

time >> time > weekday

weekday

Day's index and name in its week for given dates

Syntax

```
[I, Names] = weekday()  
[I, Names] = weekday(N)  
[I, Names] = weekday(YMD)  
[I, Names] = weekday(Y, M, D)  
[I, Names] = weekday(dateStrings)  
[I, Names] = weekday(..., "long")  
[I, Names] = weekday(..., la_NG)
```

Arguments

N

Array of decimal date numbers as returned by `datenum(...)`.

YMD

Matrix of decimal integers with n rows and 3 columns. Each row defines a date: Year numbers are in column `YMD(:, 1)`. Month indices in `[1,12]` are in column `YMD(:, 2)`. Day indices in `[1,31]` are in column `YMD(:, 3)`.

Y, M, D

3 element-wise arrays of decimal integers with the same sizes. The date $\#i$ is defined by $D(i)/M(i)/Y(i)$.

dateStrings

Array of strings specifying dates according to 4 possible formats described here-below. All dates must follow the same format:

- "YYYY-MM-DD" : DD < 10 or/and MM < 10 must have a leading zero. Example: "2017-09-07".
- "YYYY-MM-DD HH:MN:SS.ss" or "YYYY-MM-DD whatever you want" : same as above. Only the part before the first space is considered.
- "D/M/Y" : Days D < 10 or/and Months M < 10 may or not have a leading zero. Example: "7/09/2017".
- "D-Mmm-YYYY" where Mmm is the short name of the Month in english: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec. Days D < 10 may or not have a leading zero.

"long"

Optional keyword to get days names in long full form: "Wednesday" instead of "Wed", etc. Can be used anywhere after the Days input argument(s).

la_NG

Optional keyword = unique string specifying the language in which days names are requested, in the standard format like "en_US", "fr_FR", etc. Can be used anywhere after the Days input argument(s).

Array of decimal integers in [1,7], having the sizes of **N**, **YMD(:,1)**, **Y**, **M** and **D**, Or **dateStrings**: 1 is for Sunday, 2 for Monday, ..., 7 for Saturday.

Names

Array of text words having **i** sizes: Names of days in their weeks, for the given dates. Names are returned in short form like "Wed" standing for "Wednesday", unless the "long" option is used.

Description

For each given dates, or by default for today, `weekday` computes and returns the integer index of the day in its week, from 1 to 7. The abbreviated or full name of the day may also be returned, in the Scilab session language. If a language code is provided and targets a language supported in Scilab, the day name is translated into the language before being returned.

Lang	i	short	long	Lang	i	short	long
en_US	1	Sun	Sunday		pt_BR	1	Dom	Domingo
en_US	2	Mon	Monday		pt_BR	2	Seg	Segunda-feira
en_US	3	Tue	Tuesday		pt_BR	3	Ter	Terça-feira
en_US	4	Wed	Wednesday		pt_BR	4	Qua	Quarta-feira
en_US	5	Thu	Thursday		pt_BR	5	Qui	Quinta-feira
en_US	6	Fri	Friday		pt_BR	6	Sex	Sexta-feira
en_US	7	Sat	Saturday		pt_BR	7	Sáb	Sábado
fr_FR	1	Dim.	Dimanche		ru_RU	1	Вск	Воскресенье
fr_FR	2	Lun.	Lundi		ru_RU	2	Пнд	Понедельник
fr_FR	3	Mar.	Mardi		ru_RU	3	Втр	Вторник
fr_FR	4	Mer.	Mercredi		ru_RU	4	Срд	Среда
fr_FR	5	Jeu.	Jeudi		ru_RU	5	Чтв	Четверг
fr_FR	6	Ven.	Vendredi		ru_RU	6	Птн	Пятница
fr_FR	7	Sam.	Samedi		ru_RU	7	Сбт	Суббота
ja_JP	1	日	日曜日		zh_CN	1	星期日	星期日
ja_JP	2	月	月曜日		zh_CN	2	星期一	星期一
ja_JP	3	火	火曜日		zh_CN	3	星期二	星期二
ja_JP	4	水	水曜日		zh_CN	4	星期三	星期三
ja_JP	5	木	木曜日		zh_CN	5	星期四	星期四
ja_JP	6	金	金曜日		zh_CN	6	星期五	星期五
ja_JP	7	土	土曜日		zh_CN	7	星期六	星期六

Examples

```
// Today
[i, n] = weekday()
[i, n] = weekday("long"); n
[i, n] = weekday("long", "ru_RU"); n

// Explicit input dates
[I, N] = weekday(["1/1/1970" "11/9/2001" "26/12/2004"])
[I, N] = weekday(["1/1/1970" "11/9/2001" "26/12/2004"], "long"); N
[I, N] = weekday(["1970-01-01" "2001-09-11" "26/12/2004"], "long"); N
```



```

[I, N] = weekday(["1970-01-01 00:00:00" "2001-09-11 08:14:00" "2004-12-26 00:58:53"], "long"); N
[I, N] = weekday(["1-Jan-1970" "11-Sep-2001" "26-Dec-2004"], "long"); N
[I, N] = weekday([1970 1 1 ; 2001 9 11 ; 2004 12 26], "long"); N
[I, N] = weekday([1970 2001 2004], [1 9 12], [1 11 26], "long"); N
D = datenum([1970 1 1 ; 2001 9 11 ; 2004 12 26])
[I, N] = weekday(D, "long"); N

// Language option
[I, N] = weekday(["1/1/1970" "11/9/2001" "26/12/2004"], "zh_CN"); N
[I, N] = weekday(["1/1/1970" "11/9/2001" "26/12/2004"], "fr_FR", "long"); N

```

See also

- [eomday](#)
- [datenum](#)
- [datevec](#)

History

Version Description

- | Version | Description |
|---------|--|
| 6.1.0 | <ul style="list-style-type: none"> • New syntaxes added: <code>weekday()</code>, <code>weekday(YMD)</code>, <code>weekday(Y, M, D)</code>, <code>weekday(dateStrings)</code>. • Language option added. • Algorithm now based on <code>datenum()</code>. |

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