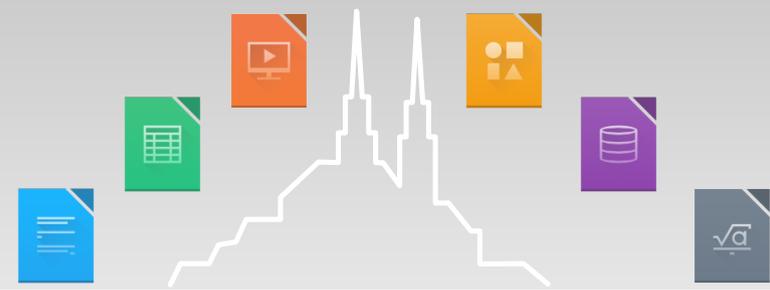


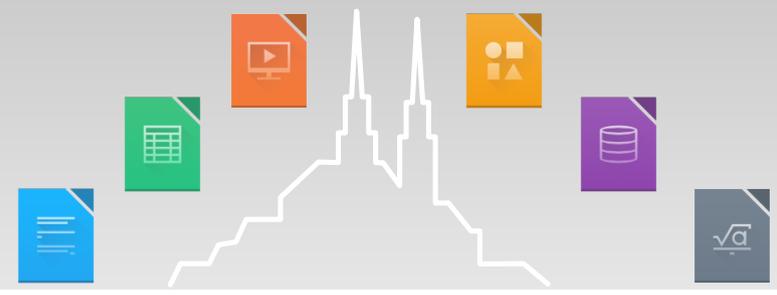
Something About LibreOffice Macros

- Franklin Weng
- Sep. 8, 2016

Before the story begins...

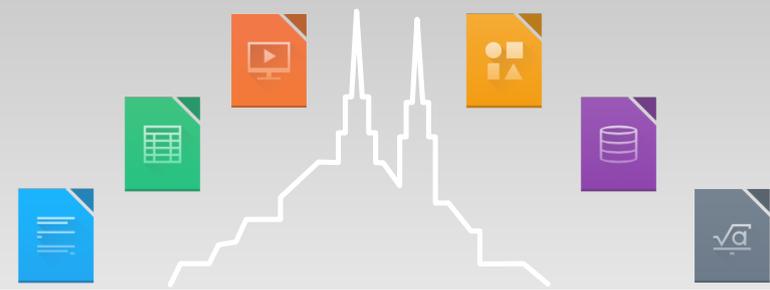


- ▼ This session is **NOT** a technical speech.
- ▼ It is a true story about my experiences.
- ▼ In this story **I'm not criticizing anyone or anything.** I'm just telling you what I experienced, and hope that we can do something to make it better.

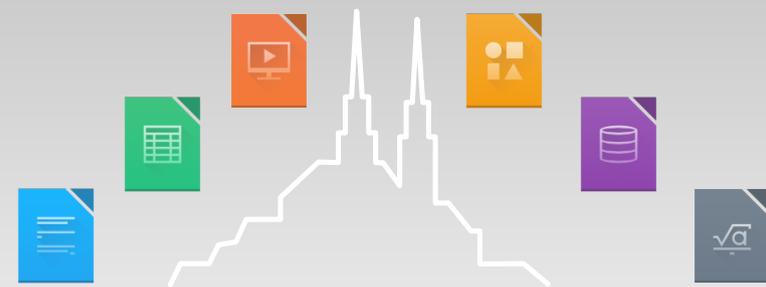


Story Background...

In Taiwan

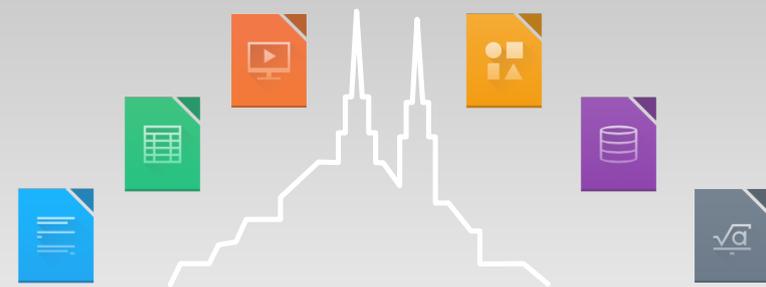


- ▼ People have been deeply bound to Microsoft [95, 98, NT, Office*, Server*, ...] for more than 20 years.
- ▼ People can use Microsoft Office in many, many *incredible* (**Notice: "incredible" sometimes can be pronounced as "ridiculous" as well**) ways.
- ▼ Here are some examples...



000 協會 年 月份業務月報審查分析表													
存款總額					放款總額								
本月底		上月底		增減金額	成長率	本月底		上月底		增減金額	成長率		
-				0		-				0			
存款	項目	金額			占存款比率	放款	項目	金額			占放款比率		
	支票存款 (含保付支票)						一般放款 (無擔保)						
結	活期存款					一般放款 (擔保)							
	活期儲蓄存款					透支							
構	定期存款					統一農貸 (無擔保)							
	定期儲蓄存款					統一農貸 (擔保)							
非會員	員工 (定期) 儲蓄存款					專業放款							
	公庫存款					農業發展基金放款							
合計				-		內部融資							
本月底實收金額	農會上年度決算淨值之10倍			超收金額		催收款項							
合計				-		合計				-			
退票比率	交換票據張數	存款不足 退票張數	退票比率			農地 (農會) 擔保放款				件數:			
			本月	上月	增減比		建築貸款				件數:		
					0.00%	無擔保放款							
存款	項目	活期性	定期性	小計	占存款比率	逾	擔保放款				#DIV/0!		
	農業金庫				-								





全系列計算題目to-weng.xls - LibreOffice Calc

檔案(F) 編輯(E) 檢視(V) 插入(I) 格式(O) 工作表(S) 資料(D) 工具(T) 視窗(W) 說明(H)

文泉驛微米黑

X8

	A	B	C
1	數字練習作		
2			
3	內容包括:二位減二位<借位		
4	備註:		
6	(1)	75	- 56
7	(4)	73	- 69
8	(7)	71	- 44
9	(10)	23	- 17
10	(13)	85	- 66
11	(16)	93	- 36
12	(19)	41	- 14
13	(22)	61	- 49
14	(25)	82	- 77
15	(28)	93	- 66

工作表 3 / 3

UserForm1

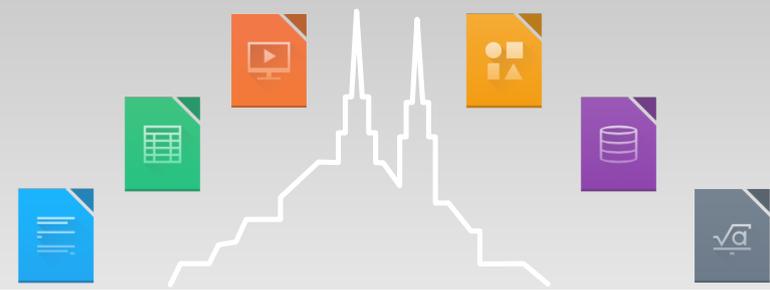
<input type="checkbox"/> 一位加一位(不進... 題	<input type="checkbox"/> 一位減一位(S) 題	<input type="checkbox"/> 單一九九乘法 題	<input type="checkbox"/> 九九乘法的除法(A) 題
<input type="checkbox"/> 一位加一位(進位... 題	<input type="checkbox"/> 10減一位(I) 題	<input type="checkbox"/> 九九乘法 題	<input type="checkbox"/> 兩位除以一位(無餘... 題
<input type="checkbox"/> 二位加一位(不進... 題	<input type="checkbox"/> 二位減一位(不借... 題	<input type="checkbox"/> 二位(尾數0)乘以... 題	<input type="checkbox"/> 兩位除以一位(有餘... 題
<input type="checkbox"/> 二位加一位(進位... 題	<input type="checkbox"/> 二位減一位(借位... 題	<input type="checkbox"/> 二位乘以一位 題	<input type="checkbox"/> 三位除以一位(商沒有0,無餘... 題
<input type="checkbox"/> 二位加二位(不進... 題	<input type="checkbox"/> 二位減二位(不借... 題	<input type="checkbox"/> 二位乘以二位 題	<input type="checkbox"/> 三位除以一位(商中間有0,無... 題
<input type="checkbox"/> 二位加二位(進位,10... 題	<input type="checkbox"/> 二位減二位(借位... 題	<input type="checkbox"/> 三位乘以一位 題	<input type="checkbox"/> 三位除以一位(有餘數) 題
<input type="checkbox"/> 二位加二位(超過1... 題	<input type="checkbox"/> 二位減二位(Y) 題	<input type="checkbox"/> 三位乘以二位 題	<input type="checkbox"/> 三位除以二位(10-29) 題
<input type="checkbox"/> 二位加二位(M) 題	<input type="checkbox"/> 三位減二位(Z) 題	<input type="checkbox"/> 整數乘以小數一位 題	<input type="checkbox"/> 三位除以二位(30-... 題
<input type="checkbox"/> 三位加二位(N) 題	<input type="checkbox"/> 三位減三位 題	<input type="checkbox"/> 小數一位乘以一位 題	<input type="checkbox"/> 三四位除以二位 題
<input type="checkbox"/> 三位加三位(Q) 題	<input type="checkbox"/> 四位減三位 題	<input type="checkbox"/> 小數二位乘以一位 題	<input type="checkbox"/> 三四位(含小數)除以一位 題
<input type="checkbox"/> 小數一位相加(P) 題	<input type="checkbox"/> 小數一位相減 題		<input type="checkbox"/> 三四位(含小數)除以二位 題
<input type="checkbox"/> 整數加小數一位(Q) 題	<input type="checkbox"/> 整數減小數一位 題		
<input type="checkbox"/> 小數兩位加一位(R) 題	<input type="checkbox"/> 小數一位減二位 題		

備註:

送出表單 全數清除

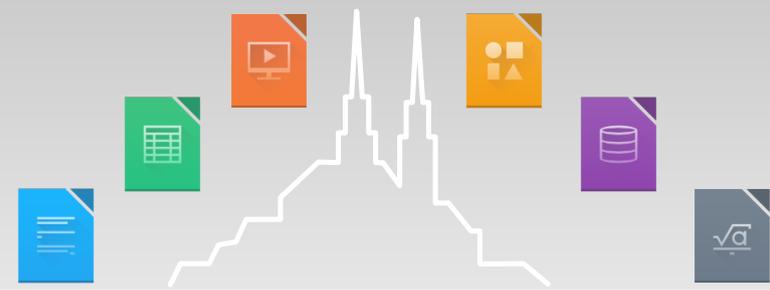


The Story Begins...



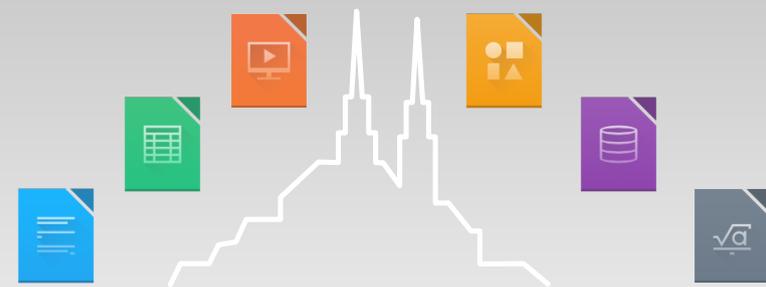
- ▼ Taiwan has launched a three-year project to migrate ODF/LibreOffice in all the governments.
- ▼ Currently, almost all the training courses are for Writer, Calc and Impress.
- ▼ However, there are two important demands but not satisfied yet:
 - ▼ 1. Microsoft Access to **LibreOffice Base**
 - ▼ 2. Microsoft Office Macros to **LibreOffice Macros**

One day...



- ▼ Someone asked me if I can teach writing macros with LibreOffice Basic.
- ▼ I used to write code with Basic (on APPLE II) / Pascal / C / C++ / Perl / PHP / Bash / Csh / , but *not a single line* of LibreOffice Basic (and Visual Basic).
- ▼ "How hard can it be?"

So Many Materials, How Hard Can It Be?



Google libreoffice basic tutorial

全部 影片 新聞 圖片 更多 ▾ 搜尋工具

約有 180,000 項結果 (搜尋時間: 0.45 秒)

[ODF] LibreOffice Basic Programmer's Guide - Ask LibreOffice
<https://ask.libreoffice.org/upfiles/13691375069537243.odt> ▾
This guide provides an introduction to programming with OpenOffice.org **Basic**. To get the most out of this book, you should be familiar with other programming ...

Programming with LibreOffice Basic - LibreOffice Help
https://help.libreoffice.org/Basic/Programming_with_Basic ▾ 翻譯這個網頁
2012年9月13日 - This section describes the **basic** syntax elements of **LibreOffice Basic**. For a detailed description please refer to the **LibreOffice Basic** Guide ...

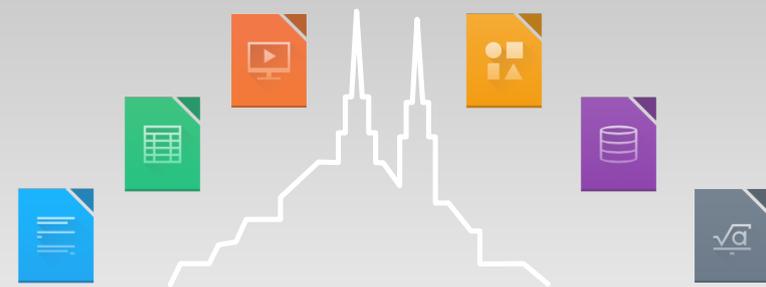
Writing a Macro in LibreOffice Calc - Getting Started - Debug...
www.debugpoint.com/.../writing-a-macro-in-libreoffice-ca... ▾ 翻譯這個網頁
2014年9月12日 - You can use Python or **basic** for your macro development. This **tutorial** focuses on writing a **basic** 'Hello World' macro using **basic** in **LibreOffice** ...

LibreOffice Basic Macro Tutorial Index - DebugPoint.com
www.debugpoint.com/libreoffice-basic-macro-tutorial-ind... ▾ 翻譯這個網頁
This page contains index of all **LibreOffice** **tutorials**, including Calc Macros using **basic** that has been posted in www.debugpoint.com. All the posts have been ...

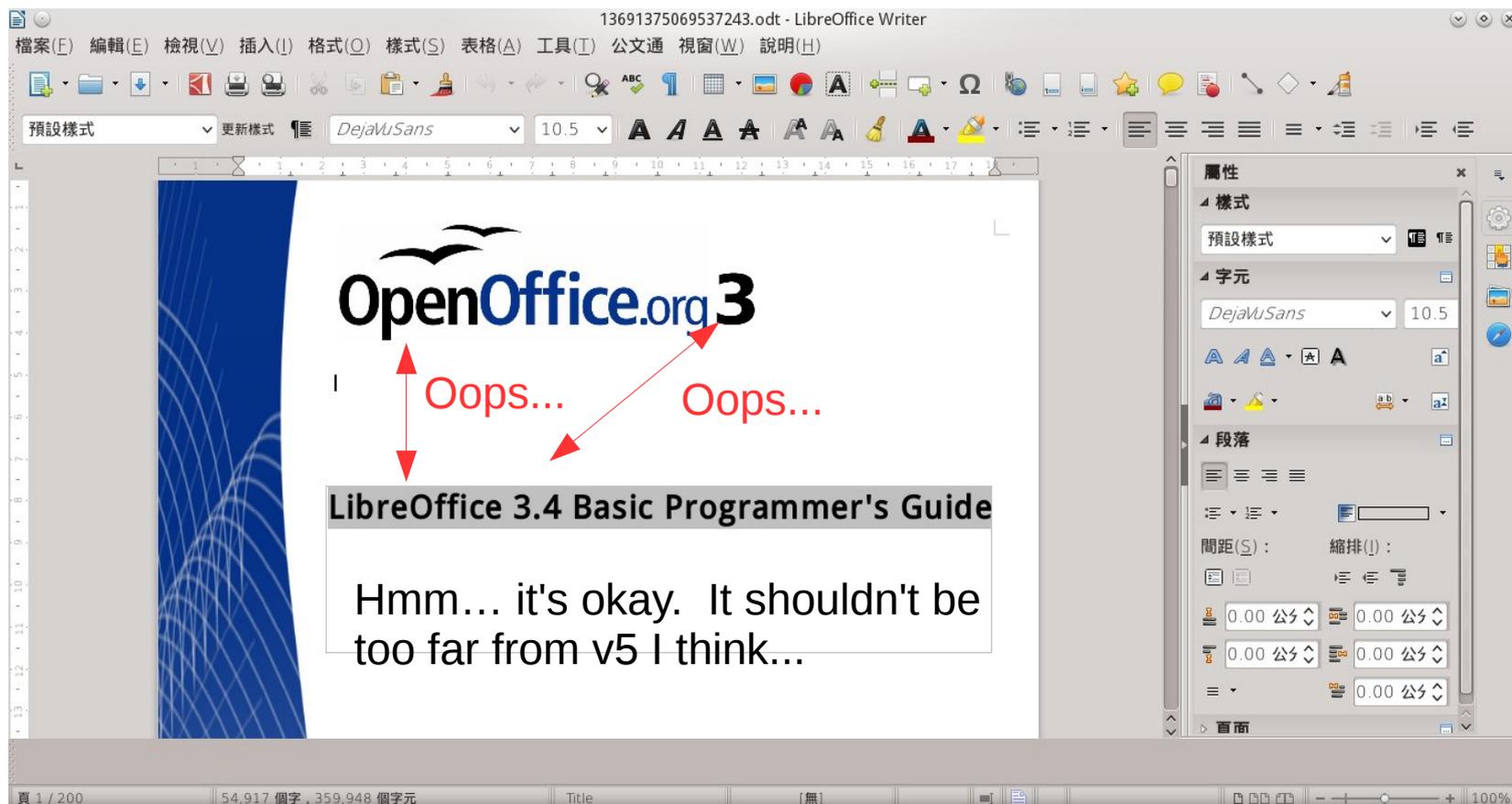
LibreOffice Base (01) Create a Database, Create a Table - Yo...
<https://www.youtube.com/watch?v...> ▾
2013年6月1日 - 上傳者: TheFrugalComputerGuy



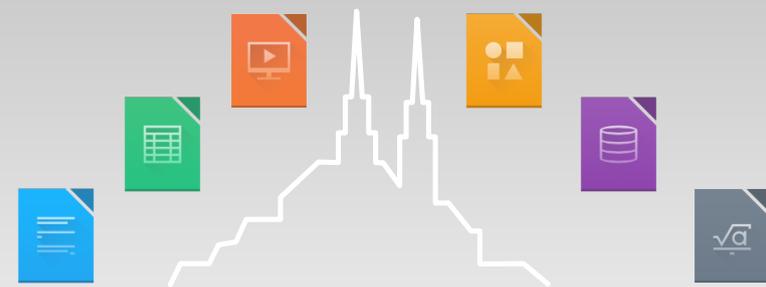
Then I Found...



- ▼ The first document...
 - ▼ An ODT file of LibreOffice Basic Guide



I went on searching...



Programming with LibreOffice Basic - LibreOffice Help - Google Chrome

Programming with x

https://help.libreoffice.org/Basic/Programming_with_Basic

應用程式 | Homepage | 自由軟體 | 線上字典、英文 | Google | 自由教材 | 技術相關 | FreeCorp | 其他 | SLAT | Learn Qt Program | 其他書籤

Programming with LibreOffice Basic

EN | AST | BG | BN | BN-IN | CA | CS | DA | DE | EL | ES | EU | FI | FR | HU | IT | JA | KM | KO | NB | NL | OM | PL | PT | PT-BR | RU | SL | SV | TR | VI | ZH-CN | ZH-TW

This is where you find general information about working with macros and LibreOffice Basic.

目录 [隐藏]

- 1 Basics
- 2 Syntax
- 3 Integrated Development Environment (IDE)
- 4 Event-Driven Macros



Basics

This section provides the fundamentals for working with LibreOffice Basic.

Syntax

This section describes the basic syntax elements of LibreOffice Basic. For a detailed description please refer to the LibreOffice Basic Guide which is available separately.

Integrated Development Environment (IDE)

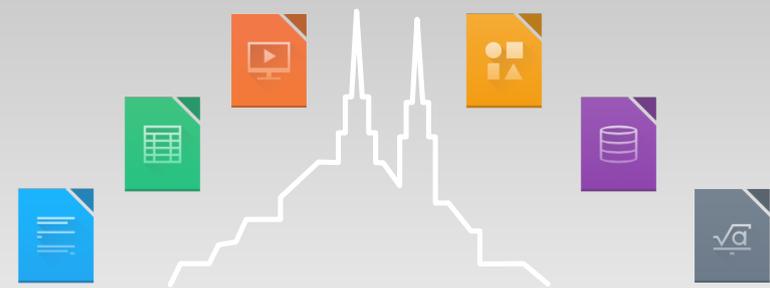
This section describes the Integrated Development Environment for LibreOffice Basic.

Event-Driven Macros

This section describes how to assign Basic programs to program events.

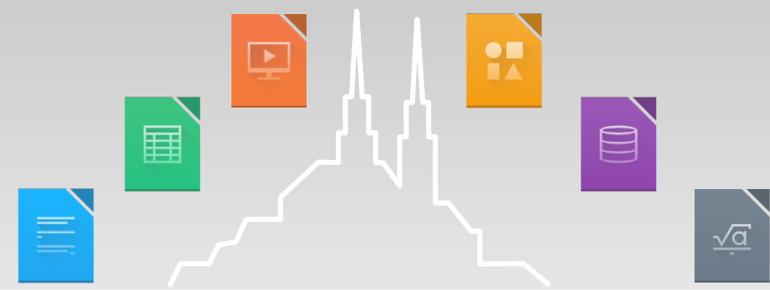


Something useful...



- ▼ **Open Office Basic Programming Guide**
 - ▼ Looked nice. But the last update time was Jan. 2013. Well, okay.
- ▼ **LibreOffice Basic Help**
 - ▼ Dialog? It seemed not what I want.
- ▼ **Writing a Macro in LibreOffice Calc -- Getting Started**
 - ▼ That's it! A basic "Hello World" macro, which filled "Hello World" into a cell in Calc! I finally found it!
- ▼ **Then... How to write a "Hello World" macro in Writer?**
 - ▼ No, not `MsgBox "Hello World!"`.

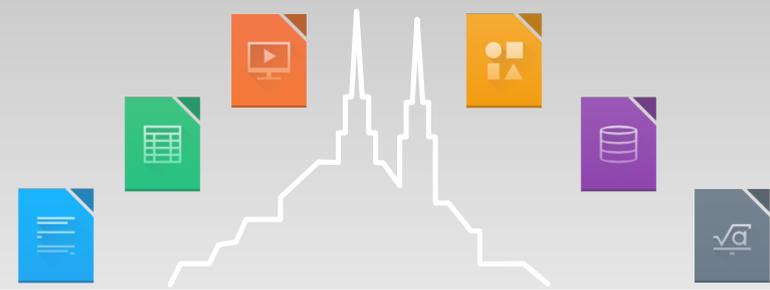
I Started to Feel Frustrated, So I Called For Help...



- ▼ I called a friend who are *very* familiar with Microsoft Office macros and Open Office as well.
- ▼ He gave me an one-line example of LibreOffice Basic running on Writer:

```
ThisComponent.getText.String="Hello World!"
```

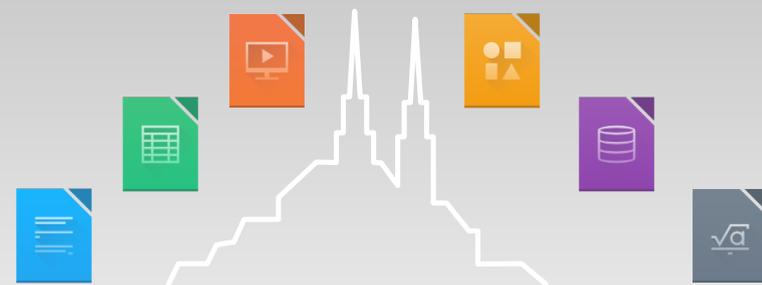
- ▼ *ThisComponent.getText?* Ah, it worked, and that's interesting.
- ▼ Then he gave me a good document:
 - ▼ **Useful Macro Information for Open Office**



- ▼ Then he told me to find and download **XRayTool**.
 - ▼ **Bernard Marcellly web site**
- ▼ I downloaded XRayTool and installed. Then no surprise...
 - ▼ **Failed to run... Orz**
- ▼ After a few debugging, I found the problem --
 - ▼ `StarDesktop` seems no longer a static global object.
 - ▼ I added the following code and it worked:

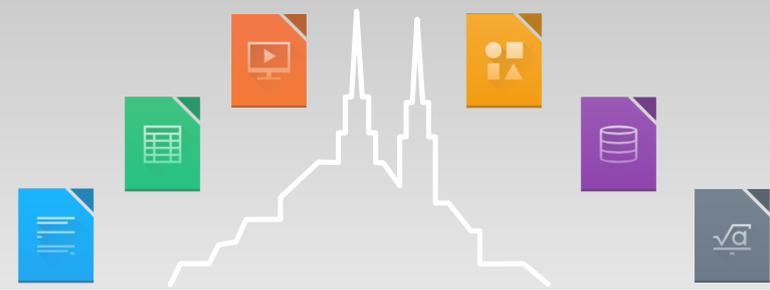
```
Dim StarDesktop As Object
StarDesktop =
createUnoService("com.sun.star.frame.Desktop")
```
- ▼ New XRayTool URL: <http://goo.gl/z68Veb>

After studying for some days...



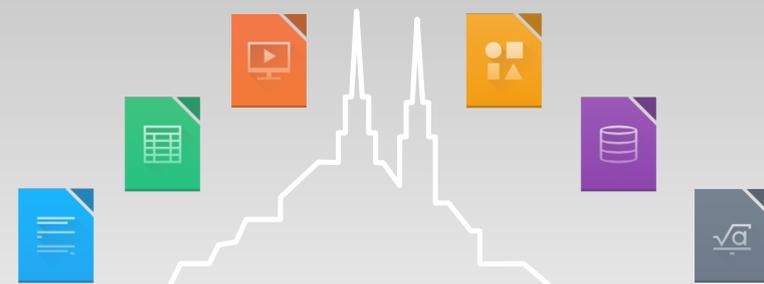
- ▼ With the help of my friend, XRayTool, and some old documents, I started to understand a bit of the structure of the API.
- ▼ However, something was still not run as expected, like the status bar.
- ▼ Besides, so far I still didn't find a way to write a "Hello World" macro **running on Impress**, displaying the universal string on a slide.

What I Wish to Have



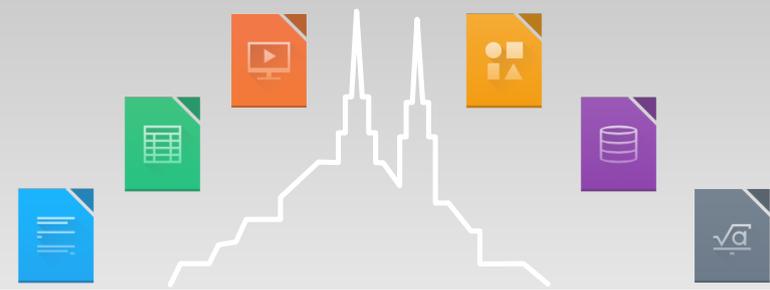
- ▼ A tutorial from the easiest "Hello World" to look deeply into the UNO.
- ▼ **LibreOffice 5.1 Getting Started** mentioned macros in Chapter 13 too. It's new and good, just that in the part of introducing LibreOffice Basic I still feel it running "too fast".

What I'm Doing Now

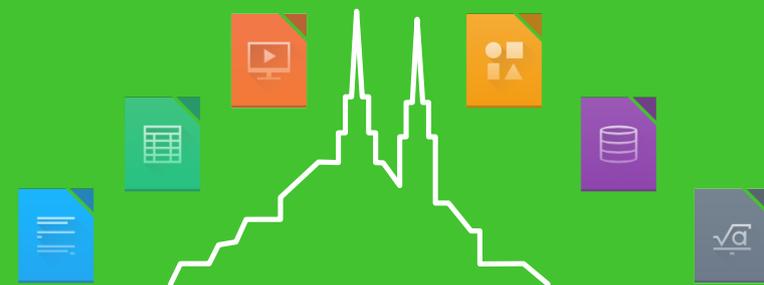


- ▼ Now I'm writing a tutorial for LibreOffice Macros
 - ▼ From the simplest "Hello World" Basic program **running on Writer, Calc and Impress and compare their differences.**
 - ▼ Several common examples to tell users how to write macros in different applications.
 - ▼ How to rewrite the Microsoft Office macros in both Basic and Python.
- ▼ But...
 - ▼ Yes, it's written in Traditional Chinese.
 - ▼ Progress: less than 10%... (sigh)
 - ▼ URL: <https://goo.gl/ZcA9Pn>

Conclusion



- ▼ **Macro is an essential part** for migrating LibreOffice in Taiwan.
- ▼ The current documents are old ones, and **not easy and simple enough for users** with little programming experiences, (or experienced programmers without any experience of Visual Basic like me...)
- ▼ It's been a long time without new tutorials or documents for LibreOffice macros until LibreOffice 5.1 Getting Started published, though it's somehow still a bit "running to fast."
- ▼ I'd like to change this so that we can promote LibreOffice more smoothly and deeply.



Thank you
~~for using this template!~~
for coming to this session.

**Anyone wants to
join me?**



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