

How to resize a *.jpg image and save the result to a file

QUESTION

How do I resize a *.jpg or *.gif image from say 640×480 to 50×50 and then save the image as a new one?

```
procedure TForm1.Button1Click(Sender: TObject);
var
  bmp: TBitmap;
  jpg: TJpegImage;
  scale: Double;
begin
  if opendialog1.execute then
  begin
    jpg := TJpegImage.Create;
    try
      jpg.LoadFromFile(opendialog1.filename);
      if jpg.Height > jpg.Width then
        scale := 50 / jpg.Height
      else
        scale := 50 / jpg.Width;
      bmp := TBitmap.Create;
      try
        {Create thumbnail bitmap, keep pictures aspect ratio}
        bmp.Width := Round(jpg.Width * scale);
        bmp.Height := Round(jpg.Height * scale);
        bmp.Canvas.StretchDraw(bmp.Canvas.ClipRect, jpg);
        {Draw thumbnail as control}
        Self.Canvas.Draw(100, 10, bmp);
        {Convert back to JPEG and save to file}
        jpg.Assign(bmp);
        jpg.SaveToFile(
          ChangeFileExt(opendialog1.filename, '_thumb.JPG')
        );
      finally
        bmp.free;
      end;
    finally
      jpg.free;
    end;
  end;
end;
```

Note: to test this code you need to drop a *TButton* and a *TOpenDialog* on a form and add the *JPEG* unit to the **uses** statement.

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