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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 <b>↔</b>	Print first field for each record in file
awk '/regex/' file <b>←</b>	Print only lines that match regex in file
awk '!/regex/' file <b>←</b>	Print only lines that do not match regex in file
awk '\$2 == "foo"' file <b>←</b>	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 <b>←</b>	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)randRandom 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) String s to uppercase

**getline** Set \$0 to next input record from current input file.

# One-Line Exercises II

(https://www.twitter.com/shortcutfoo)

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₽ awk '{total=total+NF};END{print Print total number of fields in all lines total}' file← awk '/regex/{getline;print}' file← Print line immediately after regex, but not line containing regex in awk 'length > 32' file← Print lines with more than 32 characters in file awk 'NR==12' file← Print line number 12 of file < Learn These Shortcuts (/app/dojos/awk) Blog (/blog) About (/about) Privacy Policy (/privacy) Terms of Service (/terms) Pricing (/app/pricing)

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