perseuspy Documentation

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Contents

Utility and covenience functions for Python-Perseus interop. Building on the *pandas* package. If you intend to develop a plugin for Perseus, please see PluginInterop.

CHAPTER 1

Installation

Install using pip directly from *github*:

```
pip install git+https://github.com/jdrudolph/perseuspy.git
```

CHAPTER 2

Usage

You can use *perseuspy* just like any other python module.

```
# import a monkey-patched version of pandas
from perseuspy import pd
df = pd.read_perseus('matrix1.txt')
df2 = df.dropna()
df2.to_perseus('matrix2.txt')
```

CHAPTER 3

Plugin template

The following snippet can be used as a starting point for python scripting in Perseus.

```
import sys
from perseuspy import pd
from perseuspy.parameters import *
_, paramfile, infile, outfile = sys.argv # read arguments from the command line
parameters = parse_parameters(paramfile) # parse the parameters file
df = pd.read_perseus(infile) # read the input matrix into a pandas.DataFrame
some_value = doubleParam(parameters, 'some value') # extract a parameter value
df2 = some_value / df.drop('Name', 1)
df2.to_perseus(outfile) # write pandas.DataFrame in Perseus txt format
```

CHAPTER 4

Generating the documentation

Run *./generate_docs.sh* from *bash*.

CHAPTER 5

Indices and tables

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