

VBA - PRIVATE VARIABLES (SHORT)

PRIVATE VARIABLES

Declared at top of module (before Subs)
Available to all Subs in that module only
Cannot access from other modules

Declaration:

```
Private counter As Integer
```

Example:

```
' At top of module
```

```
Private counter As Integer
```

```
Sub IncreaseCounters()  
    counter = counter + 1  
    MsgBox "Counter is now " & counter  
End Sub
```

```
Sub ShowCounter()  
    MsgBox "Current Counter = " & counter  
End Sub
```

Result:

- Both Subs share same counter
- Counter keeps value between calls
- Run 1: counter = 1
- Run 2: counter = 2
- Subs remember the value

SCOPE COMPARISON

Scope	Where	Available To
Local	Inside Sub	Only that Sub
Private	Top module	All Subs in module
Public	Top module	Entire project

KEY POINTS

- ✓ Declared with Private at module top
- ✓ All Subs in module can use
- ✓ Cannot access from other modules
- ✓ Value persists between Sub calls
- ✓ Better than Public (limited scope)
- ✓ Use when multiple Subs share data
- ✓ More secure than Public