VBA CHEAT SHEETS

SHEETS

Description	VBA Code
Activate by Tab Name	Sheets("Input").Activate
Activate by VBA Code Name	Sheet1.Activate
Activate by Index Position	Sheets(1).Activate
Next Sheet	ActiveSheet.Next.Activate
Get ActiveSheet	MsgBox ActiveSheet.Name
Select Sheet	Sheets("Input").Select
Set to Variable	Dim ws as Worksheet Set ws = ActiveSheet
Name / Rename	ActiveSheet.Name = "NewName"
Add Sheet	Sheets.Add
Add Sheet and Name	Sheets.Add.Name = "NewSheet"
Add Sheet to Variable	Dim ws As Worksheet Set ws = Sheets.Add
Copy Sheet	Sheets("Sheet1").Copy Before:=Sheets("Sheet2")
Hide Sheet	Sheets("Sheet1").visible = False or Sheets("Sheet1").visible = xlSheetHidden
Unhide Sheet	Sheets("Sheet1").Visible = True or Sheets("Sheet1").Visible = xlSheetVisible
Very Hide Sheet	Sheets("Sheet1").Visible = xlSheetVeryHidden
Delete Sheet	Sheets("Sheet1").Delete
Clear Sheet	Sheets("Sheet1").Cells.Clear
Unprotect (No Password)	Sheets("Sheet1").Unprotect
Unprotect (Password)	Sheets("Sheet1").Unprotect "Password"
Protect (No Password)	Sheets("Sheet1").Protect
Protect (Password)	Sheets("Sheet1").Protect "Password"
Protect but Allow VBA Access	Sheets("Sheet1").Protect UserInterfaceOnly:=True

CELLS & RANGES

Description	VBA Code
Activate Cell	Range("B3").Activate Cells(3,2).Activate
Select Range	Range("a1:a3").Select Range(Range("a1"), Range("a3")).Select Range(Cells(1, 1), Cells(3, 1)).Select
Resize	Range("B3").Resize(2, 2).Select
Offset	Range("B3").Offset(2, 2).Select
Copy	Range("A1:B3").Copy Range("D1")
Cut	Range("A1:B3").Cut Range("D1")
Delete	Range("A1:B3").Delete Range("A1:B3").Delete shift:=xlShiftToLeft
Clear	Range("A1:A3").Clear Range("A1:A3").ClearContents Range("A1:A3").ClearFormat
Count	Range("A1:A3").Count
Set to Variable	Dim rng as Range Set rng = Range("A1")
Merge/UnMerge	Range("A1:A3").Merge Range("A1:A3").UnMerge
Loop Through Cells	Dim cell As Range For Each cell In Range("A1:C3") MsgBox cell.Value Next cell

COLUMNS

Description	VBA Code
Activate	Columns(1).Activate Columns("a:a").Activate Range("a1").EntireColumn.Activate
Height / Width	Range("A1").EntireColumn. ColumnWidth = 30
Delete	Range("A1").EntireColumn.Delete
Count	Range("A1").Columns.Count
Insert	Range("A1").EntireColumn.Insert
Last	dim lCol as long lCol = Cells(1, Columns.Count).End (xlToLeft).Column
Copy	Range("A:A").Copy Range("E:E")
Insert	Range("A:A").Copy Range("E:E").Insert

WORKBOOKS

Description	VBA Code
Activate	Workbooks("Book1").Activate
Activate First Opened	Workbooks(1).Activate
Activate Last Opened	Workbooks(Workbooks.Count).Activate
Get activate Workbook	MsgBox ActiveWorkbook.Name
Get ThisWorkbook (containing VBA Code)	MsgBox ThisWorkbook.Name
Add	Workbooks.Add
Add to Variable	Dim wb As Workbook Set wb = Workbooks.Add
Open	Workbooks.Open("C:\example.xlsm")
Open to Variable	Dim wb As Workbook Set wb = Workbooks.Open("C:\example.xlsm")
Close	Workbooks("Book1").Close SaveChanges:=False Workbooks("Book1").Close SaveChanges:=True
Save	Workbooks("Book1").Save
Save As	Workbooks("Book1").SaveAs strFileName
Protect/ Unprotect	Workbooks(1).Protect "password" Workbooks(1).Unprotect "password"
Set to Variable	Dim wb as Workbook Set wb = Workbooks("Book1")
Loop Through All Workbook in Workbooks	Dim wb As Workbook For Each wb In Workbooks MsgBox wb.Name Next wb

Check Exists	If Dir("C:\Book1.xlsx") = "" Then
	MsgBox "File does not exist."
	EndIf

Copy Closed	FileCopy "C:\file1.xlsx","C:\file2.xlsx"

ROWS

Description	VBA Code
Activate	Rows(1).Activate Rows("1:1").Activate Range("a1").EntireRow.Activate
Height / Width	Range("A1").EntireRow.RowHeight = 30
Delete	Range("A1").EntireRow.Delete
Count	Range("A1").Rows.Count
Insert	Range("A1").EntireRow.Inser
Last	dim lRow as long lRow = Cells(Rows.Count, 1).End(xlUp).Row
Copy	Range("1:1").Copy Range("5:5")
Insert	Range("1:1").Copy Range("5:5").Insert

ERRORS

Description	VBA Code
On Error – Stop code and display error	On Error Goto 0
On Error – Skip error and continue running	On Error Resume Next
On Error – Go to a line of code [Label]	On Error Goto [Label]
Clears (Resets) Error	On Error GoTo -1
Show Error number	MsgBox Err.Number
Show Description of error	MsgBox Err.Description
Function to generate own error	Err.Raise

FILES

Description	VBA Code
Copy File	FileCopy "C:\test\test_old.xlsx", "C:\test\test_new.xlsx"
Delete File	Kill "C:\test\example.xlsx"
Make Folder	MkDir "C:\test\"
Delete All Files From Folder	Kill "C:\test\" & "*.*"
Delete Folder	Kill "C:\test\" & "*.*" RmDir "C:\test\"
Current Directory	strPath = CurDir()
ThisWorkbook Path	strPath = ThisWorkbook.Path
Loop Through All Files in Folder	strFile = Dir("C:\test" & "*") Do While Len(strFile) > 0 Debug.Print strFile strFile = Dir Loop

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SETTINGS

Description	VBA Code
Screen Updating	Application.ScreenUpdating = False Application.ScreenUpdating = True
Display Alerts	Application.DisplayAlerts = False Application.DisplayAlerts = True
Events	Application.EnableEvents = False Application.EnableEvents = True
Enable Cancel Key	Application.EnableCancelKey = xlDisabled Application.EnableCancelKey = xlInterrupt
Text Compare – Ignore Case	Option Compare Text
Require Variable Declaration	Option Explicit
Automatic Calculations	Application.Calculation = xlManual Application.Calculation = xlAutomatic
Background Error Checking	Application.ErrorCheckingOptions.BackgroundChecking = False Application.ErrorCheckingOptions.BackgroundChecking = True
Display Formula Bar	Application.DisplayFormulaBar = False Application.DisplayFormulaBar = True
Freeze Panes	ActiveWindow.FreezePanes = False ActiveWindow.FreezePanes = True
Full Screen View	Application.DisplayFullScreen = False Application.DisplayFullScreen = True
PageBreak Preview	ActiveWindow.View = xlPageBreakPreview ActiveWindow.View = xlNormalView
Display Scroll Bars	With ActiveWindow .DisplayHorizontalScrollBar = False .DisplayVerticalScrollBar = False End WithWith ActiveWindow .DisplayHorizontalScrollBar = True .DisplayVerticalScrollBar = True End With
Display Status Bar	Application.DisplayStatusBar = False Application.DisplayStatusBar = True
Status Bar Contents	Application.StatusBar = "I'm working Now!!!" Application.StatusBar = False
Display Workbook Tabs	ActiveWindow.DisplayWorkbookTabs = False ActiveWindow.DisplayWorkbookTabs = True
UserName	Application.UserName = "AutomateExcel.com"
App Caption	Application.Caption = "AutomateExcel Model"
Zoom	ActiveWindow.Zoom = 80

ARRAYS

Description	VBA Code
Create	Dim arr(1 To 3) As Variant arr(1) = "one" arr(2) = "two" arr(3) = "three"
Create From Excel	Dim arr(1 To 3) As Variant Dim cell As Range, i As Integer i = LBound(arr) For Each cell In Range("A1:A3") i = i + 1 arr(i) = cell.value Next cell
Read All Items	Dim i as Long Fori = LBound(arr) To UBound(arr) MsgBox arr(i) Next i
Erase	Erase arr
Array to String	Dim sName As String sName = Join(arr, ":")
Increase Size	ReDim Preserve arr(0 To 100)
Set Value	arr(1) = 22

COLLECTIONS

Description	VBA Code
Create	Dim coll As New Collection coll.Add "one" coll.Add "two"
Create From Excel	Dim coll As New Collection Dim cell As Range For Each cell In Range("A1:A2") coll.Add cell.value Next cell
Add Item	coll.Add "Value"
Add Item Before	coll.Add "Value", Before:=1
Add Item After	coll.Add "Value", After:=1
Read Item	MsgBox coll (1)
Count Items	coll.Count
Read All Items	Dim item As Variant For Each item In coll MsgBox item Next item
Remove Item	coll.Remove (1)
Remove All Items	Set coll = New Collection

DICTIONARIES

Description	VBA Code
Required Reference	Tools > References > Microsoft Scripting Runtime
Create	Dim dict As New Scripting.Dictionary dict.Add "" dict.Add ""
Create From Excel	Dim dict As New Scripting.Dictionary Dim cell As Range Dim key As Integer For Each cell In Range("A1:A10") key = key + 1 dict.Add key, cell.value Next cell
Add Item	dict.Add "Key", "Value"
Change Value	dict("Key") = "Value"
Get Value	MsgBox dict("Key")

Check For Value	If dict.Exists("Key") Then
	MsgBox "Exists"
	End If

Remove Item	dict.Remove ("Key")
Remove All Items	dict.RemoveAll
Loop Through Items	Dim key As Variant For Each key In dict.Keys MsgBox key, dict(key) Next key
Count Items	dict.Count
Make Key Case Sensitive	dict.CompareMode = vbBinaryCompare
Make Key Case Insensitive	dict.CompareMode = vbTextCompare

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