

Adding a FeatureClass to ArcMap

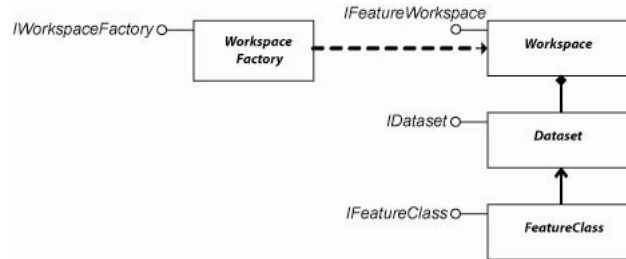
- Adds a shapefile to an active map (can be modified to add geodatabase or coverage, as well)
- Same function as hitting the “Add Data” button
- Need to know the format of the data
- Helpful if your data is scattered or you access it remotely using a password, etc.

Workspace Factory

- A WorkspaceFactory is a dispenser of workspaces and allows a client to connect to a workspace specified by a set of connection properties.
- A workspace represents a database or a datasource that contains one or more datasets. Examples of datasets include tables, feature classes and relationship classes.

Workspace Factory

- To get a data set, no matter where it's stored, must first get its workspace
- You get a workspace from a coclass called a workspace factory
- Process is to create a workspace factory, use it to get a workspace, and then get the dataset you want from the workspace



Example Macro

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```

Private Sub AddFeatureClass()
    Dim pMxDoc As IMxDocument
    Dim pMap As IMap
    Dim pWorkspaceFactory As IWorkspaceFactory
    Dim pFeatureWorkspace As IFeatureWorkspace
    Dim pFeatureLayer As IFeatureLayer
    Dim pFeatureClass As IFeatureClass
    'Specify the workspace and the feature class
    Set pWorkspaceFactory = NewShapefileWorkspaceFactory
    Set pFeatureWorkspace = pWorkspaceFactory.OpenFromFile("G:\Alaska_data\", 0)
    Set pFeatureClass = pFeatureWorkspace.OpenFeatureClass("AK_quakesprj")
    'Prepare a feature layer
    Set pFeatureLayer = NewFeatureLayer
    Set pFeatureLayer.FeatureClass = pFeatureClass
    pFeatureLayer.Name = pFeatureLayer.FeatureClass.AliasName
    'Add the feature layer to the active map
    Set pMxDoc = ThisDocument
    Set pMap = pMxDoc.FocusMap
    pMap.AddLayer pFeatureLayer
    'Refresh the active view
    pMxDoc.ActiveView.Refresh
End Sub
  
```

Sources

- Burke. *Getting to Know ArcObjects: Programming ArcGIS with VBA*.
- Chang, Kang-Tsung. *Programming ArcObjects with VBA: A Task-Oriented Approach*.

- **ESRI Developer Network**

http://edndoc.esri.com//arcobjects/9.2/CPP_VB6_VBA_VCPP_Doc/COM_Samples_Docs/Developer_Scenarios/ArcGIS_Desktop/Illustrated_Code_Samples/275bc1b7-e10b-4fbc-8563-a46953811ccc.htm