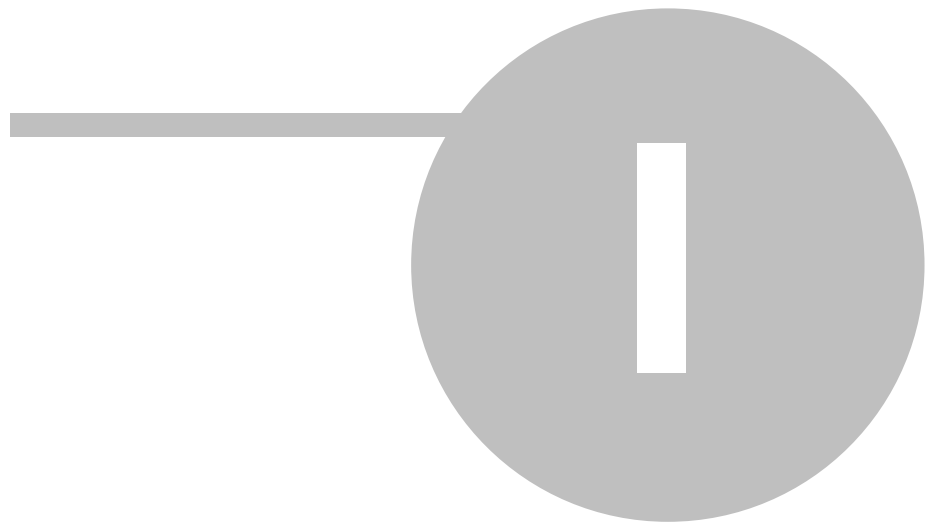


FastReport 4.0

I	TfrxReport	2
1	2
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6	/	/	34
7	/		35



TfrxReport

1.1

DFM.

```

    BLOB (
    TfrxReport /
);

function LoadFromFile(const FileName: String; ExceptionIfNotFound:
Boolean = False): Boolean;
    True
    True.

```

```

procedure LoadFromStream(Stream: TStream);

```

```

procedure SaveToFile(const FileName: String);

```

```

procedure SaveToStream(Stream: TStream);

```

FR3.

```

frxReport1.LoadFromFile('c:\1.fr3');
frxReport1.SaveToFile('c:\2.fr3');

```

1.2

```

    TfrxDesigner (
    frxDesgn uses).
    TfrxReport.DesignReport.
:
frxReport1.DesignReport;

```

DesignReport

:

```
procedure DesignReport(Modal: Boolean = True; MDIChild: Boolean =
False);
```

```
    ; - ( MDI
    ).
```

1.3

TfrxReport:

```
procedure ShowReport(ClearLastReport: Boolean = True);
```

```
    . ClearLastReport False, ( ).
```

```
function PrepareReport(ClearLastReport: Boolean = True): Boolean;
```

```
    , ShowReport.
    True.
```

```
ClearLastReport
```

```
(
).
```

```
:
```

```
frxReport1.ShowReport;
```

1.4

```
: TfrxReport.ShowReport ( . "
TfrxReport.ShowPreparedReport.
```

```
PrepareReport,
```

```

        ").
    :
    if frxReport1.PrepareReport then
        frxReport1.ShowPreparedReport;
    ,
    .
    PrepareReport/ShowPreparedReport
    ShowReport.

TfrxReport.PreviewOptions.

```

1.5

```

    " "
TfrxReport.Print, :
frxReport1.Print;
    ,
    ,
    TfrxReport.PrintOptions.

```

1.6

```

TfrxReport.PreviewPages:

function LoadFromFile(const FileName: String; ExceptionIfNotFound:
Boolean = False): Boolean;
procedure SaveToFile(const FileName: String);
procedure LoadFromStream(Stream: TStream);
procedure SaveToStream(Stream: TStream);

```

FP3. TfrxReport.

:

```
frxReport1.PreviewPages.LoadFromFile('c:\1.fp3');
frxReport1.ShowPreparedReport;
```

```
ShowPreparedReport!
```

1.7

```
TfrxReport.Export.
```

```
frxReport1.Export(frxHTMLExport1);
```

1.8

```
FastReport
```

```
TfrxPreview
```

```
FastReport.
```

```
TfrxReport.Preview.
```

```
TfrxPreview
```

```
( , PgUp, PgDown )
```

```
frxPreview1.SetFocus;
```

```
OnShow
```

```
OnMouseWheel
```

```
TfrxPreview.MouseWheelScroll:
```

```
procedure TForm1.FormMouseWheel(Sender: TObject; Shift: TShiftState;
  WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
begin
  frxPreview1.MouseWheelScroll(WheelDelta);
end;
```

1.9

()

```

        ,
        . FastReport ,
        . TfrxReport.PrepareReport
        ClearLastReport: Boolean,
        True. ,
        :
        :
        frxReport1.LoadFromFile('1.fr3');
        frxReport1.PrepareReport;
        frxReport1.LoadFromFile('2.fr3');
        frxReport1.PrepareReport(False);
        frxReport1.ShowPreparedReport;

        ,
        TfrxReport
        ClearLastReport = False.

```

1.9.1

```

        Page, Page#, TotalPages,
        TotalPages# /
        :
        Page -
        Page# -
        TotalPages - ( )
        TotalPages# -

```

1.9.2

```

        ,
        " (PrintOnPreviousPage) " " " , . .
        .
        "
        "

```

1.10

TfrxReport.OnClickObject.

```

procedure TForm1.frxReport1ClickObject(Page: TfrxPage; View: TfrxView;
  Button: TMouseButton; Shift: TShiftState; var Modified: Boolean);
begin
  if View.Name = 'Memo1' then
    ShowMessage('Memo1 contents:' + #13#10 + TfrxMemoView(View).Text);
  if View.Name = 'Memo2' then
    begin
      TfrxMemoView(View).Text := InputBox('Edit', 'Edit Memo2 text:', TfrxMemoView(Vi
      Modified := True;
    end;
end;

```

```

      OnClickObject
-
-
      Modified,
-
      TfrxReport.PrepareReport
      Memo1
      Memo2
      Modified True
FastReport 3
      TfrxReport
      (
      TfrxReport,
      Cursor
crDefault.

```

```

        Memo1 := '12';
        ?
        . FastReport
        (
        TagStr.
        FRDemo.exe -
        Customer.db
        DBDEMOS.
        CustNo,
        TagStr
        [Customers."CustNo"]
        Master Data,
        TagStr
        TagStr
        Master Data,
        '1005',
        '2112'
        TagStr
        [Table1."Field1"];[Table1."Field2"]
        TagStr
        '1000;1',

```

1.11

```

        FastReport (
        TfrxReport.FindObject:
        var
        Memo1: TfrxMemoView;

```

```
Memol := frxReport1.FindObject('Memol') as TfrxMemoView;
```

```
TfrxReport.Pages:
```

```
var
```

```
Page1: TfrxReportPage;
```

```
Page1 := frxReport1.Pages[1] as TfrxReportPage;
```

```
[1].      0      -      "      ".
```

1.12

```

      ,
      )
      ,
      (
      ,
      .
      :
-
-
-      "      "
-
-
-
-
      "      "
      ,
      frxReport1: TfrxReport frxDBDataSet1: TfrxDBDataSet
      (
      DBDEMOS,      Customer.db).
      report title master data.      report
title      "Hello FastReport!",      master data -
      "CustNo".

var
  DataPage: TfrxDataPage;
  Page: TfrxReportPage;
  Band: TfrxBand;
  DataBand: TfrxMasterData;
  Memo: TfrxMemoView;

{
frxReport1.Clear;

{
frxReport1.DataSets.Add(frxDBDataSet1);
}

```

```

{
    " " }
DataPage := TfrxDataPage.Create(frxReport1);

{
}
Page := TfrxReportPage.Create(frxReport1);
{
}
Page.CreateUniqueName;
{
,
}
Page.SetDefaults;
{
}
Page.Orientation := poLandscape;

{
    report title }
Band := TfrxReportTitle.Create(Page);
Band.CreateUniqueName;
{
    Top
}
Band.Top := 0;
Band.Height := 20;

{
    report title }
Memo := TfrxMemoView.Create(Band);
Memo.CreateUniqueName;
Memo.Text := 'Hello FastReport!';
Memo.Height := 20;
{
}
Memo.Align := baWidth;

{
    master data }
DataBand := TfrxMasterData.Create(Page);
DataBand.CreateUniqueName;
DataBand.DataSet := frxDBDataSet1;
{
    Top
! }
DataBand.Top := 100;
DataBand.Height := 20;

{
    master data }
Memo := TfrxMemoView.Create(DataBand);
Memo.CreateUniqueName;
{
}
Memo.DataSet := frxDBDataSet1;
Memo.DataField := 'CustNo';
Memo.SetBounds(0, 0, 100, 20);
{
}
Memo.HAlign := haRight;

{
}
frxReport1.ShowReport;

.

,

.

frxReport1.DataSets.Add(frxDBDataSet1).
,

```

```

    .
    " "
    .
    Page.SetDefaults -
    4 0 .SetDefaults 10 ,
    ,
    ,
    Top Height. Left Width -
    ( , Left Width, Top Height ).
    ,
    .
    Top, Width, Height Extended, . . . Left,
    :
    fr01cm = 3.77953; // 96 / 25.4
    fr1cm = 37.7953;
    fr01in = 9.6;
    fr1in = 96;
    , , 5 , :
    Band.Height := fr01cm * 5;
    Band.Height := fr1cm * 0.5;

```

1.13

```

    , ,
    ,
    :
    {
    uses frxDCtrl;
    var
    Page: TfrxDialogPage;
    Button: TfrxButtonControl;
    }

```

```

{
Page := TfrxDialogPage.Create(frxReport1);
{
Page.CreateUniqueName;
{
Page.Width := 200;
Page.Height := 200;
{
Page.Position := poScreenCenter;

{
Button := TfrxButtonControl.Create(Page);
Button.CreateUniqueName;
Button.Caption := 'OK';
Button.ModalResult := mrOk;
Button.SetBounds(60, 140, 75, 25);

{
frxReport1.ShowReport;

```

1.14

```

, TfrxReportPage
:
property Orientation: TPrinterOrientation default poPortrait;
property PaperWidth: Extended;
property PaperHeight: Extended;
property PaperSize: Integer;

    PaperSize
    , Windows.pas, DMPAPER_A4.
    , FastReport PaperWidth
PaperHeight (
    DMPAPER_USER ( 256),
    PaperWidth PaperHeight

(
,
):

var
    Page: TfrxReportPage;

{
Page := TfrxReportPage(frxReport1.Pages[0]);
{
Page.PaperSize := DMPAPER_A2;
{

```



```

function FreeSpace: Extended;
    (      ).

property CurColumn: Integer;
    /

property CurX: Extended;
    /      X.

property CurY: Extended;
    /      Y.

property DoublePass: Boolean;

property FinalPass: Boolean;

property FooterHeight: Extended;
    page footer.

property HeaderHeight: Extended;
    page header.

property PageHeight: Extended;

property PageWidth: Extended;

property TotalPages: Integer;
    (
    ).

data,
    ,      6      .

var
    i: Integer;
    Band1, Band2: TfrxMasterData;
{      }

```

master

```

Band1 := frxReport1.FindObject('MasterData1') as TfrxMasterData;
Band2 := frxReport1.FindObject('MasterData2') as TfrxMasterData;

for i := 1 to 6 do
begin
  {
  frxReport1.Engine.ShowBand(Band1);
  frxReport1.Engine.ShowBand(Band2);
  }
  if i = 3 then
    frxReport1.Engine.CurY := frxReport1.Engine.CurY + 10;
end;

var
  i, j: Integer;
  Band1, Band2: TfrxMasterData;
  SaveY: Extended;

Band1 := frxReport1.FindObject('MasterData1') as TfrxMasterData;
Band2 := frxReport1.FindObject('MasterData2') as TfrxMasterData;

SaveY := frxReport1.Engine.CurY;
for j := 1 to 2 do
begin
  for i := 1 to 6 do
  begin
    frxReport1.Engine.ShowBand(Band1);
    frxReport1.Engine.ShowBand(Band2);
    if i = 3 then
      frxReport1.Engine.CurY := frxReport1.Engine.CurY + 10;
    end;
    frxReport1.Engine.CurY := SaveY;
    frxReport1.Engine.CurX := frxReport1.Engine.CurX + 200;
  end;
end;

```

1.16

FastReport Demos\PrintArray.

Master Data,

,
TfrxUserDataSet
,
)

RangeEnd := reCount
RangeEndCount := -

```

        TfrxUserDataSet.
        Master Data
        [element]
        'element'
        TfrxReport.OnGetValue.
    
```

1.17 TStringList

```

        FastReport
        Demos\PrintStringList.
    
```

1.18

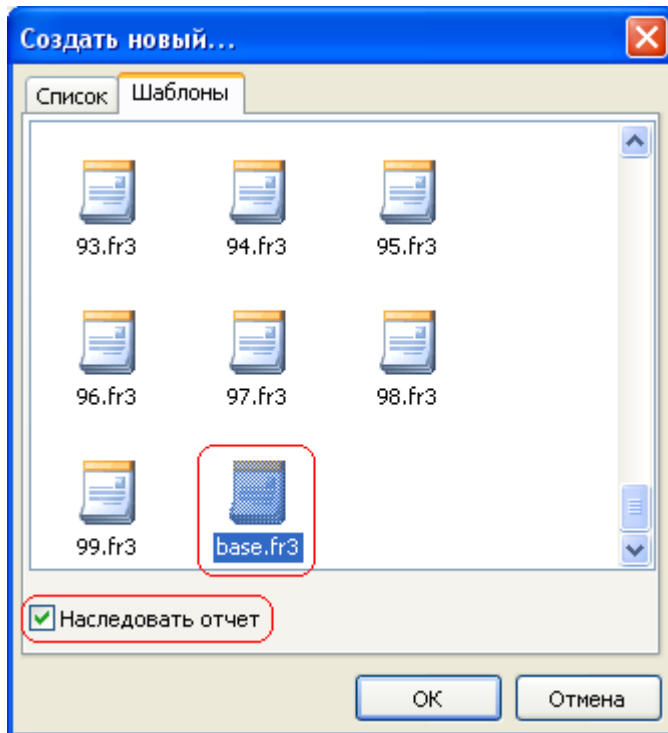
```

        FastReport Demos\PrintFile.
        Master Data,
        (
        "
        (Stretch) (Allow
        Split).
        Stretch
        [file].
        TfrxReport.OnGetValue.
        StretchMode = smActualHeight).
    
```

1.19 TStringGrid

```

        FastReport
        Demos\PrintStringGrid.
        TStringGrid
        Cross-tab (
        TfrxCrossObject).
    
```

, FastReport
(.exe).
TfrxDesigner.TemplateDir.

TfrxReport.

OnLoadTemplate:

```
property OnLoadTemplate: TfrxLoadTemplateEvent read FOnLoadTemplate write FOnLoadTemplate
```

```
TfrxLoadTemplateEvent = procedure (Report: TfrxReport; const TemplateName: String) of TfrxReport
```

```
Report: TfrxReport; const TemplateName: String) of TfrxReport
```

```
procedure TForm1.LoadTemplate (Report: TfrxReport; const TemplateName: String);
var
  BlobStream: TStream;
begin
  ADOTable1.First;
  while not ADOTable1.Eof do
  begin
    if AnsiCompareText (ADOTable1.FieldName ('ReportName').AsString, TemplateName) = 0
    begin
      BlobStream := TMemoryStream.Create;
      TBlobField (ADOTable1.FieldName ('ReportBlob')).SaveToStream (BlobStream);
    end;
  end;
end;
```

```
        BlobStream.Position := 0;
        Report.LoadFromStream(BlobStream);
        BlobStream.Free;
        break;
    end;
    ADOTable1.Next;
end;
end;
```

```
        ( " | ...")
" | ...")
```

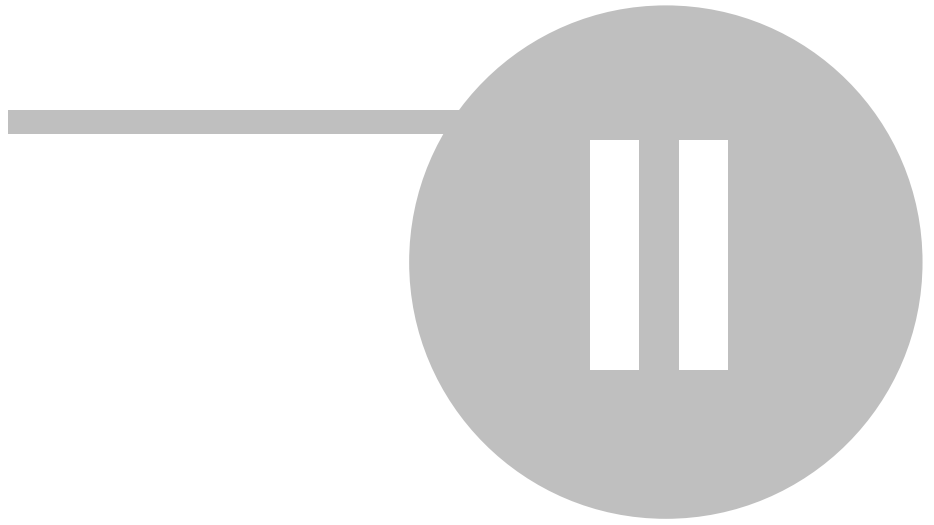
TfrxDesigner.OnGetTemplateList:

```
property OnGetTemplateList: TfrxGetTemplateListEvent read FOnGetTemplateList write
```

```
TfrxGetTemplateListEvent = procedure(List: TStrings) of object;
```

```
        List. :
```

```
procedure TForm1.GetTemplates(List: TList);
begin
    List.Clear;
    ADOTable1.First;
    while not ADOTable1.Eof do
    begin
        List.Add(ADOTable1.FieldName('ReportName').AsString);
        ADOTable1.Next;
    end;
end;
```




```

procedure GetVariablesList(const Category: String; List: TStrings);

property Items[Index: Integer]: TfrxVariable readonly;

property Variables[Index: String]: Variant; default;

end;

,
:
.

/

:

/

:

-
-
-
-
,
-
,

```

2.1

TfrxReport.Variables.

```

:
-

```

```
-
-
-      2 3      .
```

2.2

TfrxVariables.Clear:

```
frxReport1.Variables.Clear;
```

2.3

```
frxReport1.Variables[' ' + 'My Category 1'] := Null;
```

var

```
Category: TfrxVariable;
```

```
Category := frxReport1.Variables.Add;
Category.Name := ' ' + 'My category 1';
```

2.4

```
frxReport1.Variables['My Variable 1'] := 10;
```

```
var
  Variable: TfrxVariable;

Variable := frxReport1.Variables.Add;
Variable.Name := 'My Variable 1';
Variable.Value := 10;
```

Insert:

```
var
  Variable: TfrxVariable;

Variable := frxReport1.Variables.Insert(1);
Variable.Name := 'My Variable 1';
Variable.Value := 10;
```

AddVariable:

```
frxReport1.Variables.AddVariable('My Category 1', 'My Variable 2', 10);
```

2.5

```
frxReport1.Variables.DeleteVariable('My Variable 2');
```

2.6

```
frxReport1.Variables.DeleteCategory('My Category 1');
```

2.7

```
frxReport1.Variables['My Variable 2'] := 10;
```

```

var
  Index: Integer;
  Variable: TfrxVariable;

{
}
Index := frxReport1.Variables.IndexOf('My Variable 2');
{
}
if Index <> -1 then
begin
  Variable := frxReport1.Variables.Items[Index];
  Variable.Value := 10;
end;

```

Table1."Field1" , Table1."Field1".

" test ":

```
frxReport1.Variables['My Variable'] := 'test';
```

FastReport My Variable :

```
frxReport1.Variables['My Variable'] := '' + 'test' + '';
```

- 'test' -

·
:

- ;
- #13#10.

2.8

FastScript
:

--	--

	TfrxReport.Variables.	,	TfrxReport.Script.Variables.
	.	,	Pascal.
	.	,	.
	" "	,	.

```
frxReport1.Script.Variables['My Variable'] := 'test';
```

Variant),

2.9

TfrxReport.OnGetValue

```

,
,
),
.
" "
:
[My Variable]

```

TfrxReport.OnGetValue:

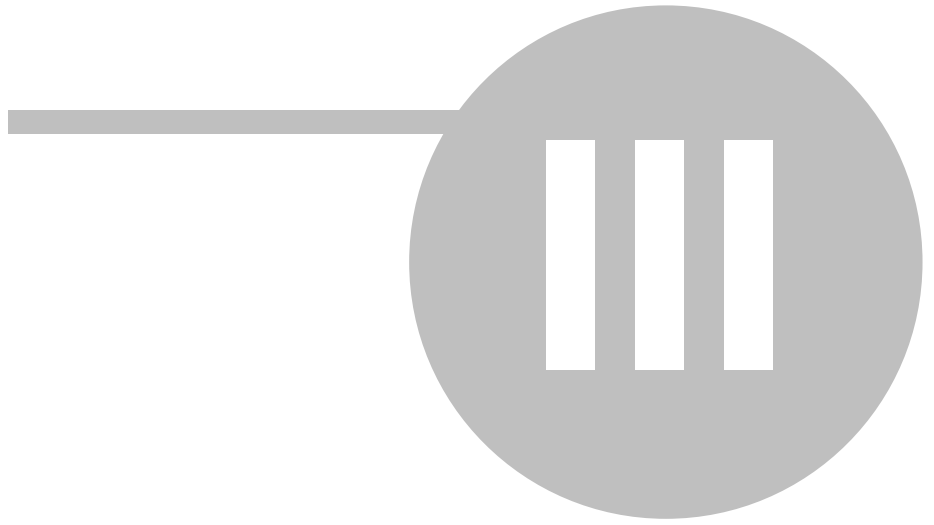
```

procedure TForm1.frxReport1GetValue(const VarName: String;
var Value: Variant);

```

```
begin
  if CompareText(VarName, 'My Variable') = 0 then
    Value := 'test'
  end;
```

```
      ,
      OnGetValue      ,
      .
      .
```



```

        ,
        ,
        ,
        .
    -
        ,
        ,
    -
        ,
        ,
        TfrxMemoView          Style: String,
    .
    .
    -
        TfrxReport          Styles,
        TfrxStyles.
    .
    -
        .
        .
        .
        .
        TfrxStyleItem
TfrxStyleItem = class(TCollectionItem)
public
    property Name: String;
    .
    property Color: TColor;
    .
    property Font: TFont;
    .
    property Frame: TfrxFrame;
end;

        TfrxStyles.
    /
        ,
        ,
        FS3.

TfrxStyles = class(TCollection)
public
    constructor Create(AReport: TfrxReport);
        AReport          nil,
Apply
    function Add: TfrxStyleItem;

```

```
function Find(const Name: String): TfrxStyleItem;

procedure Apply;

procedure GetList(List: TStrings);

procedure LoadFromFile(const FileName: String);
procedure LoadFromStream(Stream: TStream);

procedure SaveToFile(const FileName: String);
procedure SaveToStream(Stream: TStream);

property Items[Index: Integer]: TfrxStyleItem; default;

property Name: String;

end;
```

TfrxStyleSheet

```
TfrxStyleSheet = class(TObject)
public
  constructor Create;

  procedure Clear;

  procedure Delete(Index: Integer);

  procedure GetList(List: TStrings);

  procedure LoadFromFile(const FileName: String);
  procedure LoadFromStream(Stream: TStream);
```

```
procedure SaveToFile(const FileName: String);
procedure SaveToStream(Stream: TStream);

function Add: TfrxStyles;

function Count: Integer;

function Find(const Name: String): TfrxStyles;

function IndexOf(const Name: String): Integer;

property Items[Index: Integer]: TfrxStyles; default;

end;
```

3.1

```
var
  Style: TfrxStyleItem;
  Styles: TfrxStyles;

Styles := TfrxStyles.Create(nil);

{
}
Style := Styles.Add;
Style.Name := 'Style1';
Style.Font.Name := 'Courier New';

{
}
Style := Styles.Add;
Style.Name := 'Style2';
Style.Font.Name := 'Times New Roman';
Style.Frame.Typ := [ftLeft, ftRight];

{
}
frxReport1.Styles := Styles;
```

:

```

var
  Style: TfrxStyleItem;
  Styles: TfrxStyles;

Styles := frxReport1.Styles;
Styles.Clear;

{
}
Style := Styles.Add;
Style.Name := 'Style1';
Style.Font.Name := 'Courier New';

{
}
Style := Styles.Add;
Style.Name := 'Style2';
Style.Font.Name := 'Times New Roman';
Style.Frame.Typ := [ftLeft, ftRight];

{
}
frxReport1.Styles.Apply;

```

3.2

/ /

:

```

var
  Style: TfrxStyleItem;
  Styles: TfrxStyles;

Styles := frxReport1.Styles;

{
}
Style := Styles.Find('Style1');

{
}
Style.Font.Size := 12;

```

:

```

var
  Style: TfrxStyleItem;
  Styles: TfrxStyles;

Styles := frxReport1.Styles;

{
}
Style := Styles.Add;
Style.Name := 'Style3';

```

:

```

var
  Style: TfrxStyleItem;
  Styles: TfrxStyles;

Styles := frxReport1.Styles;

{
}
Style := Styles.Find('Style3');
Style.Free;

```

Apply:

```

{
}
frxReport1.Styles.Apply;

/

frxReport1.Styles.SaveToFile('c:\1.fs3');
frxReport1.Styles.LoadFromFile('c:\1.fs3');

```

3.3

:

```
frxReport1.Styles.Clear;
```

```
frxReport1.Styles := nil;
```

3.4

.

```

var
  Styles: TfrxStyles;
  StyleSheet: TfrxStyleSheet;

StyleSheet := TfrxStyleSheet.Create;

{
}
Styles := StyleSheet.Add;
Styles.Name := 'Styles1';

```

```

{                               Styles }

{                               }
Styles := StyleSheet.Add;
Styles.Name := 'Styles2';
{                               Styles }

```

3.5

```

-
ComboBox  ListBox.
.
:

StyleSheet.GetList(ComboBox1.Items);

:

frxReport1.Styles := StyleSheet.Items[ComboBox1.ItemIndex];

frxReport1.Styles := StyleSheet.Find[ComboBox1.Text];

```

3.6

```

/ /
:

var
  Styles: TfrxStyles;
  StyleSheet: TfrxStyleSheet;

{                               }
Styles := StyleSheet.Find('Styles2');

{                               Style1                               }
with Styles.Find('Style1') do
  Font.Name := 'Arial Black';

:

var
  Styles: TfrxStyles;
  StyleSheet: TfrxStyleSheet;

{                               }

```

```
Styles := StyleSheet.Add;  
Styles.Name := 'Styles3';
```

```
:
```

```
var  
  i: Integer;  
  StyleSheet: TfrxStyleSheet;  
  
{  
  }  
i := StyleSheet.IndexOf('Styles3');  
{  
  }  
if i <> -1 then  
  StyleSheet.Delete(i);
```

3.7

/

- FSS.

```
var  
  StyleSheet: TfrxStyleSheet;  
  
StyleSheet.SaveToFile('c:\1.fss');  
StyleSheet.LoadFromFile('c:\1.fss');
```

