

# **Documentation**

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# makeDoc

Lazarus/Free Pascal project to export documentation lines with tag marker.

**File** : makeDoc.pas

**Date** : 2025-10-06

**Author** : Leandro

**Version** : 1.0.0 / 2025-10-06

**Copyright App** : CC01 1.0 Universal

**Copyright Icons** : Uicons by Flaticon

**Note:** Changes in this document will be discarded on next build, any changes should be made on source code documentation instead.

## Details

Save formatted lines from source code into documentation file.

Read source code line-by-line and save prefixed lines by tag `??D` to file.

C/C++/Free Pascal source codes lines start with tag `//D` and Bash lines start with tag `//D`.

Only those lines started by tags are exported to documentation files.

Mixed commented lines can co-exist at same source code, one for local documentation purpose and another to be exported to appropriate documentation file.

All lines are documented using Markdown format, the exported document can be read by an Markdown program reader.

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## Glossary

### Use Description

Constants : Memory space for read only data.

Variables : Memory space for read/write data.

Functions : fileSOURCE/Executable statement code, can be called anywhere from source code.

Parameters : Data passed to functions.

Result : Functions result after execution.

Return : Always an integer returned from function to inform success or failure.

none : Is similar as a void type, no parameter, no result or no return from function.

string : Char vector to store a group of characters.

type[] : Memory vector space to store contiguous data type.

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### Tags Programming Language Documentation

//D> : C/C++, C#, Java, JavaScript, Pascal/Object Pascal.

//D> : Bash, Zsh, Python, Perl, Ruby, Go, Swift, Kotlin, Rust

--D> : SQL, Ada, Haskell.

"D> : Visual Basic, VBScript.

%%D> : LaTeX, MATLAB.

??E> : End, stop documentation until ??B> tag.

??B> : Begin, start documentation until ??E> tag.

??M> : Macro, evaluate lines to show variables values.

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## Unit makeDoc

## Interface

## Uses

### Name Description

LCLType Key codes

Classes Abstract and concrete classes for object-oriented programming

Forms Creating and managing user interface Forms

Controls Common controls, such as TButton, TEdit, TMemo, TComboBox, and TListBox

Graphics Native graphics classes like TCanvas, TFont, and TBitmap

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Name	Description
Dialogs	Standard dialog components and functions like ShowMessage and dialogs for file opening/saving, color selection, and more
StdCtrls	Standard components like TButton, TLabel, TEdit, TMemo, TCheckBox, and TRadioButton
EditBtn	Edit box with an associated button, is found in the LCLBase unit
SysUtils	Part of the Free Pascal Run-Time Library (RTL)
RegExpr	Working with regular expressions is RegExpr

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## Type

Type	Name	Description
<i>TFormMain</i>	<b>FormMain</b>	Main form application
<i>TButton</i>	<b>btnClose</b>	Button close
<i>TButton</i>	<b>btnAbout</b>	Show about box
<i>TButton</i>	<b>btnRun</b>	Execute documentation procedure
<i>TFileNameEdit</i>	<b>editSource</b>	Source file edit box
<i>TFileNameEdit</i>	<b>editDestine</b>	Destine file edit box
<i>TLabel</i>	<b>lblDestine</b>	Source file static label
<i>TLabel</i>	<b>lblSource</b>	Destine file static label
<i>procedure</i>	<b>btnAboutClick</b>	Treat About button click event
<i>procedure</i>	<b>btnCloseClick</b>	Treat Close button click event
<i>procedure</i>	<b>btnRunClick</b>	Treat Run button click event
<i>procedure</i>	<b>FormShow</b>	Treat form show event

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## Variables

Type	Name	Description
<i>TFormMain</i>	<b>FormMain</b>	Main form application

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## Implementation

### saveHeader( )

*boolean* **saveHeader**( *TextFile* **fd** ) : *string*

Save a formatted html header to parameter file descriptor.

#### Parameter:

*TextFile*: **fd** - Target file descripton.

**Result:**

*string*: HTML header.

**Return:**

*boolean*: **true** - Success

*boolean*: **false** - Error

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## **saveFooter( )**

*boolean* **saveFooter**( *TextFile* **fd** ) : *string*

Save a formatted html footer to parameter file descriptor.

**Parameter:**

*TextFile*: **fd** - Target file descripton.

**Result:**

*string*: HTML footer.

**Return:**

*boolean*: **true** - Success

*boolean*: **false** - Error

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## **btnAboutClick( )**

*boolean* **btnAboutClick**( *TObject* **Sender** ) : *None*

Treat About button click event.

**Parameter:**

*TObject*: **Sender** - Objects and Events from main window.

**Result:**

*TFormMain*: Create and show a formatted about form window.

**Return:**

*None*

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## **btnCloseClick( )**

*boolean* **btnCloseClick**( *TObject* **Sender** ) : *None*

Treat Close button click event.

**Parameter:**

*TObject*: **Sender** - Objects and Events from main window.

**saveHeader( )**

**Result:**

*TFormMain*: End and close main form window.

**Return:**

*None*

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## **btnRunClick( )**

*boolean* **btnRunClick( TObject Sender ) : None**

Treat Run button click event.

**Parameter:**

*TObject*: **Sender** - Objects and Events from main window.

**Result:**

*TFormMain*: Run documentation procedure.

**Return:**

*None*

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## **FormShow( )**

*boolean* **FormShow( TObject Sender ) : None**

Treat form show event.

**Parameter:**

*TObject*: **Sender** - Objects and Events from main window.

**Result:**

*TFormMain*: Prepare main form edit box to load and show current directory.

**Return:**

*None*

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