

2

가

2.0

가



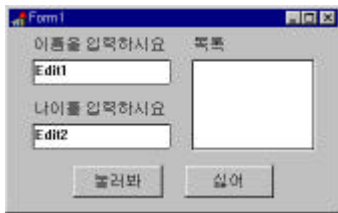
1.

1. Form



가

가



HorzScrollBar, VertScrollBar, WindowState

가 MDI FormStyle

FormStyle fsMDIForm  
FormStyle fsMDIChild  
ArrangeIcons Cascade, Tile,

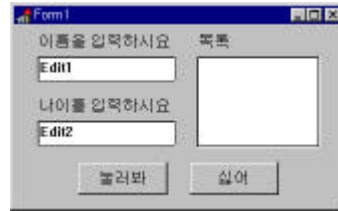
OnCreate



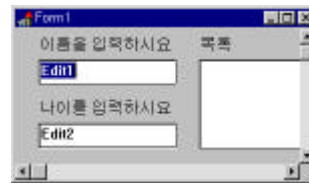
AutoScroll: Boolean;

가 가  
( ) ( )  
True

False



가

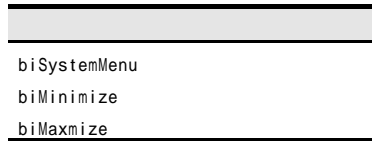


가

BorderIcons: TBorderIcons;

가

Boolean



False



FormStyle: TFormStyle;





```

fsNormal
fsMDIChild MDI
fsMDIForm MDI
fsStayOnTop

```

---

```

fsNormal MDI
MDI FormStyle
fsMDIForm

```

HorzScrollBar: TControlScrollBar;

```

가
Increment 가
Margin 가
Position
Range
가
가
가 100 Range가
200 100
Visible 가
False

```

---

VertScrollBar: TControlScrollBar;

```

가
Icon: TIcon;
WindowState: TWindowState;
가

```

---

```

wsNormal
wsMaximize

```

wsMinimize

---

```

wsNormal
ActiveControl: TWinControl;
가
ClientWidth, ClientHeight: Integer;
(Client Area)

```

```

Height,
Width
Position: TPosition;

```

poDesigned

---

```

poDesigned
poDefault 가
poDefaultPos
Only 가
poDefaultSizeOnly 가
poScreenCenter

```

---

```

KeyPreview: Boolean;
가
True 가
False

```

Handle: HWIND;

API

**Components[i]:TComponent;**  
가

ComponentCount

**Controls[i]:TControl;**  
가

. Components  
가 Controls  
가

(owned) Components  
Controls

ControlCount

**ModalResult;**  
0 Modal

ShowModal

ModalResult 0

**procedure Arrangelcons;**

MDI

**procedure BringToFront;**

가

**procedure Cascade;** 가

MDI

**function ClientToScreen(Point: TPoint): TPoint;**  
**function ScreenToClient(Point: TPoint): TPoint;**

( )

**procedure Close;** 가

가 CloseQuery

CloseQuery 가 False  
( 가 )

**function GetFormImage: TBitmap;**

**procedure Hide;**  
Visible False

**procedure Invalidate;** OnPaint  
가

**procedure Next; procedure Previous;**  
( )  
MDI

**procedure Print;** PrintScale

**procedure Refresh;**  
Invalidate Update

**procedure Release;** . Free  
가

**procedure Repaint;**

**procedure ScrollBy(DeltaX, DeltaY: Integer);**  
. DeltaX 가

DeltaY 가

**procedure ScrollInView(AControl: TControl);**  
AControl

**procedure SendToBack;**

가  
**procedure Show;**  
Visible True

가 BringToFront



Show

■ function ShowModal: Integer;  
Show 가

ModalResult

■ procedure Tile;  
가

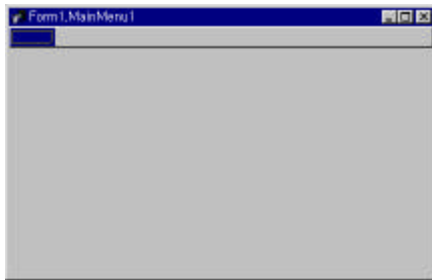
MDI

■ procedure Update;  
UpdateWindow API  
Paint

## 2. MainMenu



가  
가  
가



가

(Placeholder)

Caption  
File  
Caption File

가



TMenuItem  
가  
Name Caption  
( )  
가 가  
AutoMerge

## 3. PopupMenu

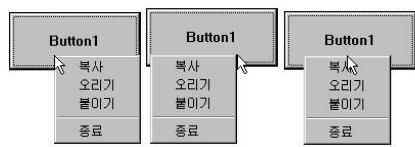



PopupMenu  
Listbox1 Popup1  
Listbox1.PopupMenu Popup1  
PopupMenu 가  
가 OnPopup 가 가




AutoPopup: Boolean;  
가  
가 가  
True 가

False  
가  
Popup  
가  
False  
Alignment: TPopupAlignment;  
가  
paLeft  
가  
paRight  
가  
paCenter  
가

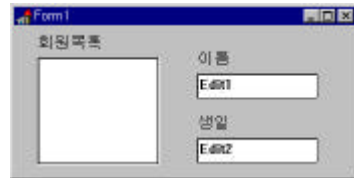



 PopupComponent: TComponent;

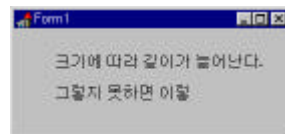
#### 4. Label

  
가  
가  
가  
Caption  
Alignment  
가

가  
가  
가 & 가 & 가  
FocusControl  
AutoSize  
True  
가  
transparent  
가



  
AutoSize: Boolean;  
True  
가  
가  
가  
True  
가  
False  
가



FocusControl: TWinControl;  
가  
Alt &  
Caption " (&N)"  
FocusControl Edit1  
Alt-N Edit1  
가  
Alt-T Edit2 가

①



Caption

&

Caption

가

가

FocusControl

ShowAcceleratorChar: Boolean;

&

True

&

False

&

&

Transparent: Boolean;

가

True

가



가

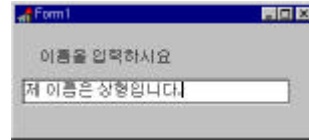
가

가 가

### 5. Edit



가



BS Del

Ctrl-Ins, Shift-Ins, Shift-Del

Text

가

Text

가

MaxLength

0

가

. Modified

가

가

가

ReadOnly

True

가

가



AutoSelect: Boolean;

가

가

가 가

True

Tab

가

False

True

CharCase: TEditCharCase;

가

ecLowerCase

ecNormal

가

ecUpperCase

가 가  
ecUpperCase 가

HideSelection: Boolean;

가 가 가 True  
가 가 가



True

가



False

가

가

MaxLength: Integer;

0  
.0

가

가

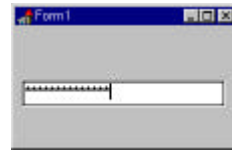
Modified: Boolean;

True  
Modified가 False

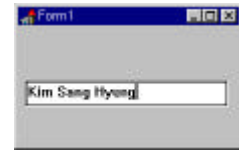
가

PasswordChar: Char;

가0  
가



\*



0

( )

Text 가

ReadOnly: Boolean;

가

True

False

False

가

가

SelStart: Integer;

가

Shift-

0

가

가

가

SelLength: Integer;

가

가

SelStart

가

가

가

SelText: String;

가

가

가



■ procedure Clear;



```

text          . text:=' ';

■ procedure ClearSelection;

■ procedure CopyToClipboard; procedure
CutToClipboard;

( )

■ function GetTextBuf(Buffer: PChar; BufSize: Integer):
Integer;
text          Buffer가 가
. BufSize
. Buffer

■ function GetTextLen: Integer;
text
■ function GetSelTextBuf(Buffer: PChar; BufSize:
Integer): Integer;
. BufSize
. Buffer

■ procedure PasteFromClipboard;

■ procedure SelectAll;
text
SelStart,
SelLength
■ procedure SetFocus;
가
■ procedure SetSelTextBuf(Buffer: PChar);
Buffer
■ procedure SetTextBuf(Buffer: PChar);
Buffer          text
Buffer

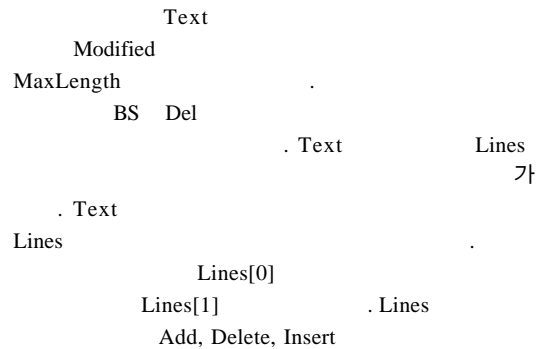
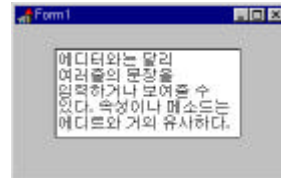
```

### 6. Memo



가

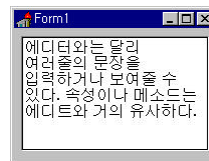
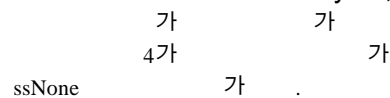
가



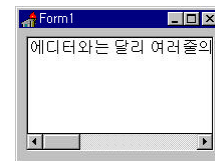
SelLength, SelText, SelStart, MaxLength, Modified



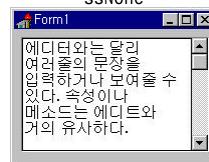
### Scrollbar: TScrollStyle;



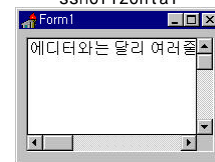
ssNone



ssHorizontal



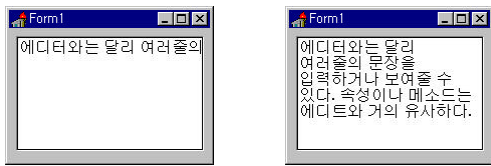
ssVertical



ssBoth

WordWrap: Boolean;

WordWrap False True  
 Enter  
 WordWrap True



False True

WantTabs: Boolean;

Tab  
 False Tab  
 True  
 Tab  
 False Tab Ctrl-Tab

WantReturns: Boolean;

Enter  
 True 가  
 False Enter OnClick 가  
 WantReturns False Enter  
 Ctrl-Enter

MaxLength: Integer;

0  
 0

Modified: Boolean;

True  
 Modified가 False  
 가

## 7. Button

가 가  
 확인  
 취소  
 도움말(H)  
 Caption  
 가 OnClick  
 가  
 Default Cancel  
 Default Enter  
 OnClick 가 Cancel  
 Esc OnClick 가

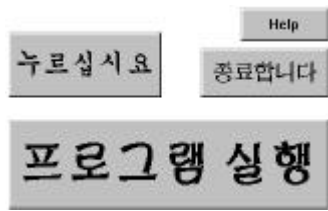
Caption: String;

.Caption & 가 &  
 가  
 &Open  
 (&O)



Font: TFont;

Caption 가  
 가  
 Caption Font



ModalResult: TModalResult;

Modal ModalResult 0  
Cancel 가 Ok  
ModalResult MrOk MrCancel  
ShowModal ModalResult

Default: Boolean;

True  
가 Enter 가 OnClick  
가  
가

Cancel: Boolean;

True  
가 Esc 가 OnClick  
가 Cancel True



OnClick Close  
가

```
procedure TForm1.Button1Click(Sender: TObject);
begin
close;
end;
```

Esc

가 OnClick 가  
Enabled: Boolean;  
가 True  
False



Visible: Boolean;

False

### 8. CheckBox



- CheckBox1
- CheckBox2
- CheckBox3

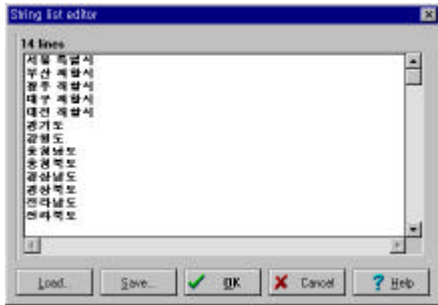
가 V  
Checked 가  
Caption State  
OnClick 가



AllowGrayed: Boolean;

Checked, unChecked 가 가  
가 가  
AllowGrayed True  
가 gray 가





Items Add, Insert, Delete 가,

ItemIndex ListBox1.Items [ListBox1.ItemIndex]



ItemIndex: Integer;

가 0 n  
ItemIndex n-1 10  
9가  
가 -1  
ListBox1.Items[ListBox1.ItemIndex]

Items Count  
ListBox1.Items.Count

Columns: Longint;

1 2 3  
가 0  
1 가 0  
ListBox1.Columns[0] ListBox1.Columns[1] ListBox1.Columns[2]

0 1  
0 1  
Sorted: Boolean;

False

가 Sorted  
True 가



Sorted

Sorted True  
False

MultiSelect: Boolean;

True



ExtendSelect

ExtendSelect: Boolean;

MultiSelect MultiSelect  
False 가 MultiSelect

True  
Shift Ctrl Shift  
Ctrl  
MultiSelect True  
False Shift Ctrl

Selected[i]: Boolean;

Boolean

Selected[2]

가 0

SelCount: Integer;

가

Style: TListBoxStyle;

Style

|                     |   |
|---------------------|---|
| IbStandard          | 가 |
| IbOwnerDrawFixed    | 가 |
| IbOwnerDrawVariable | 가 |



■ procedure Clear;

Lines

■ function ItemAtPos(Pos: TPoint; Existing: Boolean):

Integer;

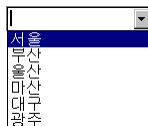
Pos

Existing True Pos가

-1 Existing False

+1

## 11. ComboBox



Text

Items

Items

Add, Insert,

Delete

가,

ItemIndex

ComboBox1.Items[ComboBox1.ItemIndex]



Sorted: Boolean;

False

가

가

. Sorted

True

가

가

Style: TComboBoxStyle;

가

csDropDown

csSimple

가

가

csDropDownList

가

가

가

csOwnerDrawFixed

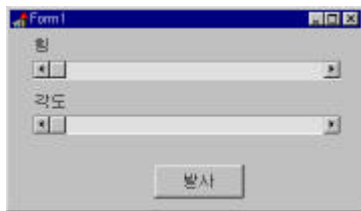
가

ed



csOwnerDrawVar 가  
iable

## 12. ScrollBar



가 OnScroll 가  
가 가  
가 가 Position



Position: Integer;

가 가 가

Kind: TScrollBarKind;

가

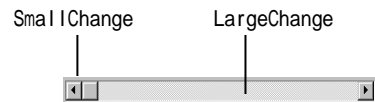


Min, Max: Integer;

가 가 . Min  
Max가 0, 100  
가 가 0~100  
100 가 0 가  
0~360  
0~255  
SetParams

SmallChange, LargeChange: TScrollBar  
Inc;

가  
SmallChange  
LargeChange



## 13. GroupBox



가

가

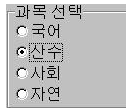


Caption: String;

### 14. RadioGroup



. Items

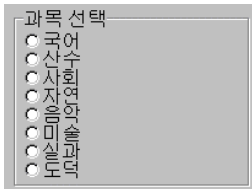


. ItemIndex

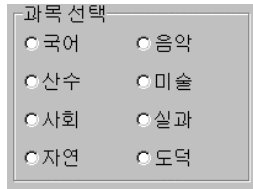


Columns: Integer;

1 1



1



2

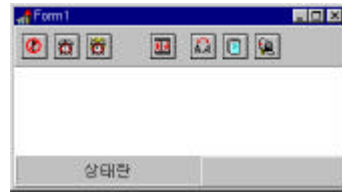
Caption: String;



ItemIndex: Integer;

Checked

### 15. Panel



가

가



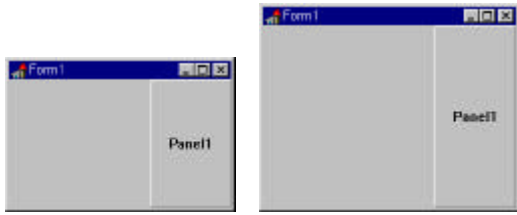
Align: TAlign;

가 가

alNone

alTop  
alBottom  
alLeft  
alRight  
alClient

Align alRight  
가 가

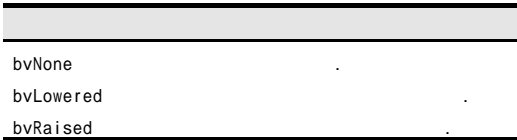


BevelInner, BevelOuter: TPanelBevel;

가

가

가

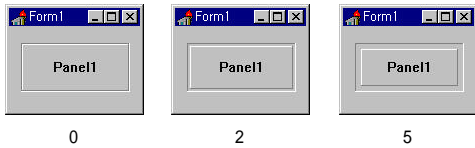


bvNone  
bvLowered  
bvRaised

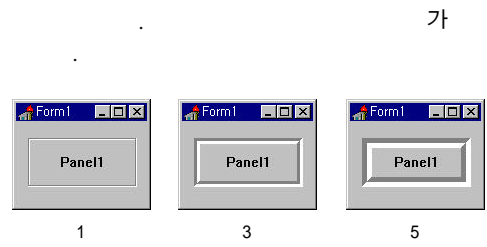
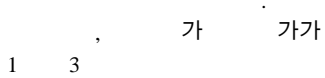


BorderWidth: Integer;

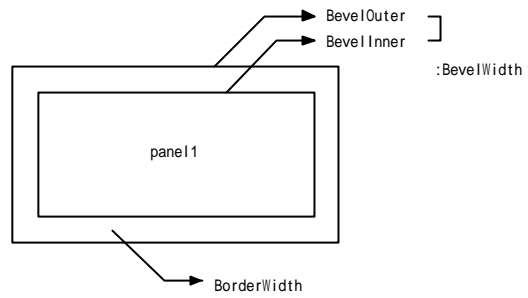
0



BevelWidth: Integer;

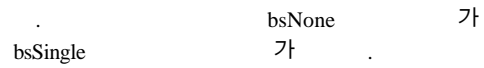


가



가

BorderStyle: TBorderStyle;



### 16. BitBtn

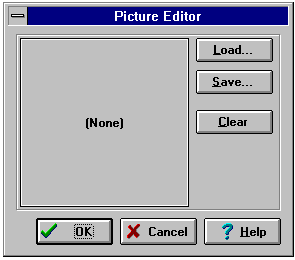


TButton  
Default, Cancel  
Caption,  
가  
Kind

가

Glyph

Glyph



Load

Delphi\Image 100

가

가 NumGlyphs

□

Glyph:TBi tmap;

---

Up

Disabled

Down


Stay Down

---

가

가

ZOOMOUT.BMP



Up Disable 가 가

가 가

NumGlyphs:TNumGlyphs;












4

4가

가

Kind:TBi tBtnKind;

가

| Kind     |  |         |             |
|----------|--|---------|-------------|
| bkCustom |    | 가 Glyph |             |
| bkOK     |   | Default | True 가      |
| bkCancel |  | Cancel  | True 가      |
| bkYes    |  | Default | True 가      |
| bkNO     |  | Cancel  | True 가      |
| bkHelp   |  | 가       | HelpFile    |
|          |  | Help    | HelpContext |
| bkClose  |  | Default | True 가      |
| bkAbort  |  | Cancel  | True        |
| bkRetry  |  |         |             |
| bkIgnore |  |         |             |
| bkAll    |  | Default | True        |

---

Kind Caption, Glyph,

ModalResult

LayOut:TButtonLayout;

가

4가

blGlyphLeft



|              |   |   |
|--------------|---|---|
| bGlyphLeft   | <input checked="" type="checkbox"/> All | 가 |
| bGlyphRight  | All <input checked="" type="checkbox"/> | 가 |
| bGlyphTop    | <input checked="" type="checkbox"/> All | 가 |
| bGlyphBottom | All <input checked="" type="checkbox"/> | 가 |

Margin: Integer;

가 . Layout  
가 . Layout bGlyphRight  
bGlyphTop

-1

No     No     No

Margin=-1    margin=3    Margin=30

Spacing: Integer;

4    가 4

가    -1

ModalResult: TModalResult;

Modal    ModalResult    0

Cancel    가    . Ok

ModalResult    MrOk    MrCancel

ModalResult

ShowModal

. Kind

Style: TButtonStyle;

가

---

bsWin31    3.1    가 .

bsNew    Win95

가 .

bsAutoDetect    3.1

t    가    3.1

3.1    가    Win95

---

Win95    가 .

3.1

가    bsAutoDetect

가

### 17. SpeedButton

가    가    가    Caption

Glyph

Glyph

NumGlyphs

GroupIndex

Layout, Margin, Spacing

Glyph: TBitmap;

---

Up

Disabled

Down





EditMask  
가



Sample Masks  
가  
Save Literal Characters Text  
가 0 1 Character For Blanks  
가  
Mask 가  
가

Text:TCaption;  
Save Literal  
Character 가  
가  
(999)000-0000 가 (123)456-7890  
Save Literal Character  
Text ( , ) -  
가 1234567890

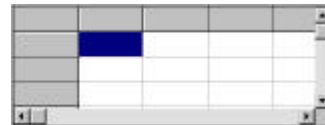
EditText:string;  
가

IsMasked: Boolean;  
EditMask 가  
False 가

## 19. StringGrid



가 가  
5\*5 가



(= )  
Cells

가  
[3,3]  
StringGrid1.Cells[3,3]  
StringGrid1.Cells[3,3]:='56';  
[0,0] 가 가  
(Col) 가 (Row)

|       |       |       |  |  |
|-------|-------|-------|--|--|
| [0,0] | [1,0] | [2,0] |  |  |
| [0,1] | [1,1] | [2,1] |  |  |
| [0,2] | [1,2] | [2,2] |  |  |
| [0,3] | [1,3] | [2,3] |  |  |
|       |       |       |  |  |
|       |       |       |  |  |

가 ColCount, RowCount  
ColWidth,  
RowHeight

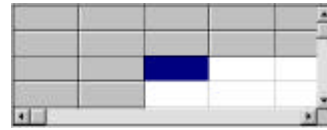


Cells[i,j]:string;

Cells[Col,Row] 2  
Cells[0,0]

ColCount, RowCount:LongInt;  
가  
ColCount  
RowCount

ColCount\*RowCount 가  
 5\*5=25  
 Col, Row: LongInt;  
 Col 가 , Row가  
 Cols, Rows: TStrings;  
 ( )  
 가 1 Cols[3] 3  
 가 . Cols, Rows  
 (TString)  
 StringGrid1.Cols[2].Add('korea'); 2  
 'korea' 가  
 DefaultColWidth,  
 DefaultRowHeight: Integer;  
 가  
 ColWidths,  
 RowHeights  
 ColWidths[i]: Integer;  
 RowHeights[i]: Integer;;  
 가  
 DefaultColWidth,  
 DefaultRowHeight  
 가  
 1  
 ColWidths[3]:=100;  
 3 100  
 FixedCols, FixedRows: Integer;  
 1 1



FixedColor: TColor;

GridLineWidth: Integer;

1 가

0



1



3



5

VisibleColCount, VisibleRowCount: Integer;

Options: TGridOptions

가

가



goFixedHorzLine

goFixedVertLine

goHorzLine

goVertLine

goRangeSelect

가

goEditing

goDrawFocusSelect

가

ed

가

. False

가

가

goRowSizing



goColSizing  
 goRowMoving  
 goColMoving  
 goEditing 가 가  
 goAlwaysShowEdit goEditing  
 or 가 True  
 F2 Enter 가  
 goTabs Tab  
 goRowSelect  
 goThumbTracking  
 False

Objects[i, j]:TObject;

가  
 TObject 2  
 String1.Objects[1,1]:=MyIcon;

LeftCol, TopRow:LongInt;

( ) 가 ( )

## 20. DrawGrid

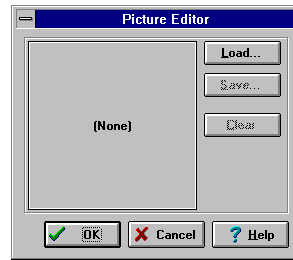
가 ,  
 .DefaultDrawing False OnDrawCell  
 True  
 CellRect MouseToCell

가

DrawGrid StringGrid

## 21. Image

Picture 가 Picture



\*.BMP, \*.ICO, \*.WMF

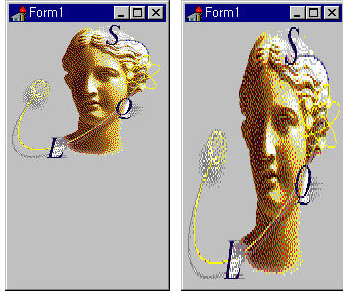
Canvas 가  
 LineTo, Ellipse,  
 Rectangle Canvas

Autosize:Boolean;

True 가  
 False 가  
 가

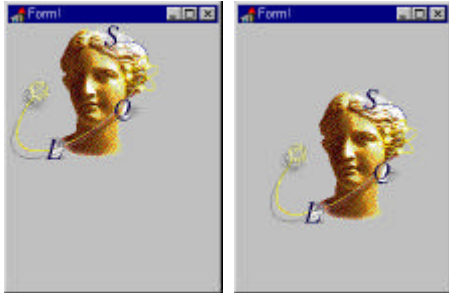
Stretch:Boolean;

\*.BMP, \*.WMF  
 Stretch  
 Stretch



Center: Boolean;

False  
Center True False



## 22. Shape



(nonwindowed)

. Shape  
Brush, Pen

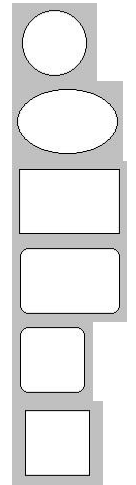


Shape: TShapeType;

가

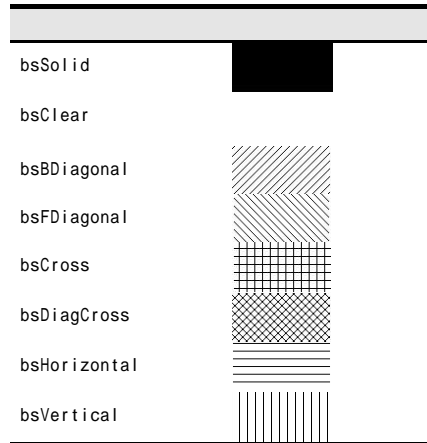


- stCircle
- stEllipse
- seRectangle
- stRoundRect
- stRoundSquare
- stSquare



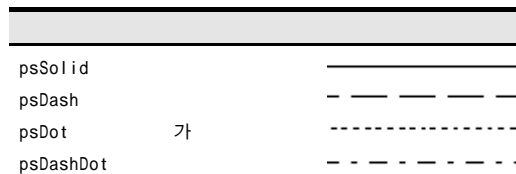
Brush: TBrush;

. Style Color  
Style 가



Pen: TPen;

Width Color, Mode, Style, Color가 , Width가  
Mode가 ROP , Style





psDashDotDot            - - - - -  
 psClear  
 psInsideFrame            \_\_\_\_\_

### 23. Bevel



. Shape, Style



Style: TBevelStyle;

가            가            가            가  
가            가



Shape: TBevelShape;

가



|              |   |     |
|--------------|---|-----|
| bsBox        | , |     |
| bsFrame      | , | 가   |
| bsTopLine    |   | 가 . |
| bsBottomLine |   | 가 . |
| bsLeftLine   |   | 가 . |
| bsRightLine  |   | 가 . |



### 24. ScrollBox



가

가



HorzScrollBar, VertScrollBar: TControlScrollBar;

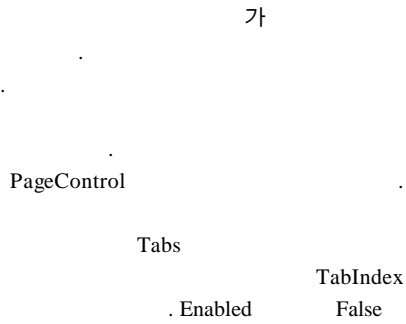
가            ,            가            ,  
가            ,            가            ,

|           |                |              |
|-----------|----------------|--------------|
| Visible   | True           |              |
| Range     |                |              |
| Margin    | 가            , | Margin+Range |
|           | 가            가 |              |
| Position  |                |              |
| Increment |                |              |

BorderStyle: TBorderStyle;

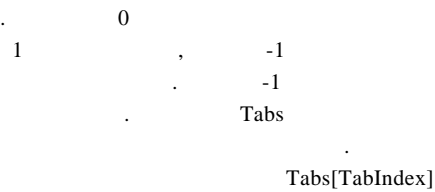
bsNone            가            bsSingle            가

## 25. TabControl

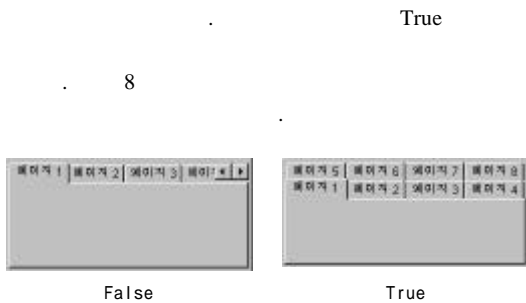


Tabs:TStrings;

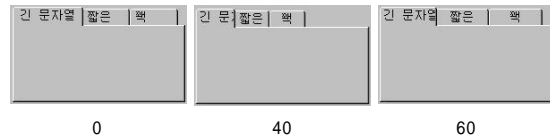
TabIndex: Integer;



MultiLine:Boolean;



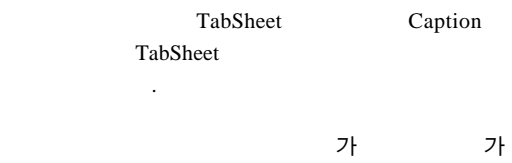
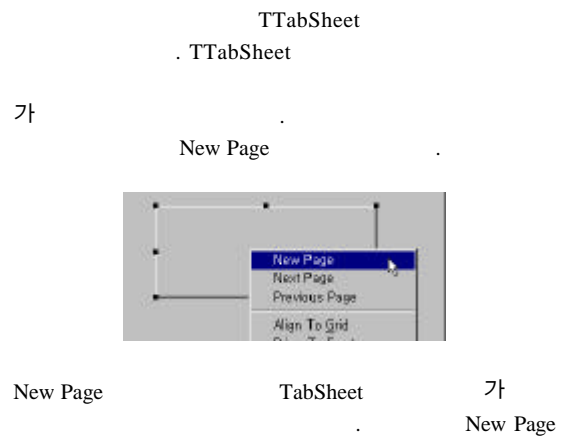
TabWidth: Integer;



## 26. PageControl



1.0 TabbedNoteBook



가



Items



ViewStyle:TViewStyle;  
가



vsIcon

vsSmallIcon

vsList

vsReport

---

Columns:TListColumns;  
가  
ViewStyle vsReport  
가

LargeImage:TImageList;  
ViewStyle vsIcon

SmallIcon:TImageList;  
ViewStyle SmallIcon

## 29. ImageList



Add

WMF 가 가  
16x16 가 Width, Height  
ICO, BMP,



Width, Height:Integer;  
16x16

## 30. HeadControl



THeaderSection  
가 Sections





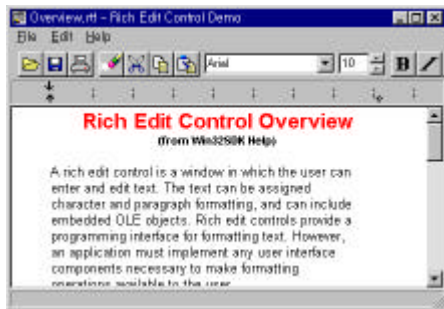
- 

Sections: THeaderSection;

### 31. RichEdit

- 

가 가  
Rich Text (RTF)



Print, FindText

- 

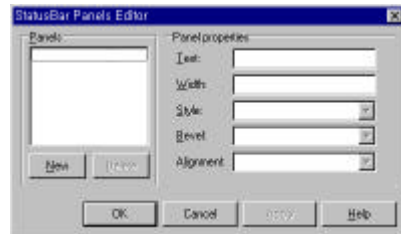
### 32. StatusBar

- 

Align alBottom

가 Panels

가



SimplePanel

가

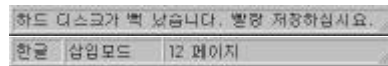
- 

SimplePanel: Boolean;

True

False

True  
False



SimpleText: string;

SimplePanel True

SizeGrip: Boolean;

False

Align

alBottom

가

### 33. TrackBar

-

가  
가  
가



Orientation: TTrackBarOrientation;  
가

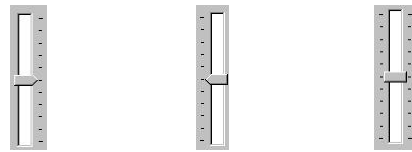
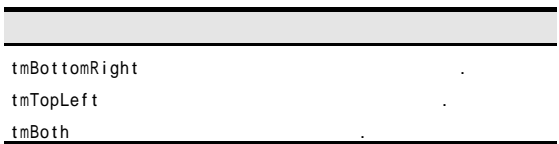


Mix, Max: Integer;  
( ) 가 ( )  
0~10

LineSize: Integer;  
1

PageSize: Integer;  
PgUp, PgDn  
2

TickMarks: Integer;  
가



TickStyle: TTickStyle;

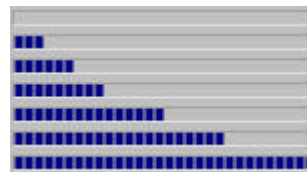
tsAuto  
tsManual  
tsNone



### 34. ProgressBar



95



Min, Max: Integer;  
0~100

Position: Integer;

Step: Integer;  
StepInc Position 가 가  
10



### 35. UpDown



1.0 가



Min,Max:SmallInt;

Position:SmallInt;

가 가

Orientation:TUDOrientation;

가 가



Wrap:Boolean;

100 가 0

Associate:TWinControl;

UpDown

UpDown 가

UpDown

Text Caption 가

UpDown



UpDown

### 36. HotKey



가 가 Ctrl, Alt, Shift

HotKey

. HotKey  
ShortCut  
가



HotKey:TShortCut;

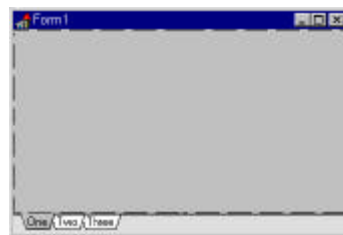
가 가 Alt-A 가

### 37. TabSet



NoteBook

NoteBook



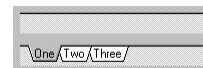
alClient

alBottom  
Tabs

Tabs

가 One,

Two, Three



Tabs

```
TabSet1.Tabs:=NoteBook1.Page;
```

가  
OnClick

```
procedure TForm1.TabSet1Click(Sender: TObject);
begin
  Notebook1.PageIndex := TabSet1.TabIndex;
end;
```



SelectColor: TColor  
clBtnFace,

UnSelectedColor: TColor

BackgroundColor: TColor

Di therBackground: Boolean  
가 50%

False

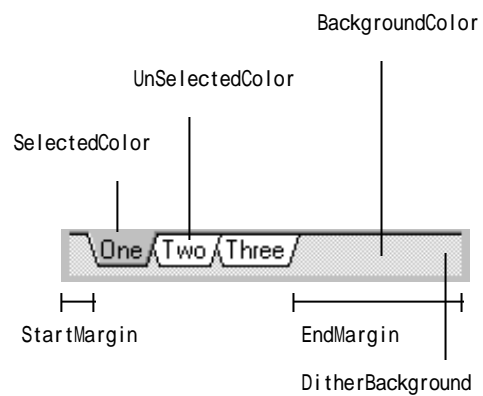
StartMargin: Integer

5

EndMargin: Integer

5 . StartMargin 가

100  
50 50



Style: TTabStyle

. tsStandard  
tsOwnerDraw 가

TabHeight



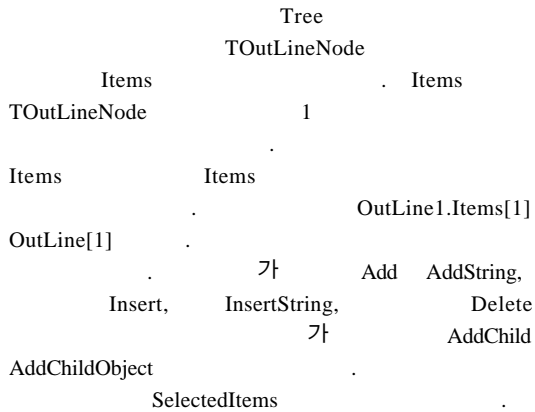
 VisibleTabs: Integer  
가 Tabs

10 8



10 8

### 38. Outline



Itemcount: Longint;

ItemsSeparator: string;

Text

### 39. Header



. Sections



가

가 onSizing  
가 OnSized



Sections: TStrings;

가

AllowResize: Boolean;

가  
가 가 True 가

SectionWidth[i]: Integer;

i

### 40. TabbedNotebook



가 가

가 가

가 MDI가

가



TabbedNoteBook  
가 . Pages

가

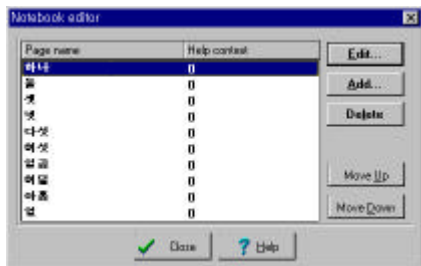
ActivePage PageIndex  
. ActivePage

PageIndex 0



Pages:TStrings;  
가 가

가



MoveUp, MoveDown , 가,  
가

ActivePage:String;  
. Pages

PageIndex: Integer;  
. Pages  
0, 1, 2, ...

ActivePage  
ActivePage

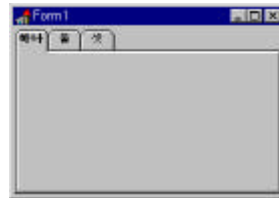
TabsPerRow: Integer;  
가  
3



TabsPerRow 8

8

가 1/8

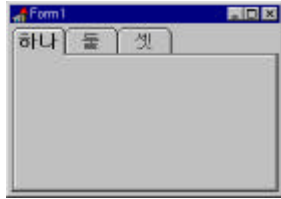


TabsPerRow

6



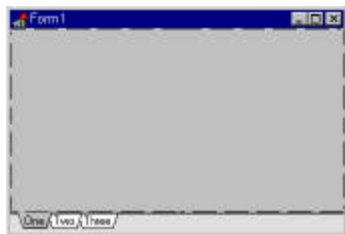
TabFont:TFont  
가



### 41. NoteBook



가            가  
 가            가  
 PageIndex            Pages  
                           ActivePage  
                           가



alBottom                            alClient  
                           가                            .  
   alClient  
   .  
   Pages                            Tabs  
   OnClick                            가

```

procedure TForm1.TabSet1Click(Sender: TObject);
begin
  Notebook1.PageIndex := TabSet1.TabIndex;
end;

```

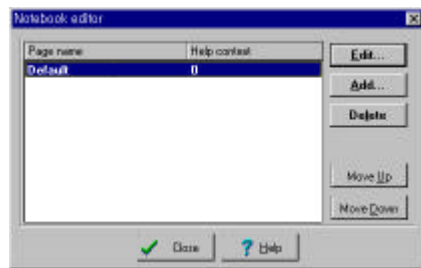
가  
가



Pages:TStrings

가  
가

가



ActivePage:String

. Pages

PageIndex: Integer

. Pages  
0, 1, 2, ...

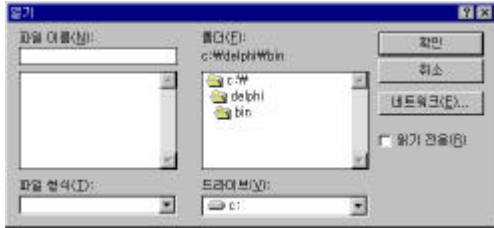
ActivePage

ActivePage

### 42. OpenFileDialog



가



```

Execute
OK
Execute
가
가 Cancel
False
Execute
if OpenFileDialog1.Execute then
    Edit1.Text:=OpenDialog1.FileName;
    가
    가
    가
Execute
    가
    
```



```

FileName:TFileName;
가
가
DefaultExt:TFileExt;
가
가
가
    
```

```

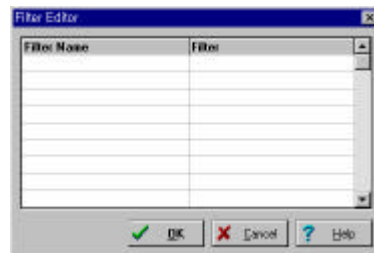
FileEditStyle:TFileEditStyle;
가
FsEdit
fsComboBox
fsEdit
List
가
HistoryList
    
```

```
HistoryList:TStrings ;
```

```
Files:TStrings;
Options ofAllowMultiSelect True
```

```

Filter:string;
" |
가
*.exe 가
()가 | '*.doc','
|*.xls' 가
|*.xls| | '*.doc|
|*.gif
|*.exe;*.com;*.bat'
    
```



```

FilterIndex:Integer;
Filter
가 1 가
    
```



InitialDir:string;

가

Options:TOpenOptions;

가

가



ofAllowMultiSelect  
ofCreateProgrampt  
ofExtensionDifferent  
ofFileMustExist  
ofHideReadonly  
ofNoChangeDir  
ofNoReadOnlyReturn  
ofNoTestFileCreate  
ofNoValidate  
ofOverwritePrompt  
ofReadOnly  
ofPathMustExist  
ofShareAware

True

가

가

가 DefaultExt

가

True

가

True

ofShowHelp

Title:string;

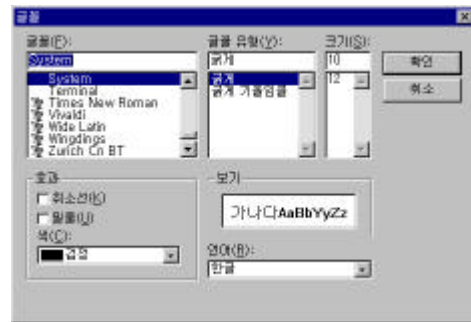
### 43. SaveDialog



### 44. FontDialog



가



Execute

가

Font

. Execute

가

가

True

가

가 Cancel

False

Execute

```
if FontDialog1.Execute then
  Form1.Font:=FontDialog1.Font;
```

가 Execute 가



```
Device :TFontDialogDevice;
가 . fdScreen
fdPrinter
```

```
Font:TFont;
가
```

```
MinFontSize, MaxFontSize :Integer;
```

0 ,

```
Options :TFontDialogOptions;
가
```



```
fdAnsiOnly 가
y 가
```

```
fdEffects
```

```
fdFixedPitchOnly
fdForceFontExist
fdLimitSize
fdNoFaceSel 가
fdNoOEMFonts 가
fdScalableOnly
```

```
fdNoSimulations
fdNoSizeSel 가 가
fdNoStyle 가 Style
fdNoVectorFonts
fdNoOEMFonts
fdShowHelp
fdTrueTypeOnly
fdWysiwyg
```

### 45. ColorDialog



가 가



```
Execute 가
OK Color 가
Execute 가 True
가 가 Cancel
False Execute
```



if ColorDialog1.Execute then  
Form1.Color:=ColorDialog1.Color;

가  
가 Execute  
가



Color:TColor;

가 가  
가

CustomColors:TStrings;

6 16  
16 가  
ColorA=00FF80  
. ColorA ~ ColorP 16

Options:TColorDialogOptions;

가



cdFullOpen

cdPreventFullOpen

cdShowHelp



## 46. PrintDialog



Execute 가  
Execute 가  
OK True  
가 Cancel  
False  
Execute

if PrintDialog1.Execute then

가  
가  
Execute 가 가



Collate:Boolean;

가 Collate

Copies:Integer;

0

MaxPage, MinPage:Integer;

가  
가

FromPage, ToPage:Integer;

PrintRange:TPrintRange;

가 가



prAllpages

prSelection

prPageNums



PrintToFile :Boolean;  
가 가

Options:TPrintDialogOptions;  
가

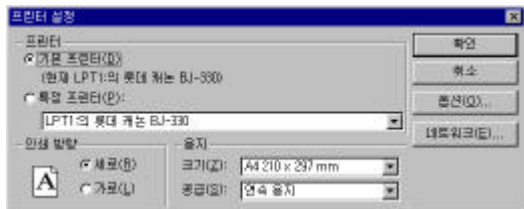
|           |   |
|-----------|---|
| poHelp    |   |
| poPageNum | 가 |
| s         |   |
| poPrintTo |   |
| File      |   |
| poSelecti |   |
| on        | 가 |
| poWarning | 가 |
| poDisable |   |
| PrintToFi |   |
| le        |   |

### 47. PrintSetupDialog

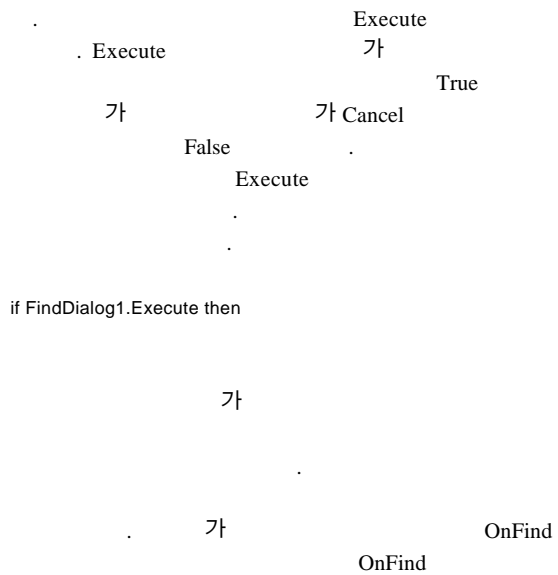


Execute

가



### 48. FindDialog



if FindDialog1.Execute then



FindText:string;

Position:TPoint;

가



Options:TFindOptions;

가

---

|              |       |      |
|--------------|-------|------|
| frDisableMat | /     |      |
| chCase       |       |      |
| frDisableUpD | /     |      |
| o            |       |      |
| wn           |       |      |
| frDisableWho |       |      |
| leWord       |       |      |
| frDown       |       |      |
|              | False |      |
|              |       |      |
| frFindNext   |       | True |
|              |       |      |
| frHideMatchC |       |      |
| a            |       |      |
| se           |       |      |
| frHideWholeW |       |      |
| o            |       |      |
| rd           |       |      |
| frHideUpDown | /     |      |
| frMatchCase  | /     | 가    |
| frReplace    |       | True |
|              |       |      |
| frReplaceAll |       | True |
| frShowHelp   |       |      |
| frWholeWord  |       | 가    |

---

### 49. ReplaceDialog



가

Execute  
FindText  
ReplaceText

가

OnFind 가  
OnReplace 가



FindText:string;

ReplaceText:string;

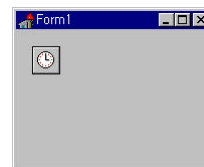
Options:

가 가

### 50. Timer



OnTimer



가  
OnTimer  
Interval  
가  
OnTimer

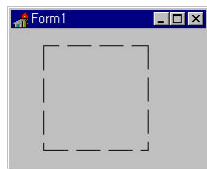


```
Interval: Word;
OnTimer 가 1/1000
OnTimer 가 1000 1
OnTimer 가 0~65536 0
OnTimer 가
```

### 51. PaintBox



LineTo Ellipse  
가



가  
OnPaint  
OnPaint 가

```
PaintBox1.Canvas.LineTo(100,100);
```

### 52. FileListBox



Directory  
OnChange  
Directory

```
procedure TForm1.DirectoryListBox1Change(Sender: TObject);
begin
  FileListBox1.Directory := DirectoryListBox1.Directory;
end;
```

FileList  
FileName  
FileName



Mask: string;  
\*.exe  
가  
\*.pas;\*.c;\*.bas  
Mask \*.\*

ShowGlyph: Boolean;  
False



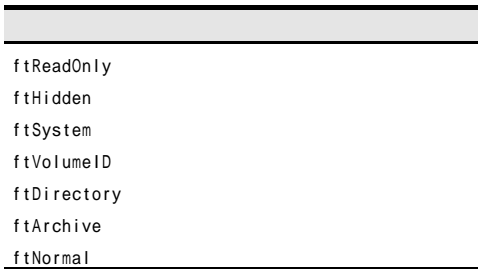
True



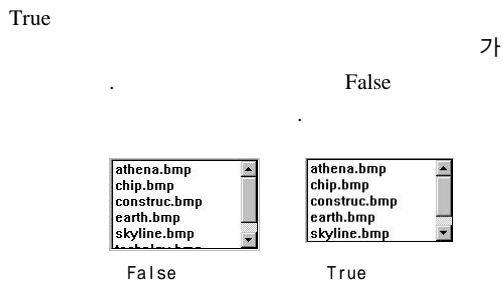
False



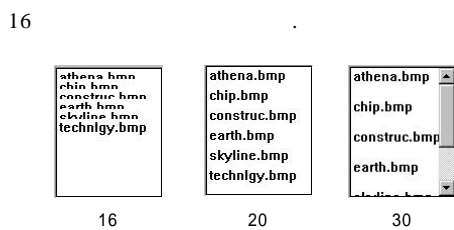
FileType:TFileType;



IntegralHeight:Boolean



ItemHeight:Integer;



FileEdit:TEdit;

Mask

FileName:string;

(full path)

Directory:string;  
가

Directory Directory  
FileList 가

Items:TStrings;  
가  
ItemIndex

ItemIndex:Integer;  
0  
1  
-1

FileListBox1.Items[FileListBox1.ItemIndex]  
FileName

MultiSelect:Boolean;  
False

Selected[i]:Boolean;  
가

Selected[4]

TopIndex:Integer;  
0

### 53. DirectoryListBox



Drive

가

OnChange

```
procedure TForm1.DirectoryListBox1Change(Sender: TObject);
begin
  FileListBox1.Directory := DirectoryListBox1.Directory;
end;
```

DirList

FileList

Directory



IntegralHeight: Boolean;

True

가

False



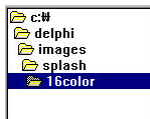
False



True

ItemHeight: Integer;

16



16



30

DirLabel: TLabel

FileList: TFileListBox;

가

Directory

Drive: Char;

가

Drive

DirList

Directory: string;

가

Directory

FileList

## 54. DriveComboBox



가

Drive

가

가

OnChange

```
procedure TForm1.DriveComboBox1Change(Sender: TObject);
begin
  DirectoryListBox1.Drive := DriveComboBox1.Drive;
end;
procedure TForm1.DirectoryListBox1Change(Sender: TObject);
begin
```



```
FileListBox1.Directory := DirectoryListBox1.Directory;
end;
```

가  
DirList  
FileList

```
DirList:TDirectoryListBox;
```

가  
Drive  
Drive:Char;  
가  
Drive

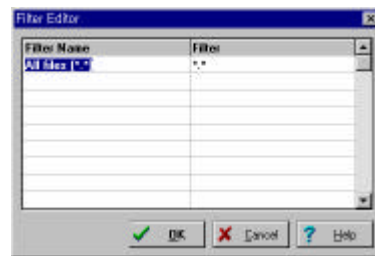
### 55. FilterCombo

Filter 가  
Mask  
가 가  
OnChange

```
procedure TForm1.FilterComboBox1Change(Sender: TObject);
begin
  FileListBox1.Mask := FilterComboBox1.Mask;
end;
```

FileList

```
FileList:TFileListBox;
Mask
Filter:string;
가
*.exe 가
()가 . ' |*.doc'|
|*.xls' 가
|*.xls| |*.gif |*.doc|
|*.exe;*.com;*.bat'
Fileter
```



```
Mask:string;
```

### 56. MediaPlayer

ROM VCR CD-  
WAV AVI 가  
가



Play  
 Pause  
 Stop  
 Next  
 Prev  
 Step  
 Back  
 Record  
 Eject

가

DeviceType  
 dtAutoSelect FileName  
 (WAV, AVI ) FileName  
 ( ) Open  
 Play



DeviceType:TMPDeviceTypes;  
 가  
 dtAutoSelect, dtAVIVideo, dtCDAudio,  
 dtDAT, dtDigitalVideo, dtMMMovie, dtOther, dtOverlay,  
 dtScanner, dtSequencer, dtVCR, dtVideodisc, or  
 dtWaveAudio dtAutoSelect  
 dtAutoSelect FileName 가

AutoOpen: Boolean;

False Open  
 Open

EnableButtons: TButtonSet;

VisibleButtons: TButtonSet;

ColorButtons: TButtonSet;

가 가

Wait: Boolean;

가 True

False

Play

StartRecording False

True

### 57. OleContainer



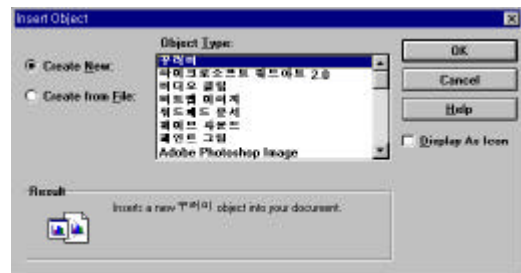
OLE

가

OLE

ObjClass

가



objClass: string;

OLE

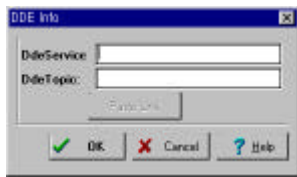
OLE



가  
 objDoc:string;  
 OLE OLE OLE  
 objItem:string;  
 OLE

### 58. DdeClientConv

□  
 DDE DDE  
 DdeClientItem  
 가 DDEService DDETopic  
 DDEService DDETopic  
 DDE 가



SetLink  
 PokeData DDE  
 ExecuteMacro DDE

□  
 ConnectMode:TDataMode;  
 DDE DdeAutomatic  
 DdeManual 가 OpenLink

DdeService:string;  
 EXE 가 가

DDETopic:string;  
 DDE 가  
 가 (Caption )  
 가 TDDEServerConv  
 FormatChars:Boolean;  
 True ASCII 8(BS),  
 9(Tab), 10(LF), 13(CR) 가  
 False

### 59. DdeClientItem

□  
 DDE DDEConv  
 TDDEClientConv DDE  
 가 DDEItem 가  
 DDE 가  
 Text  
 Text OnChange  
 가

□  
 DDEConv:TDdeClientConv;  
 DDE TDDEClientConv

DDEItem:string;  
 DDE  
 DDEServerItem Name

Text:string;  
 . 255

Lines:TStrings;  
 . Text

가

### 60. DdeServerConv

```

DDE
TDDEServerItem
    가
    가
    OnExecuteMacro
    TDDEServerConv
    가
TDDEServeItem
    DDE
    가
    ( )
    
```

### 61. DdeServerItem

```

DDE
    TDDEServeConv
    가
    ServeConv
TDDEServeConv
    Text
    
```

```

DDE
    TDDEServeConv
    가
    ServeConv: TDdeServerConv;
    TDDEServeConv
    Text: string;
    255
    Lines: TStrings;
    
```

### 62. Application

```

Application
    Run
    Terminate
    가
    OnDeactivate
    OnActivate,
    OnHint
    OnMessage
    가
    
```

```

Components[i]: TComponent;
    가
    
```

```

ComponentCount
    Controls[i]: TControl;
    가
    
```

```

Components
    가
    Controls
    가
    (owned)
    Components
    Controls
    ControlCount
    
```

```

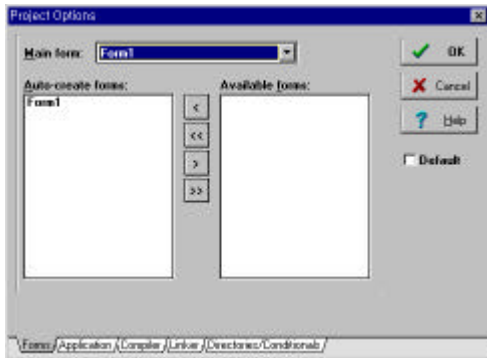
ExeName: String;
    가
    
```

```

(full path)
MainForm: TForm;
    
```

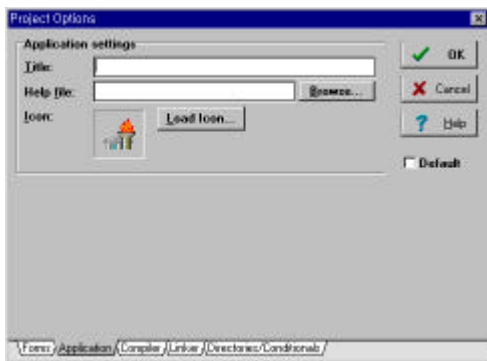


Options/Project      Forms



Icon: TIcon;

Options/Project      Application



HelpFile: string;

Title: string;

Options/Project      Application

HintColor: TColor

### 63. Screen

가

Fonts: TStrings; TPrinter



Cursors[Index: Integer]: HCursor; 가


|             |     |
|-------------|-----|
| crDefault   | 0   |
| crNone      | -1  |
| crArrow     | -2  |
| crCross     | -3  |
| crIBeam     | -4  |
| crSize      | -6  |
| crSizeNESW  | -7  |
| crSizeNS    | -8  |
| crSizeNWSE  | -9  |
| crSizeWE    | -8  |
| crUpArrow   | -10 |
| crHourGlass | -11 |
| crDrag      | -12 |
| crNoDrop    | -13 |
| crHSplit    | -14 |
| crVSplit    | -15 |
| crMultiDrag | -16 |

Forms[Index: Integer]: TForm; 가

가 0

가 1, 가 2 ...

  Width, Height: Integer;

  PixelsPerInch: Integer;

가

### 64. Session

□

가

DB 가 Database DataCount  
가

### 65. MenuItem

□

가

OnClick 가

□

Break: TMenuBreak;

가



mbNone ( ) .

mbBarBreak .

mbBreak .



five

mbBarBreak

mbNone



mbNone



mbBarBreak

Shortcut: TShortcut;

(Short Cut)

Caption

&

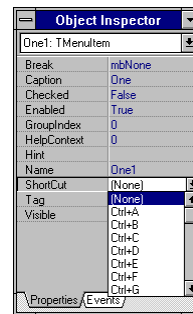
(Accelerator)

Alt

가

가

Shortcut



### 66. Field

□

(TTable, TQuery)

TField

가

TTable

TQuery



. TField  
가

Alignment: TAlignment;

Visible: Boolean;  
False True

DisplayWidth: Integer;  
가  
가

ReadOnly: Boolean;  
Tab 가

AsInteger: Longint;  
Longint  
AsString, AsFloat

DataType: TFieldType;  
가  
ftBoolean, ftDateTime, ftInteger, ftBlob, ftString

## 2.

## 1. BitMap

BMP (HBITMAP)  
(HPALETTE)가  
가  
Height, Width  
Monochrome  
LoadFromFile  
SaveToFile  
Canvas 가 TCanvas가  
가 Draw StretchDraw  
OnChange 가

Empty: Boolean

Palette: HPalette 가  
Height, Width: Integer;

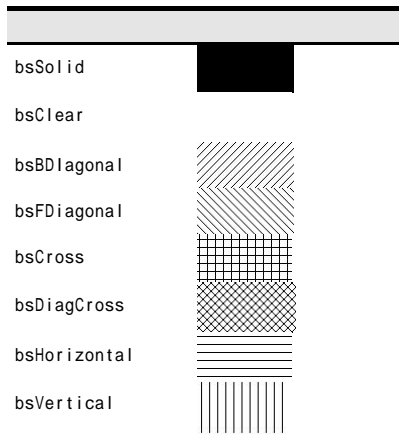
Monochrome: Boolean  
True

procedure LoadFromFile(const FileName: string);  
 SaveToFile(const FileName: string);

## 2. Brush

가  
OnChange  
가

□  
Color:TColor  
Color  
Style:TBrushStyle;



Bitmap:TBitmap  
. 8\*8

### 3. Canvas

□  
Display Context . Brush,  
Pen, Font  
LineTo, Circle

(CP) LineTo

□  
PenPos: TPoint;  
MoveTo  
Pixels[X, Y: Longint]: TColor;  
2  
. X,Y

■ ClipRect: TRect;

CopyMode: TCopyMode;  
가  
가 cmSrcCopy  
가  
가

□  
■ procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4:  
Integer);  
. (X1,Y1)-(X2,Y2)  
(X3,Y3),(X4,Y4)  
가  
arc(10,10,100,100,50,50,150,50);



■ procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4:



Integer);

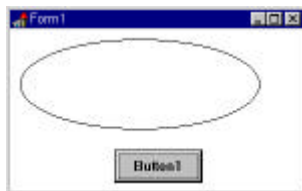
Arc



■ procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);  
 Longint);  
 Chord Arc



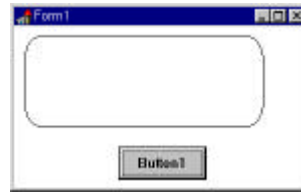
■ procedure Ellipse(X1, Y1, X2, Y2: Integer);  
 (X1,Y1)-(X2,Y2)  
 Ellipse(10,10,250,100);



■ Rectangle(X1, Y1, X2, Y2: Integer);  
 (X1,Y1) (X2,Y2)

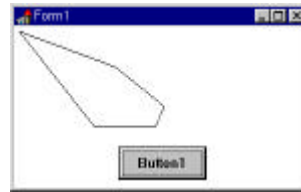
■ RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);  
 가  
 X3,Y3 가

RoundRect(10,10,250,100,10,10);



■ FillRect(const Rect: TRect);  
 ■ procedure FloodFill(X, Y: Integer; Color: TColor; FillStyle: TFillStyle);  
 X,Y Color  
 FillStyle 가 FillBorder  
 Color  
 FsSurface Color 가

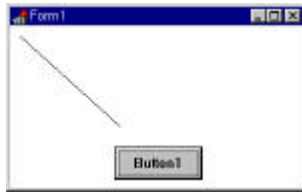
■ procedure Polyline(Points: array of TPoint);  
 PolyLine([Point(5, 5), Point(100, 40), Point(150, 80), Point(140, 100), Point(80, 100), Point(5, 5)]);



■ procedure Polygon(Points: array of TPoint);  
 PolyLine

■ procedure MoveTo(X, Y: Integer);  
 X,Y  
 LineTo

■ procedure LineTo(X, Y: Integer);  
 X,Y  
 MoveTo LineTo (10,10)-(110,100)



```

■ procedure FrameRect(const Rect: TRect);
Rect가

■ procedure DrawFocusRect(const Rect: TRect);
가
.XOR

■ procedure TextOut(X, Y: Integer; const Text: string);
X,Y
■ function TextHeight(const Text: string): Integer;

■ function TextWidth(const Text: string): Integer;

■ procedure TextRect(Rect: TRect; X, Y: Integer; const
Text: string);

■ procedure Draw(X, Y: Integer; Graphic: TGraphic);
X,Y

■ procedure StretchDraw(const Rect: TRect; Graphic:
TGraphic);
Draw

■ procedure CopyRect(Dest: TRect; Canvas: TCanvas;
Source: TRect);
가 . Dest
Canvas
Source
.Canvas
    
```

#### 4. Clipboard



```

cut, copy, paste
.Clipbrd Clipboard 가
Clipboard . AsText
    
```



```
AsText: String;
```

```
가
가
```

```

 Formats[Index: Integer]: Word;
가
FormatCount
    
```



```

■ procedure Assign(Source: TPersistent);
Source 가
MyBitmap
    
```

```
Clipboard.Assign(MyBitmap);
```

```
Assign
```

```
MyBitmap.Assign(Clipboard);
```

```

■ function HasFormat(Format: Word): Boolean;
가
    
```

```
. Format
```

|             |           |
|-------------|-----------|
| CF_TEXT     |           |
| CF_BITMAP   |           |
| CF_METAFILE |           |
| CF_PICTURE  | TPicture. |
| CF_OBJECT   | ( )       |



### 5. Font



HFONT 가



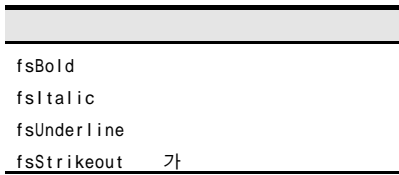
Name: TFontName;

가  
, Times, Arial

Color: TColor;

Style: TFontStyles;

가



Size: Integer;

internal leading 가 Height Size

Height: Integer;

internal leading 가 Size

### 6. Graphic



TBitmap, TIcon, TMetaFile

가가

(TBitmap, TIcon, TMetaFile)

가

TPicture



Empty: Boolean

Height, Width: Integer;



■ procedure LoadFromFile(const FileName: string);

■ SaveToFile(const FileName: string);

### 7. Icon



TICON



Height, Width: Integer;

### 8. IniFile



INI

.INI

가

.INI

var

MyIni: TIniFile;

begin

MyIni := TIniFile.Create('Delphi.Ini');

{ }



```
MyIni.Free;
end;
```

```
TIniFile Create
INI . INI
Free
Section Ident,
Default 가 . Section []
Ident =
Default
```



```
FileName: string;
```

```
TIniFile 가 INI
Create
```



```
■ constructor Create(const FileName: string);
```

```
TIniFile INI
```

```
■ procedure Free;
```

```
TIniFile
```

```
■ function ReadBool(const Section, Ident: string;
```

```
Default: Boolean): Boolean;
```

```
INI
```

```
■ function ReadInteger(const Section, Ident: string;
```

```
Default: Longint): Longint;
```

```
INI
```

```
■ function ReadString(const Section, Ident, Default:
```

```
string): string;
```

```
INI
```

```
■ procedure ReadSection (const Section: string;
```

```
Strings: TStrings);
```

```
INI
```

```
■ procedure WriteBool(const Section, Ident: string;
```

```
Value: Boolean);
```

```
INI
```

```
■ procedure WriteInteger(const Section, Ident: string;
```

```
Value: Longint);
```

```
INI
```

```
■ procedure WriteString(const Section, Ident, Value:
```

```
string);
```

```
INI
```

```
■ procedure EraseSection(const Section: string);
```

```
INI
```

```
■ procedure ReadSectionValues(const Section: string;
```

```
Strings: TStrings);
```

```
INI
```

```
Values
```

## 9. Metafile



```
(WMF )
```



```
Height, Width: Integer;
```

## 10. Pen



```
Width . Color
```



```
Color: TColor
```

```
(clBlack)
```

```
Width: Integer
```

```
1
```

```
Style: TPenStyle
```





psSolid  
 psDash  
 psDot  
 psDashDot  
 psDashDotDot  
 psClear  
 psInsideFrame

Mode: TPenMode;

### 11. Picture



가 Graphic  
 Bitmap  
 Icon  
 metafile



Graphic: TGraphic;  
 가 bitmap,  
 icon, metafile  
 Height, Width: Integer;

### 12. Printer



Printer  
 Printer  
 BeginDoc  
 EndDoc  
 가  
 EndDoc 가  
 가 Abort  
 가

Printing, Aborted Boolean  
 Booleand . Printer  
 가 Canvas  
 가 . Canvas  
 Brush, Font, Pen  
 Canvas AssignPrn  
 Writeln  
 . NewPage



Aborted: Boolean;  
 가 Abort



Printing: Boolean;  
 BeginDoc True가 EndDoc  
 Abort False가



Fonts: TStrings;  
 가 가 가



PageWidth, PageHeight: Integer;

Orientation: TPrinterOrientation;  
 가 (Landscape) (Portrait)



PageNumber: Integer;



Printers: TStrings;  
 PrinterIndex: Integer;  
 가

PrinterIndex

Title: string;

- 
- procedure BeginDoc;
- procedure EndDoc;

가

### 13. StringList

- 
- Strings
- Strings

### 14. Strings

- 
- Strings
- Items
- TStrings
- TListBoxStrings
- TStringList
- 가, , , , 가

- 
- Strings[Index: Integer]: string;
- 가
- 0
- Strings
- Lines
- Lines.Strings[n]
- Lines[n]

- Count: Integer;
- Objects[Index: Integer]: TObject;

가

가

- 
- function Add(const S: string): Integer;
- 가 S가
- 가 가
- . Sorted

가

- procedure Delete(Index: Integer);
- procedure Clear;
- procedure Insert(Index: Integer; const S: string);
- Index 가 S
- procedure Move(CurIndex, NewIndex: Integer);
- CurIndex NewIndex
- 가
- procedure Exchange(Index1, Index2: Integer);
- 가
- function IndexOf(const S: string): Integer;
- S

-1

- procedure AddStrings(Strings: TStrings);
- 가
- 가

### 3.

가

가가



### Align:TAlign;

```

) (
) alNone
.가

```

```

alNone 가
alTop 가
alBottom 가
alLeft 가
alRight 가
alClient 가

```

Align 가

```

alTop 가
가 Alignment

```

### Alignment:TAlignment;

```

Memo 가 가

```



가

```

taLeftJustify
taCenter
taRightJustify

```

Align

### AutoSelect:Boolean;

```

가
가
True
가 False
True

```

### AutoSize:Boolean;

```

True 가 ( )
가 가
가

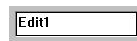
```

### BorderStyle

```

가
bsNone
bsSingle
AutoSize True

```



bsSingle



bsNone

```

가 가
가 가

```

bsDialog 가 가

bsSingle 가

```

가
bsNone 가
가

```

bsSizeable 가 가





clHighlightText  
clBtnShadow  
clGrayText  
clBtnText

clBackground 가  
가  
RGB  
가

Ctl3d:Boolean;

3 가 2  
True 가  
Ctl3D ParentCtl3D  
Ture Ctl3D  
Ctl3D Ctl3D  
ParentCtl3D Ctl3D False가



Cursor:TCursor;

가 가 가



crDefault  
crArrow  
crCross  
crBeam  
crSize  
crSizeNESW  
crSizeNS  
crSizeNWSE  
crUpArrow  
crHourglass



crDrag  
crNoDrop  
crHSplit  
crVsplit



가 Screen Cursors

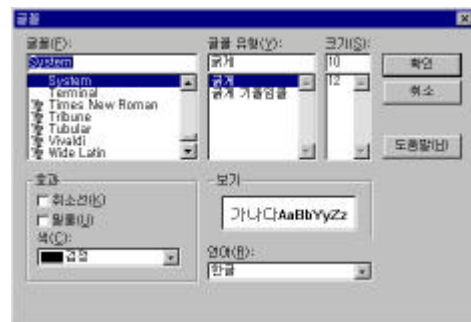
Default:Boolean;

Default Default  
Enter  
Default  
가

Enabled:Boolean;

False True  
False

Font:TFont;



Handle: HWND;

가  
API  
API  
가

Height: Integer;

HideSelection: Boolean;

가  
True  
가  
가

Hint: string;

ShowHint True

Left: Integer;

X

MaxLength: Integer;

0

. 0

Min, Max: Integer;

가 가  
( ) Min 가  
( ) Max 가  
가  
Min 0 Max 100  
가  
0~360 0~100,  
UpDown

Modified: Boolean;

True  
Modified가 False 가

Name: TComponentName;

가

BUTTON1, BUTTON2, ...

" " buttonstart, " "  
buttoncancel

Owner: TComponent;

가

Application 가  
가



**Parent:TWInControl;**

가

**ParentColor:Boolean;**

가  
True  
Color False  
Color False

**PasswordChar:Char;**

가 0

**Popupmenu:TPopupMenu;**

가

**ScrollBars:TScrollStyle;**

가  
가

ssNone

가

ssHorizontal

ssVertical

ssBoth

**ShowAccelChar:Boolean;**

&  
True &  
False & &

**Sorted:Boolean;**

True  
가

**Taborder:TTabOrder;**

Tab  
가 Tab  
Taborder  
가 가  
가  
가 0  
가 1,  
2, 3, ... 가 가  
가  
가 0, 1, 2, 3, 4, 5  
가 5 2 2  
가 0  
가  
가

**Tabstop:Boolean;**

가 Tab 가  
가 Tabstop False  
가 Tab

Tag:Longint;

가

Text:TCaption;

가

Top:Integer;

Y

Transparent:Boolean;

가  
True

Visible:Boolean;

False  
True  
Visible True Show

Width:Integer;

Wordwrap:Boolean;

가  
가 가  
Wordwrap 가  
가  
(Scrollbars )  
가 가  
False Wordwrap