

General

Templates can be written in any markup language. Markdown is a common choice.

Template tags use Jinja2 syntax. Here is the "template designer documentation":<https://jinja.palletsprojects.com/en/2.11.x/templates/> page.

Environment

Precipy populates the jinja environment with information from analytics functions, and about the batch as a whole.

Constants

If there are any constants defined in the config, they are accessible via the `constants` dictionary or directly in the top level namespace.

- `RANDOM_FILENAME = random_0_100.npy`
- `PLOT_FILENAME = plot_with_overlay.png`

Functions

The `functions` top-level object contains a dictionary of `AnalyticsFunctions` objects, keyed by function key.

For this demo, the analytics functions are:

- `write_data_file_without_object`
- `read_data_file_without_object`
- `generate_data`
- `generate_data_1000`
- `plot_values`

Each of these function keys can also be used directly. Let's look at the attributes/methods available for one of these function objects in detail.

plot_values

function_name attribute: >

function_elapsed_seconds attribute: The function took 0.5163979530334473 seconds to run.

function_source attribute, with highlight filter applied:

```
<bound method AnalyticsFunction.function_source of <precipy.analytics_function.AnalyticsFunction object>
```

function_output attribute: The function returned output: None

The kwargs attribute contains function arguments in a dictionary:

- c: 40
- n: 10

The files attribute contains all files associated with this function in a dictionary. Usually these are the files generated as side effects from running the function:

- metadata.pkl
- plot_with_overlay.png

Files

Let's look at the attributes available for a files instance.

Canonical Filename: plot_with_overlay.png

Cache Filepath: /var/folders/wb/1y3rpg4n7798b3nxxlj6vdy80000gn/T/precipy/precipy_demo_cache/e6/e6ec5e651a4ef84f9bb315640a3711223b6786d5f2ec36af2ab383776a457798.png

Public URLs: ['https://storage.googleapis.com/precipy_demo_cache/e6ec5e651a4ef84f9bb315640a3711223b6786d5f2ec36af2ab383776a457798.png']

Depending on the use case, you may wish to link to assets in the output directory (which will be the same directory where documentation will end up. Or the cache filepath, which will be a fully qualified path on the same file system. Or one of the Public URLs which show where the item has been uploaded to cloud storage. (Bucket must be sent to public/anonymous access.)

Here are examples of img tags using each of these three.

