TRAINING RESOURCES

Excel VBA Cheat Sheet

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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 = xISheetHidden
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	VPA Code
Description	
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
Сору	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 Cellis	Dim cell As Range
	For Each cell In Range("A1:C3")
	MsgBox cell.Value
	Next cell
	1

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.Insert
Last	dim IRow as long
	IRow = Cells(Rows.Count, 1).End(xIUp).Row
Сору	Range("1:1").Copy Range("5:5")
Insert	Range("1:1").Copy
	Range("5:5").Insert

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 ICol as long
	ICol = Cells(1, Columns.Count).End(xIToLeft).Column
Сору	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 ActivateWorkbook	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
Check Exists	If Dir("C:\Book1.xlsx") = "" Then
	MsgBox "File does not exist."
	Endlf
Copy Closed	FileCopy "C:\file1.xlsx","C:\file2.xlsx"

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 = xIInterrupt
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 =
Display Formula Bar	Application.DisplayFormulaBar = False
	Application.DisplayFormulaBar = True
Freeze Panes	ActiveWindow.FreezePanes = False
	Active window. FreezePanes = True
Full Screen view	Application.DisplayFullScreen = False
DemoDrack Draview	Application.Display-ullScreen = True
Радевгеак Ргечее	Active/Vindow.View = XIPageBreakPreview
Display Scroll Pare	Active/Window.view – XiNOITIaiview
Display Scioli Bars	DisplayHorizontalScrollBar - Ealso
	Display/erticalScrollBar = 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

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

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 For i = 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