
tree Documentation

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Welcome to tree's documentation!

This is the Sphinx documentation for the Python product tree

- What's new in tree?
- Installation of python package
- Introduction to the Tree
- Tree environment configuration
- Setting up the Tree in your local enviroment
- Adding a new path into the Tree

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 environment 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

Parameters:

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_available_releases ()

Get the available releases

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_available_configs ()

List the available config files able to be loaded

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

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