Recording an Office Script

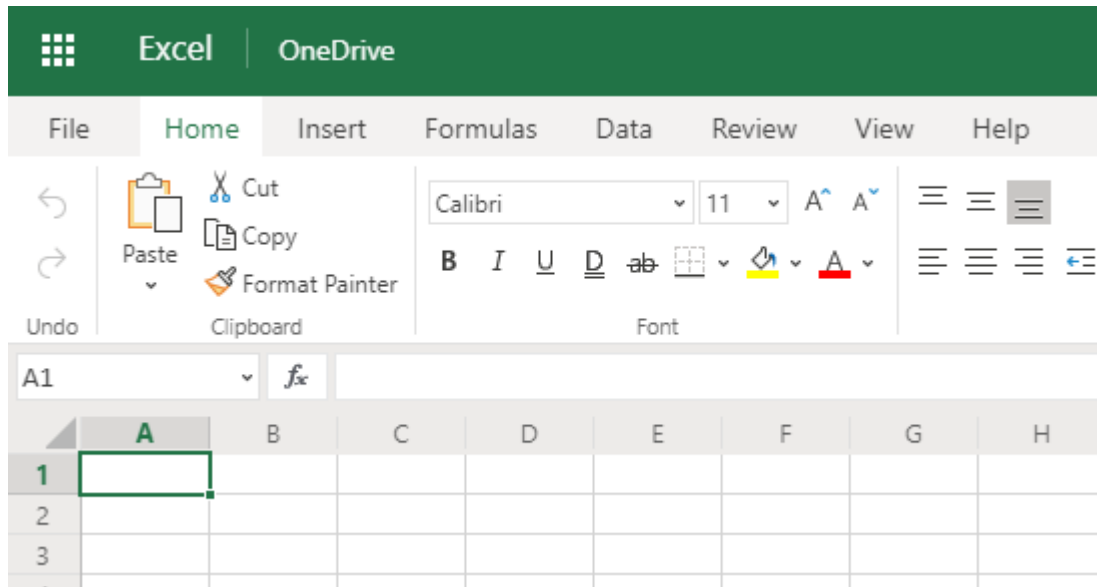**Brent Allen**
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Office Scripts May Not Be Enabled!

Requires the Automate Tab

Enabled by Administrator

Demo

Enable Office Scripts in M365 Admin
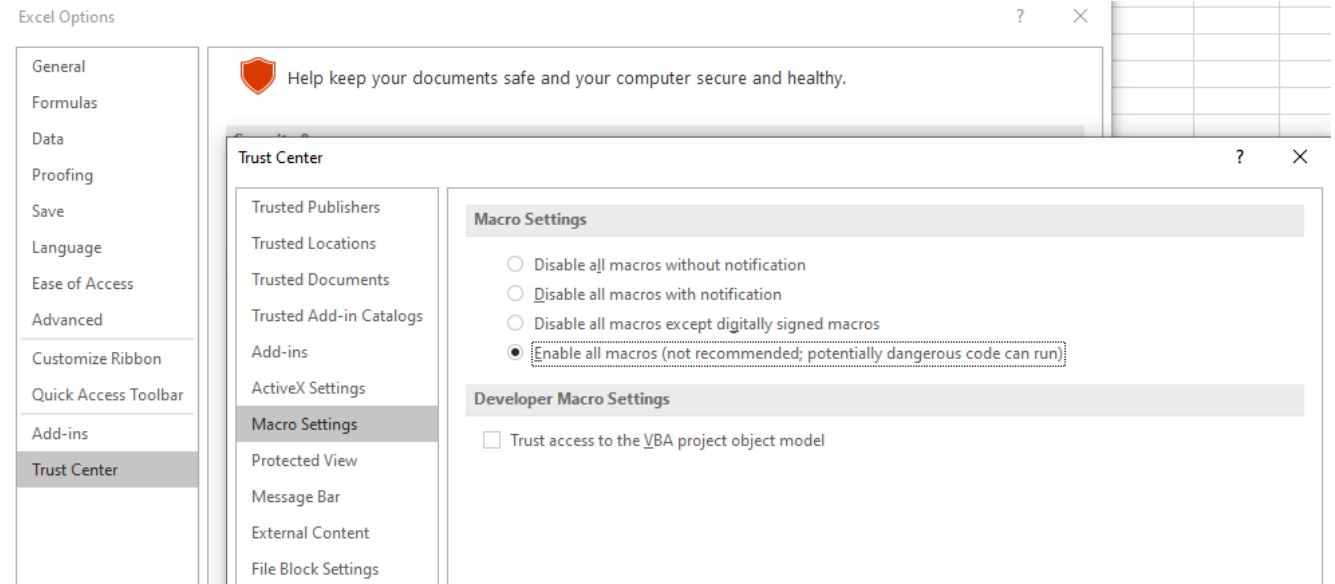
Confirm script availability

VBA Handles Security Differently

End users can edit macro settings

No admin settings

Group policies can be used

Demo

Use Script Recorder for simple automation

Replay recorded script

Demo

Record a VBA macro with the same steps

Replay macro in Excel

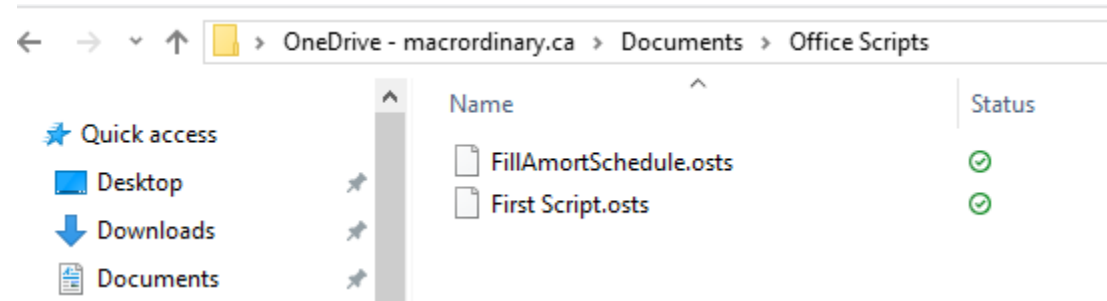# Comparing Office Scripts and VBA
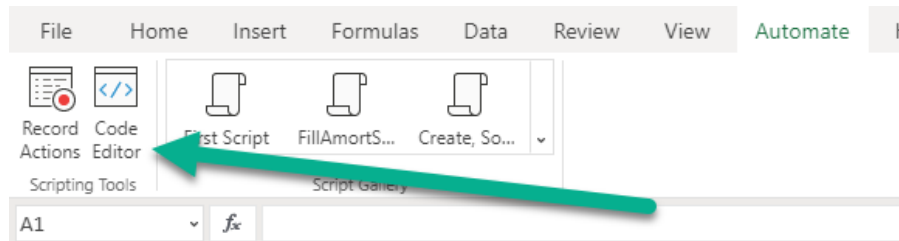
Where Is My Office Script?

Saved in users OneDrive

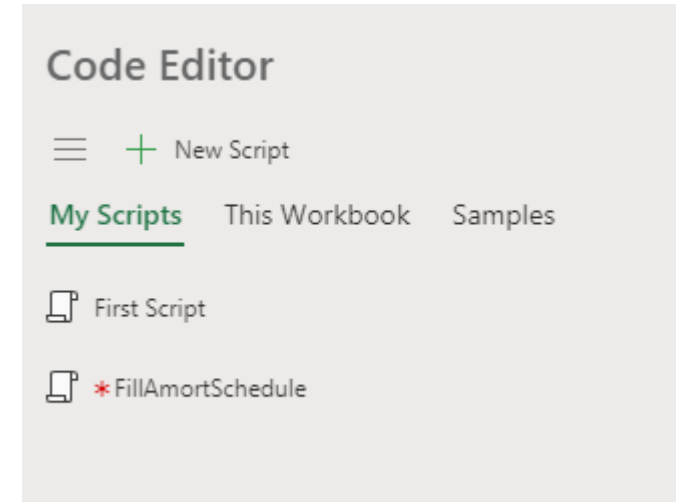**Have extension .osts**

Not associated with any Excel file

How Do I Find My Office Script Code?
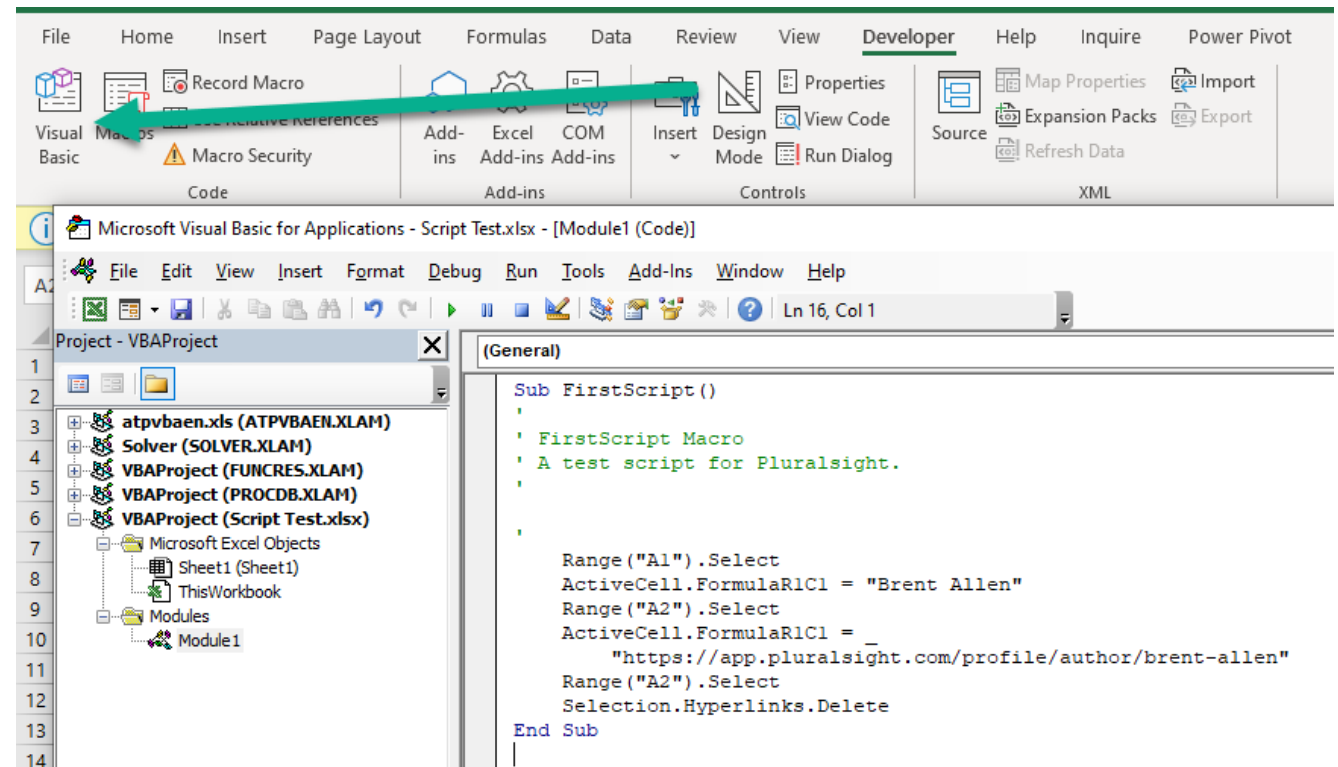
Click on Code Editor
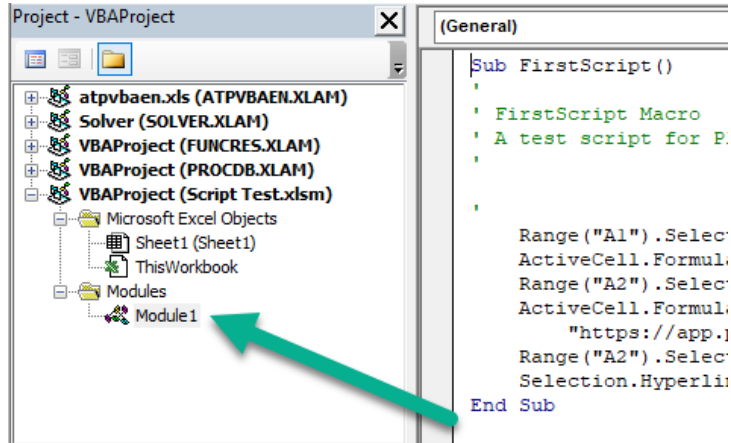
Select recorded script

Where Is My VBA Macro?

Saved in the Excel workbook

Workbook has .xlsm extension

Stored in a module in the workbook

Where Is My VBA Code?

Recorded into Module1

Comparing Script and Macro

Office Script

```
 1   function main(workbook: ExcelScript.Workbook) {
 2     let selectedSheet = workbook.getActiveWorksheet();
 3     // Set range A1 on selectedSheet
 4     selectedSheet.getRange("A1")
 5       .setValue("Brent Allen");
 6     // Apply hyperlink to range: Test Run Sheet!A2
 7     selectedSheet.getRange("A2")
 8       .setHyperlink({
 9         textToDisplay: "https://app.pluralsight.com/profile/author/brent-allen",
10         address: "https://app.pluralsight.com/profile/author/brent-allen"
11       });
12     // Unknown event received with eventId:125
13   }
```

VBA Macro

```
Sub FirstScript()
'
' FirstScript Macro
' A test script for Pluralsight.
'

'

    Range("A1").Select
    ActiveCell.FormulaR1C1 = "Brent Allen"
    Range("A2").Select
    ActiveCell.FormulaR1C1 = _
        "https://app.pluralsight.com/profile/author/brent-allen"
    Range("A2").Select
    Selection.Hyperlinks.Delete
End Sub
```

Function Naming

Office Script

Function name is always main

Comments in metadata

```
1  function main(workbook: ExcelScript.Workbook) {
2      let selectedSheet = workbook.getActiveWorksheet();
3      // Set range A1 on selectedSheet
```

VBA Macro

Macro name is function name

Comments in code

```
Sub FirstScript()

' FirstScript Macro
' A test script for Pluralsight.
'


'
```

Selecting Sheets and Cells

Office Script

Workbook and sheet must be selected

Value assigned through method

```
1    function main(workbook: ExcelScript.Workbook) {
2      let selectedSheet = workbook.getActiveWorksheet();
3      // Set range A1 on selectedSheet
4      selectedSheet.getRange("A1")
5        .setValue("Brent Allen");
```

VBA Macro

Workbook and sheet do not require being selected

Value can be directly assigned to cell

```
Range("A1").Select
ActiveCell.FormulaR1C1 = "Brent Allen"
```

Recording Activities

Office Script

Some activities cannot be recorded

Adjustments can be made after recording

```
7     selectedSheet.getRange("A2")
8       .setHyperlink({
9         textToDisplay: "https://app.pluralsight.com/profile/author/brent-allen",
10        address: "https://app.pluralsight.com/profile/author/brent-allen"
11      });
12    // Unknown event received with eventId:125
13    }
```

VBA Macro

Almost all activities can be recorded

```
Range("A2").Select
ActiveCell.FormulaR1C1 = _
    "https://app.pluralsight.com/profile/author/brent-allen"
Range("A2").Select
Selection.Hyperlinks.Delete
```

There are still other major differences.

Summary

Enabled Office Scripts in M365 Admin

Recorded a simple script

Compared with VBA