Development Set-up

Prerequisites

- Python 3
- NumPy (package)
- twofish (package)
- PyQt5 (package)

Instructions

1. If you don't have Python 3 installed, download and install from here Python 3.

2. From the source directory, run the following command to create a virtual environment and activate it (recommended)

Windows (Powershell/CMD):

```
python -m venv venv
(Powershell) venv\Scripts\Activate
(CMD) venv\Scripts\activate
```

For `Activate.ps1 cannot be loaded because running scripts is disabled on this system` error in powershell, run this command:

```
Set-ExecutionPolicy -Scope CurrentUser Unrestricted
```

and try activating the venv again.

Linux (bash):

```
python3 -m venv venv
source venv/bin/activate
```

> note: you might need install venv first before you can create a virtual environment

- you can skip this step and proceed immediately to Step 3 but using a virual environemt is highly recommended

3. Install the packages from `requirements.txt` :

```
pip install -r requirements.txt
```

4. You can now run `main.py` if you want to use the GUI or run the `embed.py` and `extract.py` scripts directly:

GUI:

```
python main.py
```

direct scripts (-h for help on how to use):

```
python embed.py -h
python embed.py <audiofile> <message>
or
python embed.py <audiofile> <message> -p <password>

python extract.py -h
python extract.py <stegofile> <key>
or
python extract.py <stegofile> <key> -p <password>
```

note: use `.wav` audio files

SUS: https://forms.gle/v9KTRUuQLzRWufDo9