Lesson 2

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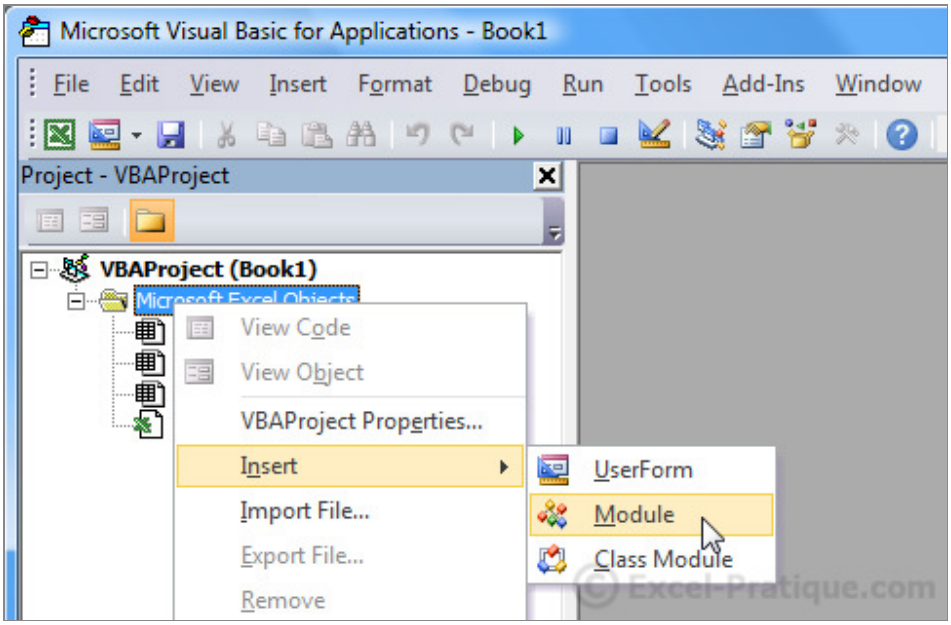
Selections :

We'll begin by creating a macro that selects the cell that we specifiy.

First open the editor and add a module :



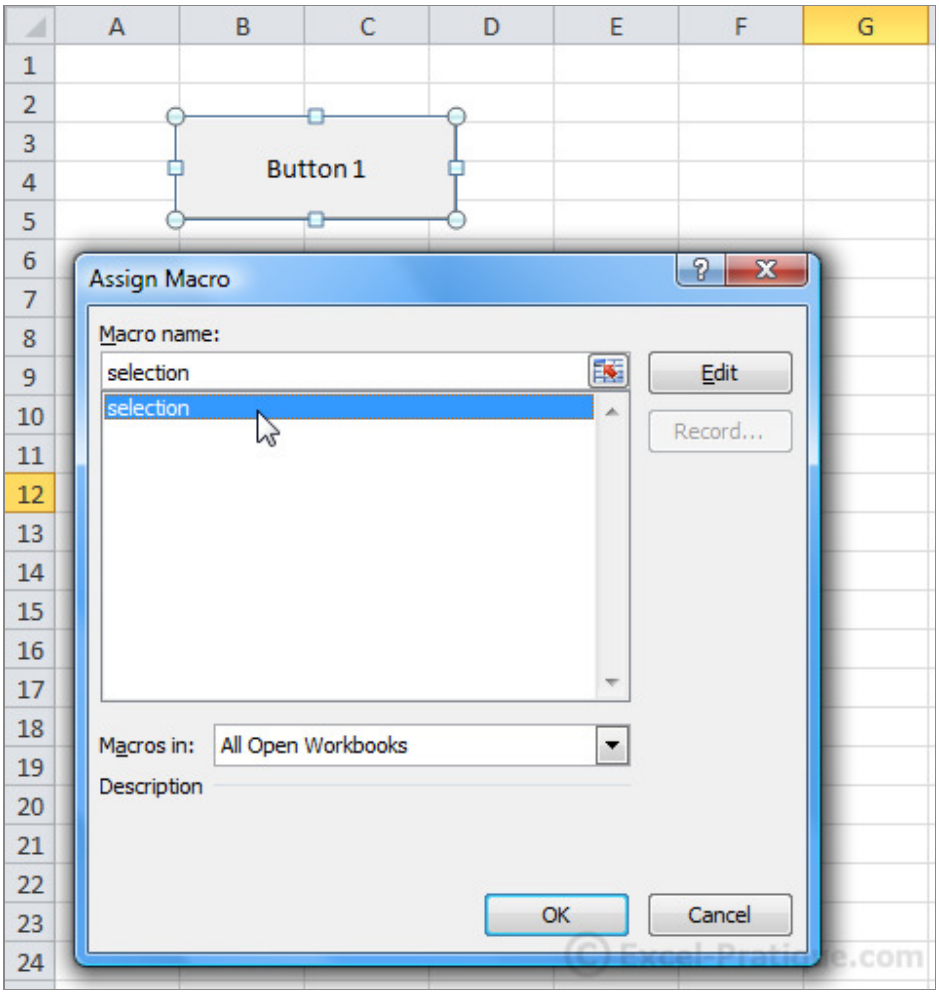
In the module, type "sub selection" and press Enter.

You will notice that Excel has automatically filled in the end of this new procedure :

```
Sub selection()

End Sub
```

Now create a formula button to which you will associate this macro (it is empty for now) :



Complete your macro with this code :

```
Sub selection()
   'Select cell A8
   Range("A8").Select
End Sub
```

You can test this macro by clicking on your formula button, and you will see that cell A8 is now selected.

We will now edit the macro so that it selects cell A8 on the second worksheet :

```
Sub selection()
   'Activating of Sheet 2
   Sheets("Sheet2").Activate
   'Selecting of Cell A8
   Range("A8").Select
End Sub
```

Excel will now activate Sheet 2 and then select cell A8.

Note : the comments (text in green) will help you understand the macros in this course correctly.

Selecting different cells :

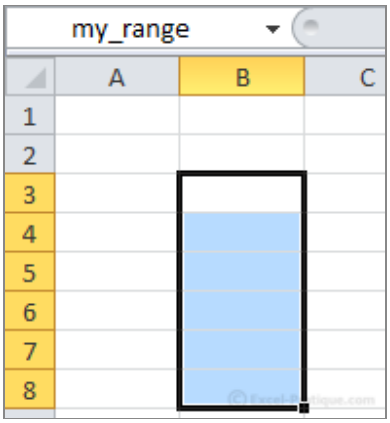
```
Sub selection()
   'Selecting A8 and C5
   Range("A8, C5").Select
End Sub
```

Selecting a range of cells :

```
Sub selection()
   'Selecting cells A1 to A8
   Range("A1:A8").Select
End Sub
```

Selecting a range of cells that has been renamed :

```
Sub selection()
   'Selecting cells from the "my_range" range
   Range("my_range").Select
End Sub
```



Selecting a cell by row and column number :

```
Sub selection()
   'Selecting the cell in row 8 and column 1
   Cells(8, 1).Select
End Sub
```

This method of selecting cells allows for more dynamic selections. It will be quite useful further along.

Here is a little example :

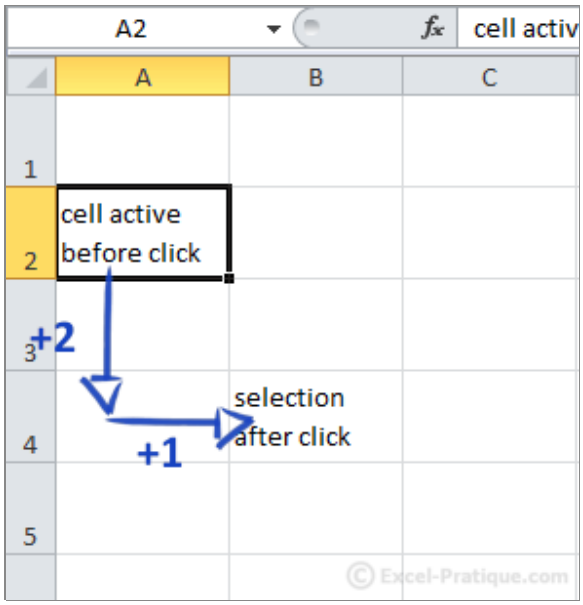
```
Sub selection()
   'Random selection of a cell from row 1 to 10 and column 1
   Cells(Int(Rnd * 10) + 1, 1).Select
   'Translation :
   'Cells([random_number_between_1_and_10], 1).Select
End Sub
```

In this case, the row number is : **Int(Rnd * 10) + 1**, or in other words : **a number between 1 and 10** (there's no reason you should learn this code at this point).

Moving a selection :

```
Sub selection()
   'Selecting a cell (described in relation to the cell that is currently active)
   ActiveCell.Offset(2, 1).Select
End Sub
```

Moving the selection box two rows down and one column to the right :



Selecting rows :

It is possible to select entire rows using the **Range** or **Rows** commands (the Rows command is of course specific to rows).

```
Sub selection()
   'Selecting rows 2 to 6
   Range("2:6").Select
End Sub
```

```
Sub selection()
   'Selecting rows 2 to 6
   Rows("2:6").Select
End Sub
```

Selecting columns :

As with rows, it is possible to select entire columns using the **Range** or **Columns** commands (the Columns command is of course specific to columns).

```
Sub selection()
   'Selecting columns B to G
   Range("B:G").Select
End Sub
```

```
Sub selection()
   'Selecting columns B to G
   Columns("B:G").Select
End Sub
```

Properties :

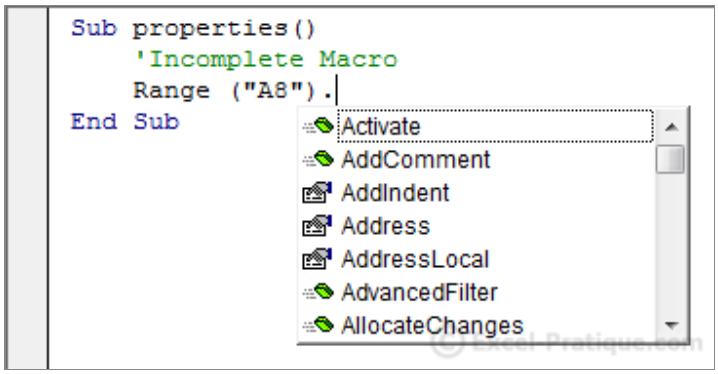
In this exercise, we will write VBA code that modifies the content and appearance of cells and worksheets.

First open the editor, add a module, copy the macro below into it, and link it to a formula button :

```
Sub properties()
   'Incomplete Macro
   Range ("A8")
End Sub
```

We want to modify cell A8 at the beginning of this macro.

To display the list of possible things that can be associated with the Range object, add a period after **Range ("A8")** :



The editor will now display the various possibilities ...

In this first example, click on "Value" and then on the Tab key to validate your choice.

```
Sub properties()
   'Incomplete Macro
   Range("A8").Value
End Sub
```

In this case, the property, Value, represents the contents of the cell.

Next, we will assign the value 48 to cell A8 :

```
Sub properties()
   'A8 = 48
   Range("A8").Value = 48
   'Translation :
   'The value of cell A8 is equal to 48
End Sub
```

Then we will assign the value **Sample text** to cell A8 (important : the text must be within " ") :

```
Sub properties()
   'A8 = Sample text
   Range("A8").Value = "Sample text"
End Sub
```

In this case, we're going to modify cell A8 on the worksheet, the cell from which the procedure is actually launched (using a formula button). If you create a second button like this on worksheet 2, it will modify cell A8 on that sheet (sheet 2).

To make it modify cell A8 on sheet 2 when you click the button on sheet 1, you have to add the following before Range : **Sheets("Name_of_the_sheet")** or **Sheets(Number_of_the_sheet)**.

```
Sub properties()
   'A8 on sheet 2 = Sample text
   Sheets("Sheet2").Range("A8").Value = "Sample text"
   'Or :
   'Sheets(2).Range("A8").Value = "Sample text"
End Sub
```

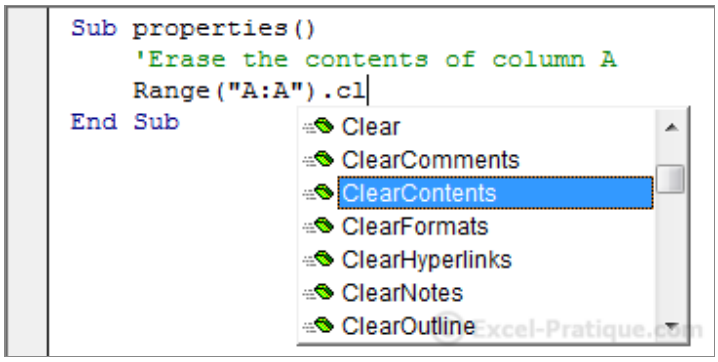
Just the same, if we wanted to modify cell A8 on sheet 2 of another open workbook, we have to add the following before Sheets and Range : **Workbooks("Name_of_the_file")**.

```
Sub properties()
   'A8 on sheet 2 of workbork 2 = Sample text
   Workbooks("Book2.xlsx").Sheets("Sheet2").Range("A8").Value = "Sample text"
End Sub
```

Although we used Value in these examples, you don't really need to use it, because if nothing else is specified, it will be the value of the cell that is modified.
For example, these two lines would have the same effect :

```
Range("A8").Value = 48
Range("A8") = 48
```

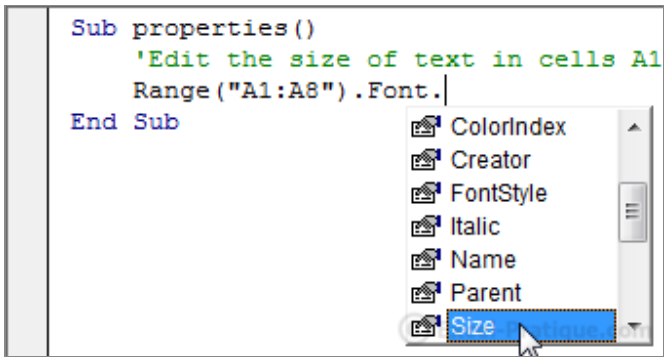
Erase cell contents :




```
Sub properties()
   'Erase the contents of column A
   Range("A:A").ClearContents
End Sub
```

Text Formatting :

When you open **Font.**, the list of properties that can be applied to text formatting will appear :



We'll explain in detail how to edit the colors on the next page ...

Formatting : change text size :

```
Sub properties()
   'Edit the size of text in cells A1 through A8
   Range("A1:A8").Font.Size = 18
End Sub
```

Formatting : make text bold :

```
Sub properties()
   'Make cells A1 through A8 bold
   Range("A1:A8").Font.Bold = True
End Sub
```

Bold = True means **Characters will appear in bold = Yes**.

To remove the "bold" formatting from text, all you have to do is replace "Yes" with "No", or in other words, "True" with "False" :

```
Sub properties()
   'Remove "bold" formatting from cells A1 through A8
   Range("A1:A8").Font.Bold = False
End Sub
```

Formatting : italicize text :

```
Sub properties()
   'Italicize cells A1 through A8
   Range("A1:A8").Font.Italic = True
End Sub
```

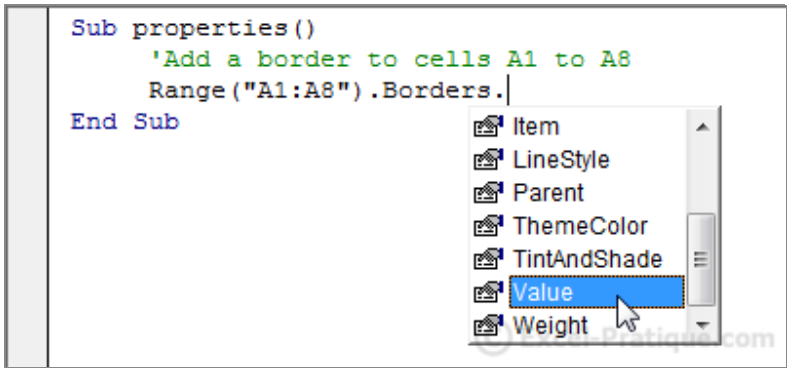
Formatting : underline text :

```
Sub properties()
   'Underline cells A1 through A8
   Range("A1:A8").Font.Underline = True
End Sub
```

Formatting : Set font :

```
Sub properties()
   'Edit font in cells A1 through A8
   Range("A1:A8").Font.Name = "Arial"
End Sub
```

Add borders :




```
Sub properties()
    'Add a border to cells A1 to A8
    Range("A1:A8").Borders.Value = 1
    'Value = 0    => no border
End Sub
```

Change the formatting of currently selected cells :

```
Sub properties()
    'Add a border to selected cells
    Selection.Borders.Value = 1
End Sub
```

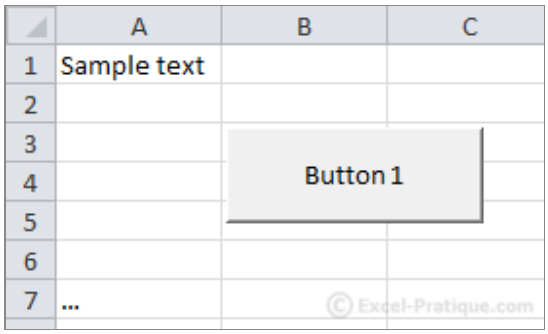
Change a worksheet's properties :

```
Sub properties()
     'Hide a worksheet
    Sheets("Sheet3").Visible = 0
     'Visible = -1     => cancels the effect
End Sub
```

Don't forget that we've only introduced a tiny minority of the possible customizations that can be done with VBA.
If the property that you are looking for isn't described in detail here, don't be afraid to look for it in the list of properties in Excel or in Excel's own help files.
The macro recorder can also save you a lot of time if you don't know the name of a property. If you record the action that you need, it will be easy to find the name of the property so that you can then use it in your own macro.

Change the value of a cell based on another cell :

In this case, we want A7 to take its value from A1 :



So we will tell A7 to take its value from A1, which would look like this :

```
Sub properties()
    'A7 = A1
    Range("A7") = Range("A1")
    'Or :
    'Range("A7").Value = Range("A1").Value
End Sub
```

If we only wanted to copy the text size from the other cell, the code would look like this :

```
Sub properties()
     Range("A7").Font.Size = Range("A1").Font.Size
End Sub
```

Anything on the left side of the = takes on the value of what is on the right side of the =.

Change the value of a cell based on its own value :

Now we're going to create a click counter.

Each time we click, the value of A1 will be incremented by 1:

```
Sub properties()
    'Click counter in A1
    Range("A1") = Range("A1") + 1
End Sub
```

Excel executes the code line by line, so these commentaries should help you understand the code itself :

```
'For example : before the code is executed, A1 has the value 0

Sub properties()

   'The button has been clicked, so the procedure is starting
   'For the moment, A1 still has the value 0

   'DURING the execution of the line immediately below, A1 still has the value 0
   Range("A1") = Range("A1") + 1 'And now the calculation is : New_value_of_A1 = 0 + 1
   'A1 has the value 1 only AFTER the execution of the line of code

End Sub
```

With :

This code makes it possible to set different properties of the active cell :

```
Sub properties()
    ActiveCell.Borders.Weight = 3
    ActiveCell.Font.Bold = True
    ActiveCell.Font.Size = 18
    ActiveCell.Font.Italic = True
    ActiveCell.Font.Name = "Arial"
End Sub
```

In this case, we can use **With** to avoid having to repeat **ActiveCell**.

Now you will see how With works:

```
Sub properties()
   'Beginning of instructions using command: WITH
   With ActiveCell
        .Borders.Weight = 3
        .Font.Bold = True
        .Font.Size = 18
        .Font.Italic = True
        .Font.Name = "Arial"
   'End of instructions using command: END WITH
   End With
End Sub
```

This way we don't have to repeat **ActiveCell**.

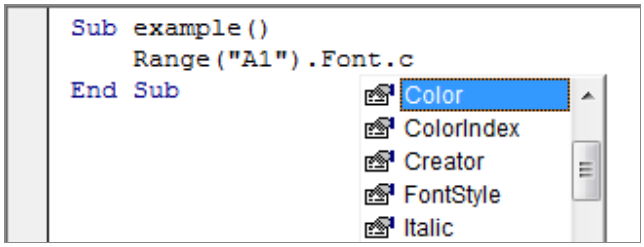
Although it isn't really necessary in this case, we could avoid repeating **.Font**, too, which would look like this :

```
Sub properties()
    With ActiveCell
        .Borders.Weight = 3
        With .Font
            .Bold = True
            .Size = 18
            .Italic = True
            .Name = "Arial"
        End With
    End With
End Sub
```

Colors :

Let's start by assigning a color to the text in A1.

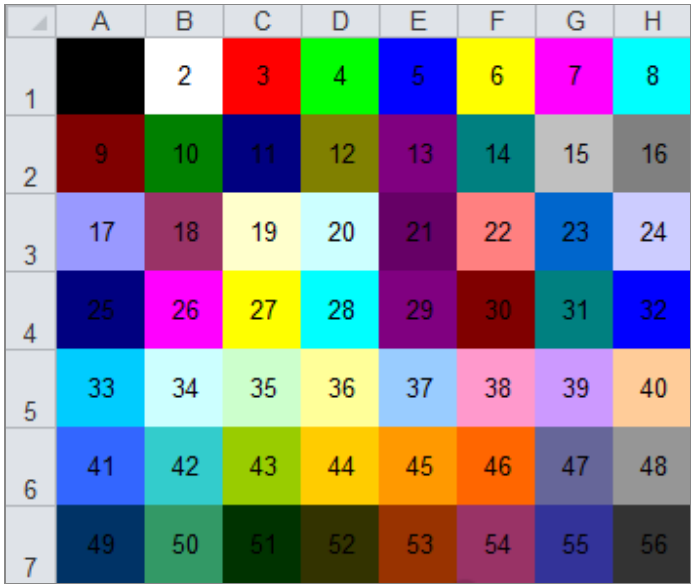
After adding **Font.**, we get this result :



There are two different ways that we can set the color : **ColorIndex**, which has 56 colors, or **Color** which makes it possible to use any color at all.

ColorIndex :

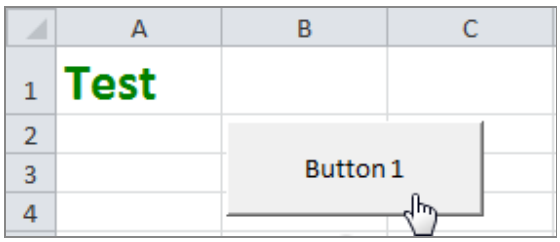
Here you can see the 56 colors that are available through **ColorIndex** :



To set the color of our text to one of these 56, we should write :

```
Sub example()
   'Text color for A1 : green (Color num. 10)
   Range("A1").Font.ColorIndex = 10
End Sub
```

This code will give us the following result :



For versions of Excel lower than 2007 : using ColorIndex is preferable to using Color.

Color :

Here is a similar example in which we use **Color** :

```
Sub example()
   'Text color for A1 : RGB(50, 200, 100)
   Range("A1").Font.Color = RGB(50, 200, 100)
End Sub
```

In this case, the color is : **RGB(50, 200, 100)**.
RGB stands for Red-Green-Blue, and the numerical values go from 0 to 255 for each color.

A few examples of colors so that you can understand this better :

- RGB(0, 0, 0) : **black**
- RGB(255, 255, 255) : **white**
- RGB(255, 0, 0) : **red**
- RGB(0, 255, 0) : **green**
- RGB(0, 0, 255) : **blue**

Luckily, there are lots of easy ways to find the RGB values for colors. Here is a selection :

	A	B	C	D	E	F	G	H	I
1	0, 0, 0	0, 0, 32	0, 0, 64	0, 0, 96	0, 0, 128	0, 0, 160	0, 0, 192	0, 0, 224	0, 0, 255
2	0, 32, 0	0, 32, 32	0, 32, 64	0, 32, 96	0, 32, 128	0, 32, 160	0, 32, 192	0, 32, 224	0, 32, 255
3	0, 64, 0	0, 64, 32	0, 64, 64	0, 64, 96	0, 64, 128	0, 64, 160	0, 64, 192	0, 64, 224	0, 64, 255
4	0, 96, 0	0, 96, 32	0, 96, 64	0, 96, 96	0, 96, 128	0, 96, 160	0, 96, 192	0, 96, 224	0, 96, 255
5	0, 128, 0	0, 128, 32	0, 128, 64	0, 128, 96	0, 128, 128	0, 128, 160	0, 128, 192	0, 128, 224	0, 128, 255
6	0, 160, 0	0, 160, 32	0, 160, 64	0, 160, 96	0, 160, 128	0, 160, 160	0, 160, 192	0, 160, 224	0, 160, 255
7	0, 192, 0	0, 192, 32	0, 192, 64	0, 192, 96	0, 192, 128	0, 192, 160	0, 192, 192	0, 192, 224	0, 192, 255
8	0, 224, 0	0, 224, 32	0, 224, 64	0, 224, 96	0, 224, 128	0, 224, 160	0, 224, 192	0, 224, 224	0, 224, 255
9	0, 255, 0	0, 255, 32	0, 255, 64	0, 255, 96	0, 255, 128	0, 255, 160	0, 255, 192	0, 255, 224	0, 255, 255
10	32, 0, 0	32, 0, 32	32, 0, 64	32, 0, 96	32, 0, 128	32, 0, 160	32, 0, 192	32, 0, 224	32, 0, 255
11	32, 32, 0	32, 32, 32	32, 32, 64	32, 32, 96	32, 32, 128	32, 32, 160	32, 32, 192	32, 32, 224	32, 32, 255
12	32, 64, 0	32, 64, 32	32, 64, 64	32, 64, 96	32, 64, 128	32, 64, 160	32, 64, 192	32, 64, 224	32, 64, 255
13	32, 96, 0	32, 96, 32	32, 96, 64	32, 96, 96	32, 96, 128	32, 96, 160	32, 96, 192	32, 96, 224	32, 96, 255
14	32, 128, 0	32, 128, 32	32, 128, 64	32, 128, 96	32, 128, 128	32, 128, 160	32, 128, 192	32, 128, 224	32, 128, 255
15	32, 160, 0	32, 160, 32	32, 160, 64	32, 160, 96	32, 160, 128	32, 160, 160	32, 160, 192	32, 160, 224	32, 160, 255
16	32, 192, 0	32, 192, 32	32, 192, 64	32, 192, 96	32, 192, 128	32, 192, 160	32, 192, 192	32, 192, 224	32, 192, 255
17	32, 224, 0	32, 224, 32	32, 224, 64	32, 224, 96	32, 224, 128	32, 224, 160	32, 224, 192	32, 224, 224	32, 224, 255
18	32, 255, 0	32, 255, 32	32, 255, 64	32, 255, 96	32, 255, 128	32, 255, 160	32, 255, 192	32, 255, 224	32, 255, 255
19	64, 0, 0	64, 0, 32	64, 0, 64	64, 0, 96	64, 0, 128	64, 0, 160	64, 0, 192	64, 0, 224	64, 0, 255
20	64, 32, 0	64, 32, 32	64, 32, 64	64, 32, 96	64, 32, 128	64, 32, 160	64, 32, 192	64, 32, 224	64, 32, 255
21	64, 64, 0	64, 64, 32	64, 64, 64	64, 64, 96	64, 64, 128	64, 64, 160	64, 64, 192	64, 64, 224	64, 64, 255
22	64, 96, 0	64, 96, 32	64, 96, 64	64, 96, 96	64, 96, 128	64, 96, 160	64, 96, 192	64, 96, 224	64, 96, 255
23	64, 128, 0	64, 128, 32	64, 128, 64	64, 128, 96	64, 128, 128	64, 128, 160	64, 128, 192	64, 128, 224	64, 128, 255
24	64, 160, 0	64, 160, 32	64, 160, 64	64, 160, 96	64, 160, 128	64, 160, 160	64, 160, 192	64, 160, 224	64, 160, 255
25	64, 192, 0	64, 192, 32	64, 192, 64	64, 192, 96	64, 192, 128	64, 192, 160	64, 192, 192	64, 192, 224	64, 192, 255
26	64, 224, 0	64, 224, 32	64, 224, 64	64, 224, 96	64, 224, 128	64, 224, 160	64, 224, 192	64, 224, 224	64, 224, 255
27	64, 255, 0	64, 255, 32	64, 255, 64	64, 255, 96	64, 255, 128	64, 255, 160	64, 255, 192	64, 255, 224	64, 255, 255
28	96, 0, 0	96, 0, 32	96, 0, 64	96, 0, 96	96, 0, 128	96, 0, 160	96, 0, 192	96, 0, 224	96, 0, 255
29	96, 32, 0	96, 32, 32	96, 32, 64	96, 32, 96	96, 32, 128	96, 32, 160	96, 32, 192	96, 32, 224	96, 32, 255
30	96, 64, 0	96, 64, 32	96, 64, 64	96, 64, 96	96, 64, 128	96, 64, 160	96, 64, 192	96, 64, 224	96, 64, 255
31	96, 96, 0	96, 96, 32	96, 96, 64	96, 96, 96	96, 96, 128	96, 96, 160	96, 96, 192	96, 96, 224	96, 96, 255
32	96, 128, 0	96, 128, 32	96, 128, 64	96, 128, 96	96, 128, 128	96, 128, 160	96, 128, 192	96, 128, 224	96, 128, 255
33	96, 160, 0	96, 160, 32	96, 160, 64	96, 160, 96	96, 160, 128	96, 160, 160	96, 160, 192	96, 160, 224	96, 160, 255
34	96, 192, 0	96, 192, 32	96, 192, 64	96, 192, 96	96, 192, 128	96, 192, 160	96, 192, 192	96, 192, 224	96, 192, 255
35	96, 224, 0	96, 224, 32	96, 224, 64	96, 224, 96	96, 224, 128	96, 224, 160	96, 224, 192	96, 224, 224	96, 224, 255
36	96, 255, 0	96, 255, 32	96, 255, 64	96, 255, 96	96, 255, 128	96, 255, 160	96, 255, 192	96, 255, 224	96, 255, 255
37	128, 0, 0	128, 0, 32	128, 0, 64	128, 0, 96	128, 0, 128	128, 0, 160	128, 0, 192	128, 0, 224	128, 0, 255
38	128, 32, 0	128, 32, 32	128, 32, 64	128, 32, 96	128, 32, 128	128, 32, 160	128, 32, 192	128, 32, 224	128, 32, 255
39	128, 64, 0	128, 64, 32	128, 64, 64	128, 64, 96	128, 64, 128	128, 64, 160	128, 64, 192	128, 64, 224	128, 64, 255

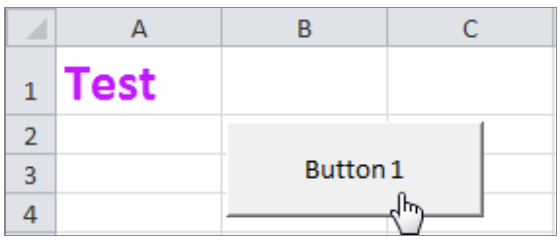
40	128, 96, 0	128, 96, 32	128, 96, 64	128, 96, 96	128, 96, 128	128, 96, 160	128, 96, 192	128, 96, 224	128, 96, 255
41	128, 128, 0	128, 128, 32	128, 128, 64	128, 128, 96	128, 128, 128	128, 128, 160	128, 128, 192	128, 128, 224	128, 128, 255
42	128, 160, 0	128, 160, 32	128, 160, 64	128, 160, 96	128, 160, 128	128, 160, 160	128, 160, 192	128, 160, 224	128, 160, 255
43	128, 192, 0	128, 192, 32	128, 192, 64	128, 192, 96	128, 192, 128	128, 192, 160	128, 192, 192	128, 192, 224	128, 192, 255
44	128, 224, 0	128, 224, 32	128, 224, 64	128, 224, 96	128, 224, 128	128, 224, 160	128, 224, 192	128, 224, 224	128, 224, 255
45	128, 255, 0	128, 255, 32	128, 255, 64	128, 255, 96	128, 255, 128	128, 255, 160	128, 255, 192	128, 255, 224	128, 255, 255
46	160, 0, 0	160, 0, 32	160, 0, 64	160, 0, 96	160, 0, 128	160, 0, 160	160, 0, 192	160, 0, 224	160, 0, 255
47	160, 32, 0	160, 32, 32	160, 32, 64	160, 32, 96	160, 32, 128	160, 32, 160	160, 32, 192	160, 32, 224	160, 32, 255
48	160, 64, 0	160, 64, 32	160, 64, 64	160, 64, 96	160, 64, 128	160, 64, 160	160, 64, 192	160, 64, 224	160, 64, 255
49	160, 96, 0	160, 96, 32	160, 96, 64	160, 96, 96	160, 96, 128	160, 96, 160	160, 96, 192	160, 96, 224	160, 96, 255
50	160, 128, 0	160, 128, 32	160, 128, 64	160, 128, 96	160, 128, 128	160, 128, 160	160, 128, 192	160, 128, 224	160, 128, 255
51	160, 160, 0	160, 160, 32	160, 160, 64	160, 160, 96	160, 160, 128	160, 160, 160	160, 160, 192	160, 160, 224	160, 160, 255
52	160, 192, 0	160, 192, 32	160, 192, 64	160, 192, 96	160, 192, 128	160, 192, 160	160, 192, 192	160, 192, 224	160, 192, 255
53	160, 224, 0	160, 224, 32	160, 224, 64	160, 224, 96	160, 224, 128	160, 224, 160	160, 224, 192	160, 224, 224	160, 224, 255
54	160, 255, 0	160, 255, 32	160, 255, 64	160, 255, 96	160, 255, 128	160, 255, 160	160, 255, 192	160, 255, 224	160, 255, 255
55	192, 0, 0	192, 0, 32	192, 0, 64	192, 0, 96	192, 0, 128	192, 0, 160	192, 0, 192	192, 0, 224	192, 0, 255
56	192, 32, 0	192, 32, 32	192, 32, 64	192, 32, 96	192, 32, 128	192, 32, 160	192, 32, 192	192, 32, 224	192, 32, 255
57	192, 64, 0	192, 64, 32	192, 64, 64	192, 64, 96	192, 64, 128	192, 64, 160	192, 64, 192	192, 64, 224	192, 64, 255
58	192, 96, 0	192, 96, 32	192, 96, 64	192, 96, 96	192, 96, 128	192, 96, 160	192, 96, 192	192, 96, 224	192, 96, 255
59	192, 128, 0	192, 128, 32	192, 128, 64	192, 128, 96	192, 128, 128	192, 128, 160	192, 128, 192	192, 128, 224	192, 128, 255
60	192, 160, 0	192, 160, 32	192, 160, 64	192, 160, 96	192, 160, 128	192, 160, 160	192, 160, 192	192, 160, 224	192, 160, 255
61	192, 192, 0	192, 192, 32	192, 192, 64	192, 192, 96	192, 192, 128	192, 192, 160	192, 192, 192	192, 192, 224	192, 192, 255
62	192, 224, 0	192, 224, 32	192, 224, 64	192, 224, 96	192, 224, 128	192, 224, 160	192, 224, 192	192, 224, 224	192, 224, 255
63	192, 255, 0	192, 255, 32	192, 255, 64	192, 255, 96	192, 255, 128	192, 255, 160	192, 255, 192	192, 255, 224	192, 255, 255
64	224, 0, 0	224, 0, 32	224, 0, 64	224, 0, 96	224, 0, 128	224, 0, 160	224, 0, 192	224, 0, 224	224, 0, 255
65	224, 32, 0	224, 32, 32	224, 32, 64	224, 32, 96	224, 32, 128	224, 32, 160	224, 32, 192	224, 32, 224	224, 32, 255
66	224, 64, 0	224, 64, 32	224, 64, 64	224, 64, 96	224, 64, 128	224, 64, 160	224, 64, 192	224, 64, 224	224, 64, 255
67	224, 96, 0	224, 96, 32	224, 96, 64	224, 96, 96	224, 96, 128	224, 96, 160	224, 96, 192	224, 96, 224	224, 96, 255
68	224, 128, 0	224, 128, 32	224, 128, 64	224, 128, 96	224, 128, 128	224, 128, 160	224, 128, 192	224, 128, 224	224, 128, 255
69	224, 160, 0	224, 160, 32	224, 160, 64	224, 160, 96	224, 160, 128	224, 160, 160	224, 160, 192	224, 160, 224	224, 160, 255
70	224, 192, 0	224, 192, 32	224, 192, 64	224, 192, 96	224, 192, 128	224, 192, 160	224, 192, 192	224, 192, 224	224, 192, 255
71	224, 224, 0	224, 224, 32	224, 224, 64	224, 224, 96	224, 224, 128	224, 224, 160	224, 224, 192	224, 224, 224	224, 224, 255
72	224, 255, 0	224, 255, 32	224, 255, 64	224, 255, 96	224, 255, 128	224, 255, 160	224, 255, 192	224, 255, 224	224, 255, 255
73	255, 0, 0	255, 0, 32	255, 0, 64	255, 0, 96	255, 0, 128	255, 0, 160	255, 0, 192	255, 0, 224	255, 0, 255
74	255, 32, 0	255, 32, 32	255, 32, 64	255, 32, 96	255, 32, 128	255, 32, 160	255, 32, 192	255, 32, 224	255, 32, 255
75	255, 64, 0	255, 64, 32	255, 64, 64	255, 64, 96	255, 64, 128	255, 64, 160	255, 64, 192	255, 64, 224	255, 64, 255
76	255, 96, 0	255, 96, 32	255, 96, 64	255, 96, 96	255, 96, 128	255, 96, 160	255, 96, 192	255, 96, 224	255, 96, 255
77	255, 128, 0	255, 128, 32	255, 128, 64	255, 128, 96	255, 128, 128	255, 128, 160	255, 128, 192	255, 128, 224	255, 128, 255
78	255, 160, 0	255, 160, 32	255, 160, 64	255, 160, 96	255, 160, 128	255, 160, 160	255, 160, 192	255, 160, 224	255, 160, 255
79	255, 192, 0	255, 192, 32	255, 192, 64	255, 192, 96	255, 192, 128	255, 192, 160	255, 192, 192	255, 192, 224	255, 192, 255
80	255, 224, 0	255, 224, 32	255, 224, 64	255, 224, 96	255, 224, 128	255, 224, 160	255, 224, 192	255, 224, 224	255, 224, 255
81	255, 255, 0	255, 255, 32	255, 255, 64	255, 255, 96	255, 255, 128	255, 255, 160	255, 255, 192	255, 255, 224	255, 255, 255

Choose the color that you want from this utility and just copy the three values into the **RGB(red_value, green_value, blue_value)**.

So to change our text color to the violet above, we should use the following code :

```
Sub example()
   'Text color for A1 : RGB(192, 24, 255)
   Range("A1").Font.Color = RGB(192, 24, 255)
End Sub
```

This code will produce the following result :



For versions of Excel lower than 2007 : the number of colors is limited (the closest available color to the RGB values will be used).

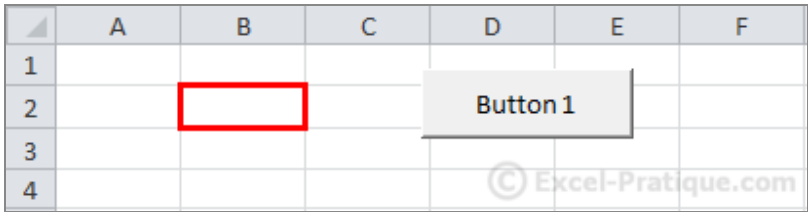
Add colored borders :

We will now create a macro that adds a border to the active cell using **ActiveCell**.

The border will be heavy and red :

```
Sub example()
   'Border weight
   ActiveCell.Borders.Weight = 4
   'Border color : red
   ActiveCell.Borders.Color = RGB(255, 0, 0)
End Sub
```

Result :



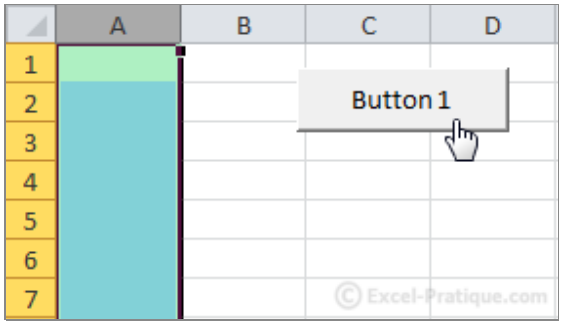
To apply this effect to many cells at once, we can use the **Selection** command:

```
Sub example()
   'Border weight
   Selection.Borders.Weight = 4
   'Border color : red
   Selection.Borders.Color = RGB(255, 0, 0)
End Sub
```

Add background color to the selected cells :

```
Sub example()
   'Add background color to the selected cells
   Selection.Interior.Color = RGB(174, 240, 194)
End Sub
```

Result :



Add color to the tab for a worksheet :

```
Sub example()
   'Add color to the tab for "Sheet1"
   Sheets("Sheet1").Tab.Color = RGB(255, 0, 0)
End Sub
```

Result :