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# Lumache

*Release 0.1*

**Graziella**

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**BIDSconvertR** is an R package for DICOM to BIDS conversion.

It uses dcm2niix by Chris Rorden and covers the whole workflow from DICOM over NIfTI to BIDS.

It has a minimal use of terminal interaction and supports GUI's for sequence mapping and visual QC of the data.

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.

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**Note:** This project is under active development.

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### 1.1 Windows:

afasdfasdf

### 1.2 Ubuntu:

Installation of R in Ubuntu 22.04:

```
:: wget -qO- https://cloud.r-project.org/bin/linux/ubuntu/marutter_pubkey.asc | sudo gpg --dearmor -o /usr/share/keyrings/r-project.gpg
:: echo "deb [signed-by=/usr/share/keyrings/r-project.gpg] https://cloud.r-project.org/bin/linux/ubuntu jammy-cran40/" | sudo tee -a /etc/apt/sources.list.d/r-project.list
```

```
:: sudo apt update
:: sudo apt install --no-install-recommends r-base
:: sudo apt install r-base-dev
:: sudo apt install libcurl4-openssl-dev libssl-dev libxml2-dev libfontconfig1-dev
```

```
:: sudo -i R
```

Installation of required packages in R

```
:: install.packages("devtools")
:: install_github("wulms/bidsconvertr")
# Everything should be installed automatically.
```

This command starts the workflow:

```
:: convert_to_BIDS()
```

## 1.3 Usage

### 1.3.1 Installation

To use Lumache, first install it using pip:

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

### 1.3.2 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']
```

## 1.4 API



### 1.4.1 lumache

Lumache - Python library for cooks and food lovers.

#### Functions

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<code><i>get_random_ingredients</i>([kind])</code>	Return a list of random ingredients as strings.
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#### Exceptions

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<code><i>InvalidKindError</i></code>	Raised if the kind is invalid.
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