

# Installing the JavaScript Visualization Framework - JSViz - into Spotfire Desktop

#### Introduction

The JavaScript Visualization Custom Extension, or JSViz, is a plugin for TIBCO Spotfire that allows users to create their own visualizations using JavaScript libraries such as D3. Usually this extension would be deployed on a Spotfire Server and Spotfire Analyst would pick up the extension from the Spotfire Server when starting up.

However, Spotfire Desktop does not connect to a Spotfire Server so we have to find a different way to deploy the extension.

#### **Pre-Requisites**

You will need to download and install Spotfire Desktop 6.5 or 7.0.

You will also need to download the JSViz v2.4.0.x package from TIBCO Community:

https://community.tibco.com/wiki/javascript-visualization-framework-jsviz

No additional software is required other than a Text Editor.

NOTE: If Internet Explorer is used to download the JSViz zip file, the zip file must be "unblocked" before continuing with the installation. To do this, right-click on the zip file, check the "unblock" option and click OK.

This step is not required if Chrome or some other browser was used to download the file.

## **Spotfire Desktop**

By default, Spotfire Desktop installs into the following folder:

C:\Users\<user>\AppData\Local\TIBCO\Spotfire Desktop\7.0.0

Where <user> is the name of the Windows User that performed the installation. If multiple users have installed Spotfire Desktop then these steps will need to be performed FOR EACH USER.

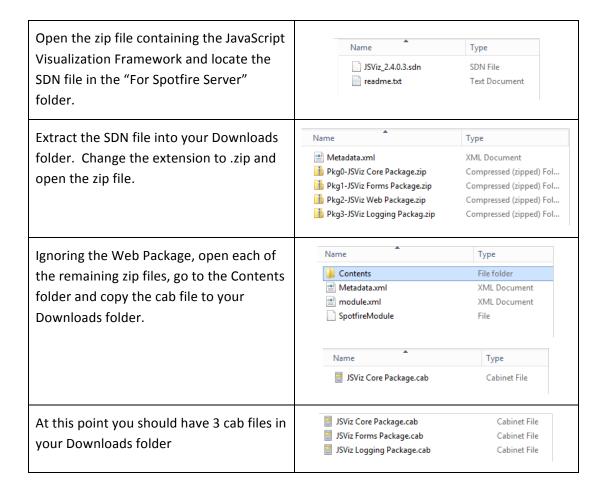




#### Step #1 - Extracting the JSViz Files

These instructions assume that you have downloaded the zip file containing the JavaScript Visualization Framework into your Downloads folder.

NOTE: You may need to change your Windows Explorer view settings to see the extension of the files.

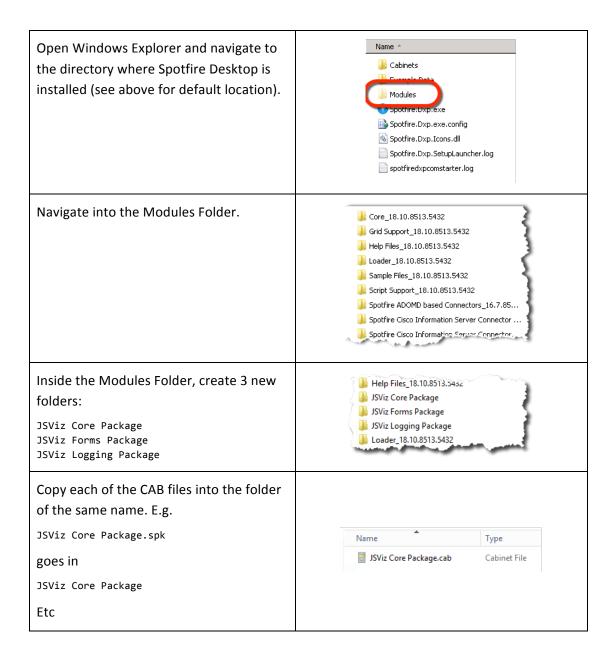




#### Step #2 - Installing the Files

These instructions assume that you have completed Step #1 and have the 3 cab files in your Downloads folder.

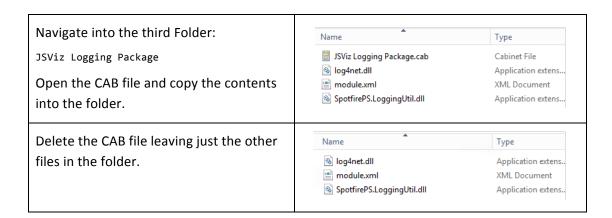
NOTE: You may need to change your Windows Explorer view settings to be able to see the Modules Folder.





Navigate into the first folder:  JSViz Core Package  Open the CAB file and copy the contents into the folder.	Name    JSViz Core Package.cab   module.xml   Newtonsoft.Json.dll   SpotfirePS.Framework.JSVis	Type  Cabinet File  XML Document  Application extens  Application extens	
Delete the CAB file leaving just the other files in the folder.	Name  module.xml Newtonsoft.Json.dll SpotfirePS.Framework.JSVis	Type  XML Document  Application extens  Application extens	

Navigate into the second Folder:	Name	Туре
JSViz Forms Package  Open the CAB file and copy the contents into the folder.	JSViz Forms Package.cab module.xml Newtonsoft.Json.dll SciLexer.dll SciLexer64.dll ScintillaNET.dll SpotfirePS.Framework.JSVisualizationFor	Cabinet File XML Document Application extens Application extens Application extens Application extens Application extens
Delete the CAB file leaving just the other files in the folder.	Name  module.xml Newtonsoft.Json.dll Scil.exer.dll Scil.exer64.dll ScintillaNET.dll SpotfirePS.Framework.JSVisualizationFor	Type  XML Document Application extens Application extens Application extens Application extens
Make a sub-folder called Libs and move the SciLexer.dll, SciLexer64.dll and ScintillaNET.dll files in this folder.	Name  Libs module.xml Newtonsoft.Json.dll SpotfirePS.Framework.JSVisualizationFor	Type  File folder  XML Document  Application extens  Application extens



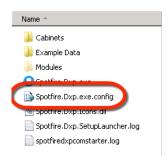
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### Step #3 - Editing the Spotfire Desktop Configuration Files

Now that we have the files installed, we just need to tell Spotfire Desktop where to find them.

Open Windows Explorer and navigate to the directory where Spotfire Desktop is installed (see above for default location). Locate the file, "Spotfire.Dxp.Exe.config" and open it for editing.



Add the sections highlighted below. Remember to replace the "Administrator" user with whatever username is already present in the file. Put another way, the first part of the pathnames should be identical.

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <configSections>
    <section name="Spotfire.Dxp" type="Spotfire.Dxp.Starter.DxpStarterSettings, Spotfire.Dxp"/>
  </configSections>
  <Spotfire.Dxp>
    <modules>
      <folder path="C:\Users\Administrator\AppData\Local\TIBCO\Spotfire Desktop\7.0.0\Modules"/>
      <folder path="C:\Users\Administrator\AppData\Local\TIBCO\Spotfire Desktop\7.0.0\Modules\JSViz Core Package"/>
     <folder path="C:\Users\Administrator\AppData\Local\TIBCO\Spotfire Desktop\7.0.0\Modules\JSViz Forms Package"/>
      <folder path="C:\Users\Administrator\AppData\Local\TIBCO\Spotfire Desktop\7.0.0\Modules\JSViz Logging Package"/>
    </modules>
    <arguments:
      <argument name="loadAllModules" />
    </arguments>
    <defaultLanguage value="en-US"/>
  </Spotfire.Dxp>
 <startup useLegacvV2RuntimeActivationPolicv="true">
   <!-- Prefer .Net framework v4.0, fallback to v2.0. -->
    <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.0"/>
    <supportedRuntime version="v2.0.50727"/>
</configuration>
```

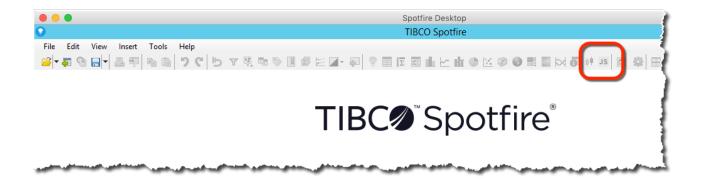
Save the file.





#### Step #4 - Validation

After you have completed all the above steps, open Spotfire Desktop and you should see the JSViz Icon on the Visualizations Toolbar:



Now you should be able to open the sample visualizations supplied with JSViz.

