

# How to adjust RGB values using TTrackBars

## QUESTION

I would like to program an application in which you can control values of red, green and blue with trackbars. How can I do that?

## Answer 1

Drop three TrackBars on a form. Set *Min* to 0, *Max* to 255. Drop a *TImage* on the form. Then try this code:

```
{ ... }
var
  Form1: TForm1;
  MyColor: LongWord;
  RedColor: LongWord = $00000000;
  GreenColor: LongWord = $00000000;
  BlueColor: LongWord = $00000000;

implementation

{$R *.DFM}

procedure TForm1.FormCreate(Sender: TObject);
begin
  DoImageFill;
end;

procedure TForm1.DoImageFill;
begin
  MyColor := RedColor or GreenColor or BlueColor;
  Image1.Canvas.Brush.Color := TColor(MyColor);
  Image1.Canvas.FillRect(Rect(0, 0, Image1.Width, Image1.Height));
end;

procedure TForm1.RedBarChange(Sender: TObject);
begin
  RedColor := RedBar.Position;
  DoImageFill;
end;

procedure TForm1.GreenBarChange(Sender: TObject);
begin
  GreenColor := GreenBar.Position shl 8;
  DoImageFill;
end;

procedure TForm1.BlueBarChange(Sender: TObject);
begin
  BlueColor := BlueBar.Position shl 16;
  DoImageFill;
end;

end.
```

Tip by Sue D. Nom

## Answer 2

Each color value ranges from 0 to 255. Set the three trackbars with this range. You can use the RGB function to create a color from these values.

```
{ ... }
type
  TForm1 = class(TForm)
```

```

redTrackBar: TTrackBar;
greenTrackBar: TTrackBar;
blueTrackBar: TTrackBar;
Panell: TPanel;
procedure blueTrackBarChange(Sender: TObject);
procedure greenTrackBarChange(Sender: TObject);
procedure redTrackBarChange(Sender: TObject);
public
  procedure ChangeColor;
end;

procedure TForm1.ChangeColor;
begin
  Panell.Color := RGB(
    redTrackBar.Position, greenTrackBar.Position, blueTrackBar.Position
  );
end;

procedure TForm1.blueTrackBarChange(Sender: TObject);
begin
  ChangeColor;
end;

procedure TForm1.greenTrackBarChange(Sender: TObject);
begin
  ChangeColor;
end;

procedure TForm1.redTrackBarChange(Sender: TObject);
begin
  ChangeColor;
end;

```

Tip by Mauro Patiño

Original resource:	The Delphi Pool
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