Creating and Loading

a Spatial Database

1. Install psql and postGIS

Mac



Postgres.app

Linux





- PostgreSQL
- PostGIS

2. Create a database and connect to it

```
~> createdb --owner lucia --password nyc
[ createdb -0 lucia -W nyc ]
~> psql --dbname=nyc
[ Or \c nyc from psql prompt ]
[ \l to list all ]
```

3. Enable spatial support

```
=# CREATE EXTENSION postgis;
=# SELECT postgis full version();
```

4. Create sql load commands from shape files

```
~> mkdir sqlloads
~> shp2pgsql -I -s 26918 data/nyc census blocks.shp nyc census blocks
> sqlloads/nyc census blocks.sql
~> shp2pgsql -I -s 26918 data/nyc neighborhoods.shp nyc neighborhoods
> sqlloads/nyc neighborhoods.sql
~> shp2pgsql -I -s 26918 data/nyc streets.shp nyc streets >
sqlloads/nyc streets.sql
~> shp2pgsql -I -s 26918 data/nyc subway stations.shp
nyc subway stations > sqlloads/nyc subway stations.sql
```

5. Load spatial data into db

```
~> psql -U lucia -d nyc -f sqlloads/nyc census blocks.sql
~> psql -U lucia -d nyc -f sqlloads/nyc neighborhoods.sql
~> psql -U lucia -d nyc -f sqlloads/nyc streets.sql
~> psql -U lucia -d nyc -f sqlloads/nyc subway stations.sql
~> psql -U lucia -d nyc -f data/nyc census sociodata.sql
```