Python Documentation Numpy Doc

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1 Numpy Doc Documentation Guide

Go to the **RMD**, **PDF**, or **HTML** version of this file. Go back to fan's Python Code Examples Repository (bookdown site).

- sphinxcontrib-napoleon examples.
- numpydoc examples.

1.1 Parameters

Style 1:

```
Parameters
----------
n : int
    The upper limit of the range to generate, from 0 to `n` - 1.
param1 : int
    The first parameter.
param1 : str
    Description of `param1`.
msg : str
    Human readable string describing the exception.
param1 : int
    The first parameter.
param2 : str
    The second parameter.
param3 : str, optional
    The second parameter.
```

Style 2:

```
Parameters
----------
param2 : :obj:`str`, optional
    The second parameter.
code : :obj:`int`, optional
```

```
    Numeric error code.
param3 : :obj:`int`, optional
    Description of `param3`.
param4 : :obj:`list` of :obj:`str`
    Description of `param2`. Multiple
    lines are supported.
```

For args and kwargs:

```
Parameters
----------
*args
    Variable length argument list.
**kwargs
    Arbitrary keyword arguments.
```

1.2 Returns

```
Returns
-------
numpy.array of shape (1, it_draws)
    A vector of sorted or unsorted random grid points, or equi-quantile
    points.
```

1.3 Examples

```
Examples
--------
>>> fl_mu = 0
>>> fl_sd = 1
>>> it_draws = 5
>>> it_seed = 123
>>> fl_lower_sd = -1
>>> fl_higher_sd = 0.8
>>> it_draw_type = 0
>>> ar_draw_random_normal(fl_mu, fl_sd, it_draws,
...                       it_seed, it_draw_type,
...                       fl_lower_sd, fl_higher_sd)
[-1.          0.8         0.2829785 - 1. - 0.57860025]
>>> it_draw_type = 1
>>> ar_draw_random_normal(fl_mu, fl_sd, it_draws,
...                       it_seed, it_draw_type,
...                       fl_lower_sd, fl_higher_sd)
[-1. - 0.47883617 - 0.06672597  0.3338994   0.8]
>>> it_draw_type = 2
>>> ar_draw_random_normal(fl_mu, fl_sd, it_draws,
...                       it_seed, it_draw_type,
...                       fl_lower_sd, fl_higher_sd)
[-1. - 1. - 0.57860025  0.2829785   0.8]
```