fairymwah

Release 0.1 alpha

Bart van Osnabrugge

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CONTENTS:

1 Usage **3**
1.1 Installation 3

2 Wrappers **5**
2.1 Github 5
2.2 Python 5
2.3 Why wrappers 5

3 API **7**
3.1 fairymwah 7

4 Indices and tables **9**

Python Module Index **11**

Index **13**

fairymwah is a Python library to organize workflows to build hydrological models. fairymwah stands for FAIR y Model Workflow Assembler for Hydrology.

Check out the *Usage* section for further information, , including how to *install* the project.

Note: This project is in its early stages of development

CHAPTER

ONE

USAGE

1.1 Installation

To use fairymwah, certain dependencies need to be installed. To install using conda:

On the command line or Anaconda prompt go to the fairymwah directory. Then:

```
$ conda env create -f environment.yml
$ conda activate fairy-env
```

Last, the package fairymwah itself needs to be added to the environment:

```
$ pip install -e .
```

CHAPTER

TWO

WRAPPERS

Many development work is done is different languages or with different code bases. To maintain original authorship, the preferred way is to link directly to the original code.

2.1 Github

In github, this is done through submodules. A submodule....

2.2 Python

The preferred way to share code between python developments is through imports.

2.3 Why wrappers

Wrappers are funcions in fairymwah that wrap around submodules. An example is the wrapper to set up SUMMA models, from the summaWorkflow_public submodule:

CHAPTER

THREE

API

fairymwah

3.1 fairymwah

Modules

fairymwah.dsil

fairymwah.mael

fairymwah.mspl

fairymwah.util

fairymwah.wrappers

3.1.1 fairymwah.dsil

3.1.2 fairymwah.mael

3.1.3 fairymwah.mspl

3.1.4 fairymwah.util

3.1.5 fairymwah.wrappers

Modules

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CHAPTER

FOUR

INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

f

fairymwah, 7
fairymwah.dsil, 7
fairymwah.mael, 7
fairymwah.mspl, 7
fairymwah.util, 7
fairymwah.wrappers, 7

INDEX

F

fairymwah
    module, 7
fairymwah.dsil
    module, 7
fairymwah.mael
    module, 7
fairymwah.mspl
    module, 7
fairymwah.util
    module, 7
fairymwah.wrappers
    module, 7

M

module
    fairymwah, 7
    fairymwah.dsil, 7
    fairymwah.mael, 7
    fairymwah.mspl, 7
    fairymwah.util, 7
    fairymwah.wrappers, 7