

MacOS Install

Put processing.py in directory where OpenAddresses download will be unzipped

Install ogr2ogr, osmium, PostgreSQL, PostGIS, ogr2osm from Github(install in /opt)

```
apt-get install curl osmium-tool PostgreSQL PostGIS gdal-bin python3-gdal  
python3-lxml git
```

```
cd /opt
```

```
git clone --recursive https://github.com/pnorman/ogr2osm
```

(Optional) comment out mergePoints() under # Main flow

Setup PostgreSQL database and enable PostGIS

```
su root
```

```
su Postgres
```

```
createdb gis
```

```
psql -d gis -c "create extension PostGIS;"
```

```
psql -d gis -c "create user pat with password 'password';"
```

Change details in pg2osm and load_csv to reflect database details

Change oa_root and root to correct paths

Script Usage

The script is designed to be used from the command line. The process is split into separate arguments where possible. Each argument targets a state except for update-oa which targets the entire US. Update-oa takes a long time so you may want to run it separately or download the files yourself if only building states in one region. You must have OA data and Fameko state extract for the script to work properly. See a typical workflow below.

```
./processing.py wa --update-oa
```

Then as a cron job:

```
00 02 20 * * cd /home/pat/projects/osmand_map_creation/osmand_osm/osm/;python3
processing.py ak hi mt ut nv az nm wy wa or id --load-oa --filter-data
--output-osm --update-osm;cd /home/decojr/projects/fameko_map_creation/;java
-Djava.util.logging.config.file=logging.properties -Xms64M -Xmx7G -cp
"./FamekoMapCreator.jar:lib/Fameko-core.jar:./lib/*.jar"
net.osmand.util.IndexBatchCreator batch.xml;cd
/home/pat/projects/osmand_map_creation/osmand_osm;mv *.pbf osm/
```

This runs the script, builds the obfs, then moves the pbfs to the osm folder. Extra ram for Fameko map creator will greatly speed up builds.

Data Processing

Add SQL statements in the filter_data function to remove unwanted records

Add to SQL statements to --SQL flag in ogr2osm calls to filter data without removing records

Limitations

Setup for the US states only

Running many states with update-Fameko may result in geofabrik rate limiting
ogr2osm xml writer will choke on Unicode stops