

## SPINEL User Documentation

This software is written entirely in Python and has only been tested to run on macOS.

### Installation

1. Ensure you have a working Python distribution installed on your machine.
2. Navigate to the following link and download a copy of the entire repository to a suitable location on your machine:

[https://github.com/jdmchardy/SPINEL\\_XRD](https://github.com/jdmchardy/SPINEL_XRD)

3. Open a terminal window and run (if you have not installed poetry previously on your machine):

```
pip install poetry (or on windows: py -m pip install poetry)
```

4. Verify the installation with:

```
poetry --version
```

5. In the terminal, navigate to the root folder where you saved a copy of the SPINEL Github repository on your machine.
6. Confirm you are in the right directory by running `ls` (dir on windows). You should see the following contents:

```
logo.png
pyproject.toml
requirements.txt
poetry.lock
README.md
SPINEL.py
SPINEL_user_documentation.pdf
example_files/
```

7. Install the necessary dependencies:

```
poetry install
```

8. Start up the program using:

```
poetry run streamlit run SPINEL.py
```