

PowerPdf Reference

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Contents

Chapter1 Introduction

- 1.1 What Is PowerPdf
- 1.2 Requires
- 1.3 Installation

Chapter2 Component Reference

- 2.1 TPRReport
 - 2.1.1 TPRReport properties
 - 2.1.2 TPRReport methods
- 2.2.1 TPRPage properties
- 2.2.2 TPRPage events
- 2.2 TPRPage
- 2.3 TPRLayoutPanel
 - 2.3.1 TPRLayoutPanel properties
 - 2.3.2 TPRLayoutPanel events
- 2.4 TPRGridPanel
 - 2.4.1 TPRGridPanel properties
 - 2.4.2 TPRGridPanel events
- 2.5 TPRLabel
 - 2.5.1 TPRLabel properties
- 2.6 TPRText
 - 2.6.1 TPRText properties
- 2.7 TPRImage
 - 2.7.1 TPRImage properties
- 2.8 TPRJpegImage
 - 2.8.1 TPRJpegImage properties
- 2.9 TPRRect
 - 2.9.1 TPRRect properties
- 2.10 TPREllipse

- 2.10.1 TPREllipse properties
 - 2.11 TPRAnnotation
 - 2.11.1 TPRAnnotation properties
 - 2.12 TPROutlineEntry
 - 2.12.1 TPROutlineEntry properties
 - 2.12.2 TPROutlineEntry methods
 - 2.13 TPRDestination
 - 2.13.1 TPRDestination properties

CHAPTER 1

Introduction

1.1 What Is PowerPdf

PowerPdf is a VCL to create PDF document visually. Like QuickReport, you can design PDF document easily on Delphi IDE.

1.2 Requires

Delphi3.0 or later.

1.3 Installation

- 1.Extracts the files from powerpdf.zip.
- 2.Choose Component\Install Component, and install PowerPdf.pas.

NOTE

If you want to use FlateDecode/Zlib compression, copy zlib.pas and *.obj files (these are included in Delphi's CD-ROM) to your librally path.

CHAPTER 2

Component Reference

2.1 TReport

TReport encapsulates the mechanism for creating pdf document.

Unit

PReport

Description

Use TReport to create pdf document. Like TPrinter. To start print job, call the BeginDoc method. To print page, call the Print method. And call the EndDoc method to terminate print job. If you want to terminate print job unless saving document, call the Abort method.

2.1.1 TReport properties

property FileName: string;

Set FileName to specify the file name to save document.

property Author: string;

Set Author to specify the author of the document.

property CreationDate: TDateTime;

Set CreationDate to specify the date and time when the document was created.

property Creator string;

Set Creator to specify the creator of the document.

property Keywords string;

Set Keywords to specify keywords of the document.

property ModDate: TDateTime;

Set Keywords to specify the date and time when the document was last modified.

property Subject: string;

Set Subject to specify the subject of the document.

property Title: string;

Set Title to specify the title of the document.

property PageMode: TPdfPageMode;

PageMode property specifies how the document should be displayed when opened.

TPdfPageMode = (pmUseNone, pmUseOutlines, pmUseThumbs, pmFullScreen);

pmUseNone	Both of outline and thumbnail images invisible
pmUseOutlines	Document outline visible
pmUseThumbs	Thumbnail images visible
pmFullScreen	Full-screen mode, with no menu bar.

property PageLayout: TPdfPageLayout; **New!**

PageLayout specifies the layout for the page when the document is opened.

TPRPageLayout = (plSinglePage, plOneColumn, plTwoColumnLeft, plTwoColumnR

plSinglePage	Display the pages one page at a time.
plOneColumn	Display the pages in one column.
plTwoColumnLeft	Display the pages in two columns, with odd-numbered p
plTwoColumnRight	Display the pages in two columns, with odd-numbered p

property CompressionMethod: TPdfCompressionMethod;

Compression property specifies the filter to compress contents and images.

TPdfCompressionMethod = (cmNone, cmFlateDecode);

cmNone	No compression method is used
cmFlateDecode	Compresses data using the zlib/deflate compression method

Note: *If you want to use FlateDecode, you must do following operations.*

1. Add zlib unit and *.obj files(these are included in Delphi's CD-ROM) in your library path.
2. Commentout compile option "{\$DEFINE NOZLIB}" in PdfDoc.pas and PdfTypes.pas.
3. Rebuiled the package.

property PageNumber: integer;

PageNumber contains the current page number being printed.

property OpenAction: TPRDestination; **New!**

OpenAction determines the location of the display window and zoom level when the first page appears. If null, the top of the first page appears with default zoom level.

property OutlineRoot: TPROutlineRoot; **New!**

OutlineRoot returns the root of the outline-entries.

If UseOutline property set to false, OutlineRoot property returns null.

property UseOutlines: boolean; *New!*

UseOutline determines whether using outlines or not. This property can be set only before BeginDoc method called.

property ViewerPreference: TPdfViewerPreferences; *New!*

Specifies the style when the document is opened.

TPdfViewerPreference = (vpHideToolbar, vpHideMenubar, vpHideWindowUI, vpFitWindow, vpCenterWindow);

vpHideToolbar	Specifies that the toolbar should be hidden.
vpHideMenubar	Specifies that the menubar should be hidden.
vpHideWindowUI	Specifies that the interfaces of the document window should be hidden.
vpFitWindow	Specifies that the viewer should resize the document-window to the size of the first displayed page of the document.
vpCenterWindow	Specifies that the viewer-window positioned in the center of

2.1.2 TPRreport methods

procedure BeginDoc;

BeginDoc starts to create PDF document.

procedure Print(APage: TPRPage);

Print add the page that specified APage parameter to the PDF document.

procedure EndDoc;

EndDoc ends the current print job and outputs PDF document to the file.

procedure Abort;

Abort terminates the current print job, dropping all data.

2.2 TPRPage

TPRPage represents a page to print.

Unit

PReport

Description

Use TPRPage to create a page to print. To create a page, To print a page, call print method of TPRReport with TPRPage object.

Use Width and Height property to determine the physical size of the page.

2.2.1 TPRPage properties

property MarginTop: integer;

Set MarginTop to specify the top margin of the document.

property MarginLeft: integer;

Set MarginLeft to specify the left margin of the document.

property MarginRight: integer;

Set MarginLeft to specify the left margin of the document.

property MarginBottom: integer;

Set MarginBottom to specify the bottom margin of the document.

property Height: integer;

Set Height to specify the height of the page.

property Width: integer;

Set Width to specify the width of the page.

2.2.2 TPRPage events

property OnPrintPage: TPRPrintPageEvent;

OnPrintPage is called when a page is printed. You can use it to initialize any local variables.

2.3 TPRLayoutPanel

TPRLayoutPanel is main building block of a page.

Unit

PReport

Description

To make a page, put TPRPanel on the TPRPage component and put Item component (TPRItem, TPRImage and so on) on the TPRPanel.

2.3.1 TPRLayoutPanel properties

property Align: TAlign;

Align determines how the TPRLayoutPanel aligns within TPRPage (or TPRPanel).

2.3.2 TPRLayoutPanel events

property BeforePrint: TPRPrintPanelEvent;

BeforePrint is called before a page is about to be printed. Typical use of this event is to set any variables(TPRText, TPRImage).

TPRPrintPanelEvent = procedure(Sender: TObject; ACanvas: TPdfCanvas;
Rect: TRect) of object;

property AfterPrint: TPRPrintPanelEvent;

AfterPrint is called after a page was printed.

2.4 TPRGridPanel

TPRGridPanel is used to print a table.

Unit

PReport

Description

A typical use of TPRGrid is to print a table(like a database data). set RowCount and ColCount property to define row count and column count.

2.4.1 TPRGridPanel properties

property Align: TAlign;

Align determines how the TPRGridPanel aligns within TPRPage (or TPRPanel).

property ColCount: integer;

ColCount determines how many numbers of columns in this panel.

property RowCount: integer;

RowCount determines how many numbers of rows in this panel.

property PrintDirection: TPrintDirection;

PrintDirection determines the direction of printing grid.

2.4.2 TPRGridPanel events

property BeforePrint: TPRPrintPanelEvent;

BeforePrint is called before a page is about to be printed. Typical use of this event is to set any variables(TPRText, TPRImage).

TPRPrintPanelEvent = procedure(Sender: TObject; ACanvas: TPdfCanvas;
Rect: TRect) of object;

property AfterPrint: TPRPrintPanelEvent;

AfterPrint is called after a page was printed.

property BeforePrintChild: TPRPrintChildPanelEvent;

BeforePrintChild is called every before child panels are about to be printed. Typical use of this event is to set any variables(TPRText, TPRImage).

TPRPrintChildPanelEvent = procedure(Sender: TObject; ACanvas: TPdfCanvas;
ACol, ARow: integer; Rect: TRect) of object;

property AfterPrintChild: TPRPrintChildPanelEvent;

AfterPrint is called every after panels were printed.

2.5 TPRLabel

TPRLabel is used to print a single line text.

Unit

PReport

Description

Use TPRLabel to print single line text.

2.5.1 TPRLabel properties

property Align: TAlign;

Determines how the control aligns within its container (or parent control).

property AlignJustified: Boolean; **New!**

Determines whether adjustment the char width to fit the text to full-justified.

property Alignment: TAlignment;

Controls the horizontal placement of the text within the label.

The samples of the alignment

Alignment taLeftJustify

The quick brown fox ate the lazy mouse

Alignment taRightJustify

The quick brown fox ate the lazy mouse

Alignment taCenter

The quick brown fox ate the lazy mouse

AlignJustified

The quick brown fox ate the lazy mouse

property Printable: boolean;

Determines whether the control will be printed or not.

property FontColor: TColor;

Specifies the color of the text.

property FontName: TPRFontName;

Identifies the typeface of the font.

TPRFontName = (fnFixedWidth, fnArial, fnTimesRoman);

Arial

ABCDEFGHabcdefgh12345

TimesRoman

ABCDEFGHabcdefgh12345

FixedWidth

ABCDEFGHabcdefgh12345

property FontSize: Single;

Specifies the height of the font in points.

property FontBold: boolean;

Specifies whether the font is boldfaced or not.

2.6 TPRTText

TPRTText is used to print a text.

Unit

PReport

Description

Use TPRTText to print text.

2.6.1 TPRTText properties

property Align: TAlign;

Determines how the control aligns within its container (or parent control).

property Printable: boolean;

Determines whether the control will be printed or not.

property FontColor: TColor;

Specifies the color of the text.

property FontName: TPRTFontName;

Identifies the typeface of the font.

See TPRTLabel.FontName.

property FontSize: Single;

Specifies the height of the font in points.

property FontBold: boolean;

Specifies whether the font is boldfaced or not.

property Leading: Single;

Specifies the text leading.

property Lines: TStrings;

Contains the individual lines of text.

property WordSpace: Single;

Specifies the word spacing of the text.

property WordWrap: boolean;

Determines whether the text inserts soft carriage returns so text wraps at the right margin.

2.7 TPRImage

TPRImage is uses to print a image.

Unit

PReport

Description

Use of TPRImage to print a image. TPRImage only support 24bit bitmap image yet. If program is compiled to use Zlib compression, the image is automatically compressed with Flate-Decode.

2.7.1 TPRImage properties

property Align: TAlign;

Determines how the control aligns within its container (or parent control).

property Printable: boolean;

Determines whether the control will be printed or not.

property Picture: TPicture;

Specifies the image that appears on the control.

property Stretch: boolean;

Determines whether resizing the height and width of the image to fit to the client area or not.

property SharedImage: boolean;

Determines whether the image data will be shared in the document or not.

if this property is set true, the PDF file has only one image, This means disk capacity can be saved.

But if the image of each page is different, SharedImage property must be set false.

See DBImageExample(not shared image)

2.8 TPRJpegImage

TPRImage is uses to print a TjpegImage.

Unit

PRJpegImage

Description

Use of TPRJpegImage to print a image with JPEG encoding.

2.8.1 TPRJpegImage properties

property Align: TAlign;

Determines how the control aligns within its container (or parent control).

property Printable: boolean;

Determines whether the control will be printed or not.

property Picture: TPicture;

Specifies the image that appears on the control. Only TjpegImage is allowed.

property SharedImage: boolean;

Determines whether the image data will be shared in the document or not.

if this property is set true, the PDF file has only one image, This means disk capacity can be saved.

But if the image of each page is different, SharedImage property must be set false.

See DBImageExample(not shared image)

2.10 TPREllipse

TPRShape is used to draw ellipse on a report.

Unit

PReport

2.10.1 TPREllipse properties

property Align: TAlign;

Align determines how the control aligns within container (or parent control).

property FillColor: TColor;

FillColor determines fill style for the ellipse.

property LineColor: TColor;

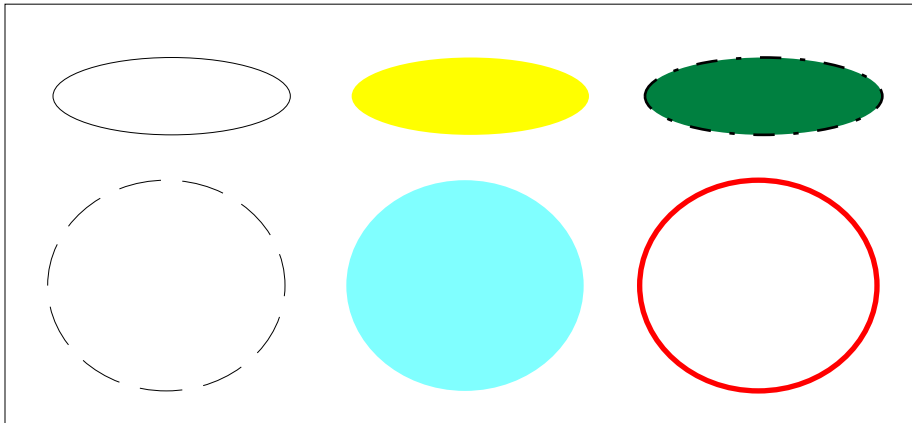
LineColor determines color of the lines for the ellipse.

property LineStyle: TPenStyle;

LineStyle determines the style in which the pen draws lines.

See TPRRect.LineStyle.

The samples of the TPREllipse



2.11 TPRAnnotation

TPRAnnotation is used to add annotations to a page

Unit

PRAnnotation

2.11.1 TPRAnnotation properties

property Caption: string;

Caption determines the title of annotation window.

property Lines: TStrings;

property Text: string;

Lines and Text determines the text to be displayed in a pop-up window.

property Opened: boolean;

Lines and Text determines the text to be displayed in a pop-up window.

TPRAnnotation with Open
property set to true.

TPRAnnotation with Open
property set to false.



2.12 TPROutlineEntry

TPRAnnotation is used to make outline tree of the document.

Unit

PReport

2.12.1 TPROutlineEntry properties

property Parent: TPROutlineEntry;

Indicates the parent entry of this entry.

property Next: TPROutlineEntry;

Indicates the next sibling entry of this entry.

property Prev: TPROutlineEntry;

Indicates the previous sibling entry of this entry.

If the entry has no previous entry, Prev property indicates null.

property First: TPROutlineEntry;

Indicates the first entry of the children.

If the entry has no child entry, First property indicates null.

property Last TPROutlineEntry;

Indicates the last entry of the children.

If the entry has no child entry, First property indicates null.

property Dest: TPRDestination;

Dest property is a TPRDestination object which links to the entry.

property Title string;

Use the Title property to modify the name of this entry.

property Opened boolean;

Use the Opened property to set whether the entry is opened or not when the document is displayed.

2.12.2 TPROutlineEntry methods

function AddChild: TPROutlineEntry;

AddChild function add a new outline-entry at the last sibling of the entry and return the new outline-entry.

2.13 TPRDestination

Use the TPRDestination class to set the location of the display window on that page, and the zoom level.

Unit

PReport

2.13.1 TPRDestination properties

property DestinationType: TPRDestinationType;

The DestinationType property determines the type of destination.

TPdfDestinationType = (dtXYZ, dtFit, dtFitH, dtFitV, dtFitR, dtFitB, dtFitBH, dtFitBV);

dtXYZ	Display the page with position and size indicated by Left,Top and Zoom properties.
dtFit	Fit the page to the window.
dtFitH	Fit the width of the page to the window. Only the Top property is used to determine the top position.
dtFitV	Fit the height of the page to the window. Only the Left property is used to determine the position of the left edge of the window.
dtFitR	Fit the rectangle specified by Left Top, Right,Bottom properties.
dtFitB	Fit the page's bounding box to the window.
dtFitBH	Fit the width of the page's bounding box to the window.
dtFitBV	Fit the height of the page's bounding box to the window.

property Left: Integer;

property Top: Integer;

property Right: Integer;

property Bottom: Integer;

property Zoom: Single;

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