

How to... Work with macros in Excel 2010

What is a macro?

A macro is simply a list of commands, which can be run as and when desired. Macros are a feature of most of the Microsoft Office applications – not just Excel.

When can I use a macro?

Macros can be used when you have a task which involves several (perhaps many) steps which are performed the same each time.

An example might be setting up standard headers and footers on a worksheet, or creating a new worksheet each month, putting the same column headings in place and then formatting them.

When can't I use a macro?

Macros can do most things. But unless you're prepared to learn a little VBA (the language of macros) they aren't very good at making decisions – they run through the same steps each time.

You should also be aware that macros can be "turned off" for security reasons on some machines, which would make your macro unavailable.

How do I create a macro?

As mentioned, a macro is just a list of commands to be run as and when needed. You have two choices as to how you create that list:

1. You could **write the list of commands yourself**. This way gives you the most power and flexibility. If you create a macro this way, it could be used to connect to other applications, such as Word or Outlook and it could make decisions, based on anything from the content of your data to the day of the week. However, to create a macro this way, you need to learn the language of macros – VBA. Whilst VBA is an easy programming language to learn, not everyone either wants or needs to learn to write code.
2. You can **get Excel to write the list for you** – known as "recording a macro".
In this way, Excel watches what you do and *it* writes down the commands. This way is definitely the easier way – no programming to learn, so you can get results quickly and easily. Furthermore, because it's Excel writing the list of commands, there's almost no chance of there being a mistake, unlike if you write programming code yourself!
The downside? Well, firstly, Excel can only write what

you *actually* do, not what you might have done in a different context (if the data had been different, for example). So, macros that you create in this way are not able to make decisions.

Secondly, Excel can only record steps you take within its confines – so it can't record you copying data from a workbook into an email, for example.

Finally, while Excel writes very *accurate* code, it doesn't always write very *efficient* code. So, if you open the Format Cells dialogue box, for example, change one setting and then close it, Excel has to record *every* setting in the dialogue box.

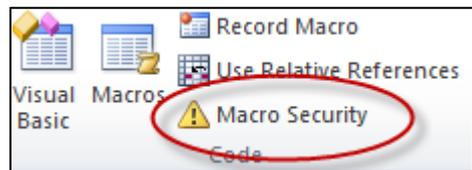
Finding the macro tools in Excel 2010

In versions of Excel prior to 2007, macros were just *there* – in the Tools menu. In more recent versions of Excel, you'll need to turn on the macro tools, which are on the Developer tab of the ribbon. To do so:

1. Right-click anywhere on the ribbon, and select "Customize the ribbon"
2. On the "Main Tabs" section on the right of the dialog box, tick the Developer box
3. The Developer tab will appear – typically to the right of the View tab.

A note on macro security

1. Because macros can be turned off for security reasons, while you will always be able to record a macro, you may not be able to modify or run one if security is to a high level.
2. To modify the security level, select the Macro Security button on the Developer tab.



3. In the Macro security dialog box, you have various choices for enabling and disabling macros, and for notifying you of the presence of macros:

- Disable all macros without notification
- Disable all macros with notification
- Disable all macros except digitally signed macros
- Enable all macros (not recommended; potentially dangerous code can run)

4. Setting the security to "Disable all macros with notification" means that you will see a warning if macros exist, and you will then be able to enable them if you recognise the macros. This is the recommended option if you regularly create macros.

