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AWK Cheat Sheet

Basics I

\$1 Reference first column

awk '/pattern/ {action}' file ← Execute action for matched pattern 'pattern' on file 'file'

Char to separate two actions

print Print current record line

\$0 Reference current record line

Variables I

\$2 Reference second column

FS Field separator of input file (default whitespace)

NF Number of fields in current record

NR Line number of the current record

Basics II

^ Match beginning of field

Match opterator

!" Do not match operator

-F Command line option to specify input field delimiter

BEGIN Denotes block executed once at start

END Denotes block executed once at end

str1 str2 Concat str1 and str2

One-Line Exercises I

awk '{print \$1}' file←	Print first field for each record in file
awk '/regex/' file←	Print only lines that match regex in file

awk '!/regex/' file ← Print only lines that do not match regex in file

awk '\$2 == "foo" file ← Print any line where field 2 is equal to "foo" in file

awk '\$2 != "foo" file ← Print lines where field 2 is NOT equal to "foo" in file

awk '\$1 ~ /regex/' file ← Print line if field 1 matches regex in file

awk '\$1!" /regex/' file ← Print line if field 1 does NOT match regex in file

Variables II

FILENAME Reference current input file

FNR Reference number of the current record relative to current input

file

OFS Field separator of the outputted data (default whitespace)

ORS Record separator of the outputted data (default newline)

RS Record separator of input file (default newline)

Variables III

CONVFMT Conversion format used when converting numbers (default %.6g)

SUBSEP Separates multiple subscripts (default 034)

OFMT Output format for numbers (default %.6g)

ARGC Argument count, assignable

ARGV Argument array, assignable

ENVIRON Array of environment variables

Functions I

index(s,t) Position in string s where string t occurs, 0 if not found

length(s) Length of string s (or \$0 if no arg)

rand Random number between 0 and 1

substr(s,index,len) Return len-char substring of s that begins at index (counted from 1)

srand Set seed for rand and return previous seed

int(x) Truncate x to integer value

Functions II

split(s,a,fs) Split string s into array a split by fs, returning length of a

match(s,r) Position in string s where regex r occurs, or 0 if not found

sub(r,t,s) Substitute t for first occurrence of regex r in string s (or \$0 if s not

given)

gsub(r,t,s) Substitute t for all occurrences of regex r in string s

Functions III

system(cmd) Execute cmd and return exit status

tolower(s) String s to lowercase

toupper(s)getlineSet \$0 to next input record from current input file.

One-Line Exercises II

awk 'NR!=1{print \$1}' file ← Print first field for each record in file excluding the first record

awk 'END{print NR}' file ← Count lines in file

awk '/foo/{n++}; END {print n+0}' Print total number of lines that contain foo

file←

total}' file←

awk '/regex/{getline;print}' file← Print line immediately after regex, but not line containing regex in

file

awk 'length > 32' file ← Print lines with more than 32 characters in file

awk 'NR==12' file ← Print line number 12 of file

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