

## PTP Cheat Sheet

### SYNOPSIS

Install with:

```
sudo apt-get install perl cpanminus perl-doc build-essential
# or
sudo yum install perl Perl-App-cpanminus perl-doc gcc make

sudo cpanm App::PTP -n -L /usr/local --man-pages --install-args \
'DESTINSTALLBIN=/usr/local/bin'
```

Run with:

```
ptp file1 file2 ... [--grep re] [--substitute re subst] ... [-o out]
```

### INPUT FILES

Input files can appear anywhere on the command line and are processed in the order in which they are given.

*filename* (anywhere in the command line, not starting with a -)  
- (reads from stdin)  
-- *filename* ... (for any filename)

### PIPELINE COMMANDS

Pipeline commands are applied, in order, to all the input files.

**-g** *regex* (**--grep**), **-s** *regex string* (**--substitute**)  
**-p** *code* (**-perl**): read and write \$<sub>\_\_</sub> to modify the file  
**-n** *code*: read from \$<sub>\_\_</sub>, write the return values  
**-f** *code* (**--filter**): return *true* to keep the line  
**-e** *code* (**--execute**): execute once per input file  
**-l** *path* (**--load**): execute the given file, once per input file  
**-M** *module*: load the given module  
**--sort**, **--ns** (**--numeric-sort**), **--ls** (**--locale-sort**), **--vs** (**--version-sort**), **--cs** *code* (**--custom-sort**)  
**-u** (**--unique**), **--gu** (**--global-unique**)  
**--head** [*n*], **--tail** [*n*], **--reverse** (**--tac**), **--shuffle**  
**--eat**: discard the content of the file  
**--ml** *code* (**--mark-line**): set the marker for the line with the return value  
**--clear-markers**, **--set-all-markers**  
**--delete-marked**, **--delete-before**, **--delete-after**, **--delete-at-offset** *offset*  
**--insert-before** *string*, **--insert-after** *string*, **--insert-at-offset** *offset string*: insert interpolated text next to marked lines (offset 0 is just after)  
**--cut** *N,N,...*: select fields according to **-F** and concatenate them with **-P**  
**--paste** *file*: paste with **-P** line by line with the current content  
**--pivot**: turn the file into a single line with **-P**  
**--anti-pivot**: split all lines according to **-F**  
**--transpose**: transpose lines and columns using **-F** and **-P**  
**--nl** (**--number-lines**), **--pfn** (**--prefix-file-name**)  
**--fn** (**--file-name**), **--lc**, **--line-count**: replace the content of the file  
**-m** (**--merge**): merge all the files in a single one  
**--tee** *filename*: duplicate the output  
**--shell** *command*: sends the content as input to the command  
**--xargs** *command*: execute the command (which can contain { }) for each line.  
**--push**, **--pop**: push and pop the entire content of the current file.

### PROGRAM BEHAVIOR

Global option for the program execution.

**-o** *output\_file* (**--output**), **-a** *output\_file* (**--append**), **-i** (**--in-place**): by default output to standard output  
**-R**, **--recursive**, **--input-filter** *code*: expand directories, optionally filter input files  
**--input-encoding** *encoding*, **--output-encoding** *encoding*: default is UTF-8  
**--input-separator** *separator*, **--output-separator** *separator*: default is \n  
**--eol** (**--preserve-input-separator**), **--fix-final-separator**  
**-0**: set **--input-separator** to NUL and **--output-separator** to the empty string  
**--00**: set **--output-separator** to NUL, useful with *xargs -0*  
**-h** (**--help**), **--cheat**, **--helpshort**, **--version**: remember to have **perldoc** installed  
**-d** (**--debug**), **--abort**  
**--preserve-perl-env**: keep environment across files  
**--safe** [*n*]: default is 0, strictest is 2

### PIPELINE MODES

Options for the pipeline commands coming after them. Most modes have a reverse mode to return to the default.

**-I** (**--case-insensitive**), **-S** (**--case-sensitive**): mode for any *regex* argument, **-S** is the default  
**-Q** (**--quote-regex**), **-E** (**--end-quote-regex**): disable interpolation in any *regex*, *string*, *filename* or *command* argument, **-E** is the default  
**-V** (**--inverse-match**), **-N** (**--normal-match**): inverse behavior of **--grep** and **--filter**  
**-L** (**--local-match**), **-G** (**--global-match**): apply **--substitute** once per line or as much as possible (this is the default)  
**-C** *code* (**--comparator**): for **--sort**, default is \$a cmp \$b  
**-F** *regex* (**--input-field-spec**): how to split fields, default is \s\*,\s|t  
**-P** *string* (**--output-field-spec**): how to paste fields, default is a tab  
**--default**, **--bytes**, **--csv**, **--tsv**, **--none**: set the **-F** and **-P** flags  
**--sq** *string* (**--single-quote-replacement**), **--dq** *string* (**--double-quote-replacement**), **--ds** *string* (**--dollar-sigil-replacement**): replace the given character or string by ' ', ", or \$ in all *code* arguments  
**--re engine**, **--regex-engine**: use the specified regex engine (e.g. *RE2*, *PCRE*, *TRE*, *GNU*, etc.) if installed  
**-X** (**--fatal-error**), **--ignore-error**: die on error in **--perl**, **-n** and **--filter**

### PERL ENVIRONMENT

Variables and functions available to *code* arguments as well as *regex*, *string*, *filename*, and *command* ones (unless **-Q** has been passed).

**Dumper**, **fileparse**, **basename**, **dirname**, **copy**, **move**, **make\_path**, **remove\_tree**, **canonpath**, **any**, **all**, **none**, **min**, **max**, **sum**, **pi**, **acos**, **expand**, **unexpand**, **\$tabstop**, **wrap**, **fill**, **\$columns**, ...

**\$<sub>\_\_</sub>**: current line content (*RW*)

**\$f**, **\$F**: current file name, current absolute file name (*RO*)

**\$n**: current line number (same as standard **\$<sub>\_\_</sub>**) (*RO*)

**\$N**: number of lines in the current file (*RO*)

**\$m**: marker of the current line (*RW*)

**@m**: markers for all the lines, current line is at index 0 (*RW*)

**\$!**: 1-based index of the file being processed (*RW*)

**ss** *start*[, *len*][, *\$var*]: like **substr** but returns '' instead of undef.

**pf** *format*[, *args...*]: like \$<sub>\_\_</sub> = **sprintf** *format*, *arg...*

**spf** *format*[, *args...*]: like **sprintf**

### AUTHOR AND LICENCE

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See more in the full documentation at <https://metacpan.org/pod/ptp>.