

# Lesson 7

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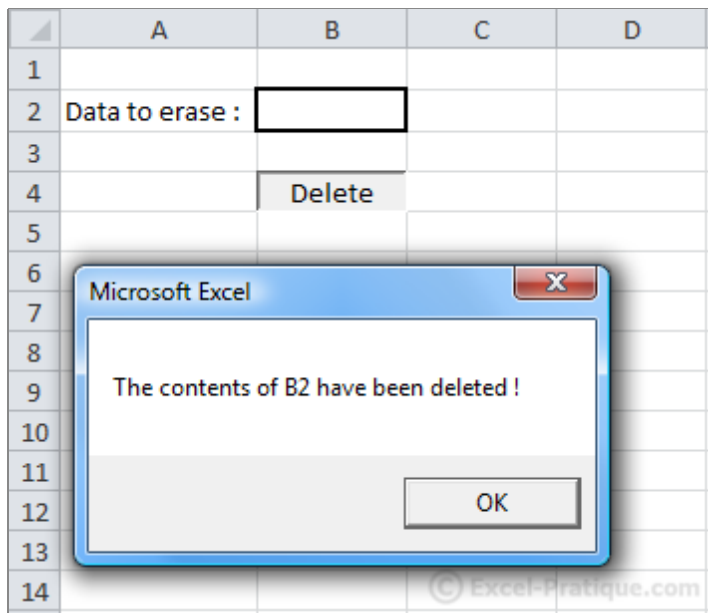
MsgBox :

Until now, we have only used **MsgBox** dialog boxes to display information :

```
Sub delete_B2()  
    Range("B2").ClearContents  
    MsgBox "The contents of B2 have been deleted !"  
End Sub
```

In this case, **MsgBox** is called with only one argument.

See code below :



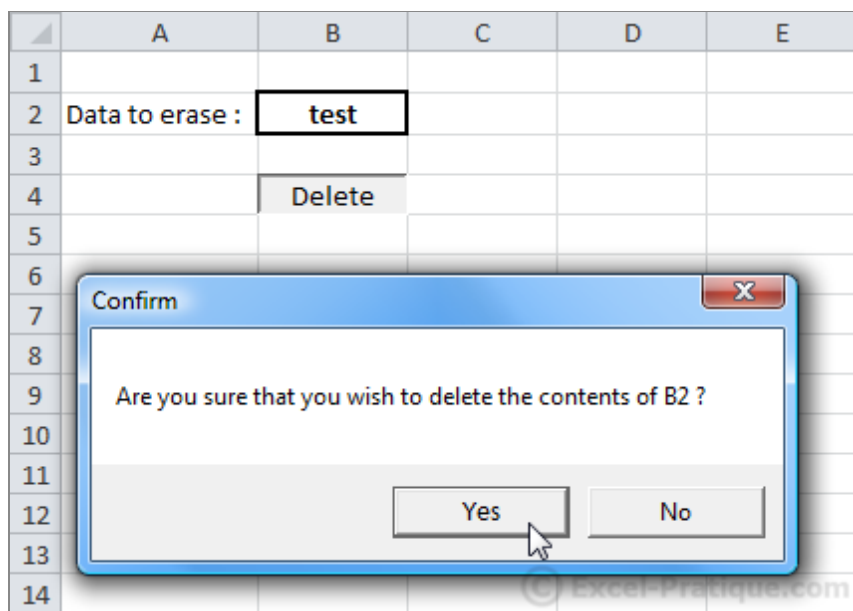
We will now create a dialog box that asks us to confirm the deletion before the two instructions are carried out. Here are the three arguments that we will use :

```
MsgBox([TEXT], [BUTTONS], [TITLE])
```

- **Text** : the dialog box text
- **Buttons** : choice of buttons (yes, no, cancel, etc.) + other options
- **Title** : dialog box title

```
Sub delete_B2()  
    If MsgBox("Are you sure that you wish to delete the contents of B2 ?", vbYesNo,  
"Confirm") = vbYes Then  
        Range("B2").ClearContents  
        MsgBox "The contents of B2 have been deleted !"  
    End If  
End Sub
```


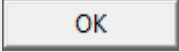
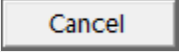
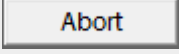
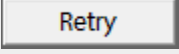
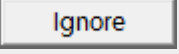
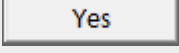
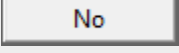
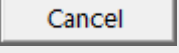
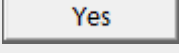
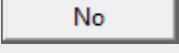
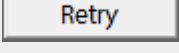
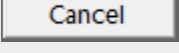




The result :



**vbYesNo** indicates that the dialog box buttons are "Yes" and "No", and **vbYes** represents the "Yes" button :

```
If MsgBox("Text", vbYesNo, "Title") = vbYes Then 'If the Yes button is clicked ...
```

The different ways to use the second argument with MsgBox :

Constant	Numerical Value	Description
vbOKOnly	0	
vbOKCancel	1	 
vbAbortRetryIgnore	2	  
vbYesNoCancel	3	  
vbYesNo	4	 
vbRetryCancel	5	 
vbCritical	16	
vbQuestion	32	
vbExclamation	48	
vbInformation	64	
vbDefaultButton1	0	Default button : Button 1
vbDefaultButton2	256	Default button : Button 2
vbDefaultButton3	512	Default button : Button 3
vbApplicationModal	0	Forces the user to provide an answer before continuing to use Excel
vbSystemModal	4096	Forces the user to provide an answer before continuing to use any program on the computer (dialog box in foreground)

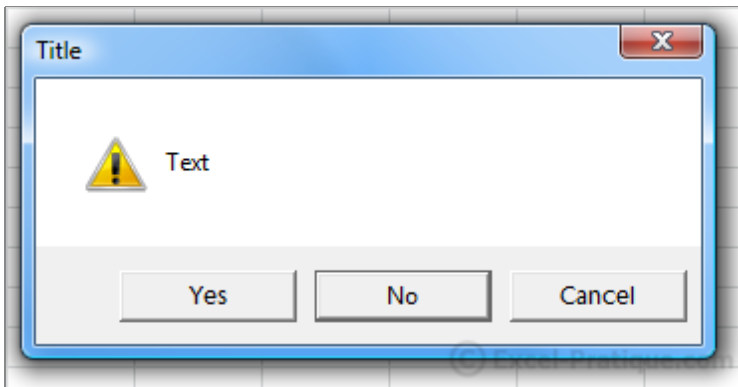
The default value is 0.

The second argument that we use with **MsgBox** have up to one value from each of the separate sections of the table immediately above.

For example, for a dialog box that contains "Yes, No, Cancel" + the exclamation symbol + Default Button 2 :

```
MsgBox("Text", vbYesNoCancel + vbExclamation + vbDefaultButton2, "Title")
```

See result below :



In place of these constants, we can also use their respective numerical values. For example, the following three lines of code are identical in effect :

```
MsgBox("Text", vbYesNoCancel + vbExclamation + vbDefaultButton2, "Title")
MsgBox("Text", 3 + 48 + 256, "Title")
MsgBox("Text", 307, "Title")
```

The values returned by MsgBox :

Constant	Numerical Value	Button that corresponds to the numerical value
vbOK	1	<input type="button" value="OK"/>
vbCancel	2	<input type="button" value="Cancel"/>
vbAbort	3	<input type="button" value="Abort"/>
vbRetry	4	<input type="button" value="Retry"/>
vbIgnore	5	<input type="button" value="Ignore"/>
vbYes	6	<input type="button" value="Yes"/>
vbNo	7	<input type="button" value="No"/>

Here is an example of a **MsgBox** that will continue to pop up in a loop until the user clicks Yes :

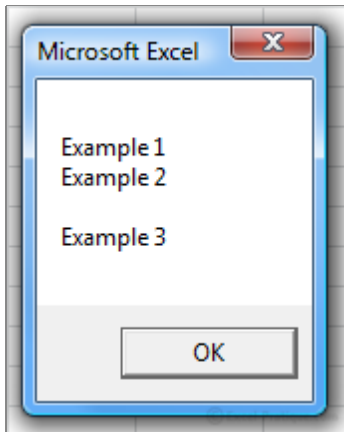
```
Sub humor()
  Do
    If MsgBox("Do you like the Excel-Pratique site ?", vbYesNo, "Survey") = vbYes Then
      Exit Do ' => Yes response = Yes we exit the loop
    End If
  Loop While 1 = 1 ' => Infinite loop
  MsgBox ";-)"
End Sub
```

## Line breaks in a MsgBox :

For a carriage return, you can insert the "line break" character using the **Chr** function and the number 10, which represents the line break, for example :

```
MsgBox "Example 1" & Chr(10) & "Example 2" & Chr(10) & Chr(10) & "Example 3"
```

See result below :

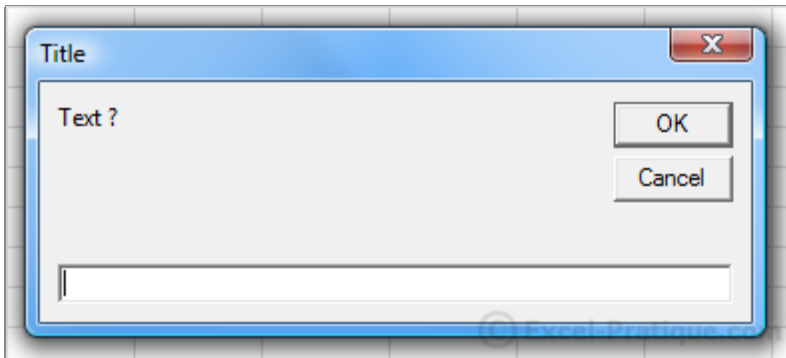


InputBox :

**InputBox** asks the user to enter a value in a dialog box, for example :

```
Sub example()  
    Dim result As String  
  
    result = InputBox("Text ?", "Title") 'The variable is assigned the value entered in the  
    InputBox  
  
    If result <> "" Then 'If the value anything but "" the result is displayed  
        MsgBox result  
    End If  
End Sub
```

See result below :



The third argument can be used to set a default value :

```
InputBox("Text ?", "Title", "Default value")
```

See result below :

