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# pgcli Documentation

*Release latest*

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This is a postgres client that does auto-completion and syntax highlighting.

MySQL Equivalent: <http://mysql-cli.com>

```
stayupdated_test> INSERT INTO goose_db_version
admins
cpes
goose_db_version
packages
users

stayupdated_test> \d
+-----+-----+-----+-----+
| Schema | Name                | Type      | Owner  |
+-----+-----+-----+-----+
| public | admins              | table     | amjith |
| public | cpes                | table     | amjith |
| public | goose_db_version    | table     | amjith |
| public | goose_db_version_id_seq | sequence  | amjith |
| public | packages            | table     | amjith |
| public | packages_id_seq     | sequence  | amjith |
| public | users               | table     | amjith |
| public | users_id_seq        | sequence  | amjith |
| public | vulnerabilities      | table     | amjith |
| public | vulnerabilities_cpes | table     | amjith |
| public | vulnerabilities_id_seq | sequence  | amjith |
+-----+-----+-----+-----+
SELECT 11
stayupdated_test> SELECT * FROM users;
+-----+-----+-----+-----+-----+
| id | display_name | password | email          | created_on |
+-----+-----+-----+-----+-----+
| 177 | DisplayName1 | 1024cms  | user@ex.com    | 2014-11-15 15:02:50.094560 |
| 180 | testname2    | pas5w0rd | email@ex.com   | 2014-11-28 10:25:46.170660 |
| 181 | amjith       | password | amjith@amjith.amjith | 2014-11-28 18:39:48.195067 |
+-----+-----+-----+-----+-----+
SELECT 3
stayupdated_test> SELECT * FROM
admins
cpes
goose_db_version
packages
users
```



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### Quick Start

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If you already know how to install python packages, then you can simply do:

```
$ pip install pgcli  
  
or  
  
$ brew install pgcli # Only on OS X
```

If you don't know how to install python packages, please check the [detailed instructions](#).





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### Usage

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```
$ pgcli [database_name]

or

$ pgcli postgresql://[user[:password]@][netloc][:port][/dbname]
```

#### Examples:

```
$ pgcli local_database

$ pgcli postgres://amjith:pa$$w0rd@example.com:5432/app_db
```



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# Features

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The *pgcli* is written using `prompt_toolkit`.

- Auto-completion as you type for SQL keywords as well as tables and columns in the database.
- Syntax highlighting using Pygments.
- Smart-completion (enabled by default) will suggest context-sensitive completion.
  - `SELECT * FROM <tab>` will only show table names.
  - `SELECT * FROM users WHERE <tab>` will only show column names.
- Config file is automatically created at `~/.pgcliirc` at first launch.
- Primitive support for `psql` back-slash commands.
- Pretty prints tabular data.



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### Contributions:

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If you're interested in contributing to this project, first of all I would like to extend my heartfelt gratitude. I've written a small doc to describe how to get this running in a development setup.

<https://github.com/dbcli/pgcli/blob/master/DEVELOP.rst>

Please feel free to reach out to me if you need help. My email: [amjith.r@gmail.com](mailto:amjith.r@gmail.com), Twitter: [@amjithr](https://twitter.com/amjithr)



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## Detailed Installation Instructions:

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### 5.1 OS X:

Easiest way to install pgcli is using brew. Please be aware that this will install postgres via brew if it wasn't installed via brew.

```
$ brew install pgcli
```

Done!

If you have postgres installed via a different means (such as PostgresApp), you can `brew install --build-from-source pgcli` which will skip installing postgres via brew if postgres is available in the path.

Alternatively, you can install `pgcli` as a python package using a package manager called `pip`. You will need postgres installed on your system for this to work.

In depth getting started guide for `pip` - <https://pip.pypa.io/en/latest/installing.html>.

```
$ which pip
```

If it is installed then you can do:

```
$ pip install pgcli
```

If that fails due to permission issues, you might need to run the command with `sudo` permissions.

```
$ sudo pip install pgcli
```

If `pip` is not installed check if `easy_install` is available on the system.

```
$ which easy_install
$ sudo easy_install pgcli
```

### 5.2 Linux:

In depth getting started guide for `pip` - <https://pip.pypa.io/en/latest/installing.html>.

Check if `pip` is already available in your system.

```
$ which pip
```

If it doesn't exist, use your linux package manager to install *pip*. This might look something like:

```
$ sudo apt-get install python-pip    # Debian, Ubuntu, Mint etc  
  
or  
  
$ sudo yum install python-pip    # RHEL, Centos, Fedora etc
```

pgcli requires python-dev, libpq-dev and libevent-dev packages. You can install these via your operating system package manager.

```
$ sudo apt-get install python-dev libpq-dev libevent-dev  
  
or  
  
$ sudo yum install python-devel postgresql-devel
```

Then you can install pgcli:

```
$ sudo pip install pgcli
```



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### Thanks:

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A special thanks to [Jonathan Slenders](#) for creating [Python Prompt Toolkit](#), which is quite literally the backbone library, that made this app possible. Jonathan has also provided valuable feedback and support during the development of this app.

This app includes the awesome [tabulate](#) library for pretty printing the output of tables. The reason for vendoring this library rather than listing it as a dependency in `setup.py`, is because I had to make a change to the table format which is merged back into the original repo, but not yet released in PyPI.

[Click](#) is used for command line option parsing and printing error messages.

Thanks to [psycopg](#) for providing a rock solid interface to Postgres database.

Thanks to all the beta testers and contributors for your time and patience. :)