \$resource cur1 as "c:\ms3\mybis\gx\cur3d.cur" \$resource cur2 as "c:\ms3\mybis\gx\curwait.cur" dim curme as qcursor curme.loadfromresource(0) curme.loadfromresource(1) CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=1 END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal </pre>	<p>Just a reminder that when you use resource files, it will be embedded into your EXE file so you don't have to distribute them with your software package, therefore securing your graphics.</p> <p>Load the cursors into the QCURSOR element. Load the next cursor into the QCURSOR element (from memory resource)</p> <p>Call cursor index number 1 (the first cursor is 1 and not 0 (zero)). The second cursor is index nr 2.</p> 
3	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> #include <qcursor.inc> \$resource cur1 as "c:\ms3\mybis\gx\cur3d.cur" \$resource cur2 as "c:\ms3\mybis\gx\curwait.cur" dim curme as qcursor curme.loadfromresource(0) curme.loadfromresource(1) curme.loadfromfile("c:\ms3\mybis\gx\curcross.cur") CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=3 END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal </pre>	<p>The direct method of loading a file. You have to distribute these files with your software package as they are not embedded like the resource files.</p>
4	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> #include <qcursor.inc> \$resource cur1 as "c:\ms3\mybis\gx\cur3d.cur" \$resource cur2 as "c:\ms3\mybis\gx\curwait.cur" dim curme as qcursor curme.loadfromresource(0) curme.loadfromresource(1) curme.loadfromfile("c:\ms3\mybis\gx\curcross.cur") CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=3 create remark as qlabel left=20:top=400:caption="Cur files loaded: " end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) remark.caption="Cursors: "+str\$(curme.count) Form.ShowModal </pre>	<p>This label will indicate the amount of cursors loaded into memory.</p> <p>Display the count of cursors - remember this is a numerical variable so you need STR\$() to convert it.</p>
5	<pre> ... Curme.visible=0 ... </pre>	<p>VISIBLE=0 turns the cursor invisible. VISIBLE=1 turns the cursor visible.</p>



Sno	Property	Description
6	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> #include <qcursor.inc> \$resource cur1 as "c:\ms3\mybis\gx\c-white.cur" \$resource cur2 as "c:\ms3\mybis\gx\c-black.cur" declare sub animcur dim curme as qcursor curme.loadfromresource(0) curme.loadfromresource(1) dim tyd as QTimer:tyd.interval=500:tyd.ontimer=animcur tyd.enabled=1 CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=1 create remark as qlabel left=20:top=400:caption="Cur files loaded: " end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) remark.caption="Cursors: "+str\$(curme.count) Form.ShowModal sub animcur if form.cursor=1 then form.cursor=2:goto skipme if form.cursor=2 then form.cursor=1 skipme: end sub </pre>	<p>Animating cursors – this is cursors loaded into memory to be used as a loop, controlled by a QTimer. Load cursor 1 (white cursor) Load cursor 2 (black cursor) These two cursors will create a blinking effect.</p> <p>Activate the timer to call the sub program every ½ second.</p> <p>First cursor is the first index entry.</p> <p>If the current cursor is index 1 then alter as cursor 2 and vice versa.</p>
7	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> #include <qcursor.inc> \$resource cur1 as "c:\ms3\mybis\gx\c-white.cur" \$resource cur2 as "c:\ms3\mybis\gx\c-black.cur" declare sub animcur dim curme as qcursor curme.loadfromresource(0) curme.loadfromresource(1) dim tyd as QTimer:tyd.interval=500:tyd.ontimer=animcur tyd.enabled=1 CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=1 create remark as qlabel left=20:top=400:caption="Cur files loaded: " end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) remark.caption="Cursors: "+str\$(curme.count) curme.move(150,150) Form.ShowModal sub animcur if form.cursor=1 then form.cursor=2:goto skipme if form.cursor=2 then form.cursor=1 skipme: end sub </pre>	<p>Set the position with MOVE(x,y) This will place the cursor at the given screen coordinates (x/y).</p> <p>Other specific settings:</p> <p>Move(screen.width/2,screen.height/2) Center screen position.</p> <p>Move(form.left,form.top) Corner of active window.</p>



11.3.1.2 Screen Cursors (pre-defined cursors)

These cursors are available from the MS Window's library (pre-defined cursors). They differ from the Windows ® versions.

Syntax (each element):

Cursor=?

Sno	Property	Description
1	<pre>\$TYPECHECK ON \$INCLUDE <RapidQ2.inc> CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=-21 create remark as qlabel left=20:top=400:caption="Cur files loaded: "cursor=-18 end create END CREATE SetWindowLong[Form.Handle, -8, 0] SetWindowLong[Application.Handle, -8, Form.Handle] Form.ShowModal</pre>	<p>Set cursor for QFORM as a hand.</p> <p>Set the cursor for the QLABEL as a no-go sign.</p>

The following cursors are available:

- 0 default
- -1 none
- -2 arrow
- -3 cross
- -4 ibeam
- -5 size
- -6 sizenew
- -7 sizens
- -8 sizenwse
- -9 sizewe
- -10 uparrow
- -11 hourglass (wait)
- -12 drag
- -13 nodrop
- -14 hsplit (horizontal)
- -15 vsplit (vertical)
- -16 multidrag
- -17 SQLwait (server loading)
- -18 no/banned
- -19 appstart (arrow and hourglass)
- -20 help
- -21 hand

Remember the minus [-] character in front of the number when you allocate the cursor.



Sno	Property	Description
1	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=-21 create remark as qlabel left=20:top=400:caption="Cur files loaded: " cursor=-18 end create END CREATE if screen.mousepresent=0 then showmessage "no mouse found" if screen.mousepresent=1 then showmessage "mouse founded" SetWindowLong[Form.Handle, -8, 0] SetWindowLong[Application.Handle, -8, Form.Handle] Form.ShowModal </pre>	Confirm if mouse is present.
2	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=-21 create remark as qlabel left=20:top=400:caption="" cursor=-18 end create END CREATE remark.caption="Mouse buttons: "+str\$(screen.mousebuttons) SetWindowLong[Form.Handle, -8, 0] SetWindowLong[Application.Handle, -8, Form.Handle] Form.ShowModal </pre>	Confirm the total amount of mouse buttons.
3	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=-21 create remark as qlabel left=20:top=400:caption="" cursor=-18 end create END CREATE if screen.mouseswap=0 then remark.caption="mouse buttons not swapped" end if if screen.mouseswap=1 then remark.caption="mouse buttons swapped" end if SetWindowLong[Form.Handle, -8, 0] SetWindowLong[Application.Handle, -8, Form.Handle] Form.ShowModal </pre>	Confirm if mouse buttons were swapped or not.
4	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> declare sub displaycoord CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=-21:onmousemove=displaycoord </pre>	Start an event to monitor the position of the mouse's cursor relative to the FORM.



Sno	Property	Description
	<pre> create remark as qlabel left=20:top=400:caption="":cursor=-18 end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal sub displaycoord remark.caption="X: "+str\$(screen.mousex)+" / Y:"+str\$(screen.mousey) end sub </pre>	
5	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> declare sub displaycoord CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=-21:onmousemove=displaycoord create remark as qlabel left=20:top=400:caption="":cursor=-18 end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) screen.setmousexy(150,150) Form.ShowModal sub displaycoord remark.caption="X: "+str\$(screen.mousex)+" / Y:"+str\$(screen.mousey) end sub </pre>	Set the position of the mouse (x/y) relative to the entire desktop/ screen.
6	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> declare sub displaycoord dim systm as qsystem CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=-21:onmousemove=displaycoord create remark as qlabel left=20:top=400:caption="":cursor=-18 end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) screen.setmousexy(150,150) if systm.mousewheelpresent=0 then showmessage "no wheel" if systm.mousewheelpresent=1 then showmessage "wheel present" Form.ShowModal sub displaycoord remark.caption="X: "+str\$(screen.mousex)+" / Y:"+str\$(screen.mousey) end sub </pre>	Confirm if mouse wheel is present.



11.3.1.3 MouseWheel (usage)

The mouse wheel is used to scroll the content of an element. It may either scroll up or down. The rotation% will indicate up or down. The X% and Y% will indicate the coordinates where the mouse pointer when the scrolling is done. The SHIFT% will indicate if the SHIFT/CTRL or ALT keys are pressed when scrolling the mouse wheel, thus giving you additional options.

Syntax (each element):

Declare Sub ? (rotation%,x%,y%,shift%)

onmousewheel=?

Sno	Property	Description
1	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> declare sub dwheel(rotation%,x%,y%,shift%) dim systm as qsystem CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 480:Center cursor=-21:onmousewheel=dwheel create remark as qlabel left=20:top=400:caption="" :cursor=-18 end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal sub dwheel(rotation%,x%,y%,shift%) remark.caption="Rotation: "+str\$(rotation%)+ "Pos: "+str\$(x%)+ " / "+str\$(y%) end sub </pre>	<p>Mousewheel event trapper. The sub routine to be called when the mouse wheel is scrolled.</p> <p>Start the event trapper for the mouse wheel.</p> <p>Indicate the rotation (1 up), [-1 down], 0 is no action.</p>
2	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> declare sub dwheel(rotation%,x%,y%,shift%) dim i as single CREATE Form AS QFORMex Caption = "Form":Width = 640:Height = 400:Center cursor=-21:onmousewheel=dwheel:color=0 create alist as qstringgrid rowcount=500 end create create blist as qscrollbar left=10:top=300:width=500:min=0:max=50 position=25 end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) for i = 1 to alist.rowcount:alist.cell(0,i)=str\$(i):next i Form.ShowModal </pre>	<p>Scrolling events with the mouse wheel.</p> <p>We will add a string grid to scroll with.</p> <p>Add a scrollbar to scroll with.</p> <p>Add sno numbers within the rows to see the actual scrolling.</p>



Sno	Property	Description
	<pre> sub dwheel(rotation%,x%,y%,shift%) IF alist.Handle = GETFOCUS () THEN if rotation%=1 then if alist.toprow<>1 then alist.toprow=alist.toprow-1 end if end if if rotation%=-1 then if alist.toprow<>alist.rowcount-1 then alist.toprow=alist.toprow+1 end if end if end if IF blist.Handle = GETFOCUS () THEN if rotation%=1 then if blist.position<>0 then blist.position=blist.position-1 end if end if if rotation%=-1 then if blist.position<>blist.position-1 then blist.position=blist.position+1 end if end if end if end if end sub </pre>	<p>If the focus is on the string grid (click on it to obtain focus). If the rotation is 1 then scroll up with the list.</p> <p>If the rotation is -1 then scroll down the string grid.</p> <p>If the focus is on the scroll bar, then confirm the wheel scrolling to move the scroller.</p>

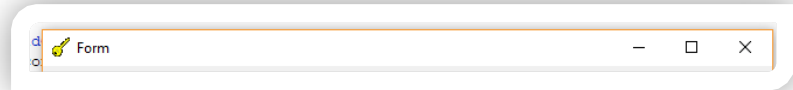
11.3.1.4 Saving Cursor

You may take any **BMP** or **ICON** file (loadotherimage) and save it (**convert**) as a **.CUR** file. Remember it will take the saved ICO or BMP and convert it as a CUR file (you will lose the ICO or BMP file as such). If you wish to **display** the image prior to **saving** it, use the **QIMAGEEX loadotherimage** command. You will actually be using the **QICON** element to do this.

Sno	Property	Description
1	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> #include <qicon.inc> dim filename as string dim micon as qicon CREATE Form AS QFORMex Caption = "Form":Width = 640 Height = 480:Center create image as qimageex autosize=1 loadotherimage("c:\ms3\mybis\gx\cut.ico",0,"") end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) micon.filename="c:\ms3\mybis\gx\cut.ico" micon.convertascursor("c:\ms3\mybis\gx\cut.ico",16,16) Form.ShowModal </pre>	<p>We will add the QICON element to the project, then load a BMP file and convert it as a CUR file with the hotspot (x/y).</p>



11.3.2 ICONS



An icon is defined; a picture representing a program, disk drive, file, folder, border items (minimize, maximize, close, etc.) and any other item that is represented by an image with the file extension ICO.

11.3.2.1 Adding an icon to your application

We already discussed how to add icons to your application during the first module. We will now. This is just a **reminder** on how to **add an icon** to your **application**:

Sno	Property	Description
1	<pre>\$TYPECHECK ON \$INCLUDE <RapidQ2.inc> application.icon="c:\ms3\mybis\gx\key.ico" CREATE Form AS QFORMex Caption = "Form":Width = 640 Height = 480:Center END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal</pre>	This will display a key as the application's icon.

11.3.2.2 Removing a border icon

The border icons are the minimize, maximize and help icon buttons. To remove them you need to use the **DELBORDERICONS** command for each of the following:

- 0 Form Icon
- 1 Minimize Icon
- 2 Maximize Icon
- 3 Help Icon

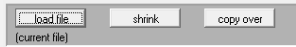
Sno	Property	Description
1	<pre>\$TYPECHECK ON \$INCLUDE <RapidQ2.inc> application.icon="c:\ms3\mybis\gx\key.ico" CREATE Form AS QFORMex Caption = "Form":Width = 640 Height = 480:Center delbordericons(1,2) END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal</pre>	<p>This will remove the minimize and maximize icons (older Windows ® versions will only disable them).</p> <p>To add the buttons again; use the ADDBORDERICONS command.</p>




11.3.2.3 QICON and Saving Icon files


This is a **non-visible element** with icon extractions from EXE, DLL, ICL and ICO files with the option to save them as an **ICON** or **CURSOR**. This component therefor is not visible. If you wish to **preview the actual image**, you need to **display it using the QIMAGEEX element** (loadotherfile).

We will now create an entire **ICON** editor (step-by-step):

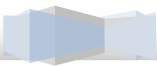
Sno	Property	Description
1	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal </pre>	Create the form.
2	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5:top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0:top=0:width=500:height=400:autosize=1 showhint=1:hint="preview of the loaded image" end create create actionloader as qpanel left=10:top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 create loadbtn as qbutton left=10:top=5:caption="Load File":height=20 end create create minim as qbutton left=110:top=5:caption="shrink":height=20 end create create copyov as qbutton left=210:top=5:caption="copy over":height=20 end create create filename as qlabel left=10:top=28:caption="(current file)":width=400 showhint=1:hint="the current loaded file" end create end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal </pre>	<p>Create the panel with functions.</p> <p>Preview image</p> <p>Panel with functional buttons.</p> <p>Load file button</p> <p>Shrink the image to fit button.</p> <p>Transfer to image button</p> <p>Loaded filename label.</p> 

Sno	Property	Description
3	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5:top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0:top=0:width=500:height=400:autosize=1 showhint=1:hint="preview of the loaded image" end create create actionloader as qpanel left=10:top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 create loadbtn as qbutton left=10:top=5:caption="Load File":height=20 end create create minim as qbutton left=110:top=5:caption="shrink":height=20 end create create copyov as qbutton left=210:top=5:caption="copy over":height=20 end create create filename as qlabel left=10:top=28:caption="[current file]":width=400 showhint=1:hint="the current loaded file" end create end create end create create editor as qpanel left=510:top=5:width=225:height=360 bevelinner=1:bevelouter=1 create prev1 as qpanel left=10:top=10:width=35:height=35 bevelinner=1:bevelouter=-1:color=16777215 showhint=1:hint="preview on the editor icon" create prevdraw as qimage left=2:top=2:width=32:height=32 end create end create create cur1 as qpanel left=50:top=10:width=35:height=35 bevelinner=1:bevelouter=-1 color=16777215:showhint=1 hint="position the x/y hotspot for the cursor" create prevcurdraw as qimage left=2:top=2:width=32:height=32 end create end create create actualdraw as qpanel left=10:top=50:width=(32*6)+4 height=(32*6)+4:color=16777215 bevelouter=-1:bevelinner=01 create drawhere as qcanvas left=2:top=2 width=(32*6)+2:height=(32*6)+2 end create end create end create </pre>	<p>Create editor screens.</p> 



Sno	Property	Description
	<pre> create posme as qlabel left=10;top=250:caption="Position X: Y:" end create create colorpalette as qpanel left=10;top=270:height=50:width=200 showhint=1:hint="select the desired drawing color" end create create newbtn as qbutton left=10:width=60;top=330:height=20:caption="clear" end create create sicon as qbutton left=75:width=60;top=330:height=20 caption="Save Icon" end create end create END CREATE SetWindowLong[Form.Handle, -8, 0] SetWindowLong[Application.Handle, -8, Form.Handle] Form.ShowModal </pre>	<p>We only create the form, no events have been coded yet.</p>
4	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5;top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0;top=0:width=500:height=400:autosize=1 showhint=1:hint="preview of the loaded image" end create create actionloader as qpanel left=10;top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 create loadbtn as qbutton left=10;top=5:caption="Load File":height=20 end create create minim as qbutton left=110;top=5:caption="shrink":height=20 end create create copyov as qbutton left=210;top=5:caption="copy over":height=20 end create create filename as qlabel left=10;top=28:caption="[current file]":width=400 showhint=1:hint="the current loaded file" end create end create end create create editor as qpanel left=510;top=5:width=225:height=360 bevelinner=1:bevelouter=1 create prev1 as qpanel left=10;top=10:width=35:height=35 bevelinner=1:bevelouter=-1:color=16777215 showhint=1:hint="preview on the editor icon" create prevdraw as qimage left=2;top=2:width=32:height=32 end create end create end create </pre>	<p>Color Palette</p> 



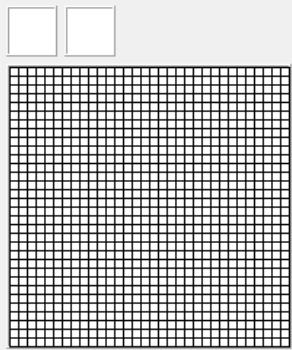


```

create cur1 as qpanel
  left=50:top=10:width=35:height=35
  bevelinner=1:bevelouter=-1
  color=16777215:showhint=1
  hint="position the x/y hotspot for the cursor"
  create prevcurdraw as qimage
    left=2:top=2:width=32:height=32
  end create
end create
create actualdraw as qpanel
  left=10:top=50:width=(32*6)+4
  height=(32*6)+4:color=16777215
  bevelouter=-1:bevelinner=01
  create drawhere as qcanvas
    left=2:top=2
    width=(32*6)+2:height=(32*6)+2
  end create
end create
create posme as qlabel
  left=10:top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
  left=10:top=270:height=50:width=200
  showhint=1:hint="select the desired drawing color"
  create drawcol as qpanel
    left=5:top=5:height=40:width=20:color=5570560
    showhint=1:hint="drawing color"
  end create
create col1 as qpanel
  left=30:top=5:width=15:height=15:color=16711680
end create
create col2 as qpanel
  left=50:top=5:width=15:height=15:color=65280
end create
create col3 as qpanel
  left=70:top=5:width=15:height=15:color=255
end create
create col4 as qpanel
  left=90:top=5:width=15:height=15:color=16711935
end create
create col5 as qpanel
  left=110:top=5:width=15:height=15:color=65535
end create
create col6 as qpanel
  left=130:top=5:width=15:height=15:color=16777215
end create
create col7 as qpanel
  left=150:top=5:width=15:height=15:color=5609745
end create
create col8 as qpanel
  left=170:top=5:width=15:height=15:color=15615163
end create
create col9 as qpanel
  left=30:top=25:width=15:height=15:color=12272878
end create
create col10 as qpanel
  left=50:top=25:width=15:height=15:color=1136025
end create
create col11 as qpanel
  left=70:top=25:width=15:height=15:color=3355443
end create
create col12 as qpanel

```



	<pre> left=90;top=25;width=15;height=15;color=6710886 end create create col13 as qpanel left=110;top=25;width=15;height=15;color=10066329 end create create col14 as qpanel left=130;top=25;width=15;height=15;color=11250603 end create create col15 as qpanel left=150;top=25;width=15;height=15;color=14540253 end create create col16 as qpanel left=170;top=25;width=15;height=15;color=5570560 end create end create create newbtn as qbutton left=10;width=60;top=330;height=20:caption="clear" end create create sicon as qbutton left=75;width=60;top=330;height=20 caption="Save Icon" end create end create END CREATE SetWindowLong[Form.Handle, -8, 0] SetWindowLong[Application.Handle, -8, Form.Handle] Form.ShowDialog </pre>	
5	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> declare sub gridpaint dim i as single CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5;top=5;width=500;height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0;top=0;width=500;height=400:autosize=1 showhint=1:hint="preview of the loaded image" end create create actionloader as qpanel left=10;top=400;height=45;width=480 bevelinner=1:bevelouter=1;color=11711154 create loadbtn as qbutton left=10;top=5:caption="Load File":height=20 end create create minim as qbutton left=110;top=5:caption="shrink":height=20 end create create copyov as qbutton left=210;top=5:caption="copy over":height=20 end create create filename as qlabel left=10;top=28:caption="[current file]":width=400 showhint=1:hint="the current loaded file" end create end create end create create editor as qpanel left=510;top=5;width=225;height=360 bevelinner=1:bevelouter=1 create prev1 as qpanel left=10;top=10;width=35;height=35 bevelinner=1:bevelouter=-1;color=16777215 showhint=1:hint="preview on the editor icon" create prevdraw as qimage </pre>	<p>Draw Gridlines for editor</p>  <p>Position X: Y:</p>

```

    left=2:top=2:width=32:height=32
  end create
end create
create cur1 as qpanel
  left=50:top=10:width=35:height=35
  bevelinner=1:bevelouter=-1
  color=16777215:showhint=1
  hint="position the x/y hotspot for the cursor"
  create prevcurdraw as qimage
    left=2:top=2:width=32:height=32
  end create
end create
create actualdraw as qpanel
  left=10:top=50:width=(32*6)+4
  height=(32*6)+4:color=16777215
  bevelouter=-1:bevelinner=01
  create drawhere as qcanvas
    left=2:top=2
    width=(32*6)+2:height=(32*6)+2
    onpaint=gridpaint
  end create
end create
create posme as qlabel
  left=10:top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
  left=10:top=270:height=50:width=200
  showhint=1:hint="select the desired drawing color"
  create drawcol as qpanel
    left=5:top=5:height=40:width=20:color=5570560
    showhint=1:hint="drawing color"
  end create
  create col1 as qpanel
    left=30:top=5:width=15:height=15:color=16711680
  end create
  create col2 as qpanel
    left=50:top=5:width=15:height=15:color=65280
  end create
  create col3 as qpanel
    left=70:top=5:width=15:height=15:color=255
  end create
  create col4 as qpanel
    left=90:top=5:width=15:height=15:color=16711935
  end create
  create col5 as qpanel
    left=110:top=5:width=15:height=15:color=65535
  end create
  create col6 as qpanel
    left=130:top=5:width=15:height=15:color=16777215
  end create
  create col7 as qpanel
    left=150:top=5:width=15:height=15:color=5609745
  end create
  create col8 as qpanel
    left=170:top=5:width=15:height=15:color=15615163
  end create
  create col9 as qpanel
    left=30:top=25:width=15:height=15:color=12272878
  end create
  create col10 as qpanel
    left=50:top=25:width=15:height=15:color=1136025
  end create
  create col11 as qpanel
    left=70:top=25:width=15:height=15:color=3355443
  end create
  create col12 as qpanel
    left=90:top=25:width=15:height=15:color=6710886

```

	<pre> end create create col13 as qpanel left=110:top=25:width=15:height=15:color=10066329 end create create col14 as qpanel left=130:top=25:width=15:height=15:color=11250603 end create create col15 as qpanel left=150:top=25:width=15:height=15:color=14540253 end create create col16 as qpanel left=170:top=25:width=15:height=15:color=5570560 end create end create create newbtn as qbutton left=10:width=60:top=330:height=20:caption="clear" end create create sicon as qbutton left=75:width=60:top=330:height=20 caption="Save Icon" end create end create END CREATE SetWindowLong(Form.Handle,-8,0) SetWindowLong(Application.Handle,-8,Form.Handle) Form.ShowDialog sub gridpaint for i = 0 to 32 drawhere.line[i*6,0,i*6,32*6,0] drawhere.line[0,i*6,32*6,i*6,0] next i end sub </pre>	
6	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> declare sub viewmenow declare sub gridpaint dim i as single dim viewme as qimagedialog viewme.initialdir="c:\ms3\mybis\gx" CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5:top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0:top=0:width=500:height=400:autosize=1 showhint=1:hint="preview of the loaded image" end create create actionloader as qpanel left=10:top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 create loadbtn as qbutton left=10:top=5:caption="Load File":height=20 onclick=viewmenow end create create minim as qbutton left=110:top=5:caption="shrink":height=20 end create create copyov as qbutton left=210:top=5:caption="copy over":height=20 end create create filename as qlabel left=10:top=28:caption="[current file]":width=400 showhint=1:hint="the current loaded file" </pre>	<p>Open and display the image.</p> <p>Programming the LOAD button and adding the QIMAGEDIALOG to select the image.</p>

```

end create
end create
end create
create editor as qpanel
left=510:top=5:width=225:height=360
bevelinner=1:bevelouter=1
create prev1 as qpanel
left=10:top=10:width=35:height=35
bevelinner=1:bevelouter=-1:color=16777215
showhint=1:hint="preview on the editor icon"
create prevdraw as qimage
left=2:top=2:width=32:height=32
end create
end create
create cur1 as qpanel
left=50:top=10:width=35:height=35
bevelinner=1:bevelouter=-1
color=16777215:showhint=1
hint="position the x/y hotspot for the cursor"
create prevcurdraw as qimage
left=2:top=2:width=32:height=32
end create
end create
create actualdraw as qpanel
left=10:top=50:width=(32*6)+4
height=(32*6)+4:color=16777215
bevelouter=-1:bevelinner=01
create drawhere as qcanvas
left=2:top=2
width=(32*6)+2:height=(32*6)+2
onpaint=gridpaint
end create
end create
create posme as qlabel
left=10:top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
left=10:top=270:height=50:width=200
showhint=1:hint="select the desired drawing color"
create drawcol as qpanel
left=5:top=5:height=40:width=20:color=5570560
showhint=1:hint="drawing color"
end create
create col1 as qpanel
left=30:top=5:width=15:height=15:color=16711680
end create
create col2 as qpanel
left=50:top=5:width=15:height=15:color=65280
end create
create col3 as qpanel
left=70:top=5:width=15:height=15:color=255
end create
create col4 as qpanel
left=90:top=5:width=15:height=15:color=16711935
end create
create col5 as qpanel
left=110:top=5:width=15:height=15:color=65535
end create
create col6 as qpanel
left=130:top=5:width=15:height=15:color=16777215
end create
create col7 as qpanel
left=150:top=5:width=15:height=15:color=5609745
end create
create col8 as qpanel
left=170:top=5:width=15:height=15:color=15615163
end create

```

	<pre> create col9 as qpanel left=30:top=25:width=15:height=15:color=12272878 end create create col10 as qpanel left=50:top=25:width=15:height=15:color=1136025 end create create col11 as qpanel left=70:top=25:width=15:height=15:color=3355443 end create create col12 as qpanel left=90:top=25:width=15:height=15:color=6710886 end create create col13 as qpanel left=110:top=25:width=15:height=15:color=10066329 end create create col14 as qpanel left=130:top=25:width=15:height=15:color=11250603 end create create col15 as qpanel left=150:top=25:width=15:height=15:color=14540253 end create create col16 as qpanel left=170:top=25:width=15:height=15:color=5570560 end create end create create newbtn as qbutton left=10:width=60:top=330:height=20:caption="clear" end create create sicon as qbutton left=75:width=60:top=330:height=20 caption="Save Icon" end create end create END CREATE SetWindowLong(Form.Handle, -8, 0) SetWindowLong(Application.Handle, -8, Form.Handle) Form.ShowModal sub gridpaint for i = 0 to 32 drawhere.line[i*6,0,i*6,32*6,0] drawhere.line[0,i*6,32*6,i*6,0] next i end sub sub viewmenow if viewme.execute then preloader.bmp="c:\ms3\mybis\gx\blank2.bmp" filename.caption=viewme.filename preloader.draw(viewme.filename,0,0) preloader.bmp=viewme.filename end if end sub </pre>	
7	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> declare sub viewmenow declare sub shrinkmenow dim q as single declare sub gridpaint dim i as single dim newpic as qrect dim viewme as qimagedialog viewme.initialdir="c:\ms3\mybis\gx" CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 </pre>	<p>Shrinking the loaded image (step by step) We will stretch the original image down per % as we increase the shrink %.</p>

```

create loader as qpanel
  left=5:top=5:width=500:height=450
  bevelinner=-1:bevelouter=-1
  create preloader as qimageex
    left=0:top=0:width=500:height=400:autosize=1
    showhint=1:hint="preview of the loaded image"
  end create
  create actionloader as qpanel
    left=10:top=400:height=45:width=480
    bevelinner=1:bevelouter=1:color=11711154
    create loadbtn as qbutton
      left=10:top=5:caption="Load File":height=20
      onclick=viewmenow
    end create
    create minim as qbutton
      left=110:top=5:caption="shrink":height=20
      onclick=shrinkmenow
    end create
    create copyov as qbutton
      left=210:top=5:caption="copy over":height=20
    end create
    create filename as qlabel
      left=10:top=28:caption="[current file]":width=400
      showhint=1:hint="the current loaded file"
    end create
  end create
end create
create editor as qpanel
  left=510:top=5:width=225:height=360
  bevelinner=1:bevelouter=1
  create prev1 as qpanel
    left=10:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1:color=16777215
    showhint=1:hint="preview on the editor icon"
    create prevdraw as qimage
      left=2:top=2:width=32:height=32
    end create
  end create
  create cur1 as qpanel
    left=50:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1
    color=16777215:showhint=1
    hint="position the x/y hotspot for the cursor"
    create prevcurdraw as qimage
      left=2:top=2:width=32:height=32
    end create
  end create
  create actualdraw as qpanel
    left=10:top=50:width=(32*6)+4
    height=(32*6)+4:color=16777215
    bevelouter=-1:bevelinner=01
    create drawhere as qcanvas
      left=2:top=2
      width=(32*6)+2:height=(32*6)+2
      onpaint=gridpaint
    end create
  end create
  create posme as qlabel
    left=10:top=250:caption="Position X: Y:"
  end create
  create colorpalette as qpanel
    left=10:top=270:height=50:width=200
    showhint=1:hint="select the desired drawing color"
    create drawcol as qpanel
      left=5:top=5:height=40:width=20:color=5570560
      showhint=1:hint="drawing color"
    end create


```

```

create col1 as qpanel
  left=30:top=5:width=15:height=15:color=16711680
end create
create col2 as qpanel
  left=50:top=5:width=15:height=15:color=65280
end create
create col3 as qpanel
  left=70:top=5:width=15:height=15:color=255
end create
create col4 as qpanel
  left=90:top=5:width=15:height=15:color=16711935
end create
create col5 as qpanel
  left=110:top=5:width=15:height=15:color=65535
end create
create col6 as qpanel
  left=130:top=5:width=15:height=15:color=16777215
end create
create col7 as qpanel
  left=150:top=5:width=15:height=15:color=5609745
end create
create col8 as qpanel
  left=170:top=5:width=15:height=15:color=15615163
end create
create col9 as qpanel
  left=30:top=25:width=15:height=15:color=12272878
end create
create col10 as qpanel
  left=50:top=25:width=15:height=15:color=1136025
end create
create col11 as qpanel
  left=70:top=25:width=15:height=15:color=3355443
end create
create col12 as qpanel
  left=90:top=25:width=15:height=15:color=6710886
end create
create col13 as qpanel
  left=110:top=25:width=15:height=15:color=10066329
end create
create col14 as qpanel
  left=130:top=25:width=15:height=15:color=11250603
end create
create col15 as qpanel
  left=150:top=25:width=15:height=15:color=14540253
end create
create col16 as qpanel
  left=170:top=25:width=15:height=15:color=5570560
end create
end create
create newbtn as qbutton
  left=10:width=60:top=330:height=20:caption="clear"
end create
create sicon as qbutton
  left=75:width=60:top=330:height=20
  caption="Save Icon"
end create
end create
END CREATE
SetWindowLong(Form.Handle, -8, 0)
SetWindowLong(Application.Handle, -8, Form.Handle)
Form.ShowDialog

sub gridpaint
for i = 0 to 32
  drawhere.line[i*6,0,i*6,32*6,0]
  drawhere.line[0,i*6,32*6,i*6,0]
next i

```

	<pre> end sub sub viewmenow if viewme.execute then q=0:minim.caption="Shrink: "+str\$(q) preloader.bmp="c:\ms3\mybis\gx\blank2.bmp" filename.caption=viewme.filename preloader.draw(viewme.filename,0,0) preloader.bmp=viewme.filename end if end sub sub shrinkmenow q=q+1 minim.caption="Shrink: "+str\$(q) newpic.left=0:newpic.top=0 newpic.right=preloader.width-q newpic.bottom=preloader.height-q preloader.stretchdraw(newpic,viewme.filename) preloader.width=preloader.width-q preloader.height=preloader.height-q end sub </pre>	
8	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> declare sub viewmenow declare sub shrinkmenow dim q as single declare sub gridpaint declare sub copymeover(button%,x%,y%,shift%) declare sub updatepos(x%,y%,shift%) dim px as single:dim py as single dim i as single dim newpic as qrect dim viewme as qimagedialog viewme.initialdir="c:\ms3\mybis\gx" dim source as qrect:dim dest as qrect dest.left=0:dest.right=32:dest.top=0:dest.bottom=32 CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5:top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0:top=0:width=500:height=400:autosize=1 showhint=1:hint="loaded image ... click to copy 32x32" onmouseup=copymeover:onmousedown=updatepos end create create actionloader as qpanel left=10:top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 create loadbtn as qbutton left=10:top=5:caption="Load File":height=20 onclick=viewmenow end create create minim as qbutton left=110:top=5:caption="shrink":height=20 onclick=shrinkmenow end create create copyov as qbutton left=210:top=5:caption="copy over":height=20 end create create filename as qlabel left=10:top=28:caption="[current file]":width=400 showhint=1:hint="the current loaded file" end create </pre>	<p>Select area and copy to editor.</p> 


```

end create
end create
create editor as qpanel
  left=510:top=5:width=225:height=360
  bevelinner=1:bevelouter=1
  create prev1 as qpanel
    left=10:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1:color=16777215
    showhint=1:hint="preview on the editor icon"
    create prevdraw as qimage
      left=2:top=2:width=32:height=32
    end create
  end create
end create
create cur1 as qpanel
  left=50:top=10:width=35:height=35
  bevelinner=1:bevelouter=-1
  color=16777215:showhint=1
  hint="position the x/y hotspot for the cursor"
  create prevcurdraw as qimage
    left=2:top=2:width=32:height=32
  end create
end create
end create
create actualdraw as qpanel
  left=10:top=50:width=(32*6)+4
  height=(32*6)+4:color=16777215
  bevelouter=-1:bevelinner=01
  create drawhere as qcanvas
    left=2:top=2
    width=(32*6)+2:height=(32*6)+2
    onpaint=gridpaint
  end create
end create
create posme as qlabel
  left=10:top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
  left=10:top=270:height=50:width=200
  showhint=1:hint="select the desired drawing color"
  create drawcol as qpanel
    left=5:top=5:height=40:width=20:color=5570560
    showhint=1:hint="drawing color"
  end create
create col1 as qpanel
  left=30:top=5:width=15:height=15:color=16711680
end create
create col2 as qpanel
  left=50:top=5:width=15:height=15:color=65280
end create
create col3 as qpanel
  left=70:top=5:width=15:height=15:color=255
end create
create col4 as qpanel
  left=90:top=5:width=15:height=15:color=16711935
end create
create col5 as qpanel
  left=110:top=5:width=15:height=15:color=65535
end create
create col6 as qpanel
  left=130:top=5:width=15:height=15:color=16777215
end create
create col7 as qpanel
  left=150:top=5:width=15:height=15:color=5609745
end create
create col8 as qpanel
  left=170:top=5:width=15:height=15:color=15615163
end create
create col9 as qpanel

```

```

    left=30:top=25:width=15:height=15:color=12272878
end create
create col10 as qpanel
    left=50:top=25:width=15:height=15:color=1136025
end create
create col11 as qpanel
    left=70:top=25:width=15:height=15:color=3355443
end create
create col12 as qpanel
    left=90:top=25:width=15:height=15:color=6710886
end create
create col13 as qpanel
    left=110:top=25:width=15:height=15:color=10066329
end create
create col14 as qpanel
    left=130:top=25:width=15:height=15:color=11250603
end create
create col15 as qpanel
    left=150:top=25:width=15:height=15:color=14540253
end create
create col16 as qpanel
    left=170:top=25:width=15:height=15:color=5570560
end create
end create
create newbtn as qbutton
    left=10:width=60:top=330:height=20:caption="clear"
end create
create sicon as qbutton
    left=75:width=60:top=330:height=20
    caption="Save Icon"
end create
end create
END CREATE
SetWindowLong(Form.Handle, -8, 0)
SetWindowLong(Application.Handle, -8, Form.Handle)
Form.ShowModal

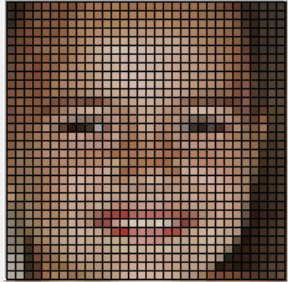
sub gridpaint
for i = 0 to 32
    drawhere.line(i*6,0,i*6,32*6,0)
    drawhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub viewmenow
if viewme.execute then
    q=0:minim.caption="Shrink: "+str$(q)
    preloader.bmp="c:\ms3\mybis\gx\blank2.bmp"
    filename.caption=viewme.filename
    preloader.draw(viewme.filename,0,0)
    preloader.bmp=viewme.filename
end if
end sub

sub shrinkmenow
q=q+1
minim.caption="Shrink: "+str$(q)
newpic.left=0:newpic.top=0
newpic.right=preloader.width-q
newpic.bottom=preloader.height-q
preloader.stretchdraw(newpic,viewme.filename)
preloader.width=preloader.width-q
preloader.height=preloader.height-q
end sub

sub updatepos(x%,y%,shift%)
copyov.caption=str$(x%)+"/ "+str$(y%)

```

	<pre>end sub sub copymeover(button%,x%,y%,shift%) source.left=x%:source.right=x%+32 source.top=y%:source.bottom=y%+32 prevdraw.copyrect(dest,preloader,source) end sub</pre>	
9	<pre>\$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> declare sub viewmenow declare sub shrinkmenow dim q as single declare sub gridpaint declare sub copymeover(button%,x%,y%,shift%) declare sub updatepos(x%,y%,shift%) declare sub updatezoom dim px as single:dim py as single dim i as single dim p as single dim newpic as qrect dim viewme as qimagedialog viewme.initialdir="c:\ms3\mybis\gx" dim source as qrect:dim dest as qrect dest.left=0:dest.right=32:dest.top=0:dest.bottom=32 CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5:top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0:top=0:width=500:height=400:autosize=1 showhint=1:hint="loaded image ... click to copy 32x32" onmouseup=copymeover:onmousedown=updatepos end create create actionloader as qpanel left=10:top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 create loadbtn as qbutton left=10:top=5:caption="Load File":height=20 onclick=viewmenow end create create minim as qbutton left=110:top=5:caption="shrink":height=20 onclick=shrinkmenow end create create copyov as qbutton left=210:top=5:caption="copy over":height=20 end create create filename as qlabel left=10:top=28:caption="[current file]":width=400 showhint=1:hint="the current loaded file" end create end create create editor as qpanel left=510:top=5:width=225:height=360 bevelinner=1:bevelouter=1 create prev1 as qpanel left=10:top=10:width=35:height=35 bevelinner=1:bevelouter=-1:color=16777215 showhint=1:hint="preview on the editor icon" create prevdraw as qimage left=2:top=2:width=32:height=32 end create end create</pre>	<p>Update ZOOM image</p>  

```

create cur1 as qpanel
  left=50:top=10:width=35:height=35
  bevelinner=1:bevelouter=-1
  color=16777215:showhint=1
  hint="position the x/y hotspot for the cursor"
  create prevcurdraw as qimage
    left=2:top=2:width=32:height=32
  end create
end create
create actualdraw as qpanel
  left=10:top=50:width=(32*6)+4
  height=(32*6)+4:color=16777215
  bevelouter=-1:bevelinner=01
  create drawhere as qcanvas
    left=2:top=2
    width=(32*6)+2:height=(32*6)+2
    onpaint=gridpaint
  end create
end create
create posme as qlabel
  left=10:top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
  left=10:top=270:height=50:width=200
  showhint=1:hint="select the desired drawing color"
  create drawcol as qpanel
    left=5:top=5:height=40:width=20:color=5570560
    showhint=1:hint="drawing color"
  end create
  create col1 as qpanel
    left=30:top=5:width=15:height=15:color=16711680
  end create
  create col2 as qpanel
    left=50:top=5:width=15:height=15:color=65280
  end create
  create col3 as qpanel
    left=70:top=5:width=15:height=15:color=255
  end create
  create col4 as qpanel
    left=90:top=5:width=15:height=15:color=16711935
  end create
  create col5 as qpanel
    left=110:top=5:width=15:height=15:color=65535
  end create
  create col6 as qpanel
    left=130:top=5:width=15:height=15:color=16777215
  end create
  create col7 as qpanel
    left=150:top=5:width=15:height=15:color=5609745
  end create
  create col8 as qpanel
    left=170:top=5:width=15:height=15:color=15615163
  end create
  create col9 as qpanel
    left=30:top=25:width=15:height=15:color=12272878
  end create
  create col10 as qpanel
    left=50:top=25:width=15:height=15:color=1136025
  end create
  create col11 as qpanel
    left=70:top=25:width=15:height=15:color=3355443
  end create
  create col12 as qpanel
    left=90:top=25:width=15:height=15:color=6710886
  end create
  create col13 as qpanel
    left=110:top=25:width=15:height=15:color=10066329

```

```

end create
create col14 as qpanel
  left=130:top=25:width=15:height=15:color=11250603
end create
create col15 as qpanel
  left=150:top=25:width=15:height=15:color=14540253
end create
create col16 as qpanel
  left=170:top=25:width=15:height=15:color=5570560
end create
end create
create newbtn as qbutton
  left=10:width=60:top=330:height=20:caption="clear"
end create
create sicon as qbutton
  left=75:width=60:top=330:height=20
  caption="Save Icon"
end create
end create
END CREATE
SetWindowLong(Form.Handle, -8, 0)
SetWindowLong(Application.Handle, -8, Form.Handle)
Form.ShowDialog

sub gridpaint
for i = 0 to 32
  drawhere.line[i*6,0,i*6,32*6,0]
  drawhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub viewmenow
if viewme.execute then
  q=0:minim.caption="Shrink: "+str$(q)
  preloader.bmp="c:\ms3\mybis\gx\blank2.bmp"
  filename.caption=viewme.filename
  preloader.draw(viewme.filename,0,0)
  preloader.bmp=viewme.filename
end if
end sub

sub shrinkmenow
q=q+1
minim.caption="Shrink: "+str$(q)
newpic.left=0:newpic.top=0
newpic.right=preloader.width-q
newpic.bottom=preloader.height-q
preloader.stretchdraw(newpic,viewme.filename)
preloader.width=preloader.width-q
preloader.height=preloader.height-q
end sub

sub updatepos(x%,y%,shift%)
copyov.caption=str$(x%)+"/"+str$(y%)
end sub

sub copymeover(button%,x%,y%,shift%)
source.left=x%:source.right=x%+32
source.top=y%:source.bottom=y%+32
prevdraw.copyrect(dest,preloader,source)
updatezoom
end sub

sub updatezoom
for i = 0 to 32:for p = 0 to 32
drawhere.fillrect[i*6,p*6,[i*6]+6,[p*6]+6,preloader.pixel[i+source.left,p+source.top]]
next p:next i

```

	<pre> for i = 0 to 32 drawhere.line[i*6,0,i*6,32*6,0] drawhere.line[0,i*6,32*6,i*6,0] next i end sub </pre>	
10	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> declare sub viewmenow declare sub shrinkmenow dim q as single declare sub gridpaint declare sub copymeover(button%,x%,y%,shift%) declare sub updatepos(x%,y%,shift%) declare sub updatezoom declare sub drawpixel(button%,x%,y%,shift%) dim px as single:dim py as single dim i as single dim p as single dim newpic as qrect dim viewme as qimagedialog viewme.initialdir="c:\ms3\mybis\gx" dim source as qrect:dim dest as qrect dest.left=0:dest.right=32:dest.top=0:dest.bottom=32 CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5:top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0:top=0:width=500:height=400:autosize=1 showhint=1:hint="loaded image ... click to copy 32x32" onmouseup=copymeover:onmousedown=updatepos end create create actionloader as qpanel left=10:top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 create loadbtn as qbutton left=10:top=5:caption="Load File":height=20 onclick=viewmenow end create create minim as qbutton left=110:top=5:caption="shrink":height=20 onclick=shrinkmenow end create create copyov as qbutton left=210:top=5:caption="copy over":height=20 end create create filename as qlabel left=10:top=28:caption="[current file]":width=400 showhint=1:hint="the current loaded file" end create end create end create create editor as qpanel left=510:top=5:width=225:height=360 bevelinner=1:bevelouter=1 create prev1 as qpanel left=10:top=10:width=35:height=35 bevelinner=1:bevelouter=-1:color=16777215 showhint=1:hint="preview on the editor icon" create prevdraw as qimage left=2:top=2:width=32:height=32 end create end create end create create cur1 as qpanel </pre>	<p>Draw a pixel (painting). Click on the ZOOMED image to draw with selected drawing color.</p>

```

left=50;top=10;width=35;height=35
bevelinner=1:bevelouter=-1
color=16777215:showhint=1
hint="position the x/y hotspot for the cursor"
create prevcurdraw as qimage
    left=2;top=2;width=32;height=32
end create
end create
create actualdraw as qpanel
    left=10;top=50;width=(32*6)+4
    height=(32*6)+4;color=16777215
    bevelouter=-1:bevelinner=01
    create drawhere as qcanvas
        left=2;top=2
        width=(32*6)+2;height=(32*6)+2
        onpaint=gridpaint
        onmousedown=drawpixel
    end create
end create
create posme as qlabel
    left=10;top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
    left=10;top=270;height=50;width=200
    showhint=1:hint="select the desired drawing color"
    create drawcol as qpanel
        left=5;top=5;height=40;width=20;color=5570560
        showhint=1:hint="drawing color"
    end create
    create col1 as qpanel
        left=30;top=5;width=15;height=15;color=16711680
    end create
    create col2 as qpanel
        left=50;top=5;width=15;height=15;color=65280
    end create
    create col3 as qpanel
        left=70;top=5;width=15;height=15;color=255
    end create
    create col4 as qpanel
        left=90;top=5;width=15;height=15;color=16711935
    end create
    create col5 as qpanel
        left=110;top=5;width=15;height=15;color=65535
    end create
    create col6 as qpanel
        left=130;top=5;width=15;height=15;color=16777215
    end create
    create col7 as qpanel
        left=150;top=5;width=15;height=15;color=5609745
    end create
    create col8 as qpanel
        left=170;top=5;width=15;height=15;color=15615163
    end create
    create col9 as qpanel
        left=30;top=25;width=15;height=15;color=12272878
    end create
    create col10 as qpanel
        left=50;top=25;width=15;height=15;color=1136025
    end create
    create col11 as qpanel
        left=70;top=25;width=15;height=15;color=3355443
    end create
    create col12 as qpanel
        left=90;top=25;width=15;height=15;color=6710886
    end create
    create col13 as qpanel
        left=110;top=25;width=15;height=15;color=10066329

```

```

end create
create col14 as qpanel
  left=130:top=25:width=15:height=15:color=11250603
end create
create col15 as qpanel
  left=150:top=25:width=15:height=15:color=14540253
end create
create col16 as qpanel
  left=170:top=25:width=15:height=15:color=5570560
end create
end create
create newbtn as qbutton
  left=10:width=60:top=330:height=20:caption="clear"
end create
create sicon as qbutton
  left=75:width=60:top=330:height=20
  caption="Save Icon"
end create
end create
END CREATE
SetWindowLong(Form.Handle, -8, 0)
SetWindowLong(Application.Handle, -8, Form.Handle)
Form.ShowDialog

sub gridpaint
for i = 0 to 32
  drawhere.line[i*6,0,i*6,32*6,0]
  drawhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub viewmenow
if viewme.execute then
  q=0: minim.caption="Shrink: "+str$(q)
  preloader.bmp="c:\ms3\mybis\gx\blank2.bmp"
  filename.caption=viewme.filename
  preloader.draw(viewme.filename,0,0)
  preloader.bmp=viewme.filename
end if
end sub

sub shrinkmenow
q=q+1
minim.caption="Shrink: "+str$(q)
newpic.left=0:newpic.top=0
newpic.right=preloader.width-q
newpic.bottom=preloader.height-q
preloader.stretchdraw(newpic,viewme.filename)
preloader.width=preloader.width-q
preloader.height=preloader.height-q
end sub

sub updatepos(x%,y%,shift%)
copyov.caption=str$(x%)+"/"+str$(y%)
end sub

sub copymeover(button%,x%,y%,shift%)
source.left=x%:source.right=x%+32
source.top=y%:source.bottom=y%+32
prevdraw.copyrect(dest,preloader,source)
updatezoom
end sub

sub updatezoom
for i = 0 to 32:for p = 0 to 32
drawhere.fillrect[i*6,p*6,(i*6)+6,(p*6)+6,preloader.pixel(i+source.left,p+sour

```


	<pre> ce.top]) next p:next i for i = 0 to 32 drawhere.line[i*6,0,i*6,32*6,0] drawhere.line[0,i*6,32*6,i*6,0] next i end sub sub drawpixel(button%,x%,y%,shift%) prevdraw.pset[floor(x%/6),floor(y%/6),drawcol.color] for i = 0 to 32:for p = 0 to 32 drawhere.fillrect[i*6,p*6,(i*6)+6,(p*6)+6,prevdraw.pixel(i,p)] next p:next i for i = 0 to 32 drawhere.line[i*6,0,i*6,32*6,0] drawhere.line[0,i*6,32*6,i*6,0] next i end sub </pre>	<p>Due to that you are drawing on the zoom screen, we need to use this maths (FLOOR) to determine the actual position being 6:1.</p>
11	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> declare sub viewmenow declare sub shrinkmenow dim q as single declare sub gridpaint declare sub copymeover(button%,x%,y%,shift%) declare sub updatepos(x%,y%,shift%) declare sub updatezoom declare sub drawpixel(button%,x%,y%,shift%) declare sub altercolor1 declare sub altercolor2 declare sub altercolor3 declare sub altercolor4 declare sub altercolor5 declare sub altercolor6 declare sub altercolor7 declare sub altercolor8 declare sub altercolor9 declare sub altercolor10 declare sub altercolor11 declare sub altercolor12 declare sub altercolor13 declare sub altercolor14 declare sub altercolor15 declare sub altercolor16 dim px as single:dim py as single dim i as single dim p as single dim newpic as qrect dim viewme as qimagedialog viewme.initialdir="c:\ms3\mybis\gx" dim source as qrect:dim dest as qrect dest.left=0:dest.right=32:dest.top=0:dest.bottom=32 CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5:top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0:top=0:width=500:height=400:autosize=1 showhint=1:hint="loaded image ... click to copy 32x32" onmouseup=copymeover:onmousedown=updatepos end create create actionloader as qpanel left=10:top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 </pre>	<p>Alter Drawing Color.</p> <p>Yes, I know we could have coded much less by using the HANDLE GETFOCUS method however I want you to code as much as possible to get used to the elements.</p>

```

create loadbtn as qbutton
  left=10:top=5:caption="Load File":height=20
  onclick=viewmenow
end create
create minim as qbutton
  left=110:top=5:caption="shrink":height=20
  onclick=shrinkmenow
end create
create copyov as qbutton
  left=210:top=5:caption="copy over":height=20
end create
create filename as qlabel
  left=10:top=28:caption="[current file]":width=400
  showhint=1:hint="the current loaded file"
end create
end create
create editor as qpanel
  left=510:top=5:width=225:height=360
  bevelinner=1:bevelouter=1
  create prev1 as qpanel
    left=10:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1:color=16777215
    showhint=1:hint="preview on the editor icon"
    create prevdraw as qimage
      left=2:top=2:width=32:height=32
    end create
  end create
  create cur1 as qpanel
    left=50:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1
    color=16777215:showhint=1
    hint="position the x/y hotspot for the cursor"
    create prevcurdraw as qimage
      left=2:top=2:width=32:height=32
    end create
  end create
  create actualdraw as qpanel
    left=10:top=50:width=(32*6)+4
    height=(32*6)+4:color=16777215
    bevelouter=-1:bevelinner=01
    create drawhere as qcanvas
      left=2:top=2
      width=(32*6)+2:height=(32*6)+2
      onpaint=gridpaint
      onmousedown=drawpixel
    end create
  end create
  create posme as qlabel
    left=10:top=250:caption="Position X: Y:"
  end create
  create colorpalette as qpanel
    left=10:top=270:height=50:width=200
    showhint=1:hint="select the desired drawing color"
    create drawcol as qpanel
      left=5:top=5:height=40:width=20:color=5570560
      showhint=1:hint="drawing color"
    end create
  create col1 as qpanel
    left=30:top=5:width=15:height=15:color=16711680
    onclick=altercolor1
  end create
  create col2 as qpanel
    left=50:top=5:width=15:height=15:color=65280
    onclick=altercolor2
  end create
  create col3 as qpanel

```

```

left=70:top=5:width=15:height=15:color=255
onclick=altercolor3
end create
create col4 as qpanel
left=90:top=5:width=15:height=15:color=16711935
onclick=altercolor4
end create
create col5 as qpanel
left=110:top=5:width=15:height=15:color=65535
onclick=altercolor5
end create
create col6 as qpanel
left=130:top=5:width=15:height=15:color=16777215
onclick=altercolor6
end create
create col7 as qpanel
left=150:top=5:width=15:height=15:color=5609745
onclick=altercolor7
end create
create col8 as qpanel
left=170:top=5:width=15:height=15:color=15615163
onclick=altercolor8
end create
create col9 as qpanel
left=30:top=25:width=15:height=15:color=12272878
onclick=altercolor9
end create
create col10 as qpanel
left=50:top=25:width=15:height=15:color=1136025
onclick=altercolor10
end create
create col11 as qpanel
left=70:top=25:width=15:height=15:color=3355443
onclick=altercolor11
end create
create col12 as qpanel
left=90:top=25:width=15:height=15:color=6710886
onclick=altercolor12
end create
create col13 as qpanel
left=110:top=25:width=15:height=15:color=10066329
onclick=altercolor13
end create
create col14 as qpanel
left=130:top=25:width=15:height=15:color=11250603
onclick=altercolor14
end create
create col15 as qpanel
left=150:top=25:width=15:height=15:color=14540253
onclick=altercolor15
end create
create col16 as qpanel
left=170:top=25:width=15:height=15:color=5570560
onclick=altercolor16
end create
end create
create newbtn as qbutton
left=10:width=60:top=330:height=20:caption="clear"
end create
create sicon as qbutton
left=75:width=60:top=330:height=20
caption="Save Icon"
end create
end create
END CREATE
SetWindowLong(Form.Handle, -8, 0)
SetWindowLong(Application.Handle, -8, Form.Handle)

```

Form.ShowModal

```
sub gridpaint
for i = 0 to 32
  drawhere.line(i*6,0,i*6,32*6,0)
  drawhere.line(0,i*6,32*6,i*6,0)
next i
end sub
```

```
sub viewmenow
if viewme.execute then
  q=0:minim.caption="Shrink: "+str$(q)
  preloader.bmp="c:\ms3\mybis\gx\blank2.bmp"
  filename.caption=viewme.filename
  preloader.draw(viewme.filename,0,0)
  preloader.bmp=viewme.filename
end if
end sub
```

```
sub shrinkmenow
q=q+1
minim.caption="Shrink: "+str$(q)
newpic.left=0:newpic.top=0
newpic.right=preloader.width-q
newpic.bottom=preloader.height-q
preloader.stretchdraw(newpic,viewme.filename)
preloader.width=preloader.width-q
preloader.height=preloader.height-q
end sub
```

```
sub updatepos(x%,y%,shift%)
copyov.caption=str$(x%)+"/ "+str$(y%)
end sub
```

```
sub copymeover(button%,x%,y%,shift%)
source.left=x%:source.right=x%+32
source.top=y%:source.bottom=y%+32
prevdraw.copyrect(dest,preloader,source)
updatezoom
end sub
```

```
sub updatezoom
for i = 0 to 32:for p = 0 to 32
```

```
drawhere.fillrect(i*6,p*6,(i*6)+6,(p*6)+6,preloader.pixel(i+source.left,p+source.top))
next p:next i
for i = 0 to 32
  drawhere.line(i*6,0,i*6,32*6,0)
  drawhere.line(0,i*6,32*6,i*6,0)
next i
end sub
```

```
sub drawpixel(button%,x%,y%,shift%)
prevdraw.pset(floor(x%/6),floor(y%/6),drawcol.color)
for i = 0 to 32:for p = 0 to 32
  drawhere.fillrect(i*6,p*6,(i*6)+6,(p*6)+6,prevdraw.pixel(i,p))
next p:next i
for i = 0 to 32
  drawhere.line(i*6,0,i*6,32*6,0)
  drawhere.line(0,i*6,32*6,i*6,0)
next i
end sub
```

```
sub altercolor1
drawcol.color=col1.color
end sub
```

	<pre> sub altercolor2 drawcol.color=col2.color end sub sub altercolor3 drawcol.color=col3.color end sub sub altercolor4 drawcol.color=col4.color end sub sub altercolor5 drawcol.color=col5.color end sub sub altercolor6 drawcol.color=col6.color end sub sub altercolor7 drawcol.color=col7.color end sub sub altercolor8 drawcol.color=col8.color end sub sub altercolor9 drawcol.color=col9.color end sub sub altercolor10 drawcol.color=col10.color end sub sub altercolor11 drawcol.color=col11.color end sub sub altercolor12 drawcol.color=col12.color end sub sub altercolor13 drawcol.color=col13.color end sub sub altercolor14 drawcol.color=col14.color end sub sub altercolor15 drawcol.color=col15.color end sub sub altercolor16 drawcol.color=col16.color end sub </pre>	
12	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> declare sub viewmenow declare sub shrinkmenow dim q as single declare sub gridpaint declare sub copymeover(button%,x%,y%,shift%) declare sub updatepos(x%,y%,shift%) declare sub updatezoom declare sub drawpixel(button%,x%,y%,shift%) declare sub altercolor1 declare sub altercolor2 declare sub altercolor3 declare sub altercolor4 declare sub altercolor5 declare sub altercolor6 declare sub altercolor7 declare sub altercolor8 declare sub altercolor9 declare sub altercolor10 declare sub altercolor11 </pre>	Right Mouse Click must erase the pixel (eraser)

```

declare sub altercolor12
declare sub altercolor13
declare sub altercolor14
declare sub altercolor15
declare sub altercolor16
dim px as single:dim py as single
dim i as single
dim p as single
dim newpic as qrect
dim viewme as qimagedialog
viewme.initialdir="c:\ms3\mybis\gx"
dim source as qrect:dim dest as qrect
dest.left=0:dest.right=32:dest.top=0:dest.bottom=32
CREATE Form AS QFORMex
  Caption = "ICON EDITOR":Width = 750
  Height = 550:Center:borderstyle=4
  create loader as qpanel
    left=5:top=5:width=500:height=450
    bevelinner=-1:bevelouter=-1
  create preloader as qimageex
    left=0:top=0:width=500:height=400:autosize=1
    showhint=1:hint="loaded image ... click to copy 32x32"
    onmouseup=copymeover:onmousedown=updatepos
  end create
  create actionloader as qpanel
    left=10:top=400:height=45:width=480
    bevelinner=1:bevelouter=1:color=11711154
  create loadbtn as qbutton
    left=10:top=5:caption="Load File":height=20
    onclick=viewmenow
  end create
  create minim as qbutton
    left=110:top=5:caption="shrink":height=20
    onclick=shrinkmenow
  end create
  create copyov as qbutton
    left=210:top=5:caption="copy over":height=20
  end create
  create filename as qlabel
    left=10:top=28:caption="{current file}":width=400
    showhint=1:hint="the current loaded file"
  end create
end create
end create
create editor as qpanel
  left=510:top=5:width=225:height=360
  bevelinner=1:bevelouter=1
  create prev1 as qpanel
    left=10:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1:color=16777215
    showhint=1:hint="preview on the editor icon"
  create prevdraw as qimage
    left=2:top=2:width=32:height=32
  end create
end create
create cur1 as qpanel
  left=50:top=10:width=35:height=35
  bevelinner=1:bevelouter=-1
  color=16777215:showhint=1
  hint="position the x/y hotspot for the cursor"
  create prevcurdraw as qimage
    left=2:top=2:width=32:height=32
  end create
end create
create actualdraw as qpanel
  left=10:top=50:width=(32*6)+4
  height=(32*6)+4:color=16777215

```

```

bevelouter=-1:bevelinner=01
create drawhere as qcanvas
  left=2:top=2
  width=(32*6)+2:height=(32*6)+2
  onpaint=gridpaint
  onmousedown=drawpixel
end create
end create
create posme as qlabel
  left=10:top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
  left=10:top=270:height=50:width=200
  showhint=1:hint="select the desired drawing color"
  create drawcol as qpanel
    left=5:top=5:height=40:width=20:color=5570560
    showhint=1:hint="drawing color"
  end create
  create col1 as qpanel
    left=30:top=5:width=15:height=15:color=16711680
    onclick=altercolor1
  end create
  create col2 as qpanel
    left=50:top=5:width=15:height=15:color=65280
    onclick=altercolor2
  end create
  create col3 as qpanel
    left=70:top=5:width=15:height=15:color=255
    onclick=altercolor3
  end create
  create col4 as qpanel
    left=90:top=5:width=15:height=15:color=16711935
    onclick=altercolor4
  end create
  create col5 as qpanel
    left=110:top=5:width=15:height=15:color=65535
    onclick=altercolor5
  end create
  create col6 as qpanel
    left=130:top=5:width=15:height=15:color=16777215
    onclick=altercolor6
  end create
  create col7 as qpanel
    left=150:top=5:width=15:height=15:color=5609745
    onclick=altercolor7
  end create
  create col8 as qpanel
    left=170:top=5:width=15:height=15:color=15615163
    onclick=altercolor8
  end create
  create col9 as qpanel
    left=30:top=25:width=15:height=15:color=12272878
    onclick=altercolor9
  end create
  create col10 as qpanel
    left=50:top=25:width=15:height=15:color=1136025
    onclick=altercolor10
  end create
  create col11 as qpanel
    left=70:top=25:width=15:height=15:color=3355443
    onclick=altercolor11
  end create
  create col12 as qpanel
    left=90:top=25:width=15:height=15:color=6710886
    onclick=altercolor12
  end create
  create col13 as qpanel

```

```

    left=110:top=25:width=15:height=15:color=10066329
    onclick=altercolor13
end create
create col14 as qpanel
    left=130:top=25:width=15:height=15:color=11250603
    onclick=altercolor14
end create
create col15 as qpanel
    left=150:top=25:width=15:height=15:color=14540253
    onclick=altercolor15
end create
create col16 as qpanel
    left=170:top=25:width=15:height=15:color=5570560
    onclick=altercolor16
end create
end create
create newbtn as qbutton
    left=10:width=60:top=330:height=20:caption="clear"
end create
create sicon as qbutton
    left=75:width=60:top=330:height=20
    caption="Save Icon"
end create
end create
END CREATE
SetWindowLong(Form.Handle, -8, 0)
SetWindowLong(Application.Handle, -8, Form.Handle)
Form.ShowDialog

sub gridpaint
for i = 0 to 32
    drawhere.line[i*6,0,i*6,32*6,0]
    drawhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub viewmenow
if viewme.execute then
    q=0:minim.caption="Shrink: "+str$(q)
    preloader.bmp="c:\ms3\mybis\gx\blank2.bmp"
    filename.caption=viewme.filename
    preloader.draw(viewme.filename,0,0)
    preloader.bmp=viewme.filename
end if
end sub

sub shrinkmenow
q=q+1
minim.caption="Shrink: "+str$(q)
newpic.left=0:newpic.top=0
newpic.right=preloader.width-q
newpic.bottom=preloader.height-q
preloader.stretchdraw(newpic,viewme.filename)
preloader.width=preloader.width-q
preloader.height=preloader.height-q
end sub

sub updatepos(x%,y%,shift%)
copyov.caption=str$(x%)+"/ "+str$(y%)
end sub

sub copymeover(button%,x%,y%,shift%)
source.left=x%:source.right=x%+32
source.top=y%:source.bottom=y%+32
prevdraw.copyrect(dest,preloader,source)
updatezoom
end sub

```



```

sub updatezoom
for i = 0 to 32:for p = 0 to 32

drawhere.fillrect[i*6,p*6,[i*6]+6,[p*6]+6,preloader.pixel[i+source.left,p+source.top]]
next p:next i
for i = 0 to 32
  drawhere.line[i*6,0,i*6,32*6,0]
  drawhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub drawpixel[button%,x%,y%,shift%]
if button%=0 then prevdraw.pset[floor(x%/6),floor(y%/6),drawcol.color]
if button%=1 then prevdraw.pset[floor(x%/6),floor(y%/6),16777215]
for i = 0 to 32:for p = 0 to 32
  drawhere.fillrect[i*6,p*6,[i*6]+6,[p*6]+6,prevdraw.pixel[i,p]]
next p:next i
for i = 0 to 32
  drawhere.line[i*6,0,i*6,32*6,0]
  drawhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub altercolor1
  drawcol.color=col1.color
end sub
sub altercolor2
  drawcol.color=col2.color
end sub
sub altercolor3
  drawcol.color=col3.color
end sub
sub altercolor4
  drawcol.color=col4.color
end sub
sub altercolor5
  drawcol.color=col5.color
end sub
sub altercolor6
  drawcol.color=col6.color
end sub
sub altercolor7
  drawcol.color=col7.color
end sub
sub altercolor8
  drawcol.color=col8.color
end sub
sub altercolor9
  drawcol.color=col9.color
end sub
sub altercolor10
  drawcol.color=col10.color
end sub
sub altercolor11
  drawcol.color=col11.color
end sub
sub altercolor12
  drawcol.color=col12.color
end sub
sub altercolor13
  drawcol.color=col13.color
end sub
sub altercolor14
  drawcol.color=col14.color
end sub

```

	<pre> sub altercolor15 drawcol.color=col15.color end sub sub altercolor16 drawcol.color=col16.color end sub </pre>	
13	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> #include <qimagedialog.inc> declare sub viewmenow declare sub shrinkmenow dim q as single declare sub cleardraw declare sub gridpaint declare sub copymeover(button%,x%,y%,shift%) declare sub updatepos(x%,y%,shift%) declare sub updatezoom declare sub drawpixel(button%,x%,y%,shift%) declare sub altercolor1 declare sub altercolor2 declare sub altercolor3 declare sub altercolor4 declare sub altercolor5 declare sub altercolor6 declare sub altercolor7 declare sub altercolor8 declare sub altercolor9 declare sub altercolor10 declare sub altercolor11 declare sub altercolor12 declare sub altercolor13 declare sub altercolor14 declare sub altercolor15 declare sub altercolor16 dim px as single:dim py as single dim i as single dim p as single dim newpic as qrect dim viewme as qimagedialog viewme.initialdir="c:\ms3\mybis\gx" dim source as qrect:dim dest as qrect dest.left=0:dest.right=32:dest.top=0:dest.bottom=32 CREATE Form AS QFORMex Caption = "ICON EDITOR":Width = 750 Height = 550:Center:borderstyle=4 create loader as qpanel left=5:top=5:width=500:height=450 bevelinner=-1:bevelouter=-1 create preloader as qimageex left=0:top=0:width=500:height=400:autosize=1 showhint=1:hint="loaded image ... click to copy 32x32" onmouseup=copymeover:onmousedown=updatepos end create create actionloader as qpanel left=10:top=400:height=45:width=480 bevelinner=1:bevelouter=1:color=11711154 create loadbtn as qbutton left=10:top=5:caption="Load File":height=20 onclick=viewmenow end create create minim as qbutton left=110:top=5:caption="shrink":height=20 onclick=shrinkmenow end create create copyov as qbutton left=210:top=5:caption="copy over":height=20 end create </pre>	<p>Clear the drawing area. Click the CLEAR button.</p>

```

create filename as qlabel
  left=10:top=28:caption="(current file)":width=400
  showhint=1:hint="the current loaded file"
end create
end create
create editor as qpanel
  left=510:top=5:width=225:height=360
  bevelinner=1:bevelouter=1
  create prev1 as qpanel
    left=10:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1:color=16777215
    showhint=1:hint="preview on the editor icon"
    create prevdraw as qimage
      left=2:top=2:width=32:height=32
    end create
  end create
  create cur1 as qpanel
    left=50:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1
    color=16777215:showhint=1
    hint="position the x/y hotspot for the cursor"
    create prevcurdraw as qimage
      left=2:top=2:width=32:height=32
    end create
  end create
  create actualdraw as qpanel
    left=10:top=50:width=(32*6)+4
    height=(32*6)+4:color=16777215
    bevelouter=-1:bevelinner=01
    create drawhere as qcanvas
      left=2:top=2
      width=(32*6)+2:height=(32*6)+2
      onpaint=gridpaint
      onmousedown=drawpixel
    end create
  end create
  create posme as qlabel
    left=10:top=250:caption="Position X: Y:"
  end create
  create colorpalette as qpanel
    left=10:top=270:height=50:width=200
    showhint=1:hint="select the desired drawing color"
    create drawcol as qpanel
      left=5:top=5:height=40:width=20:color=5570560
      showhint=1:hint="drawing color"
    end create
    create col1 as qpanel
      left=30:top=5:width=15:height=15:color=16711680
      onclick=altercolor1
    end create
    create col2 as qpanel
      left=50:top=5:width=15:height=15:color=65280
      onclick=altercolor2
    end create
    create col3 as qpanel
      left=70:top=5:width=15:height=15:color=255
      onclick=altercolor3
    end create
    create col4 as qpanel
      left=90:top=5:width=15:height=15:color=16711935
      onclick=altercolor4
    end create
    create col5 as qpanel
      left=110:top=5:width=15:height=15:color=65535
      onclick=altercolor5
    end create
end create

```

```

create col6 as qpanel
  left=130:top=5:width=15:height=15:color=16777215
  onclick=altercolor6
end create
create col7 as qpanel
  left=150:top=5:width=15:height=15:color=5609745
  onclick=altercolor7
end create
create col8 as qpanel
  left=170:top=5:width=15:height=15:color=15615163
  onclick=altercolor8
end create
create col9 as qpanel
  left=30:top=25:width=15:height=15:color=12272878
  onclick=altercolor9
end create
create col10 as qpanel
  left=50:top=25:width=15:height=15:color=1136025
  onclick=altercolor10
end create
create col11 as qpanel
  left=70:top=25:width=15:height=15:color=3355443
  onclick=altercolor11
end create
create col12 as qpanel
  left=90:top=25:width=15:height=15:color=6710886
  onclick=altercolor12
end create
create col13 as qpanel
  left=110:top=25:width=15:height=15:color=10066329
  onclick=altercolor13
end create
create col14 as qpanel
  left=130:top=25:width=15:height=15:color=11250603
  onclick=altercolor14
end create
create col15 as qpanel
  left=150:top=25:width=15:height=15:color=14540253
  onclick=altercolor15
end create
create col16 as qpanel
  left=170:top=25:width=15:height=15:color=5570560
  onclick=altercolor16
end create
end create
create newbtn as qbutton
  left=10:width=60:top=330:height=20:caption="clear"
  onclick=cleardraw
end create
create sicon as qbutton
  left=75:width=60:top=330:height=20
  caption="Save Icon"
end create
end create
END CREATE
SetWindowLong[Form.Handle,-8,0]
SetWindowLong[Application.Handle,-8,Form.Handle]
Form.ShowModal

sub gridpaint
for i = 0 to 32
  drawwhere.line[i*6,0,i*6,32*6,0]
  drawwhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub viewmenow

```

```

if viewme.execute then
  q=0:minim.caption="Shrink: "+str$(q)
  preloader.bmp="c:\ms3\mybis\gx\blank2.bmp"
  filename.caption=viewme.filename
  preloader.draw(viewme.filename,0,0)
  preloader.bmp=viewme.filename
end if
end sub

sub shrinkmenow
q=q+1
minim.caption="Shrink: "+str$(q)
newpic.left=0:newpic.top=0
newpic.right=preloader.width-q
newpic.bottom=preloader.height-q
preloader.stretchdraw(newpic,viewme.filename)
preloader.width=preloader.width-q
preloader.height=preloader.height-q
end sub

sub updatepos(x%,y%,shift%)
copyov.caption=str$(x%)+"/ "+str$(y%)
end sub

sub copymeover(button%,x%,y%,shift%)
source.left=x%:source.right=x%+32
source.top=y%:source.bottom=y%+32
prevdraw.copyrect(dest,preloader,source)
updatezoom
end sub

sub updatezoom
for i = 0 to 32:for p = 0 to 32

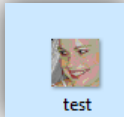
drawhere.fillrect(i*6,p*6,(i*6)+6,(p*6)+6,preloader.pixel(i+source.left,p+source.top))
next p:next i
for i = 0 to 32
  drawhere.line(i*6,0,i*6,32*6,0)
  drawhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub drawpixel(button%,x%,y%,shift%)
if button%=0 then prevdraw.pset(floor(x%/6),floor(y%/6),drawcol.color)
if button%=1 then prevdraw.pset(floor(x%/6),floor(y%/6),16777215)
for i = 0 to 32:for p = 0 to 32
  drawhere.fillrect(i*6,p*6,(i*6)+6,(p*6)+6,prevdraw.pixel(i,p))
next p:next i
for i = 0 to 32
  drawhere.line(i*6,0,i*6,32*6,0)
  drawhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub cleardraw
prevdraw.fillrect(0,0,prevdraw.width,prevdraw.height,16777215)
for i = 0 to 32:for p = 0 to 32
  drawhere.fillrect(i*6,p*6,(i*6)+6,(p*6)+6,prevdraw.pixel(i,p))
next p:next i
for i = 0 to 32
  drawhere.line(i*6,0,i*6,32*6,0)
  drawhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub altercolor1

```

	<pre> drawcol.color=col1.color end sub sub altercolor2 drawcol.color=col2.color end sub sub altercolor3 drawcol.color=col3.color end sub sub altercolor4 drawcol.color=col4.color end sub sub altercolor5 drawcol.color=col5.color end sub sub altercolor6 drawcol.color=col6.color end sub sub altercolor7 drawcol.color=col7.color end sub sub altercolor8 drawcol.color=col8.color end sub sub altercolor9 drawcol.color=col9.color end sub sub altercolor10 drawcol.color=col10.color end sub sub altercolor11 drawcol.color=col11.color end sub sub altercolor12 drawcol.color=col12.color end sub sub altercolor13 drawcol.color=col13.color end sub sub altercolor14 drawcol.color=col14.color end sub sub altercolor15 drawcol.color=col15.color end sub sub altercolor16 drawcol.color=col16.color end sub </pre>	
14	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> \$include <qicon.inc> declare sub saveicon dim ficon as qbitmap dim micon as qicon dim saveme as qsavedialog saveme.initialdir="c:\ms3\~common" declare sub viewmenow declare sub shrinkmenow dim q as single declare sub cleardraw declare sub gridpaint declare sub copymeover(button%,x%,y%,shift%) declare sub updatepos(x%,y%,shift%) declare sub updatezoom declare sub drawpixel(button%,x%,y%,shift%) declare sub altercolor1 declare sub altercolor2 </pre>	<p>SAVING as an ICON</p>  <p>You may save as follow:</p> <ul style="list-style-type: none"> • With/without transparency (black=0) • 16 colour mode • 256 color mode • HD mode

```

declare sub altercolor3
declare sub altercolor4
declare sub altercolor5
declare sub altercolor6
declare sub altercolor7
declare sub altercolor8
declare sub altercolor9
declare sub altercolor10
declare sub altercolor11
declare sub altercolor12
declare sub altercolor13
declare sub altercolor14
declare sub altercolor15
declare sub altercolor16
dim px as single:dim py as single
dim i as single
dim p as single
dim newpic as qrect
dim viewme as qimagedialog
viewme.initialdir="c:\ms3\mybis\gx"
dim source as qrect:dim dest as qrect
dest.left=0:dest.right=32:dest.top=0:dest.bottom=32
CREATE Form AS QFORMex
  Caption = "ICON EDITOR":Width = 750
  Height = 550:Center:borderstyle=4
  create loader as qpanel
    left=5:top=5:width=500:height=450
    bevelinner=-1:bevelouter=-1
    create preloader as qimageex
      left=0:top=0:width=500:height=400:autosize=1
      showhint=1:hint="loaded image ... click to copy 32x32"
      onmouseup=copymeover:onmousedown=updatepos
    end create
    create actionloader as qpanel
      left=10:top=400:height=45:width=480
      bevelinner=1:bevelouter=1:color=11711154
    create loadbtn as qbutton
      left=10:top=5:caption="Load File":height=20
      onclick=viewmenow
    end create
    create minim as qbutton
      left=110:top=5:caption="shrink":height=20
      onclick=shrinkmenow
    end create
    create copyov as qbutton
      left=210:top=5:caption="copy over":height=20
    end create
    create filename as qlabel
      left=10:top=28:caption="[current file]":width=400
      showhint=1:hint="the current loaded file"
    end create
  end create
end create
create editor as qpanel
  left=510:top=5:width=225:height=360
  bevelinner=1:bevelouter=1
  create prev1 as qpanel
    left=10:top=10:width=35:height=35
    bevelinner=1:bevelouter=-1:color=16777215
    showhint=1:hint="preview on the editor icon"
    create prevdraw as qimage
      left=2:top=2:width=32:height=32
    end create
  end create
end create
create cur1 as qpanel
  left=50:top=10:width=35:height=35
  bevelinner=1:bevelouter=-1

```

```

color=16777215:showhint=1
hint="position the x/y hotspot for the cursor"
create prevcurdraw as qimage
  left=2:top=2:width=32:height=32
end create
end create
create actualdraw as qpanel
  left=10:top=50:width=(32*6)+4
  height=(32*6)+4:color=16777215
  bevelouter=-1:bevelinner=01
  create drawhere as qcanvas
    left=2:top=2
    width=(32*6)+2:height=(32*6)+2
    onpaint=gridpaint
    onmousedown=drawpixel
  end create
end create
create posme as qlabel
  left=10:top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
  left=10:top=270:height=50:width=200
  showhint=1:hint="select the desired drawing color"
  create drawcol as qpanel
    left=5:top=5:height=40:width=20:color=5570560
    showhint=1:hint="drawing color"
  end create
  create col1 as qpanel
    left=30:top=5:width=15:height=15:color=16711680
    onclick=altercolor1
  end create
  create col2 as qpanel
    left=50:top=5:width=15:height=15:color=65280
    onclick=altercolor2
  end create
  create col3 as qpanel
    left=70:top=5:width=15:height=15:color=255
    onclick=altercolor3
  end create
  create col4 as qpanel
    left=90:top=5:width=15:height=15:color=16711935
    onclick=altercolor4
  end create
  create col5 as qpanel
    left=110:top=5:width=15:height=15:color=65535
    onclick=altercolor5
  end create
  create col6 as qpanel
    left=130:top=5:width=15:height=15:color=16777215
    onclick=altercolor6
  end create
  create col7 as qpanel
    left=150:top=5:width=15:height=15:color=5609745
    onclick=altercolor7
  end create
  create col8 as qpanel
    left=170:top=5:width=15:height=15:color=15615163
    onclick=altercolor8
  end create
  create col9 as qpanel
    left=30:top=25:width=15:height=15:color=12272878
    onclick=altercolor9
  end create
  create col10 as qpanel
    left=50:top=25:width=15:height=15:color=1136025
    onclick=altercolor10
  end create

```



```

create col11 as qpanel
  left=70:top=25:width=15:height=15:color=3355443
  onclick=altercolor11
end create
create col12 as qpanel
  left=90:top=25:width=15:height=15:color=6710886
  onclick=altercolor12
end create
create col13 as qpanel
  left=110:top=25:width=15:height=15:color=10066329
  onclick=altercolor13
end create
create col14 as qpanel
  left=130:top=25:width=15:height=15:color=11250603
  onclick=altercolor14
end create
create col15 as qpanel
  left=150:top=25:width=15:height=15:color=14540253
  onclick=altercolor15
end create
create col16 as qpanel
  left=170:top=25:width=15:height=15:color=5570560
  onclick=altercolor16
end create
end create
create newbtn as qbutton
  left=10:width=60:top=330:height=20:caption="clear"
  onclick=cleardraw
end create
create sicon as qbutton
  left=75:width=60:top=330:height=20
  caption="Save Icon"
  onclick=saveicon
end create
end create
create dept1 as qradiobutton
  left=550:top=390:caption="16 colours"
  checked=1:width=150
end create
create dept2 as qradiobutton
  left=550:top=410:caption="256 colours"
end create
create dept3 as qradiobutton
  left=550:top=430:caption="HD"
end create
create transme as qcheckbox
  left=550:top=460:caption="Transparent"
  checked=1
end create
END CREATE
SetWindowLong(Form.Handle, -8, 0)
SetWindowLong(Application.Handle, -8, Form.Handle)
Form.ShowDialog

sub gridpaint
for i = 0 to 32
  drawhere.line(i*6,0,i*6,32*6,0)
  drawhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub viewmenow
if viewme.execute then
  q=0:minim.caption="Shrink: "+str$(q)
  preloader.bmp="c:\ms3\mybis\gx\blank2.bmp"
  filename.caption=viewme.filename
  preloader.draw(viewme.filename,0,0)

```

```

preloader.bmp=viewme.filename
end if
end sub

sub shrinkmenow
q=q+1
minim.caption="Shrink: "+str$(q)
newpic.left=0:newpic.top=0
newpic.right=preloader.width-q
newpic.bottom=preloader.height-q
preloader.stretchdraw(newpic,viewme.filename)
preloader.width=preloader.width-q
preloader.height=preloader.height-q
end sub

sub updatepos(x%,y%,shift%)
copyov.caption=str$(x%)+"/ "+str$(y%)
end sub

sub copymeover(button%,x%,y%,shift%)
source.left=x%:source.right=x%+32
source.top=y%:source.bottom=y%+32
prevdraw.copyrect(dest,preloader,source)
updatezoom
end sub

sub updatezoom
for i = 0 to 32:for p = 0 to 32
drawwhere.fillrect(i*6,p*6,(i*6)+6,(p*6)+6,preloader.pixel[i+source.left,p+source.top])
next p:next i
for i = 0 to 32
drawwhere.line(i*6,0,i*6,32*6,0)
drawwhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub drawpixel(button%,x%,y%,shift%)
if button%=0 then prevdraw.pset(floor(x%/6),floor(y%/6),drawcol.color)
if button%=1 then prevdraw.pset(floor(x%/6),floor(y%/6),16777215)
for i = 0 to 32:for p = 0 to 32
drawwhere.fillrect(i*6,p*6,(i*6)+6,(p*6)+6,prevdraw.pixel[i,p])
next p:next i
for i = 0 to 32
drawwhere.line(i*6,0,i*6,32*6,0)
drawwhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub cleardraw
prevdraw.fillrect(0,0,prevdraw.width,prevdraw.height,16777215)
for i = 0 to 32:for p = 0 to 32
drawwhere.fillrect(i*6,p*6,(i*6)+6,(p*6)+6,prevdraw.pixel[i,p])
next p:next i
for i = 0 to 32
drawwhere.line(i*6,0,i*6,32*6,0)
drawwhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub altercolor1
drawcol.color=col1.color
end sub
sub altercolor2
drawcol.color=col2.color
end sub
sub altercolor3
drawcol.color=col3.color

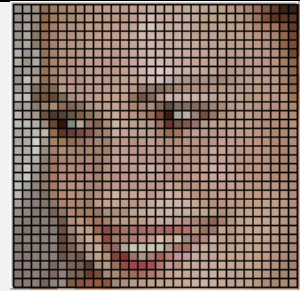
```

	<pre> end sub sub altercolor4 drawcol.color=col4.color end sub sub altercolor5 drawcol.color=col5.color end sub sub altercolor6 drawcol.color=col6.color end sub sub altercolor7 drawcol.color=col7.color end sub sub altercolor8 drawcol.color=col8.color end sub sub altercolor9 drawcol.color=col9.color end sub sub altercolor10 drawcol.color=col10.color end sub sub altercolor11 drawcol.color=col11.color end sub sub altercolor12 drawcol.color=col12.color end sub sub altercolor13 drawcol.color=col13.color end sub sub altercolor14 drawcol.color=col14.color end sub sub altercolor15 drawcol.color=col15.color end sub sub altercolor16 drawcol.color=col16.color end sub sub saveicon ficon.bmp=prevdraw.bmp ficon.width=32:ficon.height=32 if saveme.execute then ficon.savetofile saveme.filename end if micon.filename=saveme.filename if transme.checked=0 then if dept1.checked=1 then micon.savetofile(micon.filename+".ico",pf4bit,0) if dept2.checked=1 then micon.savetofile(micon.filename+".ico",pf8bit,0) if dept3.checked=1 then micon.savetofile(micon.filename+".ico",pfdevice,0) end if if transme.checked=1 then if dept1.checked=1 then micon.savetofile(micon.filename+".ico",pf4bit,1) if dept2.checked=1 then micon.savetofile(micon.filename+".ico",pf8bit,1) if dept3.checked=1 then micon.savetofile(micon.filename+".ico",pfdevice,1) end if end sub </pre>	
15	<pre> \$TYPECHECK ON \$INCLUDE <RapidQ2.inc> \$include <qimagedialog.inc> \$include <qicon.inc> declare sub saveicon dim ficon as qbitmap dim micon as qicon dim saveme as qsavedialog </pre>	Indicate the position of the cursor.

```

saveme.initialdir="c:\ms3\~common"
declare sub viewmenow
declare sub shrinkmenow
dim q as single
declare sub indicpos(x%,y%,shift%)
declare sub cleardraw
declare sub gridpaint
declare sub copymeover(button%,x%,y%,shift%)
declare sub updatepos(x%,y%,shift%)
declare sub updatezoom
declare sub drawpixel(button%,x%,y%,shift%)
declare sub altercolor1
declare sub altercolor2
declare sub altercolor3
declare sub altercolor4
declare sub altercolor5
declare sub altercolor6
declare sub altercolor7
declare sub altercolor8
declare sub altercolor9
declare sub altercolor10
declare sub altercolor11
declare sub altercolor12
declare sub altercolor13
declare sub altercolor14
declare sub altercolor15
declare sub altercolor16
dim px as single:dim py as single
dim i as single
dim p as single
dim newpic as qrect
dim viewme as qimagedialog
viewme.initialdir="c:\ms3\mybis\gx"
dim source as qrect:dim dest as qrect
dest.left=0:dest.right=32:dest.top=0:dest.bottom=32
CREATE Form AS QFORMex
Caption = "ICON EDITOR":Width = 750
Height = 550:Center:borderstyle=4
create loader as qpanel
left=5:top=5:width=500:height=450
bevelinner=-1:bevelouter=-1
create preloader as qimageex
left=0:top=0:width=500:height=400:autosize=1
showhint=1:hint="loaded image ... click to copy 32x32"
onmouseup=copymeover:onmousedown=updatepos
end create
create actionloader as qpanel
left=10:top=400:height=45:width=480
bevelinner=1:bevelouter=1:color=11711154
create loadbtn as qbutton
left=10:top=5:caption="Load File":height=20
onclick=viewmenow
end create
create minim as qbutton
left=110:top=5:caption="shrink":height=20
onclick=shrinkmenow
end create
create copyov as qbutton
left=210:top=5:caption="copy over":height=20
end create
create filename as qlabel
left=10:top=28:caption="[current file]":width=400
showhint=1:hint="the current loaded file"
end create
end create
end create
create editor as qpanel

```



8 / 32 col: 4347018

```

left=510:top=5:width=225:height=360
bevelinner=1:bevelouter=1
create prev1 as qpanel
  left=10:top=10:width=35:height=35
  bevelinner=1:bevelouter=-1:color=16777215
  showhint=1:hint="preview on the editor icon"
  create prevdraw as qimage
    left=2:top=2:width=32:height=32
  end create
end create
create cur1 as qpanel
  left=50:top=10:width=35:height=35
  bevelinner=1:bevelouter=-1
  color=16777215:showhint=1
  hint="position the x/y hotspot for the cursor"
  create prevcurdraw as qimage
    left=2:top=2:width=32:height=32
  end create
end create
create actualdraw as qpanel
  left=10:top=50:width=(32*6)+4
  height=(32*6)+4:color=16777215
  bevelouter=-1:bevelinner=01
  create drawhere as qcanvas
    left=2:top=2
    width=(32*6)+2:height=(32*6)+2
    onpaint=gridpaint
    onmousedown=drawpixel
    onmousemove=indicpos
  end create
end create
create posme as qlabel
  left=10:top=250:caption="Position X: Y:"
end create
create colorpalette as qpanel
  left=10:top=270:height=50:width=200
  showhint=1:hint="select the desired drawing color"
  create drawcol as qpanel
    left=5:top=5:height=40:width=20:color=5570560
    showhint=1:hint="drawing color"
  end create
  create col1 as qpanel
    left=30:top=5:width=15:height=15:color=16711680
    onclick=altercolor1
  end create
  create col2 as qpanel
    left=50:top=5:width=15:height=15:color=65280
    onclick=altercolor2
  end create
  create col3 as qpanel
    left=70:top=5:width=15:height=15:color=255
    onclick=altercolor3
  end create
  create col4 as qpanel
    left=90:top=5:width=15:height=15:color=16711935
    onclick=altercolor4
  end create
  create col5 as qpanel
    left=110:top=5:width=15:height=15:color=65535
    onclick=altercolor5
  end create
  create col6 as qpanel
    left=130:top=5:width=15:height=15:color=16777215
    onclick=altercolor6
  end create
  create col7 as qpanel
    left=150:top=5:width=15:height=15:color=5609745

```

```

        onclick=altercolor7
    end create
    create col8 as qpanel
        left=170:top=5:width=15:height=15:color=15615163
        onclick=altercolor8
    end create
    create col9 as qpanel
        left=30:top=25:width=15:height=15:color=12272878
        onclick=altercolor9
    end create
    create col10 as qpanel
        left=50:top=25:width=15:height=15:color=1136025
        onclick=altercolor10
    end create
    create col11 as qpanel
        left=70:top=25:width=15:height=15:color=3355443
        onclick=altercolor11
    end create
    create col12 as qpanel
        left=90:top=25:width=15:height=15:color=6710886
        onclick=altercolor12
    end create
    create col13 as qpanel
        left=110:top=25:width=15:height=15:color=10066329
        onclick=altercolor13
    end create
    create col14 as qpanel
        left=130:top=25:width=15:height=15:color=11250603
        onclick=altercolor14
    end create
    create col15 as qpanel
        left=150:top=25:width=15:height=15:color=14540253
        onclick=altercolor15
    end create
    create col16 as qpanel
        left=170:top=25:width=15:height=15:color=5570560
        onclick=altercolor16
    end create
end create
create newbtn as qbutton
    left=10:width=60:top=330:height=20:caption="clear"
    onclick=cleardraw
end create
create sicon as qbutton
    left=75:width=60:top=330:height=20
    caption="Save Icon"
    onclick=saveicon
end create
end create
create dept1 as qradiobutton
    left=550:top=390:caption="16 colours"
    checked=1:width=150
end create
create dept2 as qradiobutton
    left=550:top=410:caption="256 colours"
end create
create dept3 as qradiobutton
    left=550:top=430:caption="HD"
end create
create transme as qcheckbox
    left=550:top=460:caption="Transparent"
    checked=1
end create
END CREATE
SetWindowLong(Form.Handle, -8, 0)
SetWindowLong(Application.Handle, -8, Form.Handle)
Form.ShowDialog

```

```

sub gridpaint
for i = 0 to 32
  drawhere.line[i*6,0,i*6,32*6,0]
  drawhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub viewmenow
if viewme.execute then
  q=0:minim.caption="Shrink: "+str$(q)
  preloader.bmp="c:\ms3\mybis\gx\blank2.bmp"
  filename.caption=viewme.filename
  preloader.draw(viewme.filename,0,0)
  preloader.bmp=viewme.filename
end if
end sub

sub shrinkmenow
q=q+1
minim.caption="Shrink: "+str$(q)
newpic.left=0:newpic.top=0
newpic.right=preloader.width-q
newpic.bottom=preloader.height-q
preloader.stretchdraw(newpic,viewme.filename)
preloader.width=preloader.width-q
preloader.height=preloader.height-q
end sub

sub updatepos(x%,y%,shift%)
copyov.caption=str$(x%)+"/ "+str$(y%)
end sub

sub copymeover(button%,x%,y%,shift%)
source.left=x%:source.right=x%+32
source.top=y%:source.bottom=y%+32
prevdraw.copyrect(dest,preloader,source)
updatezoom
end sub

sub updatezoom
for i = 0 to 32:for p = 0 to 32
  drawhere.fillrect[i*6,p*6,(i*6)+6,(p*6)+6,preloader.pixel[i+source.left,p+source.top]]
next p:next i
for i = 0 to 32
  drawhere.line[i*6,0,i*6,32*6,0]
  drawhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub drawpixel(button%,x%,y%,shift%)
if button%=0 then prevdraw.pset[floor(x%/6),floor(y%/6),drawcol.color]
if button%=1 then prevdraw.pset[floor(x%/6),floor(y%/6),16777215]
for i = 0 to 32:for p = 0 to 32
  drawhere.fillrect[i*6,p*6,(i*6)+6,(p*6)+6,prevdraw.pixel[i,p]]
next p:next i
for i = 0 to 32
  drawhere.line[i*6,0,i*6,32*6,0]
  drawhere.line[0,i*6,32*6,i*6,0]
next i
end sub

sub cleardraw
prevdraw.fillrect[0,0,prevdraw.width,prevdraw.height,16777215]
for i = 0 to 32:for p = 0 to 32
  drawhere.fillrect[i*6,p*6,(i*6)+6,(p*6)+6,prevdraw.pixel[i,p]]
next p:next i

```

```

for i = 0 to 32
  drawwhere.line(i*6,0,i*6,32*6,0)
  drawwhere.line(0,i*6,32*6,i*6,0)
next i
end sub

sub altercolor1
  drawcol.color=col1.color
end sub
sub altercolor2
  drawcol.color=col2.color
end sub
sub altercolor3
  drawcol.color=col3.color
end sub
sub altercolor4
  drawcol.color=col4.color
end sub
sub altercolor5
  drawcol.color=col5.color
end sub
sub altercolor6
  drawcol.color=col6.color
end sub
sub altercolor7
  drawcol.color=col7.color
end sub
sub altercolor8
  drawcol.color=col8.color
end sub
sub altercolor9
  drawcol.color=col9.color
end sub
sub altercolor10
  drawcol.color=col10.color
end sub
sub altercolor11
  drawcol.color=col11.color
end sub
sub altercolor12
  drawcol.color=col12.color
end sub
sub altercolor13
  drawcol.color=col13.color
end sub
sub altercolor14
  drawcol.color=col14.color
end sub
sub altercolor15
  drawcol.color=col15.color
end sub
sub altercolor16
  drawcol.color=col16.color
end sub

sub saveicon
ficon.bmp=prevdraw.bmp
ficon.width=32:ficon.height=32
if saveme.execute then
  ficon.savetofile saveme.filename
end if
micon.filename=saveme.filename
if transme.checked=0 then
  if dept1.checked=1 then micon.savetofile(micon.filename+".ico",pf4bit,0)
  if dept2.checked=1 then micon.savetofile(micon.filename+".ico",pf8bit,0)
  if dept3.checked=1 then micon.savetofile(micon.filename+".ico",pfdevice,0)
end if

```


<pre>if transme.checked=1 then if dept1.checked=1 then micon.savetofile(micon.filename+".ico",pf4bit,1) if dept2.checked=1 then micon.savetofile(micon.filename+".ico",pf8bit,1) if dept3.checked=1 then micon.savetofile(micon.filename+".ico",pfdevice,1) end if end sub sub indicpos(x%,y%,shift%) i=floor(x%/6) p=floor(y%/6) posme.caption=str\$(i+1)+" / "+str\$(p+1)+" col: "+str\$(prevdraw.pixel(i,p)) end sub</pre>	
--	--