

PowerPdf Reference

Veision 0.8(beta)

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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 PReport.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 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. Comment out compile option "{ \$DEFINE NOZLIB }" in *PdfDoc.pas* and *PdfTypes.pas*.
3. Rebuilt the package.

property PageNumber: integer;

PageNumber contains the current page number being printed.

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 TPRTText

TPRTText is used to print a test.

Unit

PReport

Description

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

2.5.1 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.

TPRTFontName = (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.

property Leading: Single;

Specifies the text leading.

property Lines: TStringList;

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.

2.6 TPRIImage

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.

2.6.1 TPRIImage 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 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)

2.7 TPRRect

TPRRect is used to draw rectangles and lines on a report.

Unit

PReport

2.7.1 TPRRect properties

property Align: TAlign;

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

property FillColor: TColor;

FillColor determines fill style for the Rectangle.

property LineColor: TColor;

LineColor determines color of the lines for the Rectangle.

property LineStyle: TPenStyle;

LineStyle determines the style in which the pen draws lines.

TPenStyle = (psSolid, psDash, psDot, psDashDot,
psDashDotDot, psClear, psInsideFrame);

psSolid	_____
psDash	— — — — —
psDashDot	- . - . - . - . -
psDashDotDot	- . . - . . - . . -
psDot	- -
psClear(Invisible)	

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