

AWK Vs NAWK Vs GAWK

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The following features are available in all three variations of Awk.

Feature	Description	AWK	NAWK	GAWK
FS	Input field separator	Yes	Yes	Yes
OFS	Output field separator	Yes	Yes	Yes
RS	Record separator	Yes	Yes	Yes
ORS	Output record separator	Yes	Yes	Yes
NR	Number of the record	Yes	Yes	Yes
NF	Number of fields in a record	Yes	Yes	Yes
FILENAME	Contains current input-file that is getting processed	Yes	Yes	Yes

The following features are not available in the original awk. They are available in nawk and/or gawk.

Feature	Description	NAWK	GAWK
FNR	File "Number of the record"	Yes	Yes
ARGC	Total number of arguments passed to awk script	Yes	Yes
ARGV	Array containing all awk script arguments	Yes	Yes
ARGIND	Index to ARGV to retrieve the current file name		Yes
SUBSEP	Subscript separator for array indexes	Yes	Yes
RSTART	Match function sets RSTART with the starting location of str1 in str2	Yes	Yes
RLENGTH	Match function sets RLENGTH with length of the str1	Yes	Yes
OFMT	Awk uses this to decide how to print values. Default is "%.6g"	Yes	Yes
ENVIRON	Array containing all environment variables and values		Yes
IGNORECASE	Default is 0. When set to 1, it is case insensitive for string and reg-ex comparisons.		Yes
ERRNO	Contains error message of an I/O operation. e.g. while using getline function.		Yes

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BINMODE n	Set binary mode for I/O. n can be 1 (input files), 2(output files), or 3(all files)		Yes
CONVFMT	The format used while converting number to string.		Yes
FIELDWIDTHS n	n is a space delimited number that indicates the column widths. If this is available, gawk uses this instead of FS.		Yes
LINT n	n can be a number. When n is a nonzero number (indicating true), gawk will displays fatal, invalid, or warning lint messages (same as -lint command line)		Yes
TEXTDOMAIN	This is used for internationalization.		Yes
sub(str1,str2,var)	In the input string (var), str1 is replaced with str2, and output is stored back in var	Yes	Yes
gsub(str1,str2,var)	Same as sub, but global. It does multiple substitutions on the same input string (var).	Yes	Yes
match(str1,str2)	Returns positive number when str1 is present in str2.	Yes	Yes
getline < file	Read next line from another input-file. Sets \$0, NF	Yes	Yes
getline var < file	Read next line from another input-file and store it in variable (var)	Yes	Yes
toupper(str)	Converts str to upper-case		Yes
tolower(str)	Converts str to lower-case		Yes
&	Two way communication between awk command and external process		Yes
systime()	Current time in epoch time. Combine with strftime. e.g. print strftime("%c",systime())		Yes

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