
json2latex

Dec 03, 2020

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`json2latex` is a library for converting a nested Python structure to a format accessible in LaTeX.

class `json2latex.python2latex.python2latex` (*name*, *obj*)

A class for converting a nested Python structure into a form accessible using LaTeX.

Parameters

- **name** (*str*) – The name of the LaTeX variable to save the data to.
- **obj** (*dict* or *list*) – The Python object to make accessible in LaTeX.

dump ()

Get the string of LaTeX commands.

The returned string is a set of LaTeX commands which can be used to access the values of the object provided when initializing the class.

save (*fp*)

Write the LaTeX commands to a filelike object.

The string written includes a set of LaTeX commands which can be used to access the values of the object provided when initializing the class.

`json2latex.dump`s(*name*, *obj*)

Convert a nested Python structure to a string accessible in LaTeX.

Parameters

- **name** (*str*) – The name of the LaTeX variable to save the data to.
- **obj** (*dict or list*) – The Python object to make accessible in LaTeX.

Returns A string of LaTeX code.

Return type `str`

`json2latex.dump`(*name*, *obj*, *fp*)

Convert a nested Python structure to a file accessible in LaTeX.

Parameters

- **name** (*str*) – The name of the LaTeX variable to save the data to.
- **obj** (*dict or list*) – The Python object to make accessible in LaTeX.
- **fp** (*TextIO*) – The filelike object to write LaTeX code to.

CHAPTER 3

Example

The following Python code saves a file, `out.tex` which includes the necessary LaTeX commands to access the data in LaTeX.

```
import json2latex

data = dict(a="test", b=[1, 2])

with open('out.tex', 'w') as f:
    json2latex.dump('data', data, f)
```

The same result can be accomplished by running,

```
json2latex example.json data out.tex
```

where `example.json` is a JSON file containing the same data as the data dictionary in the Python example.

The code output by JSON to LaTeX can be used as follows. First the file needs to be imported in LaTeX using `\input{out.tex}`. Then, the following commands can be used to access the data:

- `\data` will expand to the full JSON representation of the input, `{"a": "test", "b": [1, 2]}`.
- `\data[a]` will expand to `test`.
- `\data[b]` will expand to `[1, 2]`.
- `\data[b][0]` will expand to `1`.
- `\data[b][1]` will expand to `2`.
- `\data[b][2]`, and all other undefined values, will expand to `??`.

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