tree Documentation

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Contents

Welcome to tree's documentation!

This is the Sphinx documentation for the Python product tree

CHAPTER 1

Reference

1.1 tree Reference

1.1.1 Tree

class tree.tree.**Tree**(**args*, ***kwargs*)

Bases: object

Initialize the sdss tree object

This class provides Python programmatic access to the SDSS tree envionment structure

Parameters

- **key** (*str* | *list*) – A section or list of sections of the tree to add into the local environment
- **uproot_with** (*str*) – A new TREE_DIR path used to override an existing TREE_DIR environment variable
- **config** (*str*) – Name of manual config file to load. Default is sdsswork.
- **update** (*bool*) – If True, overwrites existing tree environment variables in your local environment. Default is False.
- **exclude** (*list*) – A list of environment variables to exclude from forced updates

Variables

- **treedir** (*str*) – The directory of the tree
- **environ** (*dict*) – The fully loaded SDSS config file held internally

add_limbs(*key=None*)

Add a new section from the tree into the existing os environment

Parameters **key** (*str*) – The section name to grab from the environment

add_paths_to_os(*key=None*, *update=None*)
Add the paths in tree environ into the os environ

This code goes through the tree environ and checks for existence in the os environ, then adds them

Parameters

- **key** (*str*) – The section name to check against / add
- **update** (*bool*) – If True, overwrites existing tree environment variables in your local environment. Default is False.

branch_out(*limb=None*)
Set the individual section branches

This adds the various sections of the config file into the tree environment for access later. Optically can specify a specific branch. This does not yet load them into the os environment.

Parameters **limb** (*str/list*) – The name of the section of the config to add into the environ or a list of strings

check_paths(*paths*, *update=None*)
Check if the path is in the os environ, and if not add it

Paramters:

paths (OrderedDict): An ordered dict containing all of the paths from the a given section, as key:val = name:path

update (bool): If True, overwrites existing tree environment variables in your local environment. Default is False.

get_paths(*key*)
Retrieve a set of environment paths from the config

Parameters **key** (*str*) – The section name to grab from the environment

Returns *self.environ[newkey] (OrderedDict)* – An ordered dict containing all of the paths from the specified section, as key:val = name:path

list_keys()
List the available keys you can load

load_config(*config=None*)
loads a config file

Parameters **config** (*str*) – Optional name of manual config file to load

replant_tree(*config=None*, *exclude=None*)
Replant the tree with a different config setup

Parameters

- **config** (*str*) – The config name to reload
- **exclude** (*list*) – A list of environment variables to exclude from forced updates

set_roots(*uproot_with=None*)
Set the roots of the tree in the os environment

Parameters **uproot_with** (*str*) – A new TREE_DIR path used to override an existing TREE_DIR environment variable

CHAPTER 2

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