

---

# **Lumache**

*Release 0.1*

**Graziella**

**Aug 14, 2022**



# CONTENTS

<b>1</b>	<b>Contents</b>	<b>3</b>
1.1	Usage . . . . .	3
1.2	API . . . . .	3



**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.

---



## CONTENTS

### 1.1 Usage

#### 1.1.1 Installation

To use DARCoMS, first go to the Impact Shock Mechanics Lab Gitlab Repo:

```
git chcheckout DARCoMS
```

#### 1.1.2 Creating a DARCoMS .dms Input File

To run a DARCoMS Multiscale simulation, you must create a .dms input file:

Currently DARCoMS supports the following keywords in its input file NDBASES, FILES, and COUPLING\_SURFACES. Otherwise, an exception will be raised.

An Example .dms Input File is: .. code-block:: console

```
NDBASES      2      FILES      C:UsersDARCOMSBenchmarksTestingB_LargeDomain125.dat
C:UsersDARCOMSBenchmarksTestingB_SmallDomain250.dat      COUPLING_SURFACES
CONST_ACCEL 2 4 1 126 252 378 504 2 1 252 503 754
```

For running Monoscale simulations (single .dat file), the COUPLING\_SURFACES should not be used.

### 1.2 API