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# How to Set Powerpoint Object to Width or Height by Inches in VBA?

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The below code changes the width and height of any object in Powerpoint to exactly 5 inches without changing the aspect ratio. The aspect ratio is the ratio of height and width. Keeping the same aspect ratio prevents an image from looking stretched. But before you run this code/macro, you first need to select the object for which you want to change width else it will alert you to select the object.

In VBA, height and width properties are specified in points as units. (So if `shp.Height = 1` means height is set as 1 point.)

One inch is equal to 72 points. So if you want to change the width to 5 inches, you would set the width property to  $360 = 5 * 72$ . To keep the aspect ratio the same, we would multiple height by the same height-to-width ratios.

```
Public Sub changeObjectSizeInch()  
    On Error GoTo Err_Handler  
    Dim shp As Shape  
    Dim lWidth As Long, lHeight As Long  
  
    If ActiveWindow.Selection.Type = ppSelectionNone Then  
        MsgBox "Please select embedded OLE object", vbExclamation, "Make Selection"  
    Else  
        Set shp = ActiveWindow.Selection.ShapeRange(1)  
  
        lHeight = shp.Height  
        lWidth = shp.Width  
  
        shp.Height = 5 * 72 * lHeight / lWidth  
        shp.Width = 5 * 72  
    End If  
  
Exit_Label:  
    On Error Resume Next  
    Set shp = Nothing  
    Exit Sub  
Err_Handler:  
    MsgBox Err.Description, vbCritical  
    Resume Exit_Label  
End Sub
```

To change the # of inches, replace the "5" in both lines to the # of inches you want.

```
shp.Height = [# of inches] * 72 * lHeight / lWidth  
shp.Width = [# of inches] * 72
```

To set the height to 5 inches and adjust width to the same aspect ratio, replace the code above with this.

```
shp.Height = 5 * 72  
shp.Width = 5 * 72 * lWidth / lHeight
```

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