

VBA - OBJECT VARIABLES (SHORT)

WHAT IS AN OBJECT VARIABLE?

Represents things like Workbook, Worksheet, Range, Chart
Use Set keyword to assign object to variable
Work with object through variable

Declaration:

```
Dim ws As Worksheet  
Dim rng As Range
```

EXAMPLE - RANGE OBJECT VARIABLE

```
Sub ObjectVariableRange()  
    Dim ws As Worksheet  
    Dim rng As Range  
  
    ' Assign Sheet1 to ws  
    Set ws = ThisWorkbook.Sheets("Sheet1")  
  
    ' Assign range A2:A6 to rng  
    Set rng = ws.Range("A2:A6")  
  
    ' Format using object variable  
    rng.Font.Color = vbGreen  
    rng.Font.Bold = True  
  
    MsgBox "Range formatting done!"  
End Sub
```

Result:

- ws = Sheet1
- rng = A2:A6
- Font = Green and Bold

COMMON OBJECT TYPES

```
Dim wb As Workbook  
Dim ws As Worksheet  
Dim rng As Range  
Dim chart As Chart  
Dim cell As Range
```

KEY POINTS

- ✓ Object variable holds reference to object
- ✓ Use Set to assign (not =)
- ✓ Worksheet, Range, Chart are objects
- ✓ Work with object through variable
- ✓ Easier to read and manage
- ✓ No Set needed for simple types (Integer, String)
- ✓ Set not = for object assignment

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