Adding a Raster Data Set to ArcMap

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Steps to Adding a Raster Data Set
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- Locate the workspace that contains the data set
- Get the data set by its name
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- Locate the workspace that contains the data set
- Get the data set by its name
- Associate the data set with a new layer
- Add the new layer to a map
Locate Your Workspace

- Begin with a RasterWorkspaceFactory
- Declare the variable to IWorkspaceFactory so you can use the OpenFromFile method

```vba
Dim pRWFactory As IWorkspaceFactory
Set pRWFactory = New RasterWorkspace Factory

Dim pRasterWorkspace As IRasterWorkspace
Set pRasterWorkspace = pRWFactory.OpenFromFile(E:\, 0)
```

Get the Data Set

- Use the IRasterWorkspace which has the OpenRasterDataset method

```vba
Dim pRDataset As IRasterDataset
Set pRDataset = pRWorkspace.OpenRasterDataset manhattan1890.sid
```

- Create a new raster layer

```vba
Dim pRLayer As IRasterLayer
Set pRLayer = New Raster Layer
```
Associate the Data Set With the New Layer

- Run the CreateFromDataset method on the IRasterLayer interface
  
  ```vba
  pRLayer.CreateFromDataset pRDataset
  ```

- Name the New Layer
  
  ```vba
  pRLayer.Name = “Manhattan 1890”
  ```

Add the Raster Layer to the Map!

- Do this like any other layer
  
  ```vba
  Dim pMxDoc As IMxDocument
  Set pMxDoc = ThisDocument
  pMxDoc.AddLayer pRLayer
  ```
Source

- Class Text:
  Getting to Know ArcObjects
  - Ch 14