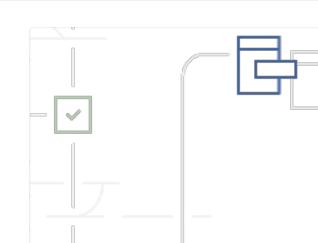
Postgres Pager



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♦ 18 releases

296 commits 2 branches

#pager #c #ncurses #tui #postgres-pager #postgresql #psql

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okbob fix readme Latest commit c30eb60 Jul 1	18, 2018	
screenshots	screenshots	Aug 15, 2017
src	better escape handling	Jul 18, 2018
tools	initial menu support - add files only	Jul 9, 2018
gitignore	clean a project directory	Sep 24, 2017
LICENSE	Initial commit	Jul 11, 2017
Makefile	initial menu support - add files only	Jul 9, 2018
README.md	fix readme	Jul 18, 2018
ToDo	prepare for release 1.1	Apr 26, 2018
aclocal.m4	initial menu support - add files only	Jul 9, 2018
autogen.sh	autoconf environment + rpmbuild support	Sep 13, 2017
config.make	initial menu support - add files only	Jul 9, 2018
config.make.in	initial menu support - add files only	Jul 9, 2018
configure	initial menu support - add files only	Jul 9, 2018
configure.ac	initial menu support - add files only	Jul 9, 2018
pg_class.txt	back to classic demo file	Sep 14, 2017
pspg.spec	correct readline number is 603, prepare for 1.1.1	Apr 30, 2018

Everybody who uses psql uses less pager. It is working well, but there is not any special support for tabular data. I found few projects, but no one was completed for this purpose. I decided to write some small specialized pager for usage as psql

pager.

Main target

pspg - Postgres Pager

• possibility to freeze first few rows, first few columns • possibility to use fancy colors - like mcview or FoxPro

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1418

11731

0

Screenshots

This pager can be used from <code>mysql</code> and <code>pgcli</code> clients too.

[pavel@nemesis pspg]\$./pspg -s 1 -X -d

- relname relowner pg_publication_rel_oid_index
- pg_publication_rel_prrelid_prpubid_index pg_subscription_oid_index pg_subscription_subname_index pg_subscription_rel_srrelid_srsubid_index

pg_shadow pg_settings pg_hba_file_rules

pg_file_settings

pg_user_mapping

pg_replication_origin_status

pg_inherits_relid_seqno_index

pg_inherits_parent_index

pg_language_name_index

-b black/white theme

• -x doesn't clean screen on the end

-c N freeze first N columns

• -f file open file (default stdin)

-s N use theme (default theme is mc theme)

• --force-uniborder replace ascii border by unicode borders

• -G --HILITE-SEARCH don't highlight lines for searches ever

• -g --hilite-search don't highlight lines for searches

[pavel@nemesis pspg]\$

Options

pg_init_privs_o_c_o_index

pg_authid

pg_config

pg_subscription pg_stat_user_tables pg_stat_xact_user_tables pg_attribute pg_proc pg_class [pavel@nemesis pspg]\$./pspg -s 1	Dokumer	10 10 10 10 10 10 10	0 0 0 0 0 0	0 11635 11639 0 0
[pavel@nemesis pspg]\$./pspg -s 3	3 -X -d			
relname		relnamespace	reltype	reloftype
pg_constraint_oid_index pg_conversion_default_index pg_conversion_name_nsp_index pg_conversion_oid_index pg_database_datname_index pg_database_oid_index pg_depend_depender_index pg_depend_reference_index pg_description_o_c_o_index pg_shdescription_o_c_index pg_enum_oid_index pg_enum_typid_label_index pg_enum_typid_sortorder_index pg_index_indrelid_index		11 11 11 11 11 11 11 11 11 11	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
pg_index_indexrelid_index	11	Θ	Θ	

• -i --ignore-case ignore case in searches that do not contain uppercase • -I --IGNORE-CASE ignore case in all searches

• --no-mouse without own mouse handling (cannot be changed in app)

• --help show this help

• --less-status-bar status bar like less pager

• --no-sound without sound effect

- -F, --quit-if-one-screen quit if content is one screen • -V, --version show version
- **Themes**

1. Midnight Commander like

- 2. FoxPro like 3. Pdmenu like
- 6. PCFand like 7. Green theme 8. Blue theme

9. Word Perfect like 10. Low contrast blue theme

0. black & white

4. White theme

5. Mutt like

- 11. Dark cyan/black mode 12. Paradox like 13. dBase IV retro style
- 14. dBase IV retro style (Magenta labels) 15. Red white theme
- see http://okbob.blogspot.cz/2017/07/i-hope-so-every-who-uses-psql-uses-less.html **Keyboard commands**
- 0, 1, 2, 3, 4 freeze first N columns • KEY_UP, k - navigate backward by one line • KEY_DOWN, j - navigate forward by one line

• KEY_LEFT, h - scroll to left

• KEY_RIGHT, 1 - scroll to right

• L - go to end of current window

• PPAGE, Ctrl + b - backward one window

• Ctrl + Home, g - go to the start of file

- Ctrl + End , G go to the end of file • H - go to first line of current window • M - go to half of current window
- NPAGE, Ctrl+f, space forward one window HOME, A - go to begin of line, first column END, \$ - go to end of line, last column
- ctrl +y scroll a window up • Ctrl + d - forward a half window • ctrl + u - backward a half window

• n - for next match

• s - save content to file • // - search for a pattern which will take you to the next occurrence • ? - search for a pattern which will take you to the previous occurrence

ctrl +e - scroll a window down

- N for next match in reverse direction • Alt +m - switch (on, off) own mouse handler Mouse button wheel - scroll vertical
- Alt + Mouse button wheel scroll horizontal • F9 - show menu • q, F10, Esc Esc, Esc 0 - quit
- Alt + k switch bookmark • Alt + j - go to next bookmark • Alt + i - go to previous bookmark

Recommended psql configuration

MariaDB [sakila] > pager pspg -s 14 -X --force-uniborder --quit-if-one-screen

/home/user/Src/pspg-0.6/src/pspg.c:2403: undefined reference to `set_escdelay'

PAGER set to 'pspg -s 14 -X --force-uniborder --quit-if-one-screen'

MariaDB [sakila]> select * from nicer_but_slower_film_list limit 100;

some possible configuration: -- Switch pagers with :x and :xx commands \set x '\\setenv PAGER less' \set xx '\\setenv PAGER \'pspg -bX --no-mouse\''

\pset linestyle unicode

MySQL usage

LC_CTYPE should be correct.

I changed

MariaDB [sakila]> select now();

\pset border 2

:XX

Note - compilation issue Some linker issues can be fixed by:

gcc -lncursesw pager.c -o pspg -ggdb

gcc pager.c -o pspg -ggdb -lncursesw

On some old systems a compilation fails with error

In this case comment line with function set_escdelay

RPM (CentOS/Fedora/openSUSE/...)

Note - Installation

Alpine Linux

apk add pspg

Arch Linux

FreeBSD

macOS

Using Homebrew

Using MacPorts

brew install pspg

• pspg is a fixed release.

Gentoo # emerge -av dev-db/pspg

The pspg is available from community repository https://yum.postgresql.org/packages.php

pkg install pspg

The Arch User Repository contains two versions:

Use the AUR helper of your choice or git and makepkg to install pspg.

• pspg-git tracks the master branch.

port install pspg **Possible ToDo**

export only selected columns (selected rows).

Note If you like it, send a postcard from your home country to my address, please:

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Skalice 12

I invite any questions, comments, bug reports, patches on mail address pavel.stehule@gmail.com

• Store data in some column format (now data are stored like array of rows). With this change can be possible to operate

over columns - hide columns, change width, cyclic iteration over columns, change order of columns, mark columns and