ProgressBar1.Position := 0; unit Loading; Timer1.Interval := 20; Timer1.Enabled := True; interface end; Winapi. Windows, Winapi. Messages, System. SysUtils, Sys-tem. Variprocedure TLoadingForm.Timer1Timer(Sender: TObject); ants, System. Classes, Vcl. Graphics, begin Vcl.Controls, Vcl.Forms, Vcl.Dialogs, Vcl.ComCtrls, Vcl.ExtCtrls, Vcl.StdCtrls, if ProgressBar1.Position < ProgressBar1.Max then ProgressBar1.Position := ProgressBar1.Position + 1Vcl.Imaging.pngimage; else begin type Timer1.Enabled := False; TLoadingForm = class(TForm)Timer1: TTimer; Close; end; ProgressBar1: TProgressBar; end: Logo: TImage; LogoText: TImage; procedure Timer1Timer(Sender: TObject); end. procedure FormCreate(Sender: TObject); private unit Main; { Private declarations } public { Public declarations } interface end: uses Windows, SysUtils, Graphics, Forms, Controls, Menus, StdCtrls, Dialogs, Buttons, Messages, LoadingForm: TLoadingForm; ExtCtrls, ComCtrls, ToolWin, ImageEnProc, ImageEnView, ImageEnIO, hyiedefs, IEOpenSaveDlg, hyieutils, implementation iexBitmaps, iesettings, iexLayers, iexRulers, iexToolbars, uCloseTab-Sheet, ieview, iexColorButton, $iexUserInteractions,\,System.UITypes,\,System.Classes,\,ShellA-PI;$ {\$R *.dfm} type TMainForm = class(TForm) procedure TLoadingForm.FormCreate(Sender: TObject); MainMenu1: TMainMenu; begin miFileMenu: TMenuItem;

Подпись	Дата	

Изм.

Лист

№докцм.

miFileNew: TMenuItem; btnEllipticalSelect: TSpeedButton; miFileOpen: TMenuItem; miCropToSel: TMenuItem; miFileClose: TMenuItem; btnLassoSelect: TSpeedButton;miHelpMenu: TMenuItem; btnRedo: TSpeedButton; miExit: TMenuItem; miRedo: TMenuItem; miAbout: TMenuItem; btnCropTool: TSpeedButton; pgcEditor: TPageControl; miFileSave: TMenuItem; miFileSaveAs: TMenuItem; ProgressBar1: TProgressBar; miEditMenu: TMenuItem: lblStatus: TLabel; miCut: TMenuItem; OpenImageEnDialog1: TOpenImageEnDialog; miCopy: TMenuItem; SaveImageEnDialog1: TSaveImageEnDialog; btnZoom100: TSpeedButton; miPaste: TMenuItem; pnlToolbar: TPanel; btnZoomIn: TSpeedButton; btnOpen: TSpeedButton; btnZoomOut: TSpeedButton; btnSave: TSpeedButton; btnSmudgeTool: TSpeedButton; btnCut: TSpeedButton; btnCloneTool: TSpeedButton; btnCopy: TSpeedButton; btnRotateTool: TSpeedButton; btnPaste: TSpeedButton; updBrush: TUpDown; btn New: TSpeed Button;edtBrush: TEdit; miToolsMenu: TMenuItem; miRetouchTools: TMenuItem; miBackground: TMenuItem; miClone: TMenuItem; N2: TMenuItem; sepRT: TMenuItem; miNegative: TMenuItem; miSmudge: TMenuItem; miGrayscale: TMenuItem; miBlur: TMenuItem; miHorizontalflip: TMenuItem; miSharpen: TMenuItem; miVerticalflip: TMenuItem; miSmooth: TMenuItem; N6: TMenuItem: miPixelize: TMenuItem: miUndo: TMenuItem; miWave: TMenuItem; miImageMenu: TMenuItem; miViewMenu: TMenuItem; N7: TMenuItem; N12: TMenuItem; btnUndo: TSpeedButton; N14: TMenuItem; pnlStatus: TPanel; btnSelectZoom: TSpeedButton; btnRectSelect: TSpeedButton; miPixelize2: TMenuItem; N8: TMenuItem; miSmooth2: TMenuItem; btnDefault: TSpeedButton; btnBrushTool: TSpeedButton;

Изм.	Лист	№докцм.	Подпись	Дата

btnEraserTool: TSpeedButton; btnShapeTool: TSpeedButton; btnColorPicker: TSpeedButton; miAddShapeMenu: TMenuItem; btnBrushColor: TIEColorButton; N18: TMenuItem; miBrushTools: TMenuItem; miArrowDown: TMenuItem; miSolidBrush: TMenuItem; miArrowLeft: TMenuItem; sepBR: TMenuItem; miArrowRight: TMenuItem; miArrowUp: TMenuItem; miEraser: TMenuItem; miAddText: TMenuItem; miCloud: TMenuItem; SelectFont1: TMenuItem: miEllipse: TMenuItem; N15: TMenuItem; miExplosion: TMenuItem; FontDialog1: TFontDialog; miHeart: TMenuItem; bevel2: TPaintBox; miLightningLeft: TMenuItem; bevel1: TPaintBox; miRectangle: TMenuItem; bevel3: TPaintBox; miSpeechBubble: TMenuItem; bevel5: TPaintBox; miStar5: TMenuItem; bevel4: TPaintBox; miTriangle: TMenuItem; miZoom10: TMenuItem; sepSH: TMenuItem; miZoom25: TMenuItem: miShapeBorder: TMenuItem; miZoom50: TMenuItem; miSelectColor: TMenuItem; miZoom75: TMenuItem; btnFillTool: TSpeedButton; miZoom100: TMenuItem; miFillTool: TMenuItem; miZoom200: TMenuItem; N19: TMenuItem: miZoom500: TMenuItem; bevel8: TPaintBox; ZoomtoFit1: TMenuItem; trkZoom: TTrackBar; N16: TMenuItem; Help: TMenuItem; miSelectMenu: TMenuItem; procedure AddShapeClick(Sender: TObject); miRectangularSelect: TMenuItem; miCircularSelect: TMenuItem; procedure BevelPaint(Sender: TObject); miLassoSelect: TMenuItem; procedure BrushClick(Sender: TObject); sepSL: TMenuItem; procedure FormCreate(Sender: TObject); miSelZoom: TMenuItem; procedure miFileNewClick(Sender: TObject); procedure miFileCloseClick(Sender: TObject); miScrollView: TMenuItem; miEditingToolsMenu: TMenuItem; procedure miFileOpenClick(Sender: TObject); miRotateTl: TMenuItem; procedure miExitClick(Sender: TObject); miCropTl: TMenuItem; procedure miFileSaveClick(Sender: TObject);

Изм.	Лист	№докцм.	Подпись	Дата

1 1771 0 4 01/1/0 1 7/01/1	The Thirty Thanks of the the Tolly of
procedure miFileSaveAsClick(Sender: TObject);	procedure miEditingToolsMenuClick(Sender: TObject);
procedure miCutClick(Sender: TObject);	procedure miPixelsClick(Sender: TObject);
procedure miCopyClick(Sender: TObject);	procedure miEditingToolClick(Sender: TObject);
procedure miPasteClick(Sender: TObject);	procedure miSelectColorClick(Sender: TObject);
procedure miAboutClick(Sender: TObject);	procedure miSelectMenuClick(Sender: TObject);
procedure miPasteToRectClick(Sender: TObject);	procedure miShapeBorderClick(Sender: TObject);
procedure trkZoomChange(Sender: TObject);	procedure SelectClick(Sender: TObject);
procedure miBackgroundClick(Sender: TObject);	procedure updBrushChanging(Sender: TObject; var Al-lowChange:
procedure miNegativeClick(Sender: TObject);	Boolean);
procedure miGrayscaleClick(Sender: TObject);	procedure ZoomClick(Sender: TObject);
procedure miVerticalflipClick(Sender: TObject);	procedure HelpClick(Sender: TObject);
procedure miHorizontalflipClick(Sender: TObject);	
procedure miUndoClick(Sender: TObject);	private
procedure MouseButtonClick(Sender: TObject);	{ Private declarations }
procedure miCropToSelClick(Sender: TObject);	fCurrentRetouchMode: TIERetouchMode;
procedure miRedoClick(Sender: TObject);	fCurrentBrushFill: TIEBrushFill;
procedure btnZoom100Click(Sender: TObject);	fCurrentShape: TIEShape;
	fCurrentBorderSize: Integer;
procedure btnZoomInClick(Sender: TObject);	fClose Page Control Handler: TClose Page Control Handler;
procedure btnZoomOutClick(Sender: TObject);	
procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);	procedure UpdateStatusCaption(Sender: TObject);
procedure FormShow(Sender: TObject);	procedure SaveCurrentEditor();
procedure btnBrushColorChange(Sender: TObject);	function CreateEditorTab(const Name: string; NewImage: boolean):
procedure miAddTextClick(Sender: TObject);	TImageEnView;
procedure miBrushToolsClick(Sender: TObject);	procedure TabSheetCloseQuery(Sender: TObject; var Can-Close: Boolean);
procedure miRetouchToolsClick(Sender: TObject);	
procedure miRetouchClick(Sender: TObject);	procedure ImageEnViewViewChange(Sender: TObject; Change: In-
procedure pgcEditorChange(Sender: TObject);	teger);
procedure miPixelize2Click(Sender: TObject);	procedure ImageEnViewImageChange(Sender: TObject);
procedure miSmooth2Click(Sender: TObject);	procedure ImageEnViewProgress(Sender: TObject; per: Inte-ger);
procedure SelectFont1Click(Sender: TObject);	$procedure\ Image En View Finish Work (Sender:\ TObject);$
procedure MenuClick(Sender: TObject);	procedure ImageEnViewUserInteraction(Sender: TObject; Event: TIEUserInteractionEvent; Info: Integer);
procedure miAddShapeMenuClick(Sender: TObject);	procedure ImageEnViewNewLayer(Sender: TObject; LayerIdx: inte-
procedure miEDGrayScaleClick(Sender: TObject);	ger; LayerKind: TIELayerKind);
procedure miFillToolClick(Sender: TObject);	$procedure\ Image En\ View Layer Notify Ex (Sender:\ TObject;\ lay-er:\ Integer;\ event:\ TIE Layer Event);$

Изм.	Лист	№докцм.	Подпись	Дата

public	Result.Align := alClient;
{ Public declarations }	Result.SelColor1 := clBlack;
	Result.SelColor2 := clWhite;
function ActiveImageEnView(): TImageEnView;	Result.Background := \$00606060;
$function\ GetImageEnView (Index:\ Integer):\ TImageEnView;$	Result.SetChessboardStyle(6, bsSolid);
$procedure\ UpdateButtonStatus(UpdateMI:\ Boolean = False);$	Result.SetSelectionGripStyle(clBlack, clWhite, bsClear, 3, true);
end;	Result.ZoomFilter := rfFastLinear;
	Result. Mouse Interact General := [miSelect];
var	Result. Brush Tool. Brush Color := btn Brush Color. Selected Color;
MainForm: TMainForm;	Result. Fill Tool. Color Fill Value := btn Brush Color. Selected Color;
	Result. Clone Tool. Brush Size := upd Brush. Position;
implementation	Result. Retouch Tool. Brush Size := upd Brush. Position;
	Result.BrushTool.BrushSize := updBrush.Position;
{\$R *.DFM}	
	Result.Proc.UndoLimit := 20;
uses	Result. Proc. Previews Params := [prppDefaultLock Preview];
Loading, About;	Result. On View Change := Image En View View Change;
{\$R demores.res}	Result. On Image Change := Image En View Image Change;
const	Result. On Selection Change := Image En View Image Change;
DEMORES_PNG_CLOSE_BUTTON = 3004;	Result. On Progress := Image En View Progress;
DEMORES_PNG_BRUSH_IMAGE = 3005;	Result. On Finish Work := Image En View Finish Work;
	Result. On New Layer := Image En View New Layer;
function TMainForm.CreateEditorTab(const Name: string; NewImage:	Result. On Layer Notify Ex := Image En View Layer Notify Ex;
boolean): TImageEnView;	if pgcEditor.PageCount > 0 then
var tab: TCloseTabSheet;	begin
	tab.PageControl := pgcEditor;
begin tab := TCloseTabSheet.Create(pgcEditor);	tab. PageIndex := pgcEditor. Active PageIndex + 1;
	pgcEditor. Active Page Index := tab. Page Index;
tab.Caption := ExtractFilename(Name); tab.OnCloseQuery := TabSheetCloseQuery;	end
tab.OnCloseQuery := TabSneetCloseQuery; tab.OnClose := pgcEditorChange;	else
tab.Officiose := pgcEuitorChange;	tab.PageControl := pgcEditor;
Result := TImageEnView.Create(tab);	
Result.Parent := tab;	if (not NewImage) and FileExists(Name) then
	begin

Изм.	Лист	№докцм.	Подпись	Дата

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Result.IO.AutoAdjustDPI := true;
                                                                                                                                                                begin
     Result.IO.LoadFromFile(Name, True);
                                                                                                                                                                  UpdateButtonStatus();
                                                                                                                                                                end:
  end
                                                                                                                                                                procedure\ TMainForm.Image En View Image Change (Sender:\ TObject);
  else
  begin
                                                                                                                                                                begin
     Result.Proc.ImageResize(700, 500);
                                                                                                                                                                  UpdateButtonStatus();
     Result.Proc.ClearUndo;
     Result.IO.Params.Filename := Name;
                                                                                                                                                                procedure TMainForm.ImageEnViewProgress(Sender: TObject; per:
                                                                                                                                                                Integer);
    Result.IEBitmap.Fill(clWhite);
                                                                                                                                                                begin
   end;
                                                                                                                                                                  ProgressBar1.Position := per;
  Result.IEBitmap.Modified := false;
                                                                                                                                                                  ProgressBar1.Visible := True;
  UpdateButtonStatus(True);
end;
                                                                                                                                                                procedure\ TMainForm.Image En ViewFinish Work (Sender:\ TObject);
procedure\ TMainForm. TabSheetCloseQuery (Sender:\ TObject;\ var
CanClose: Boolean);
                                                                                                                                                                  ProgressBar1.Visible := False;
var
  iev: TImageEnView;
                                                                                                                                                                procedure TMainForm.ImageEnViewUserInteraction(Sender: TObject;
                                                                                                                                                                Event: TIEUserInteractionEvent; Info: Integer);
begin
                                                                                                                                                                begin
  iev := nil;
                                                                                                                                                                  if Event = ieiColorPickerClick then
  if ( TCloseTabSheet(\ Sender\ ).ControlCount > 0 ) then
    iev := TImageEnView( TCloseTabSheet( Sender ).Controls[0] );
                                                                                                                                                                    btnBrushColor.SelectedColor := TColor(\ Info\ );
                                                                                                                                                                    btnBrushColorChange(nil);
  if assigned( iev ) and iev.IEBitmap.Modified then
                                                                                                                                                                    btnBrushTool.Down := True;
  begin
                                                                                                                                                                    MouseButtonClick(nil);
     pgcEditor. Active PageIndex := TCloseTabSheet(\ Sender\ ). PageIndex := TClo
dex;
                                                                                                                                                                   end:
    case MessageDlg( format( 'Сохранить изменения в файл %s?', [
                                                                                                                                                                end:
ExtractFilename( iev.IO.Params.Filename )]), mtConfirmation,
[mbYes, mbNo, mbCancel], 0) of
                                                                                                                                                                procedure TMainForm.ImageEnViewNewLayer(Sender: TObject; Lay-
                                                                                                                                                                erIdx: integer; LayerKind: TIELayerKind);
       mrYes: miFileSaveAsClick( nil );
                                                                                                                                                                begin
       mrCancel: CanClose:= false;
                                                                                                                                                                  TImageEnView (Sender). Layers [LayerIdx]. Fill Color := btn Brush-\\
    end;
                                                                                                                                                                 Color.SelectedColor;
                                                                                                                                                                  TImageEnView(Sender). Layers[LayerIdx]. BorderWidth := fCur-\\
  end:
                                                                                                                                                                rentBorderSize;
                                                                                                                                                                  if LayerKind = ielkShape then
procedure TMainForm.ImageEnViewViewChange(Sender: TObject;
Change: Integer);
```

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ĺ	Изм.	Лист	№докцм.	Подпись	Дата

 $TIES hape Layer (\ TImage En View (Sender). Layers [Layer Idx]\). Shape$ begin := fCurrentShape; CreateEditorTab('New' + IntToStr(pgcEditor.PageCount + 1) + '.jpg', $procedure\ TMainForm. Image En View Layer Notify Ex (Sender:\ TObject;$ end; layer: Integer; event: TIELayerEvent); procedure TMainForm.miFileOpenClick(Sender: TObject); const begin Auto_Merge_Layers = True; if OpenImageEnDialog1.Execute then $Create Editor Tab (Open Image En Dialog 1. File Name, \ false); \\$ if Auto_Merge_Layers and (layer > 0) then end; procedure TMainForm.miFileCloseClick(Sender: TObject); if ((TImageEnView(Sender).Layers[layer].Kind = ielkText) and (event = ielEdited)) or begin ((TImageEnView(Sender).Layers[layer].Kind <> ielkText) and (if pgcEditor.ActivePage <> nil then event = ielCreated)) then TCloseTabSheet(pgcEditor.ActivePage).Close; TImageEnView(Sender).LayersMerge(0, layer); end: end: procedure TMainForm.miExitClick(Sender: TObject); end; begin procedure TMainForm.FormCreate(Sender: TObject); Close: var end; I: Integer; procedure TMainForm.miCutClick(Sender: TObject); begin begin fClosePageControlHandler := TClosePageControlHandler. Create (Active Image En View (). Proc. Cut To Clipboard (iecp Selection);pgcEditor); end; fCurrentRetouchMode := iermSmudge;fCurrentBrushFill := iebfSolid; procedure TMainForm.miCopyClick(Sender: TObject); begin ActiveImageEnView().Proc.CopyToClipboard(iecpAuto); Application.OnHint := UpdateStatusCaption; for i := 0 to pnlToolbar.ControlCount - 1 do UpdateButtonStatus(); if pnlToolbar.Controls[i] is TSpeedButton then procedure TMainForm.miPasteClick(Sender: TObject); TSpeedButton(pnlToolbar.Controls[i]).Flat := True;begin Active Image En View (). Deselect;Active Image En View (). Proc. Paste From Clipboard;pnlToolbar. ParentBackground := False;pnlStatus.ParentBackground := False; end: procedure TMainForm.UpdateButtonStatus(UpdateMI: Boolean = False); end; var procedure TMainForm.miFileNewClick(Sender: TObject);

Изм.	Лист	№докцм.	Подпись	Дата

```
v: boolean;
                                                                                  updBrush
                                                                                                  .Position := iev.CloneTool.BrushSize;
 iev: TImageEnView;
 {}
                                                                                 btnBrushTool
                                                                                                   .Enabled := v;
 procedure\ \_EnableAll(MI:\ TMenuItem;\ v:\ boolean);
                                                                                 btnEraserTool\\
                                                                                                   .Enabled := v;
                                                                                 btnColorPicker
                                                                                                   .Enabled := v;
                                                                                 btnBrushColor
                                                                                                    .Enabled := v;
  i: Integer;
                                                                                 if v then
 begin
  for i := 0 to MI.Count - 1 do
                                                                                  btnBrushColor\\
                                                                                                   .SelectedColor := iev.BrushTool.BrushColor;
   MI.Items[i].Enabled := v;
                                                                                 btnUndo
 end;
                                                                                                 .Enabled := v and iev.Proc.CanUndo;
 {}
                                                                                 btnRedo
                                                                                                 .Enabled := v and iev.Proc.CanRedo;
begin
 iev := GetImageEnView(pgcEditor.ActivePageIndex);
                                                                                 miFileOpen
                                                                                                   .Enabled := v;
 v := iev \Leftrightarrow nil;
                                                                                 miFileClose
                                                                                                  .Enabled := v;
                                                                                 miFileSave
                                                                                                  .Enabled := v;
 btnSave
                 .Enabled := v;
                                                                                 miFileSaveAs
                                                                                                   .Enabled := v;
 btnCut
                .Enabled := v;
                                                                                 miUndo
                                                                                                  .Enabled := v and iev.Proc.CanUndo;
 btnCopy
                 .Enabled := v;
                                                                                 miRedo
                                                                                                 .Enabled := v and iev.Proc.CanRedo;
 btnPaste
                .Enabled := v and iev.Proc.CanPasteFromClipboard();
                                                                                                .Enabled := v;
                                                                                 miCut
 btnZoom100
                   .Enabled := v;
                                                                                 miCopy
                                                                                                 .Enabled := v;
 btnZoomIn
                   .Enabled := v;
                                                                                 miPaste
                                                                                                 .Enabled := v and iev.Proc.CanPasteFromClipboard();
 btnZoomOut
                   .Enabled := v;
 trkZoom
                  .Enabled := v;
                                                                                 miCropToSel
                                                                                                    .Enabled := v and iev.Selected;
 if v then
  trkZoom
                 .Position := Trunc(iev.Zoom * 10);
                                                                                 _EnableAll( miImageMenu, v );
 btnDefault
                  .Enabled := v;
                                                                                 _EnableAll( miToolsMenu, v );
 btnSelectZoom
                    .Enabled := v;
                                                                                 miAddText
                                                                                                   .Enabled := v and iev.Selected;
 btnRectSelect
                   .Enabled := v;
 btnEllipticalSelect \ . Enabled := v; \\
                                                                                 _EnableAll( miViewMenu, v );
 btnLassoSelect
                   .Enabled := v;
 if v then
```

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I	Изм.	Лист	№докцм.	Подпись	Дата

```
if UpdateMI then
                                                                              procedure TMainForm.miFileSaveAsClick(Sender: TObject);
  MouseButtonClick(Self);
                                                                              begin
                                                                               Save Image En Dialog 1. Filename := Active Image En-\\
                                                                              View().IO.Params.FileName;
 UpdateStatusCaption(nil);
                                                                               Save Image En Dialog 1. Attached Image En IO := Active Image En-\\
                                                                              View().IO;
procedure TMainForm.UpdateStatusCaption(Sender: TObject);
                                                                               if SaveImageEnDialog1.Execute then
 cap: string;
                                                                                ActiveImageEnView().IO.Params.FileName := SaveImageEnDia-
                                                                              log1.FileName;
begin
                                                                                SaveCurrentEditor();
 cap := Application.Hint;
                                                                               end:
 if ( cap = " ) and ( GetImageEnView( pgcEditor.ActivePageIndex ) <>
nil ) then
                                                                              end;
  cap := format( '%s (%d%%)', [ ExtractFileName( Ac-tiveImageEn-
                                                                              procedure TMainForm.miFileSaveClick(Sender: TObject);
View(). IO. Params. File Name\ ),\ Round(\ Ac-tive Image En View(). Zoom
 lblStatus.Caption := ' ' + cap;
                                                                               if (ExtractFilePath( ActiveImageEnView().IO.Params.Filename ) = "
                                                                                 ( ExtractFileExt( ActiveImageEnView().IO.Params.Filename ) = " )
procedure TMainForm.miAboutClick(Sender: TObject);
                                                                              then
                                                                                miFileSaveAsClick(nil)
 AboutForm: TAboutForm:
                                                                               else
begin
                                                                                SaveCurrentEditor();
 AboutForm := TAboutForm.create(nil);
                                                                              end;
                                                                              procedure\ TMainForm. Save Current Editor();
 try
  AboutForm.ShowModal;
                                                                              begin
 finally
                                                                               ActiveImageEnView().IO.SaveToFile( ActiveImageEn-
                                                                              View().IO.Params.Filename);
  AboutForm.free;
                                                                               ActiveImageEnView().IEBitmap.Modified := false;
 end:
                                                                              end:
                                                                              procedure TMainForm.miBackgroundClick(Sender: TObject);
procedure TMainForm.miPasteToRectClick(Sender: TObject);
                                                                              var
                                                                               ColorDialog: TColorDialog;
 Active Image En View (). Proc. Paste From Clipboard (iecp Selection); \\
                                                                              begin
end;
                                                                               ColorDialog := TColorDialog.Create(nil);
procedure TMainForm.trkZoomChange(Sender: TObject);
begin
                                                                                ColorDialog.Color := ActiveImageEnView().Background;
 ActiveImageEnView().Zoom := trkZoom.Position / 10;
                                                                                if ColorDialog.Execute then
end:
```

Изм.	Лист	№докцм.	Подпись	Дата

begin ActiveImageEnView(). MouseInteractGeneral := [miSelect];ActiveImageEnView().Background := ColorDialog.Color; end end: else if btnEllipticalSelect.down then finally ColorDialog.Free; begin ActiveImageEnView().MouseInteractGeneral := [miSelectCir-cle]; end: end: end procedure TMainForm.miNegativeClick(Sender: TObject); else if btnDefault.down then ActiveImageEnView().Proc.Negative; begin end; ActiveImageEnView().MouseInteractGeneral := [miScroll]; $procedure\ TMainForm.miGrayscaleClick (Sender:\ TObject);$ end begin else ActiveImageEnView().Proc.ConvertToGray; if btnLassoSelect.Down then end: begin $procedure\ TMainForm.miVertical flipClick (Sender:\ TObject);$ ActiveImageEnView().Deselect; begin ActiveImageEnView().MouseInteractGeneral := [miSelectLas-so]; ActiveImageEnView().Proc.Flip(fdVertical); end else procedure TMainForm.miHorizontalflipClick(Sender: TObject); if btnSelectZoom.down then begin Active Image En View (). Proc. Flip (fd Horizontal);ActiveImageEnView(). MouseInteractGeneral := [miSe-lectZoom];end end; procedure TMainForm.miUndoClick(Sender: TObject); else begin if btnCropTool.down then ActiveImageEnView().Proc.Undo(True); begin MainForm.UpdateButtonStatus(); ActiveImageEnView().MouseInteractGeneral := [miCropTool]; end; end procedure TMainForm.MouseButtonClick(Sender: TObject); else if btnSmudgeTool.down then begin $if\ GetImageEnView(\ pgcEditor.ActivePageIndex\) = nil\ then$ $ActiveImageEnView(). MouseInteractGeneral := [\ miRetouch-Tool\];$ exit; $if\ Sender = btnSmudgeTool\ then$ if btnRectSelect down then fCurrentRetouchMode := iermSmudge; begin Лист

КП 2-40 01 01.33.41.02.24 ПЗ

Изм.

Лист

№докцм.

Подпись

Дата

38

ActiveImageEnView().RetouchTool.RetouchMode := fCurren- RetouchMode;	begin
end	ActiveImageEnView().MouseInteractGeneral := [miRotateTool];
else	end
if btnCloneTool.down then	else
begin	if btnShapeTool.down then
ActiveImageEnView().MouseInteractGeneral := [miCloneTool];	begin
end	$Active Image En View (). Mouse Interact Layers := [\ ml Create-Shape-Layers\];$
else	end
if btnFillTool.down then	else
begin	if btnColorPicker.down then
ActiveImageEnView().MouseInteractGeneral := [miColorFill];	begin
end	$Active Image En View (). Mouse Interact General := [\ miColor Pick-energy and a context of the context of the$
else	ActiveImageEnView().FillTool.ColorSelectActions := [iec-cBrus Color, ieccFillColor];
if btnBrushTool.down then begin	$\label{eq:continuous} ActiveImageEnView(). On UserInteraction := ImageEnViewU-serI \\ teraction;$
if ActiveImageEnView().BrushTool.BrushImage.IsEmpty then	end;
ActiveImageEn-View().BrushTool.BrushImage.LoadFromRe- ource(HInstance, DEMORES_PNG_BRUSH_IMAGE, T_RCDATA, ioPNG);	end;
	procedure TMainForm.miCropToSelClick(Sender: TObject);
$ActiveImageEnView(). MouseInteractGeneral := [\ miBrushTool\];$	begin
if (Sender = btnBrushTool) or (fCurrentBrushFill in [ieb-fEraser,	Active Image En View (). Proc. Crop Sel ();
ebfSmartEraser]) then	ActiveImageEnView().Deselect();
fCurrentBrushFill := iebfSolid;	end;
Active Image En View (). Brush Tool. Brush Fill := fCurrent Brush - Fill;	procedure TMainForm.miRedoClick(Sender: TObject);
end	begin
else	ActiveImageEnView().Proc.Redo(True);
if btnEraserTool.down then	MainForm.UpdateButtonStatus();
begin	end;
$ActiveImageEnView(). MouseInteractGeneral := [\ miBrushTool\];$	procedure TMainForm.BrushClick(Sender: TObject);
if (Sender = btnEraserTool) or not (fCurrentBrushFill in [ieb- Eraser, iebfSmartEraser]) then	begin
fCurrentBrushFill := iebfEraser;	$fCurrentBrushFill := TIEBrushFill (\ TMenuItem (\ Sender\). Tag\);$
Active Image En View (). Brush Tool. Brush Fill := f Current Brush - Fill;	if fCurrentBrushFill in [iebfEraser] then
end	btnEraserTool.Down := True
else	else
	btnBrushTool.Down := True;

Изм.	Лист	№докцм.	Подпись	Дата

```
MouseButtonClick( nil );
                                                                               function TMainForm.GetImageEnView(Index: Integer): TImageEn-
                                                                               View:
                                                                               begin
procedure TMainForm.btnZoom100Click(Sender: TObject);
                                                                                Result := nil;
begin
                                                                                if ( Index>=0 ) and % \frac{1}{2}\left( \frac{1}{2}\right) =0 ( Index<pgcEditor.PageCount ) and
 if Round( ActiveImageEnView().Zoom ) = 100 then
                                                                                  ( pgcEditor.Pages[Index].ControlCount > 0 ) then
  ActiveImageEnView().Fit()
                                                                                 Result := pgcEditor.Pages[Index].Controls[0] as TImageEn-View;
                                                                               end:
  ActiveImageEnView().Zoom := 100;
                                                                               procedure TMainForm.HelpClick(Sender: TObject);
end:
                                                                               begin
procedure TMainForm.btnZoomInClick(Sender: TObject);
                                                                               ShellExe-cute(0,PChar('Open'),Pchar('Help.chm'),nil,nil,SW\_SHOW);
begin
 Active Image En View (). Zoom In (); \\
                                                                               procedure TMainForm.FormCloseQuery(Sender: TObject; var Can-
end;
                                                                               Close: Boolean);
procedure TMainForm.btnZoomOutClick(Sender: TObject);
                                                                               var
begin
                                                                                I: Integer;
 ActiveImageEnView().ZoomOut();
                                                                               begin
                                                                                CanClose := True;
function TMainForm.ActiveImageEnView(): TImageEnView;
                                                                                for I := pgcEditor.PageCount - 1 downto 0 do
                                                                                 if not TCloseTabSheet( pgcEditor.Pages[i] ).Close then
 Result := GetImageEnView( pgcEditor.ActivePageIndex );
                                                                                 begin
 if\ Result = nil\ then
                                                                                  CanClose := False;
  raise Exception.create( 'Изображение отсутствует.' );
                                                                                  Break;
                                                                                 end;
end;
procedure TMainForm.BevelPaint(Sender: TObject);
                                                                               end;
const
                                                                               procedure TMainForm.FormShow(Sender: TObject);
 Bevel\_Color = \$00A0A0A0;
                                                                                {}
begin
                                                                                procedure CreateEditorTabFromFile(const Name: string; const
                                                                               FilePath: string);
 with TPaintBox(Sender).Canvas do
                                                                                var
 begin
                                                                                 iev: TImageEnView;
  Pen.Color := Bevel_Color;
                                                                                begin
  MoveTo( TPaintBox(Sender).Width div 2, 0);
                                                                                 iev := CreateEditorTab(Name, True);
  LineTo( TPaintBox(Sender).Width div 2, TPaint-
Box(Sender).Height );
                                                                                 iev.IO.LoadFromFile(FilePath);
 end;
                                                                                 iev.SetScale(350, 100, ieuMillimeters);
                                                                                 iev.Update();
end:
```

Изм.	Лист	№докцм.	Подпись	Дата

```
miSelectColor.Tag := -99;
  end;
                                                                                                                                                               sepSH
                                                                                                                                                                                    .Tag := -99;
   {}
begin
  LoadingForm.ShowModal;
                                                                                                                                                              if\ GetImageEnView(\ pgcEditor. ActivePageIndex\ ) = nil\ then
  CreateEditorTabFromFile('Bridge.jpg', 'Изображения\Bridge.jpg');
                                                                                                                                                                exit;
  Create Editor Tab From File ('Plants.jpg', 'Изображения \backslash Plants.jpg');\\
  CreateEditorTabFromFile('Bird.jpg', 'Изображения\Bird.jpg');
                                                                                                                                                               shp := -1;
  UpdateButtonStatus();
                                                                                                                                                              if ActiveImageEnView().MouseInteractLayers = [ mlCreate-Shape-
                                                                                                                                                            Layers ] then
end;
                                                                                                                                                                shp := ord( fCurrentShape );
procedure TMainForm.btnBrushColorChange(Sender: TObject);
begin
                                                                                                                                                              for i := 0 to miAddShapeMenu.Count - 1 do
   ActiveImageEnView(). BrushTool. BrushColor \\ := btnBrush-
Color.SelectedColor;
                                                                                                                                                                 miAddShapeMenu.Items[i].Checked := miAddShape-
                                                                                                                                                            Menu.Items[i].tag = shp;
  Active Image En View (). Fill Tool. Color Fill Value := btn Brush Col-or. Sentence of the property of the pr
lectedColor;
                                                                                                                                                              miShapeBorder.Checked := fCurrentBorderSize > 0;
end;
                                                                                                                                                            end;
procedure TMainForm.miAddShapeMenuClick(Sender: TObject);
                                                                                                                                                            procedure TMainForm.AddShapeClick(Sender: TObject);
                                                                                                                                                            begin
var
  shp, i: Integer;
                                                                                                                                                              fCurrentShape := TIEShape( TMenuItem(Sender).Tag );
                                                                                                                                                              btnShapeTool.Down := True;
begin
  miArrowDown .Tag := ord( iesArrowDown );
                                                                                                                                                              MouseButtonClick( nil );
  miArrowLeft .Tag := ord( iesArrowLeft );
  miArrowRight .Tag := ord( iesArrowRight );
                                                                                                                                                            procedure TMainForm.MenuClick(Sender: TObject);
  miArrowUp .Tag := ord( iesArrowUp );
                                                                                                                                                            var
   miCloud
                            .Tag := ord( iesCloud
                                                                                                                                                              z, i: Integer;
  miEllipse
                          .Tag := ord( iesEllipse );
                                                                                                                                                              iev: TImageEnView;
  miExplosion .Tag := ord( iesExplosion );
                                                                                                                                                            begin
  miHeart
                           .Tag := ord( iesHeart
                                                                                                                                                              if sender = miViewMenu then
                                                                            );
  miLightningLeft.Tag := ord( iesLightningLeft );
                                                                                                                                                              begin
  miRectangle .Tag := ord( iesRectangle );
                                                                                                                                                                z := 0;
  miSpeechBubble \ . Tag := ord(\ iesSpeechBubbleLeftOutShort\ );
                                                                                                                                                                iev := GetImageEnView(pgcEditor.ActivePageIndex);
   miStar5
                           .Tag := ord( iesStar5
                                                                                                                                                                if iev <> nil then
  miTriangle .Tag := ord( iesTriangle );
                                                                                                                                                                begin
                                                                                                                                                                   if Round(iev.Zoom) = Round(iev.GetIdealZoom) then
   miShapeBorder.Tag := -99;
                                                                                                                                                                     z := -99
```

Изм.	Лист	№докцм.	Подпись	Дата

```
miSolidBrush.Tag := ord( iebfSolid );
    else
    z := Round( iev.Zoom );
                                                                                 miEraser.Tag := ord( iebfEraser );
  end:
                                                                                 if\ GetImageEnView(\ pgcEditor. ActivePageIndex\ ) = nil\ then
  for i := 0 to miViewMenu.Count - 1 do
                                                                                  exit;
   if miViewMenu[i].tag <> 0 then
    miViewMenu.Items[i].Checked := miViewMenu.Items[i].tag = z;
                                                                                 bfMode := -1;
                                                                                 if ActiveImageEnView().MouseInteractGeneral = [ miBrushTool ]
 end;
                                                                                  bfMode := ord( ActiveImageEnView().BrushTool.BrushFill );
 UpdateButtonStatus();
end;
                                                                                 for I := 0 to miBrushTools.Count - 1 do
procedure\ TMainForm.miShapeBorderClick (Sender:\ TObject);
                                                                                  if \ miBrushTools[i] \Longleftrightarrow sepBR \ then
                                                                                   miBrushTools.Items[i].Checked := miBrushTools.Items[i].tag = \\
 if fCurrentBorderSize = 1 then
                                                                               bfMode;
  fCurrentBorderSize := 0
 else
                                                                                miFillTool.Checked := ActiveImageEn-View().MouseInteractGeneral
                                                                                = [ miColorFill ];
  fCurrentBorderSize := 1;
                                                                               end;
end:
                                                                               procedure TMainForm.miEDGrayScaleClick(Sender: TObject);
procedure TMainForm.miAddTextClick(Sender: TObject);
                                                                               begin
                                                                                ActiveImageEnView().Proc.EdgeDetect_Sobel();
 txt: string;
                                                                               end;
begin
 txt := 'Введите текст';
                                                                               procedure TMainForm.miFillToolClick(Sender: TObject);
 if InputQuery('Добавить текст', 'Текст:', txt ) then
                                                                               begin
  Active Image En View (). Proc. Text Out (\ Active Image En-\\
View().SelX1, ActiveImageEnView().SelY1, txt, FontDia-log1.Font );
                                                                                btnFillTool.Down := True;
                                                                                 MouseButtonClick(nil)
procedure TMainForm.SelectFont1Click(Sender: TObject);
                                                                               procedure\ TMainForm.miEditingToolsMenuClick (Sender:\ TObject);
begin
 FontDialog1.Execute();
end;
                                                                                iev: TImageEnView;
procedure TMainForm.miBrushToolsClick(Sender: TObject);
                                                                               begin
                                                                                 iev := GetImageEnView( pgcEditor.ActivePageIndex );
                                                                                 if iev = nil then
 bfMode, i: Integer;
begin
                                                                                  exit:
```

Изм.	Лист	№докцм.	Подпись	Дата

```
if sender = miClone then
 miRotateTl
                 .Checked := miRotateTool in iev.MouseInteractGen-
                                                                                btnCloneTool.Down := True
eral;
                                                                               else
 miCropTl
                 .Checked := ( miCropTool in iev.MouseInteractGen-
eral ) and ( iev.CropTool.Mode = iectmRECTANGLE );
                                                                               begin
                                                                                btnSmudgeTool.Down := True;
                                                                                fCurrentRetouchMode := TIERetouchMode (TMenuItem (Sender))
procedure TMainForm.miRetouchToolsClick(Sender: TObject);
                                                                              ).Tag );
                                                                               end:
 rtMode, i: Integer;
                                                                               MouseButtonClick( nil );
begin
                                                                              end;
 miSmudge
              .Tag := ord( iermSmudge
                                                                              procedure TMainForm.pgcEditorChange(Sender: TObject);
 miBlur
            .Tag := ord( iermBlur
             .Tag := ord( iermSharpen );
 miSharpen
                                                                               UpdateButtonStatus(True);
 miSmooth \\
              .Tag := ord( iermSmooth
 miPixelize .Tag := ord( iermPixelize );
                                                                              procedure\ TMainForm.miPixelize 2 Click (Sender:\ TObject);
 miWave
              .Tag := ord( iermWave
                                        );
                                                                               ActiveImageEnView().Proc.Pixelize();
 if GetImageEnView( pgcEditor.ActivePageIndex  ) = nil then
  exit:
                                                                              procedure TMainForm.miPixelsClick(Sender: TObject);
                                                                             begin
                                                                               IEGlobalSettings(). DefaultMeasureUnit := TIEUnits(\ TMenu-Item(
 miClone. Checked := ActiveImageEn-View(). MouseInteractGeneral = \\
                                                                              Sender) .Tag );
[ miCloneTool ];
                                                                              procedure TMainForm.miEditingToolClick(Sender: TObject);
 rtMode := -1;
                                                                              begin
 if\ ActiveImageEnView(). MouseInteractGeneral = [\ miRetouch-Tool\ ]
                                                                               if Sender = miRotateTl then
  rtMode := ord(\ ActiveImageEn-View(). RetouchTool. RetouchMode
                                                                               begin
);
                                                                                btnRotateTool.Down := True;
                                                                               end
 for I := 0 to miRetouchTools.Count - 1 do
                                                                               else
  if ( miRetouchTools.Items[i] <\!\!> miClone ) and ( miRetouch-Tools[i]
                                                                               if \ Sender = miCropTl \ then
\langle > sepRT \rangle then
                                                                               begin
   miRetouchTools.Items[i].Checked := miRetouch-Tools.Items[i].tag
= rtMode;
                                                                                btnCropTool.Down := True;
end:
                                                                                ActiveImageEnView().CropTool.Mode := iectmRECTANGLE;
procedure TMainForm.miRetouchClick(Sender: TObject);
                                                                               end
begin
```

Изм.	Лист	№докцм.	Подпись	Дата

else else MouseButtonClick(nil); if Sender = miSelZoom then end: btnSelectZoom.Down := Trueprocedure TMainForm.miSelectColorClick(Sender: TObject); else if Sender = miScrollView thenbegin btnBrushColor.PromptForColor(True);btnDefault.Down := True; MouseButtonClick(nil); procedure TMainForm.miSmooth2Click(Sender: TObject); procedure TMainForm.updBrushChanging(Sender: TObject; var AllowChange: Boolean); Active Image En View (). Proc. Symmetric Nearest Neighbour ();begin $ActiveImageEnView(). CloneTool \ . BrushSize := up-dBrush. Position; \\$ $procedure\ TMainForm.miSelectMenuClick (Sender:\ TObject);$ ActiveImageEnView(). RetouchTool. BrushSize := up-dBrush. Posibegin tion; if GetImageEnView(pgcEditor.ActivePageIndex) = nil then $ActiveImageEnView(). BrushTool \ . BrushSize := up-dBrush. Position; \\$ exit: end; procedure TMainForm.ZoomClick(Sender: TObject); miRectangularSelect.Checked := miSelect in ActiveImageEnvar View().MouseInteractGeneral; z: Integer; miCircularSelect .Checked := miSelectCircle in Ac-tiveImageEn-View().MouseInteractGeneral; begin .Checked := miSelectLasso in Ac-tiveImageEnz := TMenuItem(Sender). Tag; miLassoSelect View().MouseInteractGeneral; if z > 1 then miSelZoom $. Checked := miSelectZoom\ in\ Ac\text{-}tiveImageEn-$ ActiveImageEnView().Zoom := zView().MouseInteractGeneral; else miScrollView .Checked := miScroll in ActiveImageEn-View().MouseInteractGeneral; ActiveImageEnView().Fit(); end; procedure TMainForm.SelectClick(Sender: TObject); end. if Sender = miRectangularSelect then btnRectSelect.Down := True unit About; else if Sender = miCircularSelect then interface btnEllipticalSelect.Down := Trueelse if Sender = miLassoSelect then Winapi. Windows, Winapi. Messages, System. SysUtils, Sys-tem. VaribtnLassoSelect.Down := True ants, System. Classes, Vcl. Graphics,

Изм.	Лист	№докцм.	Подпись	Дата

КП 2-40 01 01.33.41.02.24 ПЗ

Лист

```
Vcl.Controls, Vcl.Forms, Vcl.Dialogs, Vcl.ExtCtrls, Vcl.StdCtrls,
                                                                            end.
 Vcl.Imaging.pngimage;
type
 TAboutForm = class(TForm)
  Panel1: TPanel;
  Author: TLabel;
  GGPK: TLabel;
  GGPKLink: TLabel;
  Logo: TImage;
  LogoText: TImage;
  procedure\ GGPKLinkClick (Sender:\ TObject);
 private
  { Private declarations }
 public
  { Public declarations }
 end;
var
 AboutForm: TAboutForm;
implementation
uses
 ShellAPI;
{$R *.dfm}
procedure\ TAboutForm.GGPKLinkClick(Sender:\ TObject);
 ShellExecute(Handle, 'open', PChar('http://ggpk.by/'), nil, nil,
SW_MAXIMIZE);
end;
```

Изм.	Лист	№докцм.	Подпись	Дата