

AWK Cookbook

Kiran Gangadharan

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1 Recipes

1.1 Count lines in a file

```
awk 'END { print NR }'
```

1.2 Count no of words in a file

```
awk '{ total = total + NF } END { print total }'
```

1.3 Find sum of columns for each row

```
awk '{s=0; for (i=1; i<=NF; i++) s=s+$i; print s}'
```

1.4 Find and replace in file

Replace only first instance in line

```
awk '{sub(/HTML/, "html")}; 1' data.txt > data_new.txt
```

Replace all instances in line

```
awk '{gsub(/HTML/, "html")}; 1' data.txt > data_new.txt
```

1.5 Remove duplicate lines from a file

```
awk '!a[$0]++' data.txt
```

1.6 Print all lines containing "Programming"

```
awk '/Programming/ { n++ }; END { print n+0 }'
```

1.7 Prefixing line with increasing number

```
awk '{print FNR ". " $0}' data.txt
```

1.8 Print account name and role from /etc/passwd

```
awk -F : '/^[^(#|_)]/ {print $1, "=>", $5}' /etc/passwd
```

1.9 Find the line containing largest value in the first column

```
awk '$1 > max {max=$1; maxline=$0}; END{ print maxline}' data.txt
```

1.10 Swap first two columns of every line

```
awk '{temp=$1; $1=$2; $2=temp} 1' data.txt
```

1.11 Delete second column from every line

```
awk '{ $2 = ""; print }' data.txt
```

1.12 Perform search similar to SQL 'where'

```
awk '$2 == "hello"' data.txt
```

1.13 Delete leading whitespace from each line

```
awk '{sub(/^[\t]+/, ""); print}'
```

1.14 Delete trailing whitespace from each line

```
awk '{sub(/[ \t]+$/, ""); print}'
```

1.15 Replace all instances of "foo" with "bar"

```
awk '{gsub(/foo/, "bar"); print}'
```