
ndjsonTosvg Documentation

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ndjsonTosvg is a utility to convert data from Google's [Quickdraw](#) dataset to scalable vector graphics format. The input data should be in Google's simplified ndjson format.

ndjsonTosvg is part of the [SciKit-Surgery](#) software project, developed at the [Wellcome EPSRC Centre for Interventional and Surgical Sciences](#), part of [University College London \(UCL\)](#).

ndjsonTosvg supports Python 3.x.

Usage

```
ndjsonTosvg --filein FILEIN -n NUMBEROFSAMPLES
```

For more usage run

```
ndjsonTosvg --help
```

Please explore the project structure, and implement your own functionality.

1.1 Cloning

You can clone the repository using the following command:

```
git clone https://github.com/thompson318/ndjsonTosvg
```

1.2 Running tests

Pytest is used for running unit tests:

```
pip install pytest  
python -m pytest
```

1.3 Linting

This code conforms to the PEP8 standard. Pylint can be used to analyse the code:

```
pip install pylint  
pylint --rcfile=tests/pylintrc ndjsontosvg
```


CHAPTER 2

Installing

You can pip install directly from the repository as follows:

```
pip install git+https://github.com/thompson318/ndjsonTosvg
```

2.1 Contributing

Please see the [contributing guidelines](#).

2.2 Useful links

- [Source code repository](#)
- [Documentation](#)

CHAPTER 3

Licensing and copyright

Copyright 2020 University College London. ndjsonTosvg is released under the BSD-3 license. Please see the [license file](#) for details.

Acknowledgements

Supported by [Wellcome](#) and [EPSRC](#).

4.1 Requirements for ndjsonTosvg

This is the software requirements file for ndjsonTosvg, part of the SNAPPY project. The requirements listed below should define what ndjsonTosvg does. Each requirement can be matched to a unit test that checks whether the requirement is met.

4.1.1 Requirements

ID	Description	Test
0000	Module has a help page	pylint, see tests/pylint.rc and tox.ini
0001	Functions are documented	pylint, see tests/pylint.rc and tox.ini
0002	Package has a version number	No test yet, handled by git.

4.2 latest

4.2.1 ndjsontosvg package

Subpackages

ndjsontosvg.ui package

Submodules

ndjsontosvg.ui.ndjsontosvg_command_line module

Command line ui for ndjsontosvg

`ndjsontosvg.ui.ndjsontosvg_command_line.main` (*args=None*)
Entry point for ndjsonTosvg application

Module contents

ndjsonTosvg

Submodules

ndjsontosvg.ndjsontosvg module

converts simplified quickdraw into separate svg files

`ndjsontosvg.ndjsontosvg.ndjsontosvg` (*filein, numberofsamples, outsize=256, line-colour='black', backgroundcolour='white', out-dir='./', checkifidentified=True, randomsort=True, inputsize=256*)

converts a multiline google quickdraw simplified format file into separate svg images.

Params filein the input json file

Params numberofsamples how many drawings to generate

Params outsize You can set the outsize, simplified quickdraw are designed for 256 x 256, and svg should scale easily, but for some applications that don't scale svg well, you can set your own output size.

Params outdir the directory to write to.

Params checkifidentified if true we will check that recognized key is true before creating svg.

Params randomsort If true we will select a random set of drawings, not just the first numberofsamples

Params inputsize use this if the input ndjson is not 256x256

Raises

- **ValueError** – If more that 10000 samples requested.
- **KeyError** – If ndjson is missing expected fields.
- **IOError** – If output dir does not exist.

Module contents

ndjsonTosvg

- modindex
- genindex
- search

n

`ndjsontosvg`, [10](#)

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[10](#)

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`main()` (*in module `ndjsontosvg.ui.ndjsontosvg_command_line`*), 10

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