COMP1022Q
Introduction to Computing with Excel VBA

Using a Shape as a Button

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Outcomes

- After completing this presentation, you are expected to be able to:

  1. Understand how to trigger a VBA macro by clicking on a shape

Using Macros on Excel Shapes

- Here we look at using shapes so they act as buttons which trigger some VBA code

- To do that we need to:

    1. Assign a macro to a shape in the worksheet

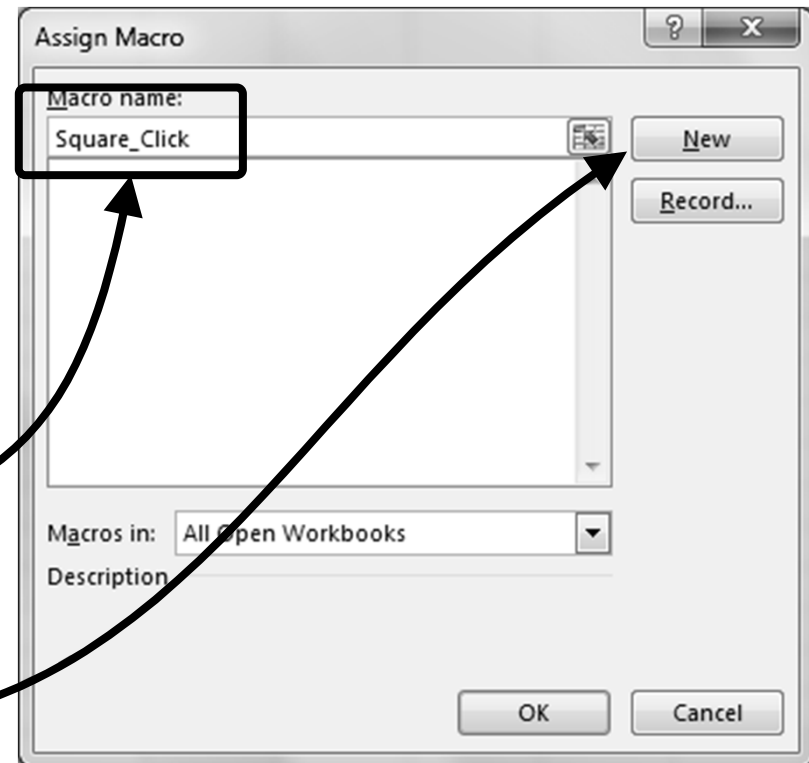   2. Write the VBA code to do whatever you want when the shape is clicked

Assigning a Macro to a Shape

- For example, we can assign a macro to the square shape shown below by right-clicking on the shape and selecting *Assign Macro...*
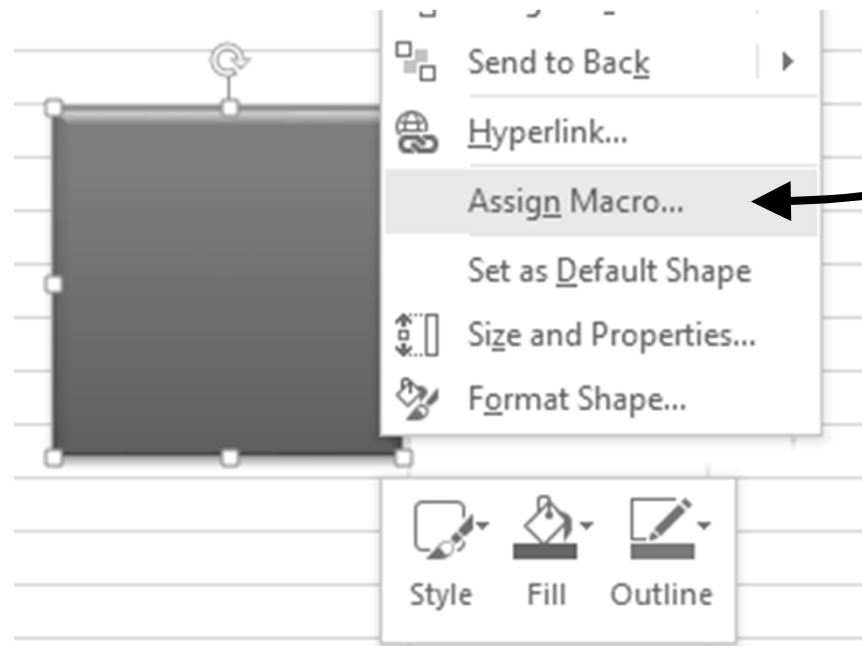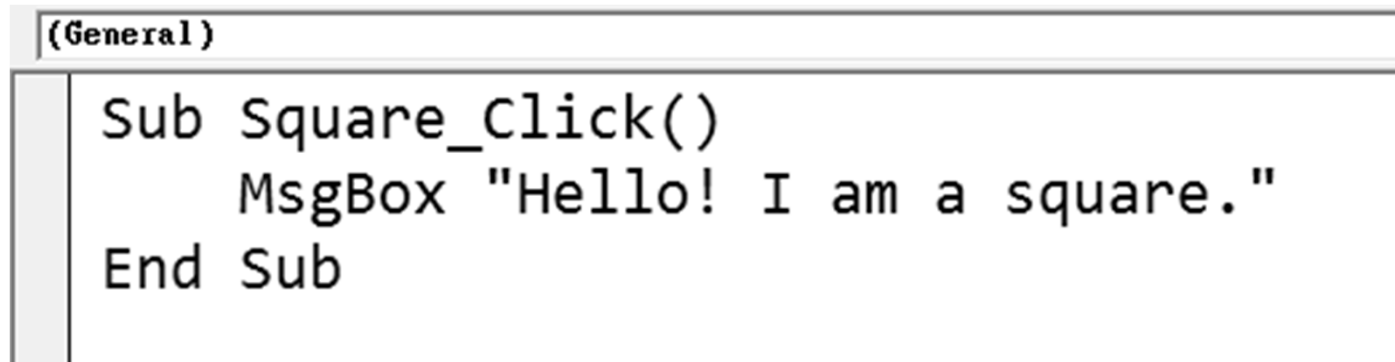
Creating a New Macro 1/2

- In the assign macro window you can select an existing macro or create a new one

- For example, we can enter a name for a new macro and then click on *New* to create the new one

Assign Macro

Macro name:

Square_Click

New

Record...

Macros in: All Open Workbooks

Description

OK   Cancel

Creating a New Macro 2/2

- You can then write the content of your macro, for example, like this:

```
(General)

Sub Square_Click()
    MsgBox "Hello! I am a square."
End Sub
```

- The macro will run when you click on the shape assigned with the macro

Shapes Assigned with a Macro

- If you want to know whether a shape has been assigned with a macro, you can move the mouse over the shape

- If a shape has been assigned a macro then the mouse pointer will change to a finger, like this:
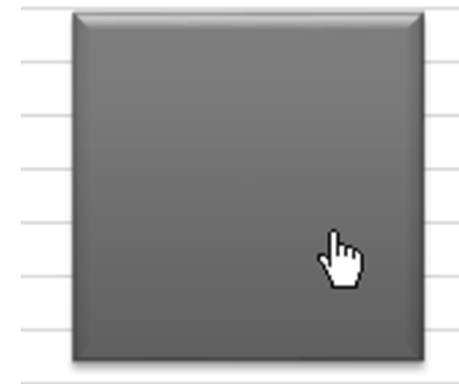
An Example

- In our example, we have two shapes
- Each of them is assigned with a macro
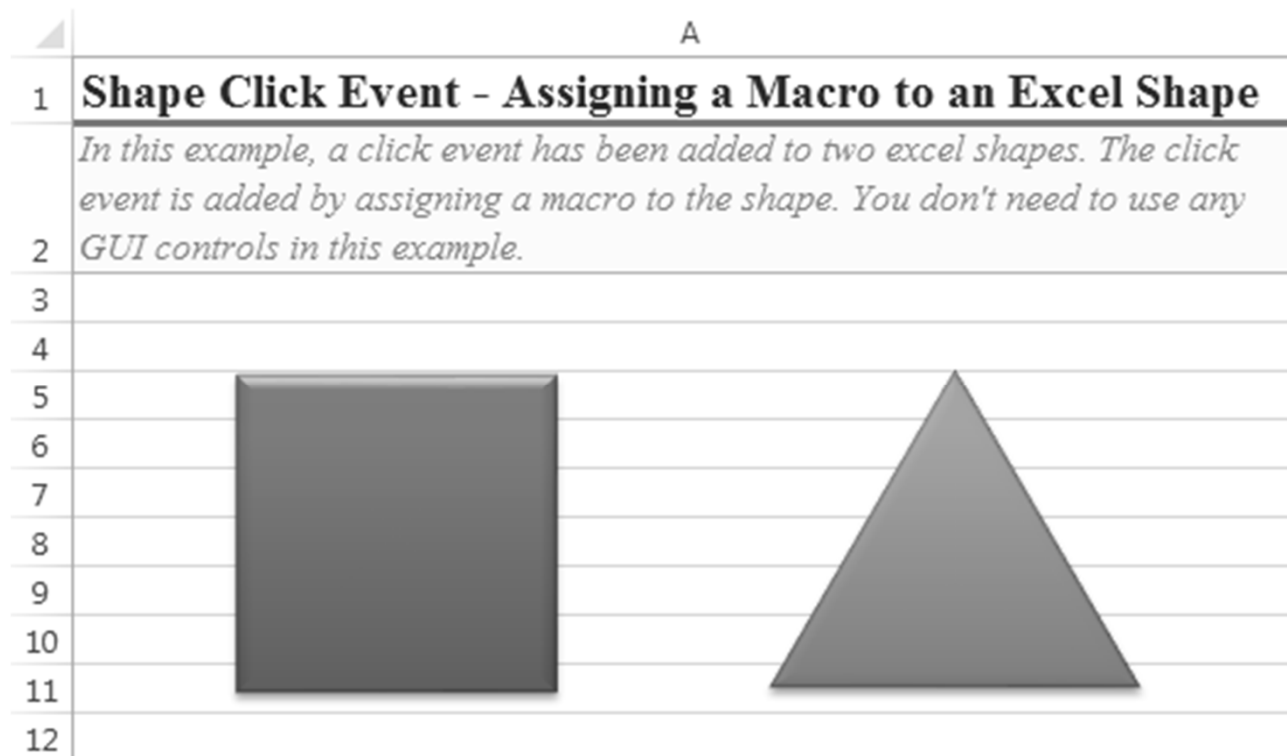
Running the Example

- Clicking on the square will give you a message box like this:

- Similarly, clicking on the triangle gives you this message box: