POSTGIS 2.0.0 PGSQL2SHP SHP2PGSQL CHEAT SHEET

shp2pgsql and pgsql2shp are all located in the bin folder of the PostgreSQL install.

pgsql2shp dumps a postgis database table, view or sql query to ESRI shape file forma

USAGE: pgsql2shp [OPTIONS] database [schema.]table pgsql2shp [OPTIONS] database query

 $shp2pgsql\ generates\ an\ SQL\ script\ from\ ESRI\ shape\ and\ DBF\ files\ suitable\ for\ loading\ into\ a\ PostGIS\ enabled\ databased$

USAGE: shp2pgsql [OPTIONS] shapefile [schema.]table

New in $2.0.0^{-1}$. New in 1.5^2

General options: (P - pgsql2shp, S - shp2pgsql)

```
Use a binary cursor.
                                 If -s :to srid 1 is not specified then from srid is assumed and no transformation happens.
      -s from srid:to srid
  S
      (-d|a|c|p)
                                  These are mutually exclusive options:
                                 Drops the table, then recreates it and populates it with current shape file data. Appends shape file into current table, must be exactly the same table schema. Creates a new table and populates it, default if you do not specify any options.
           -d
           -a
  S
           -с
                                 Prepare mode, only creates the table.
Use this option to specify the name of the file to create
  S
      -f filename
P S
      -g geometry column name Specify the name of the geometry column to be (S) created (P) exported.
      -h hostname
                                 Specify db server host name defaults to localhost.
  S
                                 Use postgresql dump format (defaults to sql insert statments).
      -D
  S
                                  Execute each statement individually, do not use a transaction. Not compatible with -D
      -е
P S
      -k
                                  Keep postgresql identifiers case
                                 Use int4 type for all integer dbf fields.
      -i
  S
      -1
                                  Create a GiST index on the geometry column.
  S
      -p port
                                  Allows you to specify a database port other than the default. Defaults to 5432.
                                  Connect to the database with the specified password.
      -P password
                                  Raw mode. Do not unescape attribute names and not skip the 'gid' attribute.
      -r
      -S
                                  Generate simple geometries instead of MULTI geometries.
  S
                                  Connect to the database as the specified user.
      -u user
                                 Use wkt format (for postgis-0.x support - drops M - drifts coordinates).

encoding The character encoding of Shape's attribute column. (default : "UTF-8")
  S
      -W
      -N
  S
                                  policy Specify NULL geometries handling policy (insert, skip, abort)
      -n
  S
                                  Only import DBF file.
      -G^2
                                  Use geography type instead of geometry (requires lon/lat data) in WGS84 long lat (-s SRID=4326)
      -T^1
                                  Specify the tablespace for the new table. Indexes will still use the default tablespace unless the -X param
      -X^{1}
                                  Specify the tablespace for the new index.
      -m<sup>1</sup> filename
                                  Remap identifiers to ten character names. The content of the file is lines of two symbols separated by a si
P S
      _2
                                  Display this help screen
PSQL Connection options:
  -h, --host=HOSTNAME
                               database server host or socket directory
  -p, --port=PORT
                               database server port number
  -II. --username=NAME
                               connect as specified database user
                               force password prompt (should happen automatically)
  -W, --password
  -e, --exit-on-error
                               exit on error, default is to continue
```

If no input file name is supplied, then standard input is used.

```
LOADING DATA WITH SHP2PGSQL

Load data into PostgreSQL from ESRI shape file MA stateplane feet shp2psq1 = 2249 neighborhoods public.neighborhoods > neighborhoods.sq1
psq1 -h myserver -d mydb -U myuser -f neighborhoods.sq1

Do above in one step shp2psq1 -s 4326 neighborhoods public.neighborhoods | psq1 -h myserver -d mydb -U myuser

Load data into PostgreSQL from ESRI shape file MA stateplane feet to geography shp2psq1 -G -S 2249:4326 neighborhoods public.neighborhoods > neighborhoods peog.sq1
psq1 -h myserver -d mydb -U myuser -f neighborhoods peog.sq1

Sample linux sh script to load tiger 2007 massachusetts edges and landmark points

TMPDIRe*/Sgis data/25_MASSACHUSETTS"

STATESCHEMA="ma"

DB=*tiger"

USER NAME="tigeruser"

cd SSTATEDIR

*STATESCHEMA="ma"

DB=*tiger"

USIRI NAME="tigeruser"

cd SSTATEDIR

*#port on rulli and set the geometry column name to the geom 4269, dbf is in latinl encoding shp2psq1 -s 4269 -g the geom 4269 -S -W "latinl" -p fe_2007_25025_pointim.sph $isTATESCHEMA].edges | psq1 -U SUSER_NAME -d SDB shp2psq1 -s 4269 -g the geom 4269 -S -W "latinl" -p fe_2007_25025_pointim.sph $isTATESCHEMA|.pointlm | psq1 -U SUSER_NAME -d SDB shp2psq1 -s 4269 -g the geom 4269 -S -W "latinl" -p fe_2007_25025_pointim.sph $isTATESCHEMA|.pointlm | psq1 -U SUSER_NAME -d SDB shp2psq1 -s 4269 -g the geom 4269 -S -W "latinl" -p sq2 suspensive ma.pointlm ma.edges tables for t in pointlm edges; do shp2psq1 -s 4269 -g the geom 4269 -S -W "latinl" -a $z $(STATE_SCHEMA).$(t) | psq1 -d $DB -U SUSER_NAME; do shp2psq1 -s 4269 -g the_geom_4269 -S -W "latinl" -a $z $(STATE_SCHEMA).$(t) | psq1 -d $DB -U SUSER_NAME; do shp2psq1 -s 4269 -g the_geom_4269 -S -W "latinl" -a $z $(STATE_SCHEMA).$(t) | psq1 -d $DB -U SUSER_NAME; do shp2psq1 -s 4269 -g the_geom_4269 -S -W "latinl" -a $z $(STATE_SCHEMA).$(t) | psq1 -d $DB -U SUSER_NAME; do shp2psq1 -s 4269 -g the_geom_4269 -S -W "latinl" -a $z $(STATE_SCHEMA).$(t) | psq1 -d $DB -U SUSER_NAME; do shp2psq1 -s 4269 -g the_geom_4269 -S -W "latinl" -a $z $(STATE_SCHEMA).$(t) | psq1 -d $DB
```

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