Lumache

Release 0.1

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Apr 06, 2024

CONTENTS

Lumache (/lu'make/) is a Python library for cooks and food lovers that creates recipes mixing random ingredients. It pulls data from the Open Food Facts database and offers a *simple* and *intuitive* API.

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

Note: This project is under active development.

CHAPTER

ONE

CONTENTS

1.1 Usage

1.1.1 Installation

To use Lumache, first install it using pip:

```
(.venv) $ pip install lumache
```

1.1.2 Creating recipes

To retrieve a list of random ingredients, you can use the `lumache.get_random_ingredients()` function:

`lumache.`**`get_random_ingredients`**(*kind=None*)

Return a list of random ingredients as strings.

Parameters
kind (*list[str] or None*) – Optional "kind" of ingredients.

Raises
lumache.InvalidKindError – If the kind is invalid.

Returns
The ingredients list.

Return type
list[str]

The `kind` parameter should be either `"meat"`, `"fish"`, or `"veggies"`. Otherwise, *lumache.get_random_ingredients()* will raise an exception.

exception `lumache.`**`InvalidKindError`**

Raised if the kind is invalid.

For example:

```
>>> import lumache
>>> lumache.get_random_ingredients()
['shells', 'gorgonzola', 'parsley']
```

1.2 API

lumache	Lumache - Python library for cooks and food lovers.

1.2.1 lumache

Lumache - Python library for cooks and food lovers.

Functions

get_random_ingredients([kind])	Return a list of random ingredients as strings.

Exceptions

InvalidKindError	Raised if the kind is invalid.

1.3 Data Quality & Dashboarding

- https://dvc.org/
- https://github.com/agile-lab-dev/DataQuality
- https://github.com/bikash/DataQuality
- https://github.com/frictionlessdata/data-quality-dashboard
- https://www.talend.com/resources/getting-started-creating-data-quality-dashboards/
- https://en.wikipedia.org/wiki/BCBS_239
- https://towardsdatascience.com/data-quality-dashboard-9c60f72b245c
- https://realpython.com/python-data-version-control/
- https://www.nodc.noaa.gov/oads/support/MG54_3.pdf

```
import json
import pandas as pd
```

```
attr = {
    'accuracy': [0.1, 0.1, 0.3],
    'precision': [0.0001, 1, 1],
    'integrity': 0.6,
    'quality': 2,
    'frequency': '1 hr',
    'complete': 0.89,
}
```

```
df1 = pd.DataFrame({'row':[1,2,3,4],
                    'email':['foo@yhaoo.com', 'bar@google.com', 'this@nytimes.com',
↪'that@sada.com'],
                    'ssn': [123, 456, 789, 102],
                    'blood_type': ['A', 'B', 'AB', 'O'],
                    'address': ['455 NE 88th St, Austin, TX 98444', '9221 Terry Ave␣
↪Santa Rosa, ID, 23100', '5498 Bobstole Pl New Haven, CT, 15446', '509 Hwy 43,␣
↪Toupenville, NV 87433'],
                    'salinity': [33.4, 33.2, 12.8, 33.4],
                    'account_total': [450044.98, 2331.00, 58124.40, 0.0]})
df1
```

```
   row             email  ssn blood_type  \
0    1     foo@yhaoo.com  123          A
1    2    bar@google.com  456          B
2    3  this@nytimes.com  789         AB
3    4     that@sada.com  102          O

                                address  salinity  account_total
0       455 NE 88th St, Austin, TX 98444      33.4      450044.98
1   9221 Terry Ave Santa Rosa, ID, 23100      33.2        2331.00
2  5498 Bobstole Pl New Haven, CT, 15446      12.8       58124.40
3      509 Hwy 43, Toupenville, NV 87433      33.4           0.00
```

Lumache has its documentation hosted on Read the Docs.

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