Inference Studio QuickStart 5

Use an Inference DataFrame in Inference Studio

This Inference Studio QuickStart shows you how to:

- Include a data set in your Inference Studio document.
- Access the data quickly and easily in your R code.

For more details about how to create an Inference in Excel DataFrame, please see **Inference DataFrames QuickStart 1: *Assemble data to access from R code*.**

1. Add a new data set.

To add a new data set to your Inference Parts Container:

1. Click the **Data Sets** tab.
2. If you have Excel 2003, click **New** > **Inference in Excel 2003 DataFrame Document**.
   If you have Excel 2007, click **New** > **Inference in Excel 2007 DataFrame Document**.

   Note: If you do not have Excel 2003 or Excel 2007, you can download a blank Inference DataFrame .xls document from Inference Online. After adding your data, save and close the file. Then, click **Import** > **Inference in Excel 2007 DataFrame Document.**
3. In the **Create New Data Set** dialog box, enter **MyData** as the name for your data set, then click **Create**. (The file created is embedded within the Inference Parts Container, but you can also export it.)
4. For this example, add some simple data to your data frame as follows:

	A	B	C	D
1	SDMLDataType			
2	Label			
3	Units			
4				
5	variable	index	Length	Width
6			1.2	2.2
7			2.3	3.3

5. Close the Excel window. The data set will automatically be saved as part of your Inference Parts Container.

2. Use R code to access data from an Inference DataFrame

When you execute an Inference Studio document, Inference automatically creates regular R data frames based on the Inference DataFrames. Therefore,

To access the maximum length in the first column of the data frame created in the previous step:

1. Click **Code Blocks** tab.
2. Click the **New** ('+') icon.
3. In the code editing window, insert the following code:

```
max(MyData$Length)
```

4. In the **Debugging** section of the ribbon, click **Start**.
5. In the Code Results window, you'll see:

```
[1] 2.3
```