#### a logical value indicating whether the file contains the names of the variables as its header first line. If missing, the value is determined from the file format: header is set to TRUE if and only if the first row contains one fewer field than the number of columns.

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the field separator character. Values on each line of the file are separated by this character. If sep = "" (the default for read.table) the separator is 'white space', that is one or more spaces, tabs, newlines or carriage returns.

sep

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## a character vector of strings which are to be interpreted as NA values. Blank fields na.strings values may need their own white space stripped in advance.

na.strings

are also considered to be missing values in logical, integer, numeric and complex fields. Note that the test happens after white space is stripped from the input, so

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na.strings	a character vector of strings which are to be interpreted as $\underline{NA}$ values. Blank fields are also considered to be missing values in logical, integer, numeric and complex fields. Note that the test happens <i>after</i> white space is stripped from the input, so

na.strings values may need their own white space stripped in advance.

### stringsAsFactors logical: should character vectors be converted to factors? Note that this is overridden by as.is and colClasses, both of which allow finer control.

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na.strings	a character vector of strings which are to be interpreted as NA values. Blank fields

a character vector of strings which are to be interpreted as NA values. Blank fields are also considered to be missing values in logical, integer, numeric and complex fields. Note that the test happens after white space is stripped from the input, so na.strings values may need their own white space stripped in advance.

stringsAsFactors

logical: should character vectors be converted to factors? Note that this is overridden by as.is and colClasses, both of which allow finer control.

#### logical. Used only when sep has been specified, and allows the stripping of strip.white leading and trailing white space from unquoted character fields (numeric fields are always stripped). See scan for further details (including the exact meaning of 'white space'), remembering that the columns may include the row names.

header	a logical value indicating whether the file contains the names of the variables as its first line. If missing, the value is determined from the file format: header is set to TRUE if and only if the first row contains one fewer field than the number of columns.
sep	the field separator character. Values on each line of the file are separated by this character. If sep = "" (the default for read.table) the separator is 'white space', that is one or more spaces, tabs, newlines or carriage returns.
na.strings	a character vector of strings which are to be interpreted as NA values. Blank fields are also considered to be missing values in logical, integer, numeric and complex fields. Note that the test happens <i>after</i> white space is stripped from the input, so na.strings values may need their own white space stripped in advance.
stringsAsFactors	logical: should character vectors be converted to factors? Note that this is overridden by as.is and colClasses, both of which allow finer control.
strip.white	logical. Used only when sep has been specified, and allows the stripping of leading and trailing white space from unquoted character fields (numeric fields are always stripped). See <a href="scan">scan</a> for further details (including the exact meaning of white space), remembering that the columns may include the row names.

# "Details": more details than you usually need about how the function does what it does

#### **Details**

This function is the principal means of reading tabular data into  $\mathbb{R}$ .

Unless colClasses is specified, all columns are read as character columns and then converted using type.convert to logical, integer, numeric, complex or (depending on as.is) factor as appropriate. Quotes are (by default) interpreted in all fields, so a column of values like "42" will result in an integer column.

A field or line is 'blank' if it contains nothing (except whitespace if no separator is specified) before a comment character or the end of the field or line.

If row.names is not specified and the header line has one less entry than the number of columns, the first column is taken to be the row names. This allows data frames to be read in from the format in which they are printed. If row.names is specified and does not refer to the first column, that column is discarded from such files.

The number of data columns is determined by looking at the first five lines of input (or the whole input if it has less than five lines), or from the length of col.names if it is specified and is longer. This could conceivably be wrong if fill or blank.lines.skip are true, so specify col.names if necessary (as in the 'Examples').

read.csv and read.csv2 are identical to read.table except for the defaults. They are intended for reading 'comma separated value' files ('.csv') or