

Installing and Configuring NaturalDocs for use with JMP

I am creating this document in parallel with the installation and configuration of NaturalDocs on a P running Windows 10.

Preparation

Visit <http://www.naturaldocs.org>.

There is a Getting Started Guide (http://www.naturaldocs.org/getting_started/) that includes how to download and install the software. You should refer to this guide, but in this document I will point out the key steps.

Installation kits can be found at this location:

<http://www.naturaldocs.org/download/>

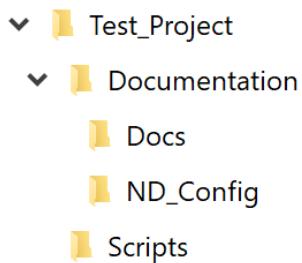
There is an MSI windows installer which will install the software to C:\Program Files (x86)\Natural Docs\ by default.

However, the installation is fairly trivial, so I will take the zip-file download option.

Once the zip file is downloaded, I unzip it to My Documents. Here is creates a NaturalDocs folder.

Project Creation

I have a folder where I place all my JSL projects. To test NaturalDocs I create a new folder 'Test_Project'. I create 2 subfolders: 'Scripts' and 'Documentation'. The scripts folder is where all my JSL files will be found, and the output documentation will go into the documentation folder. IN fact it is convenient to create 2 additional subfolders under documentation – docs will receive output HTML files and other configuration files will be saved by NaturalDocs in ND_Config.



Test Script

I create a test script with the following content and save it to the scripts folder (it can be any name so long as it has a JSL file extension):

```
*****  
Function: Day Of Week As String  
  
Returns the day of the week for example "Monday"  
  
Parameters:  
  
datetime - date time to be converted to a week day  
  
Returns:  
  
Day of the week as a text string  
  
*****/  
Day Of Week As String = Function({datetime},{Default Local},  
    Choose( Day Of Week(datetime),  
        "Sun","Mon","Tue","Wed","Thur","Fri","Sat"  
    )  
);
```

The header of the script contains keywords that are recognised by the NaturalDocs text processor.

JSL Support

JSL is not in the list of standard programming languages as so NaturalDocs needs to be configured to handle JSL files.

In the NaturalDocs installation folder there is a Config directory. Open the file languages.txt. You will see blocks of descriptions for a range of languages. Following the last language (Fortran) add these lines:

```
Language: JSL  
  
Extension: jsl  
Line Comment: //  
Block Comment: /* */  
Enum Values: Under type
```

Specifically, for the way that I am using the embedded annotations this tells NaturalDocs to look for JSL files and how to recognise comment blocks.

Batch File

NaturalDocs runs using command line statements. The structure has changed between version 1 and version 2 but there is backward compatibility so for now I will use version 1 format.

I typically create a separate .BAT file each project that I work on. The file needs to contain the following statement:

```
NaturalDocs  
-i C:\JSL\Test_Project  
-o HTML C:\JSL\Test_Project\Documentation\Docs  
-p C:\JSL\Test_Project\Documentation\ND_Config
```

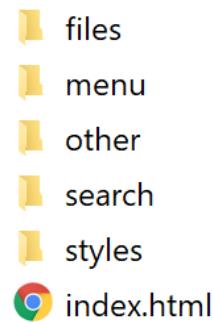
(for readability I have split it across multiple lines but there should not be any line breaks).

-i identifies the path the project that contains the JSL files

-o identifies the path to the folder that will contain the output HTML documentation

-p identifies the path to the folder that will contains NaturalDocs configuration files.

Run the script and the following file structure should appear in the docs folder:



Launch the index.html file:

The screenshot shows a web-based documentation interface. On the left, there's a sidebar with 'Files' and 'test script.jsl'. The main content area has a purple header 'Source Documentation'. Below the header, there are two columns: 'Functions' and 'FUNCTIONS'. The 'Functions' column lists 'Day Of Week As String'. The 'FUNCTIONS' column has a heading 'FUNCTIONS' and details for the 'Day Of Week As String' function, including its description, parameters ('datetime'), and return value ('Day of the week as a text string').

Files	Functions	FUNCTIONS
test script.jsl	Day Of Week As String	FUNCTIONS Day Of Week As String Returns the day of the week for example "Monday" Parameters datetime date time to be converted to a week day Returns Day of the week as a text string

Job done.