Conhecendo o FPDF-Pascal no Lazarus

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3 LAZARUS

STREAMING DAY

Quem somos...

AC Br

Um Projeto de **Código Aberto** (gratuito), de *Componentes e Programas* destinados ao desenvolvimento de aplicações do segmento de Automação Comercial.

Cenário

- Motores de Relatórios
  - FastReport
  - FortesReport
- Desktop > WEB > Multicamadas
- Backend / API

PDF

- Padrão aberto
- Referência - 1.7
- Arquivo "Texto"
- **Gerador**... não leitor

FPDF-Pascal

Componente? Classe? Linguagem?

Tradução do FPDF em PHP

- Comunidade Grande
- Exemplos
- Scripts

Compatibilidade

- Lazarus - FPC

- Delphi 7

- Versões Atuais 12.2

2002

2024

Instalação

- Github

- boss

```
boss install https://github.com/Projeto-ACBr-Oficial/FPDF-Pascal.git
```

- GetIt

TFPDF e TFPDFExt

- **TFPDF** implementa o core.

```
      TFPDF = class
339   public
340     constructor Create(AOrientation: TFPDFOrientation = poPortrait;
          APageUnit: TFPDFUnit = puMM; APageFormat: TFPDFPageFormat = pfA4)
        constructor Create(AOrientation: TFPDFOrientation; APageUnit: TFPDF
          APageSize: TFPDFPageSize); overload;
        destructor Destroy; override;
345
        procedure SetMargins(marginLeft: Double; marginTop: Double; marginR
        procedure SetLeftMargin(marginLeft: Double);
        procedure SetTopMargin(marginTop: Double);
        procedure SetRightMargin(marginRight: Double);
350     procedure SetAutoPageBreak(AAuto: Boolean; AMargin: Double = 0.0);
        procedure SetDisplayMode(AZoomMode: TFPDFZoomMode; ALayoutMode: TFP
        procedure SetCompression(ACompress: Boolean);
        procedure SetTitle(const ATitle: String);
        procedure SetAuthor(const AAuthor: String);
355     procedure SetSubject(const ASubject: String);
        procedure SetKeywords(const AKeywords: String);
        procedure SetCreator(const ACreator: String);
        procedure SetAliasNbPages(const AAlias: String = '{nb}');

360     procedure SetTimeZone(const ATimeZone: String = 'Z');
        procedure SetUTF8(mode: Boolean = True);

        procedure Error(const ATextMsg: String; E: Exception = nil);
        procedure Close;
365
        procedure AddPage; overload;
        procedure AddPage(vOrientation: TFPDFOrientation); overload;
        procedure AddPage(AOrientation: TFPDFOrientation; APageFormat: TFPD
        procedure AddPage(AOrientation: TFPDFOrientation; ASize: TFPDFPageS
370     procedure Header; virtual;
```

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TFPDF e TFPDFExt

- **TFPDF** implementa o core.

- **TFPDFExt** adiciona "Scripts" a classe básica

```
30    Based on:
      - The FPDF Scripts          http://www.fpdf.org/en/script/index.php
         TFPDFScriptCodeEAN       http://www.fpdf.org/en/script/script5.php   -
         TFPDFScriptCode39        http://www.fpdf.org/en/script/script46.php  -
         TFPDFScriptCodeI25       http://www.fpdf.org/en/script/script67.php  -
35       TFPDFScriptCode128       http://www.fpdf.org/en/script/script88.php  -
         TFPDFExt.Rotate          http://www.fpdf.org/en/script/script2.php   -
         TFPDFExt.RoundedRect     http://www.fpdf.org/en/script/script35.php  -
         TFPDFExt.AddLayer        http://www.fpdf.org/en/script/script97.php  -
         TFPDFExt.SetProtection http://www.fpdf.org/en/script/script37.php    -
40
      - Free JPDF Pascal from Jean Patrick e Gilson Nunes
         https://github.com/jepafi/Free-JPDF-Pascal
      }

45  unit fpdf_ext;

    // Define USE_SYNAPSE if you want to force use of Units from synapse
    //   Used from HTTPS downlaod em PDF Protection Script  (password)
    //    http://www.ararat.cz/synapse
50  //{$DEFINE USE SYNAPSE}

    // If you don't want the AnsiString vs String warnings to bother you
    //{$DEFINE REMOVE CAST WARN}

55  // If you have DelphiZXingQRCode Unit on you LibPath
    // https://github.com/foxitsoftware/DelphiZXingQRCode
    {$DEFINE DelphiZXingQRCode}

    {$IfDef USE_SYNAPSE}
60    {$DEFINE HAS_PROTECTION}
    {$EndIf}
```
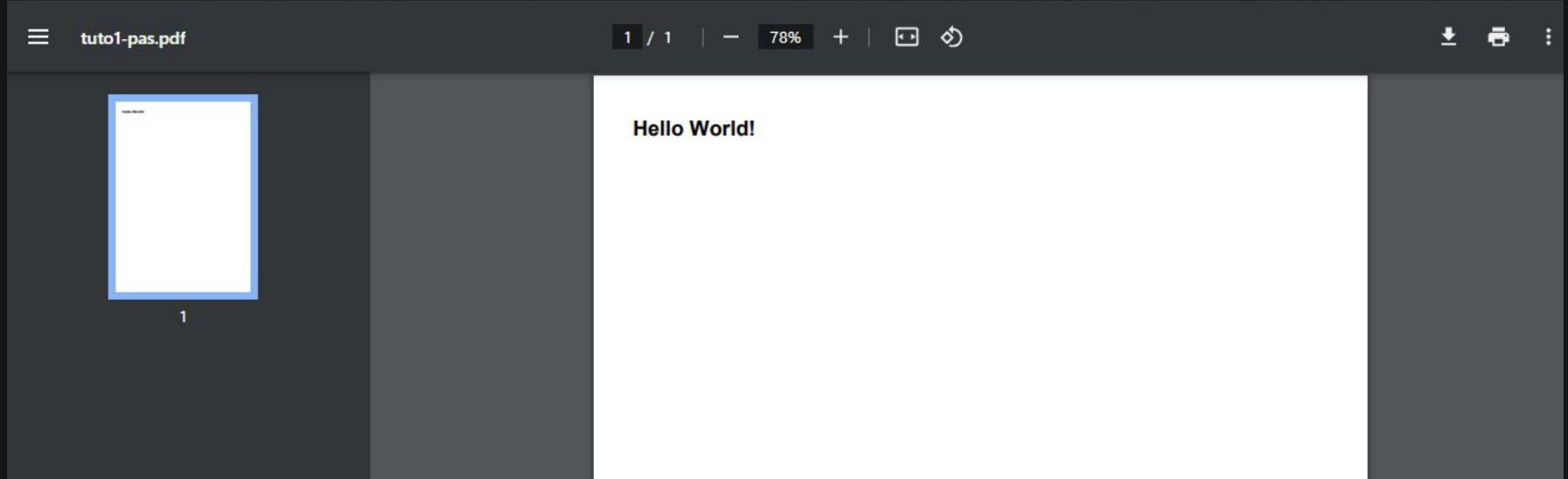
3

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Hello World!!!

```
1   program tuto1;
.
.   {$mode objfpc}{$H+}
.
5   uses
.     {$IFDEF UNIX}
.     cthreads,
.     {$ENDIF}
.     Classes, SysUtils,
10    fpdf;
.
.   var
.     pdf: TFPDF;
.   begin
15    pdf := TFPDF.Create();
.     try
.       pdf.SetCompression(False);
.       pdf.AddPage();
.       pdf.SetFont('Arial','B',16);
20      pdf.Cell(40,10,'Hello World!');
.       pdf.SaveToFile(ExtractFilePath(ParamStr(0))+PathDelim+'tuto1-pas.pdf')
.     finally
.       pdf.Free;
.     end;
25  end.
```

Hello World!!!

Hello World!!!

```
1   %PDF-1.3
2   3 0 obj
3   <</Type /Page
4   /Parent 1 0 R
5   /Resources 2 0 R
6   /Contents 4 0 R>>
7   endobj
8   4 0 obj
9   <</Length 70>>
10  stream
11  2 J
12  0.57 w
13  BT /F1 16.00 Tf ET
14  BT 31.19 794.57 Td (Hello World!) Tj ET
15
16  endstream
17  endobj
18  1 0 obj
19  <</Type /Pages
20  /Kids [3 0 R ]
21  /Count 1
22  /MediaBox [0 0 595.28 841.89]
23  >>
24  endobj
25  5 0 obj
26  <</Length 675>>
27  stream
28  /CIDInit /ProcSet findresource begin
29  12 dict begin
30  begincmap
31  /CIDSystemInfo
32  <</Registry (Adobe)
33  /Ordering (UCS)
34  /Supplement 0
35  >> def
36  /CMapName /Adobe-Identity-UCS def
```
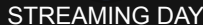
ormal text file

length

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Cabeçalho e rodapé

Criação da classe

```pascal
program tuto2;

{$mode objfpc}{$H+}

uses
  {$IFDEF UNIX}
  cthreads,
  {$ENDIF}
  Classes, SysUtils,
  fpdf;

type

  { TMyFPDF }

  TMyFPDF = class(TFPDF)
  protected
    fpdir: String;
    fpfiledir: String;

    procedure InternalCreate; override;
  public
    procedure Header; override;
    procedure Footer; override;
  end;

var
  pdf: TMyFPDF;
  i: Integer;
```

Cabeçalho e rodapé

Funções de execução

```
30  { MyFPDF }
.
.   procedure TMyFPDF.InternalCreate;
.   begin
.     inherited InternalCreate;
35    fpdir := ExtractFilePath(ParamStr(0)) + PathDelim;
.     fpfiledir := fpdir +  '..' + PathDelim + 'files' + PathDelim;
.   end;
.
.   procedure TMyFPDF.Header;
40  begin
.     // Logo
.     Image(fpfiledir+'logo.png',10,6,30);
.     // Arial bold 15
.     SetFont('Arial','B',15);
45    // Move to the right
.     Cell(80);
.     // Title
.     Cell(30,10,'Title','1',0,'C');
.     // Line break
50    Ln(20);
.   end;
.
.   procedure TMyFPDF.Footer;
.   begin
55    // Position at 1.5 cm from bottom
.     SetY(-15);
.     // Arial italic 8
.     SetFont('Arial','I',8);
.     // Page number
60    Cell(0,10,'Page '+IntToStr(PageNo())+'/{nb}', '0', 0, 'C');
.   end;
```

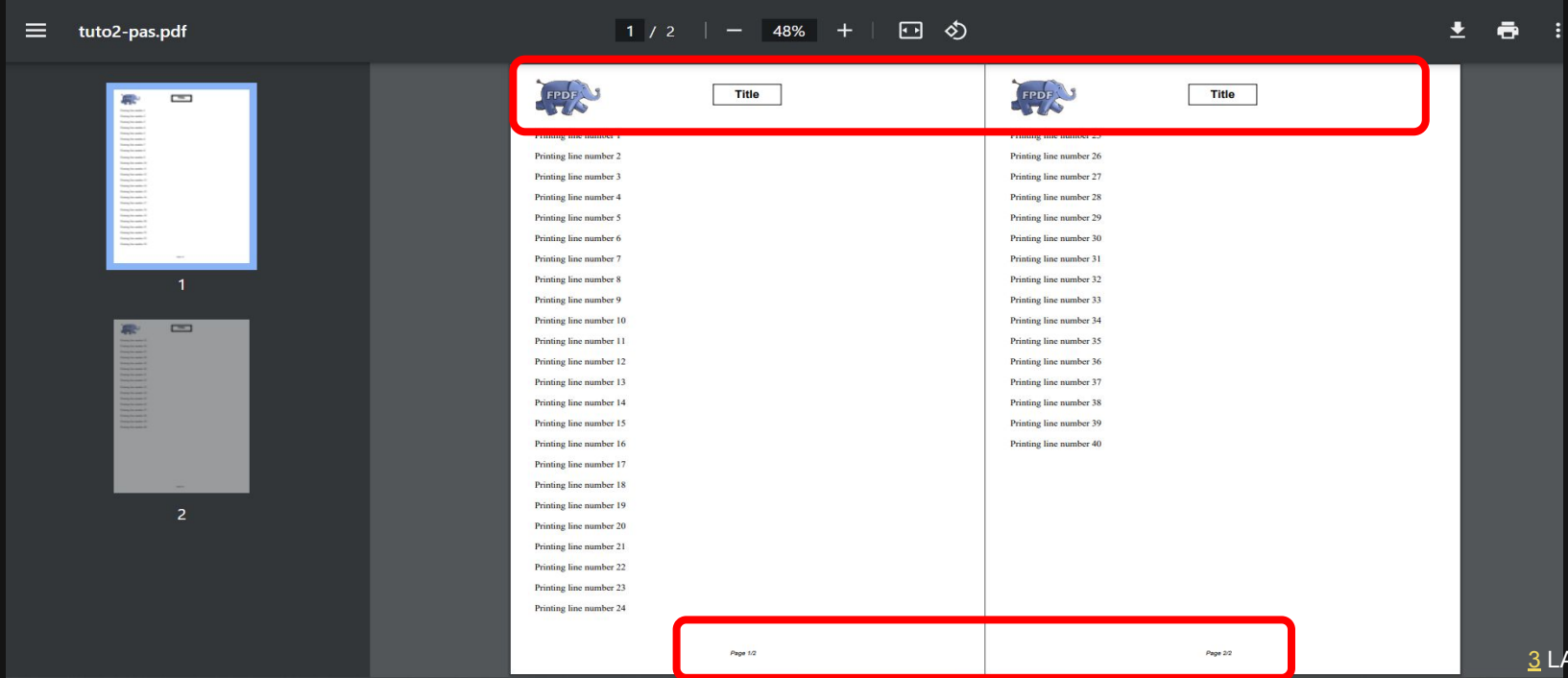# Cabeçalho e rodapé

Rotina Principal

```pascal
begin
  // Instanciation of inherited class
  pdf := TMyFPDF.Create();
  try
    pdf.SetAliasNbPages();
    pdf.AddPage();
    pdf.SetFont('Times','',12);

    for i := 1 to 40 do
      pdf.Cell(0,10,'Printing line number '+IntToStr(i), '0', 1);

    pdf.SaveToFile(pdf.fpdir+'tuto2-pas.pdf');
  finally
    pdf.Free;
  end;
end.
```

Cabeçalho
e rodapé

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Cabeçalho e rodapé

```pascal
procedure TFPDF.AddPage(AOrientation: TFPDFO
var
  vdc, vfc, vtc, vfamily, vstyle: String;
  vFontSize, vlw: Double;
  vcf, vunder: Boolean;
begin
  // Start a new page
  if (Self.state=3) then
    Error('The document is closed');
//[...]

  //Page header
  Self.InHeader := True;
  try
    Header;
  finally
    Self.InHeader := False;
  end;
```

```pascal
procedure TFPDF.Close;
begin
  // Terminate document
  if (Self.state = 3) then
    Exit;

  if (Self.page = 0) then
    AddPage(Self.DefOrientation,

  // Page footer
  Self.InFooter := True;
  try
    Footer();
  finally
    Self.InFooter := False;
  end;
  // Close page
  _endpage;
  // Close document
  _enddoc;
end;
```

Cabeçalho e rodapé

```
TFPDF = class
public
  procedure Header; virtual;
  procedure Footer; virtual;
  function PageNo: Integer;
```

```
965  procedure TFPDF.Header;
     begin
967    // Implementing an inheritance, if necessary
     end;

970  procedure TFPDF.Footer;
     begin
       // Implementing an inheritance, if necessary
     end;
```

"USE A FORÇA, LEIA OS FONTES"

DemoFPDFPascal

FPDF Pascal - Index, Links Test

1 - Fonts Test
2 - Images Test
3 - Color Test
4 - Shapes Test
5 - BarCodes Test
6 - Large Text Test
7 - Layers Test

FPDF Pascal on GitHub

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2 - Images Test

DemoFPDFPascal

FPDF Pascal - Colors Test

FPDF Pascal - Shapes Test
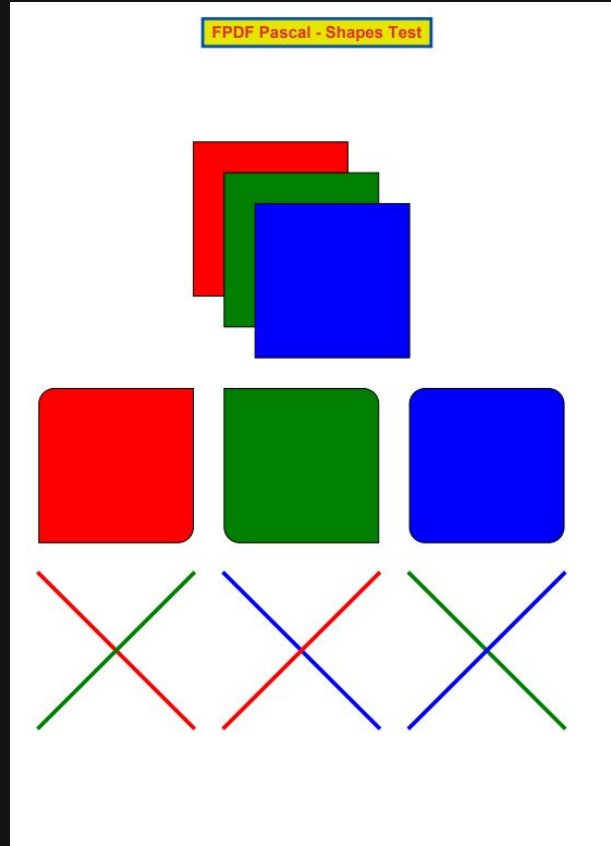
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DemoFPDFPascal

FPDF Pascal - Large justified text

The year 1866 was marked by a bizarre development, an unexplained and downright inexplicable phenomenon that surely no one has forgotten. Without getting into those rumors that upset civilians in the seaports and deranged the public mind even far inland, it must be said that professional seamen were especially alarmed. Traders, shipowners, captains of vessels, skippers, and master mariners from Europe and America, naval officers from every country, and at their heels the various national governments on these two continents, were all extremely disturbed by the business.

In essence, over a period of time several ships had encountered "an enormous thing" at sea, a long spindle-shaped object, sometimes giving off a phosphorescent glow, infinitely bigger and faster than any whale.

The relevant data on this apparition, as recorded in various logbooks, agreed pretty closely as to the structure of the object or creature in question, its unprecedented speed of movement, its startling locomotive power, and the unique vitality with which it seemed to be gifted. If it was a cetacean, it exceeded in bulk any whale previously classified by science. No naturalist, neither Cuvier nor Lacépède, neither Professor Dumeril nor Professor de Quatrefages, would have accepted the existence of such a monster sight unseen -- specifically, unseen by their own scientific eyes.

Striking an average of observations taken at different times -- rejecting those timid estimates that gave the object a length of 200 feet, and ignoring those exaggerated views that saw it as a mile wide and three long--you could still assert that this phenomenal creature greatly exceeded the dimensions of anything then known to ichthyologists, if it existed at all.

Now then, it did exist, this was an undeniable fact; and since the human mind dotes on objects of wonder, you can understand the worldwide excitement caused by this unearthly apparition. As for relegating it to the realm of fiction, that charge had to be dropped.
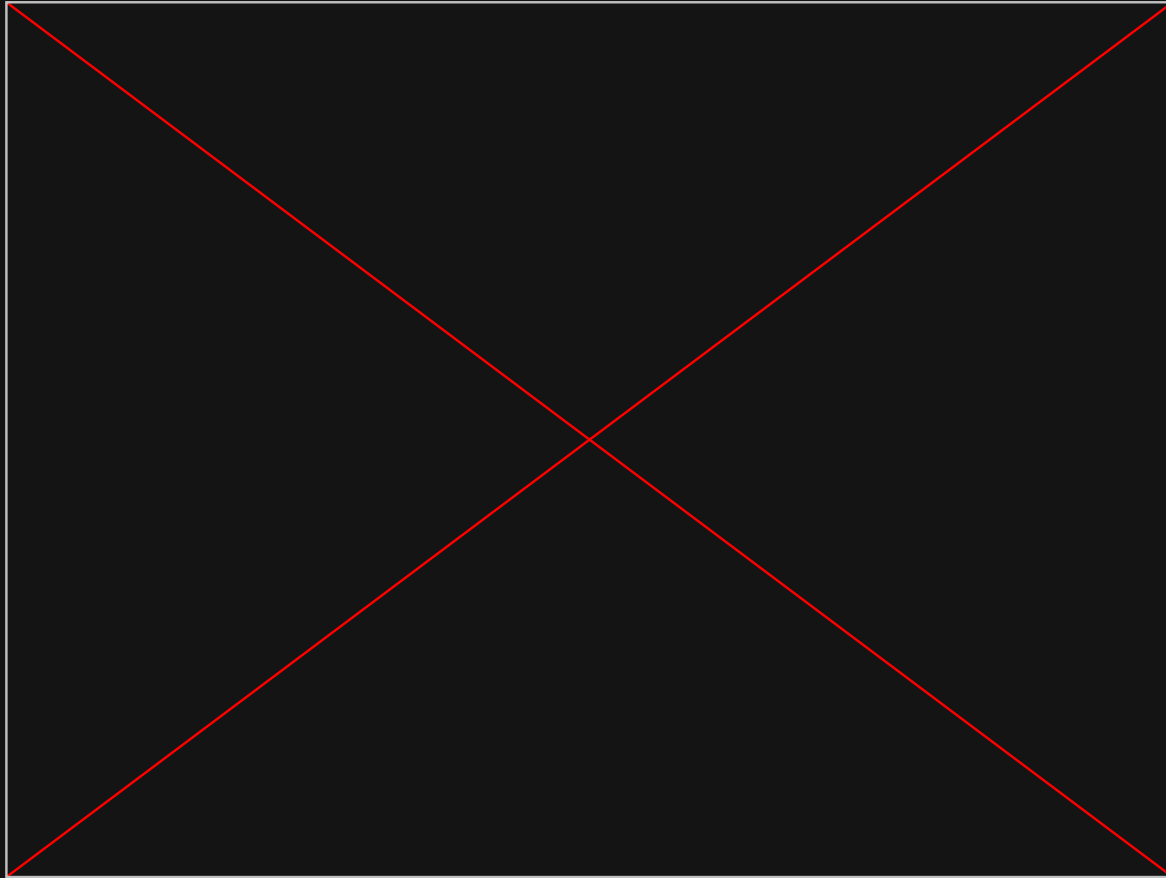
In essence, on July 20, 1866, the steamer Governor Higginson, from the Calcutta & Burnach Steam Navigation Co., encountered this moving mass five miles off the eastern shores of Australia. Captain Baker at first thought he was in the presence of an unknown reef; he was even about to fix its exact position when two waterspouts shot out of this inexplicable object and sprang hissing into the air some 150 feet. So, unless this reef was subject to the intermittent eruptions of a geyser, the Governor Higginson had fair and honest dealings with some aquatic mammal, until then unknown, that could spurt from its blowholes waterspouts mixed with air and steam.

Similar events were likewise observed in Pacific seas, on July 23 of the same year, by the Christopher Columbus from the West India & Pacific Steam Navigation Co. Consequently, this extraordinary cetacean could transfer itself from one locality to another with startling swiftness, since within an interval of just three days, the

DemoFPDFPascal

Boletos

Boletos

```
.    unit uDemoBoleto;
.
.    {$MODE Delphi}
.
35   interface
.
.    //descomentar o motor de relatório que desejar utilizar! removendo o ponto
.    {.$DEFINE GERADOR_FORTES_REPORT}
.    {.$DEFINE GERADOR_FAST_REPORT}
40
.    uses
.       LCLIntf, LCLType, LMessages, Messages, SysUtils, Variants, Classes, Graphics
.       Dialogs, StdCtrls, ExtCtrls, Masks, IniFiles,
.       ACBrBase, ACBrBoleto, ACBrUtil, ACBrMail, ACBrUtil.FilesIO,
45       ACBrBoletoConversao, ACBrBoletoRetorno, ComCtrls, MaskEdit
.       {$IFDEF GERADOR_FORTES_REPORT},ACBrBoletoFCFortesFr{$ENDIF}
.       {$IFDEF GERADOR_FAST_REPORT},ACBrBoletoFCFR{$ENDIF}
.       ,ACBrBoletoFPDF;
.    type
50
```

Boletos

TACBrBolLayOut = (
  IPadrao,
  ICarne,
  IFatura,
  IPadraoEntrega,
  IReciboTopo,
  IPadraoEntrega2,
  ITermica80mm,
  IPadraoPIX,
  ICarneA5);

```
     procedure TACBrBoletoFPDF.ModeloBoletoPadrao(const AInicializarArquivo : Boolean);
     begin
1004   if AInicializarArquivo then
1005     InicializarArquivo(poPortrait, puMM, pfA4)
       else
       begin
         FPDF.AddPage();
         ModeloEstruturaReciboPagador(10,0);
1010     ModeloEstruturaLinhaPontinhada(50,50);
         ModeloEstruturaFichaPagamento(0,2);
       end;
     end;


1015 procedure TACBrBoletoFPDF.ModeloBoletoPIX(const AInicializarArquivo : Boolean);
     begin
       if AInicializarArquivo then
         InicializarArquivo(poPortrait, puMM, pfA4)
       else
1020   begin
         FPDF.AddPage();
         ModeloEstruturaReciboPagadorPIX(5,10);
         ModeloEstruturaReciboPagador(0,0);
         ModeloEstruturaLinhaPontinhada(28.5,28);
1025     ModeloEstruturaFichaPagamento(0,0);
       end;
     end;
```

Boletos

```
procedure TACBrBoletoFPDF.ModeloEstruturaLinhaPontinhada(const AEspacoAntes: Double;
    AEspacoDepois: Double);
begin
    if AEspacoAntes > 0 then
        FPDF.Ln(AEspacoAntes);

    FPDF.SetFont('arial', 'B', 6);
    FPDF.Cell(190, 2, CORTE_NA_LINHA, '', 1, 'R');
    FPDF.SetFont('arial', '', 12);
    FPDF.Cell(190, 2, '-------------------------------------------------------------------

    if AEspacoDepois > 0 then
        FPDF.Ln(AEspacoDepois);
end;
```

Boletos Recibo Pagador

```
procedure TACBrBoletoFPDF.ModeloEstruturaReciboPagador(const AEspacoAntes: Double;
  AEspacoDepois: Double);
var LArquivoLogo : String;
begin
  LArquivoLogo := ChangeFileExt(ArquivoLogo,'.png');

  if AEspacoAntes > 0 then
    FPDF.Ln(AEspacoAntes);

  if FileExists(LArquivoLogo) then
    FPDF.Image(LArquivoLogo, FPDF.GetX, FPDF.GetY, 40, 10);

  FPDF.SetFont('arial', 'B', 6);
  FPDF.Cell(190, 2, RECIBO_PAGADOR, '', 1, 'R');
  FPDF.SetFont('arial', '', 9);
  FPDF.Cell(50, 10, '', 'B', 0, 'L');

  FPDF.SetFont('arial', 'B', 14);
  FPDF.Cell(20, 10, FBanco, 'LBR', 0, 'C');
  FPDF.SetFont('arial', 'B', 10);
  FPDF.Cell(120, 10, FLinhaDigitavel, 'B', 1, 'R');
  FPDF.SetFont('arial', '', 6);
  FPDF.Cell(190, 3, NOME_BENEFICIARIO, 'LR', 1, 'L');
  FPDF.SetFont('arial', 'B', 6);
  FPDF.Cell(190, 3, Copy(FACBrTitulo.ACBrBoleto.Cedente.Nome, 1, 86), 'LR', 1, 'L');
  FPDF.Cell(190, 3, Copy(FACBrTitulo.ACBrBoleto.Cedente.CNPJCPF, 1, 86), 'LR', 1, 'L');
  FPDF.Cell(190, 3, Copy(FACBrTitulo.ACBrBoleto.Cedente.Logradouro, 1, 86), 'LR', 1, 'L'
  FPDF.Cell(190, 3, Copy(FACBrTitulo.ACBrBoleto.Cedente.Cidade
                         + ' '
                         + FACBrTitulo.ACBrBoleto.Cedente.UF
                         + ' '
                         + FACBrTitulo.ACBrBoleto.Cedente.CEP, 1, 86), 'LRB', 1, 'L');
  FPDF.SetFont('arial', '', 6);
  FPDF.Cell(38, 3, NOSSO_NUMERO, 'LR', 0, 'L');
  FPDF.Cell(38, 3, NR_DOCUMENTO, 'R', 0, 'L');
  FPDF.Cell(38, 3, DATA_VENCIMENTO, 'R', 0, 'L');
  FPDF.Cell(38, 3, VALOR_DOCUMENTO, 'L', 0, 'L');
  FPDF.Cell(38, 3, VALOR_PAGO, 'LR', 1, 'L');
```

Boletos Recibo Pagador PIX

```
procedure TACBrBoletoFPDF.ModeloEstruturaReciboPagadorPIX(
  const AEspacoAntes: Double; AEspacoDepois: Double);
var LArquivoLogo : String;
begin
  LArquivoLogo := IfThen( LowerCase(ExtractFileExt(FACBrTitulo.ArquivoLogoEmp)) = 'jpg'
    FACBrTitulo.ArquivoLogoEmp,
    ChangeFileExt(FACBrTitulo.ArquivoLogoEmp,'.png')
  );

  if AEspacoAntes > 0 then
    FPDF.Ln(AEspacoAntes);

  if FileExists(LArquivoLogo) then
    FPDF.Image(LArquivoLogo, FPDF.GetX, FPDF.GetY-2, 50, 10);
  FPDF.Cell(50, 5, '', '', 0, 'L');
  FPDF.SetFont('arial', 'B', 7);
  FPDF.Cell(140, 5, Copy(FACBrTitulo.ACBrBoleto.Cedente.Nome, 1, 86)
                      + ' - '
                      + CNPJ
                      + ' '
                      +Copy(FACBrTitulo.ACBrBoleto.Cedente.CNPJCPF, 1, 86), 'LR', 1, 'L')
  FPDF.SetFont('arial', '', 7);
  FPDF.Cell(50, 5, '', 'B', 0, 'L');
  FPDF.Cell(140, 5, Copy(FACBrTitulo.ACBrBoleto.Cedente.Cidade
                      + ' '
                      + FACBrTitulo.ACBrBoleto.Cedente.UF
                      + ' '
                      + FACBrTitulo.ACBrBoleto.Cedente.CEP, 1, 86), 'LRB', 1, 'L');
  FPDF.SetFont('arial', 'B', 7);
  FPDF.Cell(190, 5, PAGUE_COM_PIX,'',1,'L');
  FPDF.QRCode(FPDF.GetX + 20, FPDF.GetY,FACBrTitulo.QrCode.emv);
  FPDF.SetX(FPDF.GetX + 50);
  FPDF.SetFont('arial', 'B', 12);
  FPDF.Cell(60, 10, VALOR_DOCUMENTO_LITERAL,'LRT',1,'C');
  FPDF.SetX(FPDF.GetX + 50);
  FPDF.Cell(60, 10, FACBrTitulo.EspecieMod + ' ' + FormatFloatBr(FACBrTitulo.ValorDocume
  FPDF.SetFont('arial', 'B', 7);
  FPDF.Ln(7);
  FPDF.Cell(190, 5, PAGUE_COM_COPIA_COLA,'',1,'L');
```

Boletos

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(+) Juros/Multa
(=) Valor Pago

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Rua das Empresas
Tatuí SP 18270-000

Nosso Número	Nr do Documento	Data Vencimento	(=) Valor Documento	(=) Valor Pago
0003128557000012345	0000000001	03/11/2023	100,00	

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Rua dos clientes
Centro Tatuí SP 18270000
Beneficiário Final:

Agência / Código do Beneficiário
0452/123873

Autenticação Mecanica

--- Corte na linha pontilhada
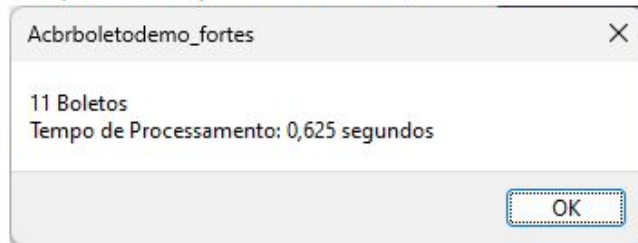
BANCO DO BRASIL | 001-9 | 00190.00009 03128.557000 00012.345005 5 95230000010000

Local de Pagamento
Pagar preferencialmente nas agencias do Banco do Brasil

Data Vencimento: 03/11/2023

Nome do Beneficiário/CNPJ/CPF/Endereço
EMPRESA DE TESTES 99.999.999/9999-62 Rua das Empresas Tatuí SP

Agência / Código do Beneficiário: 0452/123873

Data do Documento	Nr do Documento	Espécie DOC	Aceite	Data Processamento	Nosso Número
03/10/2023	0000000001	DM	Não	03/10/2023	0003128557000012345

Uso do Banco	Carteira	Espécie	Quantidade	x Valor	(=) Valor Documento
	00/35	$			100,00

Informações de responsabilidades do beneficiário:
Cobrar juros de 5% ao mês de atraso para pagamento a partir de 04/11/2023.Cobrar multa de R$5,00 para pagamento após o vencimento.

(-) Desconto/Abatimento
(+) Juros/Multa
(=) Valor Pago

Nome do Pagador/CPF/CNPJ/Endereço/Cidade/UF/CEP
CLIENTE DE TESTES 67638780876
Rua dos clientes 100
Centro Tatuí SP 18270000
Beneficiário Final:

Autenticação Mecanica - Ficha de Compensação
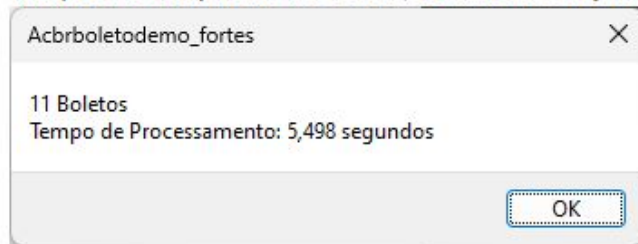
3

STREAMING DAY

Boletos

- O tamanho do Boleto em PDF gerado pela FPDF, fica bem menor, em relação ao Boleto em PDF gerado pelo Fortes Report
  - Boleto FPDF Compactado - 5K
  - Boleto FPDF Sem comactação - 14k
  - Boleto PDF em Fortes Report - 29K

- Tempo de Geração de 11 Boletos, com **FPDF**

Acbrboletodemo_fortes	×
11 Boletos Tempo de Processamento: 0,625 segundos	
	OK

- Tempo de Geração de 11 Boletos, com **Fortes Report**

Acbrboletodemo_fortes	×
11 Boletos Tempo de Processamento: 5,498 segundos	
	OK

Forum ACBR

TAMANHO E VELOCIDADE !!!

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