

Semicolon in AWK

As in many programming languages like Java, the AWK has also the output version of FS and RS while the special variable FILENAME print the name of the file. The semicolon marks the end of one statement and the OFS and ORS. Let take an example using the file names.txt

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

OFS and ORS

```
awk 'BEGIN {OFS=" , " ; ORS="! "} {print $1,$2}' names.txt
```

```
>>> names.txt Albert Einstein
>>> Albert ,Ei nst ein !Ba rak ,Ob ama
```

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 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 ,Bl ue,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 ,aw eso me! Let ,le arn ,AW K!H ell o,AWK
>>> 1 Albert Einstein
>>> 2 Barak Obama
```

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
```

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
```



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