Title

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dir( ) — File list

Syntax

string colvector `dir(`*dirname*`,` *filetype*`,` *pattern*`)`

string colvector `dir(`*dirname*`,` *filetype*`,` *pattern*`,` *prefix*`)`

where

dirname:	*string scalar*	containing directory name
filetype:	*string scalar*	containing `"files"`, `"dirs"`, or `"other"`
pattern:	*string scalar*	containing match pattern
prefix:	*real scalar*	containing 0 or 1

Description

`dir(`*dirname*`,` *filetype*`,` *pattern*`)` returns a column vector containing the names of the files in *dir* that match *pattern*.

`dir(`*dirname*`,` *filetype*`,` *pattern*`,` *prefix*`)` does the same thing but allows you to specify whether you want a simple list of files (*prefix* $= 0$) or a list of filenames prefixed with *dirname* (*prefix* $\neq 0$). `dir(`*dirname*`,` *filetype*`,` *pattern*`)` is equivalent to `dir(`*dirname*`,` *filetype*`,` *pattern*`, 0)`.

pattern is interpreted by [M-5] **strmatch( )**.

Remarks and examples

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Examples:

`dir(".", "dirs", "*")`
returns a list of all directories in the current directory.

`dir(".", "files", "*")`
returns a list of all regular files in the current directory.

`dir(".", "files", "*.sthlp")`
returns a list of all `*.sthlp` files found in the current directory.

Conformability

`dir(`*dirname*`,` *filetype*`,` *pattern*`,` *prefix*`)`:

dirname:	1×1	
filetype:	1×1	
pattern:	1×1	
prefix:	1×1	(optional)
result:	$k \times 1$,	k number of files matching pattern

Diagnostics

`dir(`*dirname*`,` *filetype*`,` *pattern*`,` *prefix*`)` returns `J(0,1,"")` if

1. no files matching *pattern* are found,
2. directory *dirname* does not exist, or
3. *filetype* is misspecified (is not equal to `"files"`, `"dirs"`, or `"others"`).

dirname may be specified with or without the directory separator on the end.

dirname = `""` is interpreted the same as *dirname* = `"."`; the current directory is searched.

Also see

[M-4] **io** — I/O functions