
NM Fishing Report Documentation

Release 0.1.3

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CHAPTER 1

nmfishingreport package

1.1 Submodules

1.2 nmfishingreport.internet_on module

1.3 nmfishingreport.nmfishingreport module

1.4 Module contents

CHAPTER 2

Credits

2.1 Development Lead

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2.2 Contributors

- None yet. Why not be the first?

3.1 0.1.3 :: 20210901

- Use `pathlib` to make it easier to use `~` in `config.ini`
- Update to `pyproject.toml`

3.2 0.1.2 :: 20210525

- Try to fix the `setup.py`. Should have pushed to PyPI test first!

3.3 0.1.1 :: 20210525

- Accomodate minor change to the post-pandemic website layout
- Use black, update deps and python versions
- Travis -> GitHub Actions

3.4 0.1.0 :: 20160613

- First release on GitHub / PyPI.

master: [master branch build status](#)

Scrapes the NM Dept of Game and Fish fishing report

- Free software: MIT
- Documentation: <https://nmfishingreport.readthedocs.org>

4.1 Features

- Scrapes fishing report into sqlite database
- Writes to a text file the reports for a specified list of spots
 - Basic Markdown format
 - I use this to output to a Dropbox folder for easy access on mobile
- Monitors for keywords and can optionally use a custom notification script when those keywords appear in a report

4.2 Introduction

The NM Dept of Game and Fish publishes a [biweekly fishing report](#). This script scrapes the report into a database so I can see how various spots fare throughout the year. It send me a [Pushover](#) notification whenever the report for one of my favorite spots has any of the buzzwords I've selected.

4.3 Dependencies

- Python3

- OS X or Linux
- See `requirements.txt`

4.4 Quickstart

1. Copy `config-sample.ini` (recommended: rename to `config.ini`, which is `.gitignored`)
2. Modify config (see section below)
3. `pip3 install nmfishingreport`
4. `python3 -m nmfishingreport -c /path/to/your-config.ini`

4.4.1 Development Setup

1. Clone the repo: `git clone https://github.com/n8henrie/nmfishingreport && cd nmfishingreport`
2. Make a virtualenv: `python3 -m venv .venv`
3. Install dev setup: `./.venv/bin/pip install .[dev]`

4.5 Configuration

I recommend you start with `config-sample.ini`. I've tried to add comments to make it somewhat self-explanatory. A few notes:

- You'll need to make sure your spelling matches NMDGF for `fav_spots`.
- I've included my database file with some reports going back to 2015
 - There are likely several holes from times when the NMDGF updated their website and broke the script or times that my computer wasn't running
 - If you want to continue with my existing database, copy it to a more reasonable filename (recommended: `fishing_reports.db`), and use it as `db` in your config
 - The filename `fishing_reports.db` is `.gitignore-d`
 - I'll try to update the provided file from time to time

4.5.1 Notification config

If you know a bit of Python, you can optionally provide a notification script if you want to get a push notification (or email or what have you) when certain keywords show up in the report for one of your `fav_spots`. The file should expose a bare function `notify` that accepts two arguments:

1. A dictionary containing the following keys:
 - `spot`: the fishing spot triggering the notification
 - `report`: the text of that spot's fishing report
 - `url`: the URL for the fishing report
2. The path to your config file

Because it accepts a path to your config file, you can add a section to your config file to include usernames and passwords for the notification script if needed. For example, in the `extras/` directory I've included my (working) `notify.py` for Pushover – it pulls my Pushover credentials from my config file, which is kept out of version control.

Be forewarned that `nmfishingreport` loads the notification script to execute its contents, which I'm sure could have security ramifications or lead to data loss if you aren't careful. Leave the `NOTIFY` section out of your config to avoid this entirely.

4.6 Acknowledgements

- NM Dept of Game and Fish!

4.7 Troubleshooting / FAQ / Examples

- How can I get info out of an sqlite database?
 - I'm not terribly good at sqlite either, so here's how to convert it to a csv file that you can open in your spreadsheet app of choice:

```
* sqlite3 -header -csv fishing_reports.db "SELECT * FROM nm_fishing_reports;" > fishingreport.csv
```
- Some other ideas on looking at the contents:
 - Dump all reports to your screen:

```
* sqlite3 fishing_reports.db 'SELECT * FROM nm_fishing_reports;'
```
 - Show the 10 most recent reports:

```
* sqlite3 fishing_reports.db 'SELECT * FROM nm_fishing_reports ORDER BY date DESC LIMIT 10;'
```
 - Show the 5 most recent reports for the Jemez waters:

```
* sqlite3 fishing_reports.db 'SELECT date, report FROM nm_fishing_reports WHERE spot LIKE "%Jemez%" ORDER BY date DESC LIMIT 5;'
```
 - Show the most recent spot to have had the word “excellent” in the report:

```
* sqlite3 fishing_reports.db 'SELECT date, spot FROM nm_fishing_reports WHERE report LIKE "% excellent %" ORDER BY date DESC LIMIT 1;'
```
 - Show what times of year the Jemez fishing has been “very good” or “excellent”:

```
* sqlite3 fishing_reports.db 'SELECT date FROM nm_fishing_reports WHERE (report LIKE "% very good %" OR report LIKE "% excellent %") AND spot LIKE "%Jemez%";'
```
- How can I run `nmfishingreport` automatically?
 - If you're on OS X, I've included an example launchd plist in `extras/`

CHAPTER 5

Indices and tables

- `genindex`
- `modindex`

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