
EXCELerator

Release v0.8

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Superseded by fuzzytable, which includes an improved data model and csv compatibility.

- Docs: fuzzytable.readthedocs.io
- PyPI: pypi.org/project/fuzzytable
- github: github.com/jonathanchukinas/fuzzytable

```
pip install fuzzytable
```

EXCELerator documentation:

1.1 Readme

1.1.1 !! EXCELerator is Deprecated !!

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1.2 Anatomy of a Project

1.2.1 Excel Worksheet

- **HEADER**
 - HEADER ROW
- **VALUES**

1.2.2 Tabular Data

(As interpreted by `exceleator.TableReader`)

- **FIELD**
 - FIELD NAME

- HEADER NAME
- COLUMN NUMBER
- DATA
- RECORD

1.3 API Reference

1.3.1 TableParser class

1.3.2 WorksheetParser class

Todo: This class has yet to be implemented.

1.3.3 FieldParser class

1.3.4 Normalizing Data

Basic Use

Let's say you have this very simple table:

Name	Birthday
John Doe	1995
123	2003OCT
Jane Doe	1964
River Song	2019

You want to ensure the first field (Name) returns only strings and the Birthday column returns integers.

```
from excelerator import TableReader
from excelerator import normalize as n

tr = TableReader(
    path='path/to/excel.xlsx',
    sheetname='names and birthdays',
    fields='Name Birthday'.split(),
    normalize=[n.STRING(), n.INTEGER()],
)
fields = tr.get_fields()
```

fields['Name'] returns ['John Doe', '123', 'Jane Doe', 'River Song']

fields['Birthday'] returns [1995, 2003, 1964, 2019]

Note: Here's a common "gotcha": Make sure to instantiate the normalization classes. That is, `normalize=[n.STRING(), n.INTEGER()]` instead of `normalize=[n.STRING, n.INTEGER]`

Create Custom Normalizing Classes

But let's say we don't want the full string from `Names`, but just the first name.

We could subclass either `NormalizeBase` or one of its subclasses. Let's subclass `STRING`.

```
# Continuing our code from above...

class FirstString(n.STRING)

    norm_func = n.STRING().normalize
    # Note the lack of parentheses after normalize
    # We do this here instead of in the normalize method
    # so that n.STRING gets instantiated only once.

    def normalize(self, value):
        # This is the function that gets called to norm your data.
        strings = norm_func(value).split()
        return strings[0]

tr.normalize = [n.FirstString(), n.INTEGER()]
fields = tr.get_fields()
```

`fields['Name']` returns `['John', '123', 'Jane', 'River']`

Pretty easy, right?

Classes

1.3.5 Exceptions

Lists of these functions can be passed as the `normalize` argument of `TableReader`.

1.4 Change Log

1.4.1 v0.8

- library deprecated; superseded by `fuzzytable`.

1.4.2 v0.7

- terminology change: `TableParser`, `FieldParser`, `WorksheetParser`

1.4.3 v0.6

- **TableReader:**
 - moved `path` and `sheetname` parameters from `get_fields` and `get_records` methods to `TableReader()`
 - converted `normalize` functions to classes.
 - updated documentation

1.4.4 v0.5

- **TableReader**
 - `read_from()` method renamed to `get_fields()`
 - new method: `get_records()`

1.4.5 v0.4

- **excelerator.normalize:**
 - `n.STRING()`
 - `n.INTEGER()`
 - `n.INTEGER_LIST()`
- add `normalize` parameter to `TableReader`

1.4.6 v0.3

- add `header_row_num` param to `TableReader`

CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`