

How to check if workbook is open in VBA?

Authored by
stats writer

November 18, 2025

RECOMMENDED CITATION

stats writer (2025). *How to check if workbook is open in VBA?*. PSYCHOLOGICAL SCALES.
Retrieved from <https://scales.arabpsychology.com/?p=95676>

Introduction: The Necessity of Checking Workbook Status in VBA

When developing robust automation solutions using VBA (Visual Basic for Applications), it is absolutely essential to incorporate mechanisms for handling potential runtime errors gracefully. One of the most common requirements in complex Excel automation involves determining whether a specific Workbook file is already active and open within the current Excel application environment. Attempting to manipulate, save, or open a file that is already active or exclusively locked can lead to runtime errors (such as Error 1004) or unexpected behavior, potentially causing the entire script to halt or corrupting crucial data. Therefore, before initiating critical operations--like trying to open a file--your code must first perform a preemptive check to confirm the file's status, ensuring smooth execution and allowing for specific error messages or alternative processing paths if the file is found to be already in use.

This capability is crucial, especially in scenarios where your automation Macro interacts with multiple external data sources, particularly files residing on a network drive or within a shared resource environment. If the target workbook is already open by another process or user, a simple `Workbooks.Open` command will fail, resulting in an unhandled error unless specific measures are taken. By utilizing the structured approach detailed below, which leverages Excel's built-in object model and strategic error handling, you can reliably check the status of any specified workbook based solely on its file name, providing the foundation for highly stable and efficient automation scripts.

The Core Technique: Leveraging the Workbooks Collection Item Property

The most reliable and standard technique for programmatically checking the open status of a workbook involves interacting with the Workbook collection inherent to the Excel Application object. This collection contains references to all workbooks currently loaded and residing in the active Excel session. The method centers on attempting to access the specific workbook using the collection's `Item` property, supplying the exact file name (e.g., "Monthly_Report.xlsx") as the key. If the workbook is open, the collection successfully returns a reference to that Workbook object; conversely, if it is closed, the attempt to access it normally generates a run-time error because the specified item does not exist within the collection.

To prevent the application from halting when this anticipated error occurs (the file not being found), we must strategically suspend standard VBA error handling for the single line of code responsible for the object access. This is achieved using the On Error Resume Next statement. This statement allows the code to continue execution even if the workbook is not found, ensuring that the object variable dedicated to holding the workbook reference is automatically set to `Nothing`. We then check if the object variable holds a valid reference or if it is `Nothing`. This combination of attempting access under controlled error suppression provides a clean, robust, and efficient way to

confirm the workbook's status.

Implementing the Dynamic VBA Workbook Check Macro

The following Macro provides the necessary implementation details to perform this check dynamically. It begins by prompting the user for the name of the workbook they wish to verify. It is essential to understand the roles of variable declaration and the specific placement of error handling, as these are foundational elements that ensure the procedure functions correctly and reliably in any production environment.

Sub CheckWorkbookOpen()

```
Dim resultCheck As Boolean
```

```
Dim wb As Workbook
```

```
Dim specific_wb As String
```

```
On Error Resume Next
```

```
specific_wb = InputBox("Check if this workbook is open:")
```

```
Set wb = Application.Workbooks.Item(specific_wb)
```

```
resultCheck = Not wb Is Nothing
```

```
If resultCheck Then
```

```
MsgBox "Workbook is open"
```

```
Else
```

```
MsgBox "Workbook is not open"
```

```
End If
```

```
End Sub
```

Upon execution, this procedure first declares several variables: `resultCheck` is declared as a Boolean to store the final True/False outcome; `wb` is declared as a Workbook object variable used to hold the reference; and `specific_wb` is declared as a String to capture the file name provided by the user via the input box. The critical line, On Error Resume Next, ensures that if the workbook name provided by the user is not found in the open workbooks collection (which would normally trigger an error), the program does not stop but instead continues running to the next line.

The core validation logic is processed by the line `Set wb = Application.Workbooks.Item(specific_wb)`. If the specified item is present in the collection, the object variable `wb` is set successfully. If the item is missing (meaning the workbook is closed), the error handler prevents the script from crashing, and `wb` remains unassigned, effectively holding

the value of ``Nothing``. The state is then evaluated by the line ``resultCheck = Not wb Is Nothing``. If ``wb`` is `*not* `Nothing``, ``resultCheck`` becomes `True` (workbook is open); otherwise, it is `False` (workbook is closed). The procedure concludes by displaying the relevant status message using an ``If...Then...Else`` block based on the boolean result.

Step-by-Step Execution and Result Interpretation

When this structured procedure is initiated, the user is immediately presented with an input box where they must carefully provide the full file name of the workbook they intend to verify. It is paramount that the user enters the exact file name, including the proper file extension (e.g., `` .xlsx``, `` .xlsm``), as the ``Workbooks.Item`` property requires a precise, case-sensitive match against the file names currently loaded into the application's memory. Following the processing of the input, the output is restricted to one of two potential outcomes, which are clearly communicated to the user via a simple message box:

Workbook is open

Workbook is not open

This immediate feedback mechanism ensures minimal disruption to the user's workflow and makes the check ideal for integration into larger, sequential scripts where a quick status verification is necessary before proceeding with resource-intensive operations such as opening a large file or initiating data synchronization tasks.

Case Study: Verification of an Active Workbook

To fully illustrate the macro's functional capability, consider a typical automation scenario where several files might be active concurrently. For this demonstration, let us assume that two Excel workbooks are currently opened in the Excel application instance:

my_workbook1.xlsx

my_workbook2.xlsx

Our primary goal is to use the VBA code to programmatically confirm that the file named **my_workbook1.xlsx** is indeed active within the Excel application. We will utilize the identical macro structure previously introduced, which is optimally designed for this dynamic query process, without needing to modify the core logic for different file names.

We rely on the standard code structure which includes the critical application of On Error Resume Next to safely handle the absence of a file. The advantage of this setup is its flexibility, allowing the same routine to be reused instantly for verifying the presence of any file name we specify through

the input prompt.

Sub CheckWorkbookOpen()

```
Dim resultCheck As Boolean
```

```
Dim wb As Workbook
```

```
Dim specific_wb As String
```

```
On Error Resume Next
```

```
specific_wb = InputBox("Check if this workbook is open:")
```

```
Set wb = Application.Workbooks.Item(specific_wb)
```

```
resultCheck = Not wb Is Nothing
```

```
If resultCheck Then
```

```
MsgBox "Workbook is open"
```

```
Else
```

```
MsgBox "Workbook is not open"
```

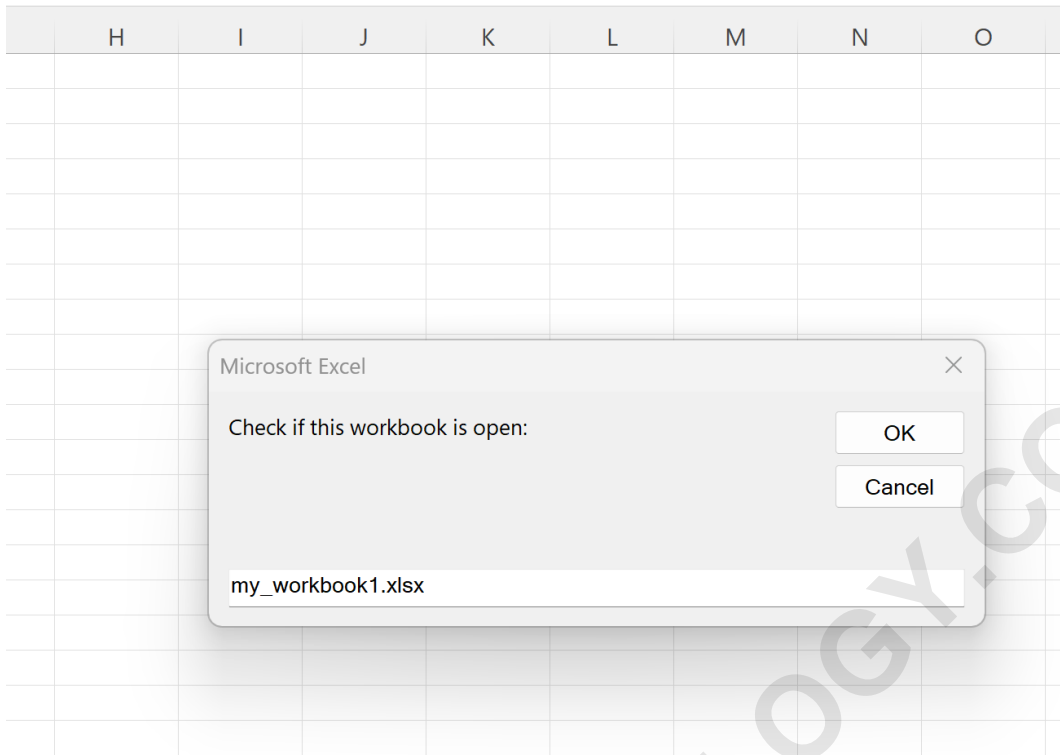
```
End If
```

```
End Sub
```

After the code is compiled and executed, the input box will appear. Since we are successfully testing for the open status of the first file, we carefully enter the exact file name, **my_workbook1.xlsx**, into the prompt provided by the input box functionality.

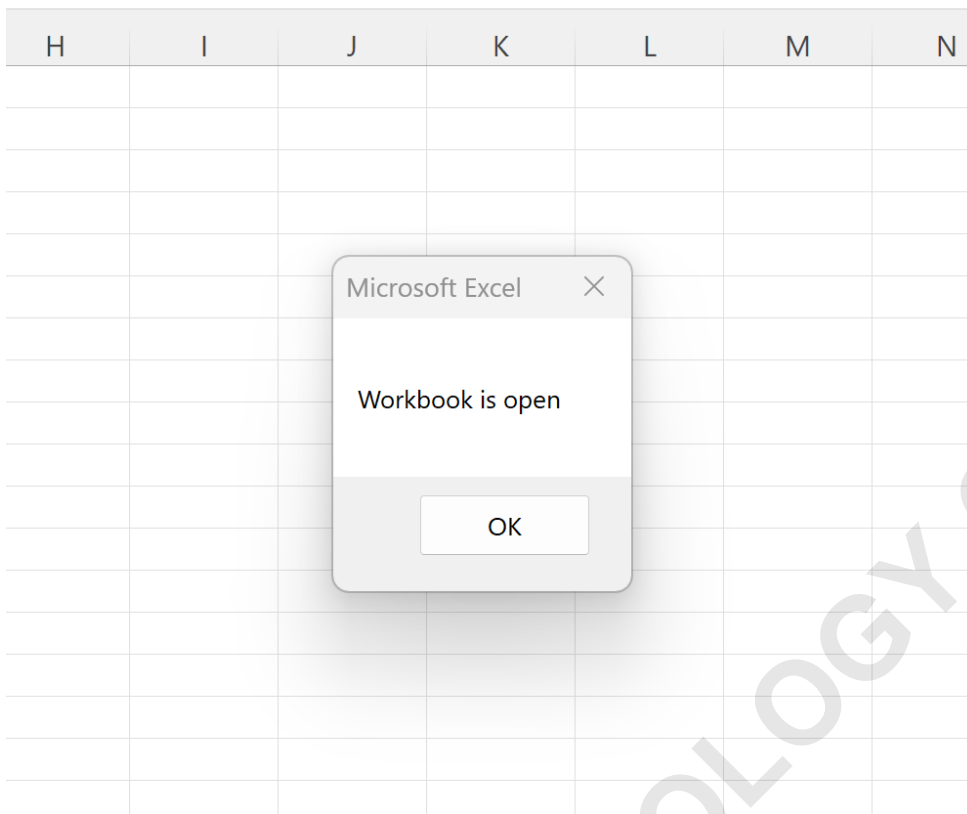
Demonstration of Verification Success (File Found)

Upon initiating the Macro, the input dialogue box prompts for the target file name. We accurately type the full name of the open file, **my_workbook1.xlsx**, ensuring that the input precisely matches the open file's name, including correct capitalization and the file extension. This action is visually represented below:



Once the file name is submitted by clicking **OK**, the VBA procedure attempts to retrieve the object reference. Because **my_workbook1.xlsx** is genuinely open and registered within the Excel application, the ``Set wb = ...`` command successfully assigns the object reference to the ``wb`` variable. Consequently, the conditional check ``Not wb Is Nothing`` evaluates to True, indicating a successful find.

The macro then proceeds to execute the ``If`` block corresponding to the True result, generating the desired message box that confirms the file's current status. This successful verification confirms the fundamental reliability of using the combination of the ``Application.Workbooks.Item()`` method and strategic error handling for object checking in complex Excel environments.

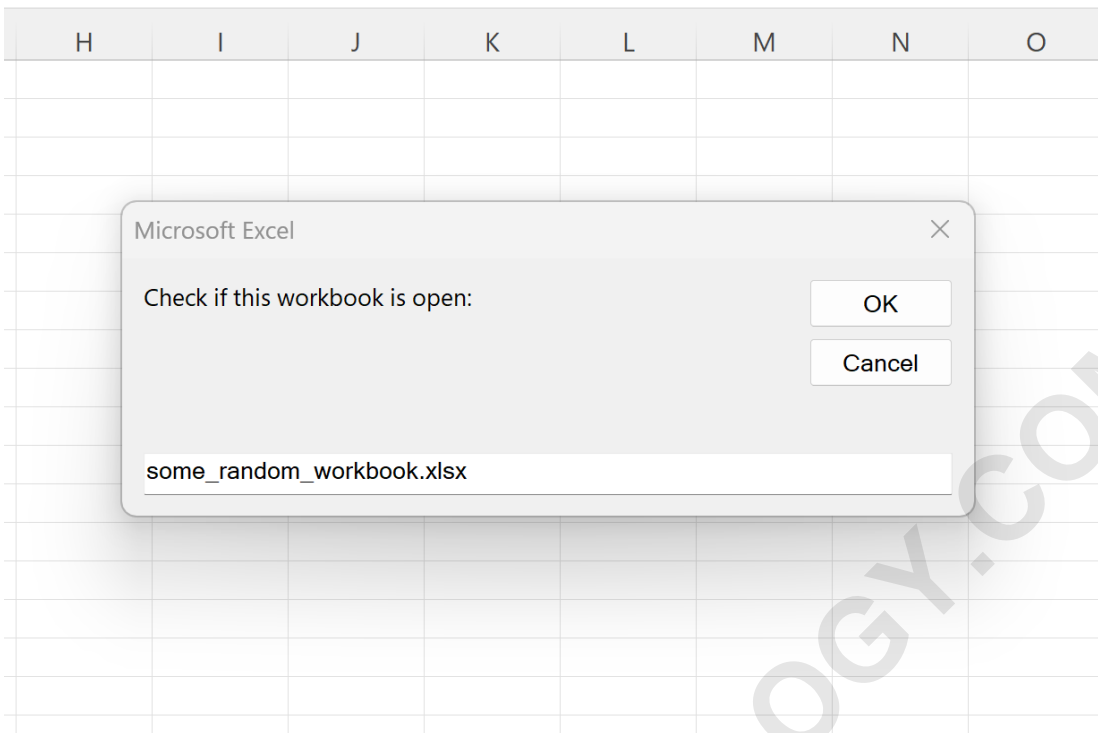


The clear output, "Workbook is open," provides definitive and immediate confirmation that the workbook with the specified name is currently loaded and accessible within the Excel session memory.

Demonstration of Verification Failure (File Not Found)

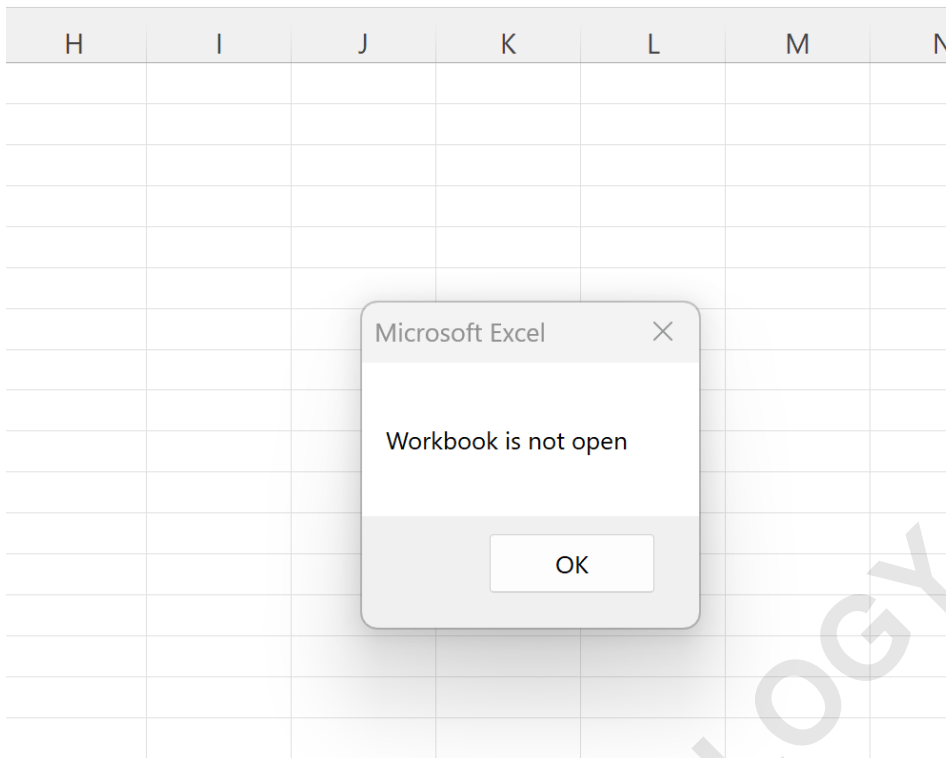
It is equally important to test the scenario where the target file is not open, ensuring our error handling is effective. Suppose we run the same Macro again, but this time we input the name of a file that is not currently active, such as **my_workbook_closed.xlsx**. This test validates the core function of the On Error Resume Next implementation and the subsequent `Is Nothing` conditional check.

When prompted by the input box, we supply the name of the nonexistent open file:



Upon clicking **OK**, VBA attempts to retrieve the item using `Application.Workbooks.Item("my_workbook_closed.xlsx")`. Since this file is not found in the open Workbook collection, a runtime error is generated internally. Because we previously activated On Error Resume Next, the code gracefully ignores the error interrupt, and the `wb` object variable fails to be instantiated, remaining set to the default value of `Nothing`.

The crucial check, `resultCheck = Not wb Is Nothing`, therefore evaluates to False. The code executes the `Else` block, producing the corresponding failure message, as intended.



This negative result confirms that the macro correctly outputs "Workbook is not open," proving the method handles both success and failure cases reliably, preventing script failure and enabling controlled workflow decisions within larger automation projects.

Conclusion and Best Practices for Workbook Management

The methodology of using `Application.Workbooks.Item()` coupled with controlled error handling is the definitive standard for quickly determining if a workbook is open in VBA. While the demonstrated macro is functional, developers seeking maximum robustness should always adhere to certain best practices. Most critically, when you use On Error Resume Next, it remains active for all subsequent code lines until explicitly turned off. For highly stable code, it is strongly recommended to insert the statement `On Error GoTo 0` immediately after the line that might fail (i.e., after the `Set wb = ...` line) to restore standard error handling functionality. This prevents potential silent errors in later parts of your procedure that rely on default error signaling.

Furthermore, for large-scale automation, converting this logic into a dedicated, reusable function is highly beneficial. A function that accepts the workbook name as an argument and returns a Boolean value (True if open, False if closed) simplifies complex workflows, allowing the check to be performed cleanly at multiple points in your Macro project without repetition of code. By prioritizing encapsulated functions and disciplined error handling management, you can build reliable automation solutions capable of navigating complex file dependencies efficiently.