

### Semicolon in AWK

As in many programming languages like Java, the semicolon marks the end of one statement and the begin of another one.

```
awk '{print $1 ; print $0}'
awk.txt
>>> AWK
>>> AWK is awesome
>>> Let
>>> Let learn AWK together
...
```

### The special variable FS

We can put the field separator within an AWK program by assigning a value to the special variable FS.

```
awk 'BEGIN {FS=","} {print $2}'
Yellow,Blue,Red
>>> Blue
```

### The special variable RS

By default, AWK treats each line of its input as a separate record. But what if the input line is not divided into lines? Let take the file OneLine.txt as an example:

```
cat OneLine.txt
AWK,is,awesome!Let,learn,AWK!H-ello,AWK
```

In this file, fields are separated by comma and records are separated by exclamation point. Let see the following code which print the second field of each record.

```
awk 'BEGIN {RS="!";FS=","}
{print $2}' OneLine.txt
>>> is
>>> learn
>>> AWK
```

### OFS and ORS

AWK has also the output version of FS and RS which are respectively OFS and ORS.

Let take an example using the file names.txt.

```
awk 'BEGIN {OFS=",";ORS="!"}
{print $1,$2}' names.txt
>>> Albert,Einstein!Barak,Obama!Steve,Jobs!
```

Note that the setting of OFS has no effect on the output of \$0.

### The special variable NR

NR is a special variable whose value is the record number or line number of the record that is currently being examined.

```
awk '{print NR,$0}' awk.txt
>>> 1 AWK is awesome
>>> 2 Let learn AWK together
>>> 3 AWK is used for text
processing
```

If we put two input files the result will be the concatenation of the two files.

### The special variable FNR

FNR is a special variable whose value is the record number of each file.

```
awk '{print FNR, $0}' names.txt
awk.txt
>>> 1 Albert Einstein
>>> 2 Barak Obama
>>> 3 Steve Jobs
>>> 1 AWK is awesome
>>> 2 Let learn AWK together
>>> 3 AWK is used for text
processing
```

### The special variable FILENAME

The special variable FILENAME print the name of a file.

```
awk '{print FILENAME,$0}'
names.txt awk.txt
>>> names.txt Albert Einstein
>>> names.txt Barak Obama
>>> names.txt Steve Jobs
>>> awk.txt AWK is awesome
>>> awk.txt Let learn AWK
together
>>> awk.txt AWK is used for text
processing
```



By [Nouha\\_Thabet](#)  
[cheatography.com/nouha-thabet/](https://cheatography.com/nouha-thabet/)

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Page 1 of 1.

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