

Python, Libs e FME:

Instalando e Integrando código Python
no FME Form

01

INTRODUÇÃO

02

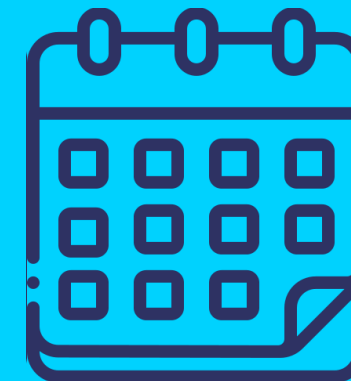
PYTHON & FME: CONTEXTO

03

TRANSFORMERS

04

EXEMPLO PRÁTICO: SHAPIRO WILK



AGENDA



Prazer,

Thiago Brigagão

Sou apaixonado por tecnologias há 17 anos, e minha jornada profissional começou com um simples desejo de ajudar as pessoas através do suporte técnico. Desde então, essa paixão me levou a uma evolução constante, direcionada ao desenvolvimento de software e aplicativos com diversas linguagens, como Delphi, PHP, Python e C#.



INTRODUÇÃO

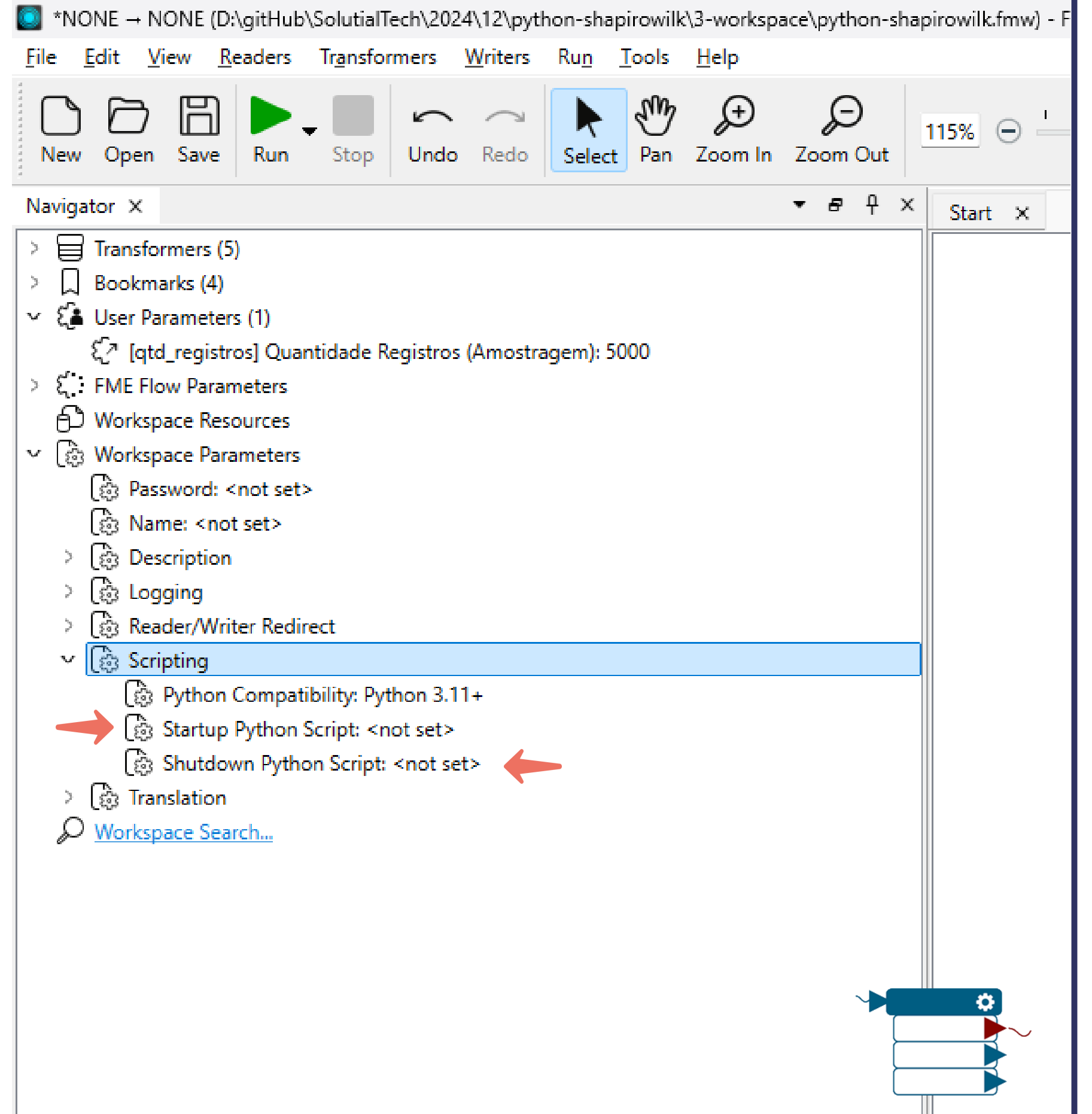
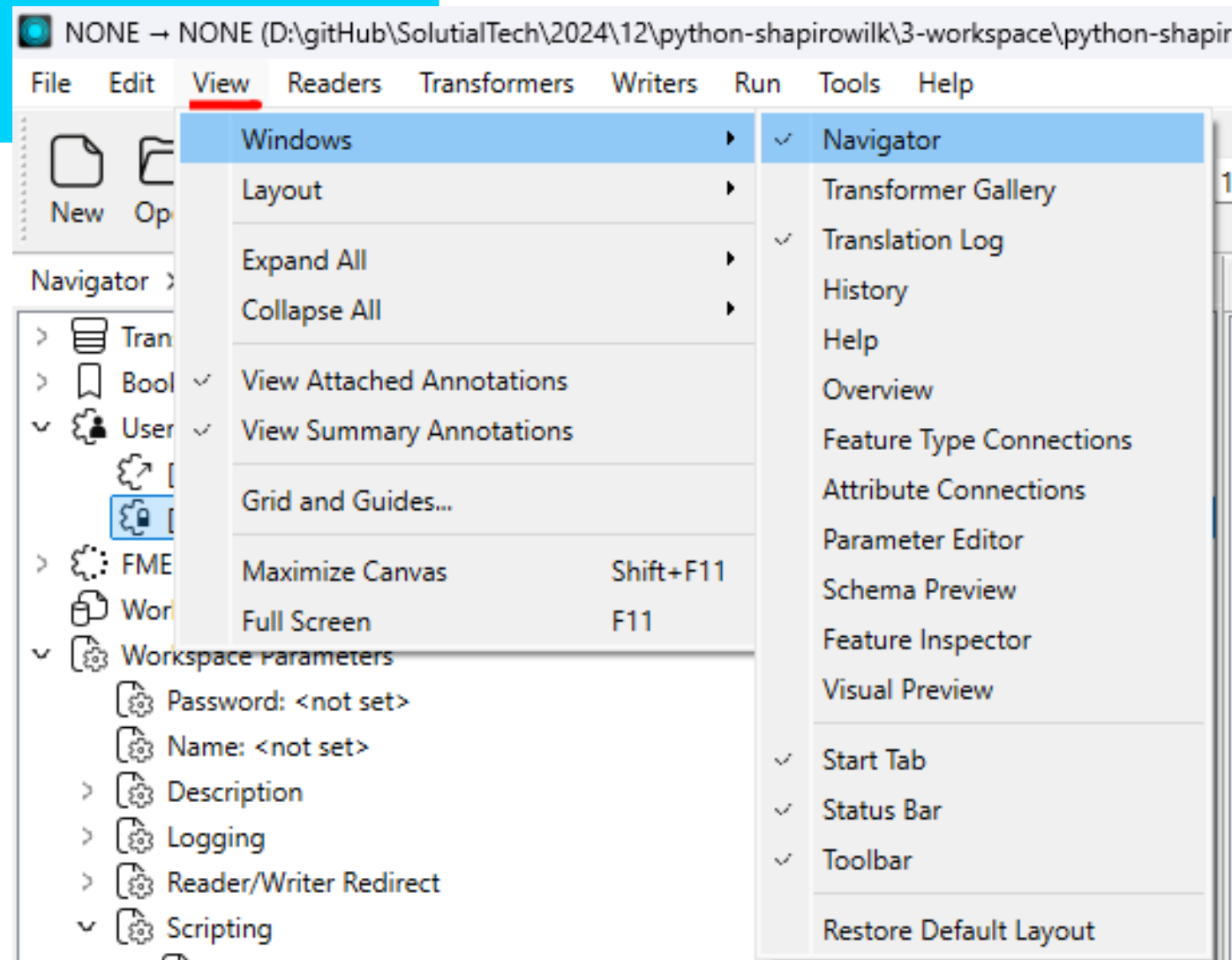
FME:



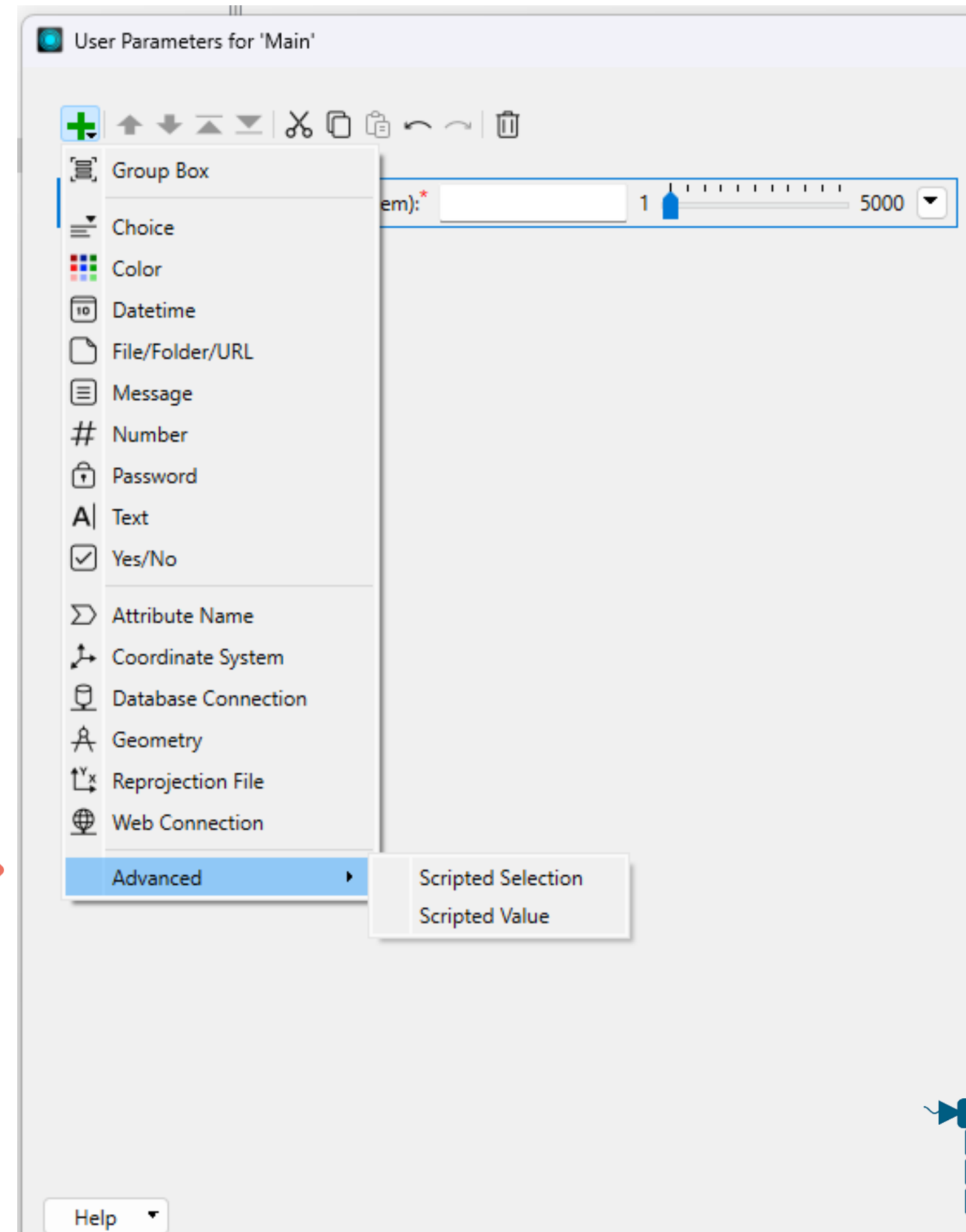
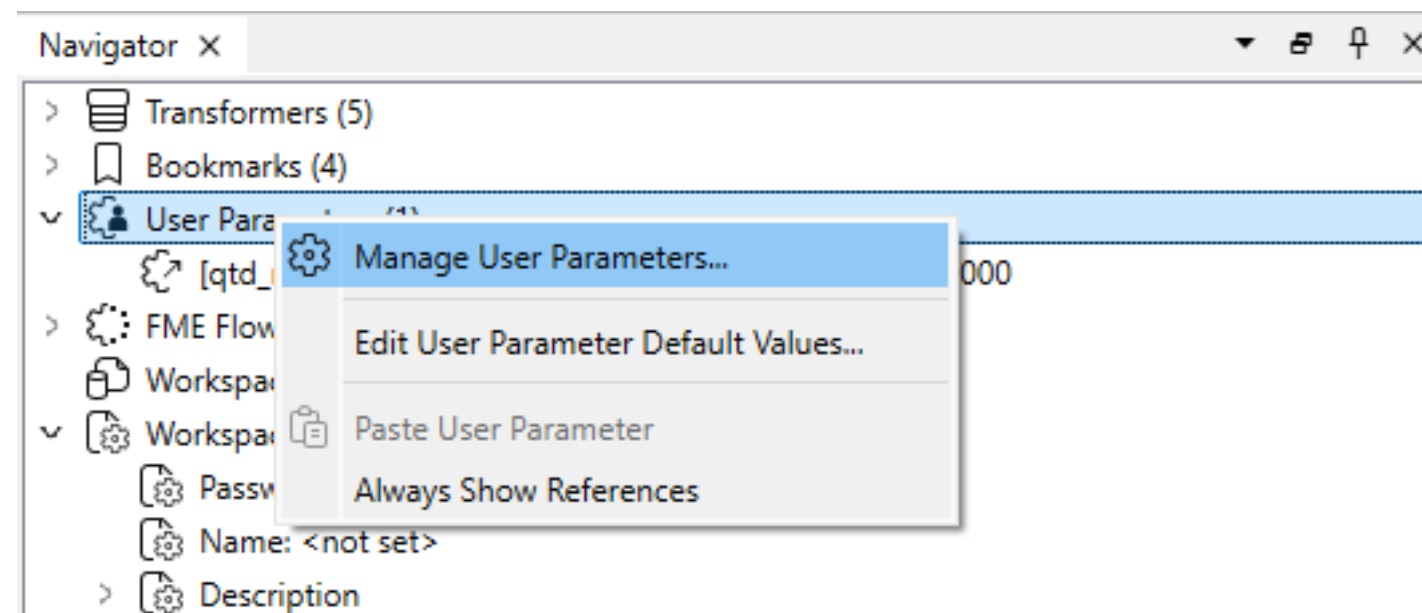
FONTE: <https://studypedia.com/tutorials/python-libraries/>



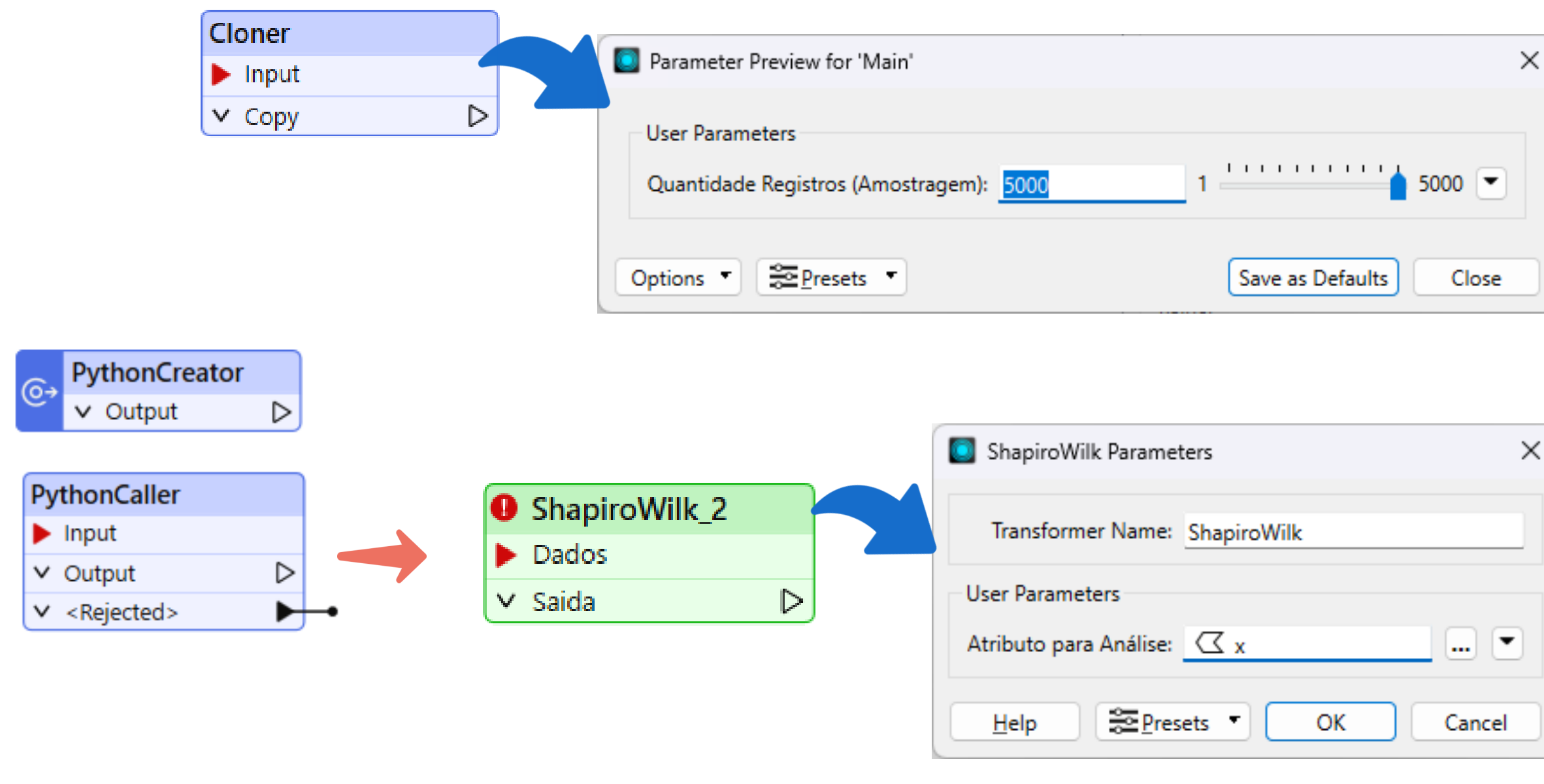
PYTHON & FME



PYTHON & FME



TRANSFORMERS & PARÂMETROS



SCRIPT PYTHON

PythonCaller Parameters

Transformer Name: PythonCaller

☐ Group Processing

Python Script

Class to Process Features: FeatureProcessor

FME Feature Attributes

- x

User Parameters

- <Create User Parameter...>
- attributo_analise

FME Parameters

Expand categories to see items.
Drag or double-click an item
to add the corresponding text.

```
1 import fme
2 from fme import BaseTransformer
3 import fmeobjects
4 import scipy.stats
5
6
7 class FeatureProcessor(BaseTransformer):
8     def __init__(self):
9         self.x = [] # Initialize an empty list to store feature attributes
10        pass
11
12    def has_support_for(self, support_type: int):
13        # Check if the transformer supports the given support type
14        return support_type == fmeobjects.FME_SUPPORT_FEATURE_TABLE_SHIM
15
16    def input(self, feature: fmeobjects.FMEFeature):
17        # Append the 'x' attribute of the feature to the list
18        self.x.append(feature.getAttribute('x'))
19
20    def close(self):
21        # Perform the Shapiro-Wilk test for normality on the collected data
22        results = scipy.stats.shapiro(self.x)
23
24        # Create a new feature to store the test results
25        feature = fmeobjects.FMEFeature()
26        feature.setAttribute('shapiro.result', results[0]) # Set the test statistic
27        feature.setAttribute('shapiro.pvalue', results[1]) # Set the p-value
28
29        # Output the feature with the test results
30        self.pyoutput(feature)
31
32
33    def process_group(self):
34        pass # Placeholder for processing groups of features
35
36    def reject_feature(self, feature: fmeobjects.FMEFeature, code: str, message: str):
37        # Set rejection code and message attributes on the feature
38        feature.setAttribute("fme_rejection_code", code)
39        feature.setAttribute("fme_rejection_message", message)
40        # Output the rejected feature with a specific tag
41        self.pyoutput(feature, output_tag="Rejected")
```

Options AI Assist

Output Attributes

Attributes to Expose: shapiro.result shapiro.pvalue

Attributes To Hide: No items selected.

Lists to Hide: No Attributes Available

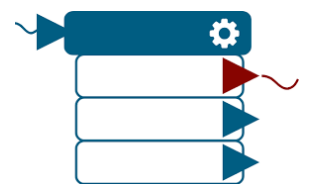




INSTALANDO LIB PYTHON

OBJETIVO: Aprender a instalar uma biblioteca e adicionar código Python

TRANSFORMER: PYTHONCALLER



OBRIGADO!



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