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# **ordered-map**

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This package provides:

- A library for reading and writing ordered maps.
- A command line interface for converting an ordered map to YAML and vice versa.

Ordered maps are used in the Arduino platform software to handle [configurations](#) made of key/value pairs stored in files with an INI like syntax.

Please see [ReadTheDocs](#) for the latest documentation.



## INTRODUCTION

This package provides a library for reading and writing ordered maps and a command line interface for converting an ordered map to YAML and vice versa.

Ordered maps are used in the Arduino platform software to handle [configurations](#) made of key/value pairs stored in files with an INI like syntax.

### 1.1 See also

This [Golang](#) library for parsing and generating ordered maps is used in the Arduino platform software.





## INSTALLATION

The software is distributed via [PyPI](#), it can be installed with `pip`:

```
pip install ordered-map
```

### 2.1 From source

The source is hosted on [GitHub](#), to install the latest development version, use the following commands.

```
git clone https://github.com/jfjlaros/ordered-map.git
cd ordered-map
pip install .
```



## USAGE

The command line interface can be used for converting an ordered map to a YAML file or vice versa. It currently has two subcommands: `read` and `write`. Use the `-h` option for more information.

```
ordered_map -h
```

### 3.1 Reading ordered maps

The `read` subcommand is used for reading an ordered map and converting it to YAML.

```
ordered_map read boards.txt boards.yml
```

### 3.2 Writing ordered maps

The `write` subcommand is used for reading a YAML file and converting it to an ordered map.

```
ordered_map write boards.yml boards.txt
```



## COMMAND LINE INTERFACE

Ordered map parser and writer.

```
usage: ordered_map [-h] [-v] {read,write} ...
```

### 4.1 Positional Arguments

**subcommand**      Possible choices: read, write

### 4.2 Named Arguments

**-v**                      show program's version number and exit

### 4.3 Sub-commands:

#### 4.3.1 read

Convert an ordered map file to a YAML file.

```
ordered_map read [-h] INPUT OUTPUT
```

#### Positional Arguments

**INPUT**                  input file

**OUTPUT**                output file

### 4.3.2 write

Convert a YAML file to an ordered map file.

```
ordered_map write [-h] INPUT OUTPUT
```

#### Positional Arguments

<b>INPUT</b>	input file
<b>OUTPUT</b>	output file

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## LIBRARY

The API library provides the read and write functions.

```
>>> from ordered_map import read, write
```

The read function reads an ordered map file string and returns a nested dictionary.

```
>>> data = read(open('boards.txt').read())
>>> data['FTDI_PID_6001']['vid'][0]
'0x0403'
```

The write function writes a nested dictionary to an ordered map file string.

```
>>> open('/tmp/x.txt', 'w').write(write(data))
```





## API DOCUMENTATION

`ordered_map.ordered_map.read(string: str) → dict`

Parse an ordered map file.

**Parameters** **string** – Content of an ordered map file.

**Returns** An ordered map.

`ordered_map.ordered_map.write(data: dict) → str`

Write an ordered map to a file.

**Parameters** **data** – An ordered map.

**Returns** Content of an ordered map file.



## CONTRIBUTORS

- Jeroen F.J. Laros <[jlaros@fixedpoint.nl](mailto:jlaros@fixedpoint.nl)> (Original author, maintainer)

Find out who contributed:

```
git shortlog -s -e
```



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