

DateString_mcc

Kai Hofmann

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Chapter 1

DateString_mcc

1.1 DateString.mcc

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If you have AmigaDOS® 2.0 or 2.1, you will have to scroll to the right in order to read the text. AmigaGuide® for these versions of AmigaDOS® is unable to wordwrap the text.

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This package may not be included on any further Aminet CD-ROMs unless authors contributing their software to the CD-ROM, (without mentioning distribution "NoCD") are granted a copy of the CD *completely* *free* *of* *charge*.

The Meeting Pearls IV CD-ROM demonstrates that a Freebie policy is also possible with "very-low-budget" CD-ROMs (*), so Aminet should quickly re-establish the same Freebie policy it used up to Aminet CD 13.

(*) Suggested retail price for MP4 is DM 14,95/US\$ 12/£ 8.95.

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1.6 Support/Updates

Support/Updates

- Updates will be available via Aminet®
- Support will be available via the **authors** email address and via <http://home.pages.de/~i07m/amiga/mui/DateString.html>

1.7 Author

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1.8 Description

Description

DateString is a Custom Class of the Magic User Interface © by Stefan Stuntz. It's a subclass of string-class and date-class.

The idea of this class was born during developing my Gregor application.

MUI public custom class displaying a string gadget for date strings. The display format of the date string can be freely defined. An input string can be parsed by the given format string (see below), or in over 40 known formats.

DateString.mcc features that are of interest for users:

- Handles years from 8 to 8000
- Supports the Gregorian calendar reform
- Supports 21 languages
- Supports drops of other date objects and date-strings
- Can be dragged around
- A week can begin with any weekday
- Supports various string formats via template
- Can autodetect over 40 date-string formats

DateString.mcc features of interest for developers:

- Based on Date.mcc
 - Supports MUIM_Import and MUIM_Export
 - The date can be read as day/month/year format or as JD or MJD
 - The date range can be restricted
 - Method to set the current date
 - Methods for increasing and decreasing the date
 - Method to compare with another date object
-

The display format for a DateString object can be defined by the following formatting codes:

Syntax of Amiga compatible % commands:

%d - Day number with leading 0s

%e - Day number with leading spaces

%m - Month number with leading 0s

%h - Abbreviated month name

%b - Abbreviated month name

%B - Month name

%y - Year using two digits with leading 0s

%Y - Year using four digits with leading 0s

%j - Julian date

%w - Weekday number

%a - Abbreviated weekday name

%A - Weekday name

%U - Week number, taking Sunday as first day of week

%W - Week number, taking Monday as first day of week

%x - Same as "%m/%d/%y"

%D - Same as "%m/%d/%y"

Syntax of % commands:

%Ddf - Day with leading 0s

%Ddv - Day without leading 0s

%DDf - Day within the year with leading 0s

%DDv - Day within the year without leading 0s

%Dmf - Month with leading 0s

%Dmv - Month without leading 0s

%Dms - Month string

%Dma - Abbreviated month string

%Dy2f - 2-digit year with leading 0s

%Dy2v - 2-digit year without leading 0s

%Dy4f - 4-digit year with leading 0s

%Dy4v - 4-digit year without leading 0s

%Dys - Scaliger year

%Dj - JD date

%DJ - MJD date

%Dwn - Weekday number (1-7)

%Dws - Weekday string

%Dwa - Abbreviated weekday string

%DWf - Weeknumber with leading 0s

%DWv - Weeknumber without leading 0s

%DMf - Age of the moon (0-30 ?) with leading 0s

%DMv - Age of the moon (0-30 ?) without leading 0s

The date-string autodetection knows over 40 date-string formats:

(yesterday|today|tomorrow)

wdn

wdn[,] mmm d[(yylyyyy)]

wdn[,] d[.] []mmm[,.] [(yylyyyy)]

wdn[,] d[.] []m[.] [(yylyyyy)]

mmm d[yyyy]

mmm/d[(yylyyyy)]

mmm-d[-(yylyyyy)]

yyyy[-]Www[-]n

yyyy(-l)m(-l)d

yyyy(-l)n[n[n]]

yy[-]Www[-]n

yy-nnn

d. mmm [(yylyyyy)]

d.m. [(yylyyyy)]

d-mmm[-(yylyyyy)]

d-m[-yyyy]

Detection condition:

yyyymmdd | ddmmyyyy (valid date test)

jjjjjj | yyyyynn (1723980 >= JD <= 2914672)

JJJJ

JJJJJ | yymmdd (MJD <= 514671)

d-m-yy | yy-m-d (yy > 31 | valid date test)

d/m[/yyyy] | m/d/yyyy (valid date test)

d/m/yy | m/d/yy | yy/m/d (valid date test)

Symbol explanation:

() = grouping

| = alternative

[] = option

d = day-number (1-2 digits)

dd = 2 digit day

n = 1 digit day within week (1-7 = Mon-Sun)

nnn = 3 digit day within year

ww = 2 digit week within year

m = month-number (1-2 digits)

mm = 2 digit month

yy = 2 digit year
 yyyy = 4 digit year
 JJJJ = 5 digit MJD
 JJJJJ = 6 digit MJD
 jjjjjj = 7 digit JD
 wdn = weekday-name (long|short in any support language!)
 mmm = month-name (long|short in any support language!)
 to the short version you can add a `.`

1.9 Requirements

Requirements

- **MUI** 3.1 (Version 12)
- date.library
- locale.library
- To use the Greek MCC-Install script you need the
"Greek Workbench" © AC Software
- To use the Russian MCC-Install script you need
"Rusifier" © Dmitry Mikhilov

1.10 Installation

Installation

Only use the installer script!

(The Installer must be in your system-path!)

If you use an Installer prior to V42 you should set the LANGUAGE Tooltype to your language. Installer V42 and better automatically use your current locale.

Please note that the installer-script is very special, because:

- It features uninstallation
- It is automated
- It is very flexible
- It is very intelligent (for an installer-script ;-)
- It uses **WrapGuide** (if present) for the Amigaguide documentation if running under a pre V39 system.
- It can be reused by (hopefully) all other MUI custom classes, because the authors of custom classes need to only change a few things:

* The #copyright variable

- * The #min_os_version and #min_os_revision variables
- * The #min_mui_version and #min_mui_revision variables
- * The #language_mcc and #language_mcc variables
- * The P_CustomExists, P_CustomInstall and P_CustomUninstall procedures
- * The 'APPNAME' tooltype within the MCC-Install icon.

1.11 Beta testers

Beta testers

Version numbers of beta release will not change, so you must uninstall an earlier installed beta version before you can install a newer one!

1.12 Developer Informations

Information for Developers

There is no multiple inheritance for Boopsi/MUI for the moment, so we haven't any chance to create a real Date basis-class. But there is another way to have the same result (compatibility for all classes that are dealing with dates).

The solution is called interface inheritance like it was done with IDL for CORBA.

DateString.mcc inherits the interface from Date.mcc!

Btw. it would be wise to use a

```
SetAttrs(obj,
MUIA_Date_Year, year,
MUIA_Date_Month, month,
MUIA_Date_Day, day,
TAG_DONE
```

```
);
```

instead of single set()'s.

- The following attributes are filtered out, so that they can't bring a DateString object into trouble:

```
MUIA_String_Contents, MUIA_String_Accept, MUIA_String_EditHook,
MUIA_String_Integer, MUIA_String_LonelyEditHook, MUIA_String_Secret,
MUIA_String_Reject, MUIA_FillArea
```

- When MUIA_ObjectID is defined a DateString object will load/save the following data during MUIM_Application_Load/MUIM_Application_Save
Day, Month, Year

1.13 History

History

28.08.1996 - First release

06.09.1996 - Second release

- * Implementing MUIM_Import, MUIM_Export

- * Demo updated

13.12.1996 - Third release

- * Using MUIV_Font_Button for buttons

- * Adding great icons from Eric Gerard

- * Fixed Assembler interface

- * Fixed Modula-II interface

- * Fixed Amiga-E interface

- * Fixed Oberon interface

27.11.1997 - Fourth release on Aminet

- * Now based on Date.mcc 12.1

- * Demo improved

- * Added Blitz Basic 2 interface

- * Added Cluster interface

- * Added ARexx interface

- * Added MUIBuilder3 description

- * Added German documentation

- * Own ParseDate() function

- * Added Amigaguide V40 features to the documentation

- * Added "Please rate" section to the documentation

- * Added MagicWB readme

- * MCC-Install 43.21

- * Compiled with MCCLib 12.4

- * MUIA_String_Contents will now be filtered

- * Accepts drops of date-strings

1.14 Todo

Todo

- BubbleHelp error text

- Accept string by pressing Tab

1.15 Known problems

Known problems

- I heard that using 'test' and then 'cancel' the test settings within the MUI preference manager will not work as expected when in using your MUI classes within Libs:MUI/ instead of MUI:Libs/MUI/ !!!
- Old versions of the program called 'PhoneCost' written by André Schenk <schenkae@tick.informatik.uni-stuttgart.de> installed another 'date.library' into 'Libs:'.

1.16 Acknowledgments

Acknowledgments are going to the following people:

Rita Reichl : for correcting my English and being my inspiration

James Cooper,

Steve Krueger,

Doug Walker : For supporting SAS/C® after SAS suspends the support.

Stefan Stuntz : for the **Magic User Interface** and for his support

Klaus Melchior : for the MUI custom class support

Martin Huttenloher : for **MagicWB**

Udo Schuermann : for **WrapGuide**

Stefan Kost : for ag2txt

Jürgen Kohrmeyer : for the rexxtricks.library

Eric Gerard : for his great icons

1.17 Please rate

Please rate

Please rate DateString.mcc and MCC-Install. To do so, send an email to aminet-server@wuarchive.wustl.edu with the following content:

RATE dev/mui/MCC-Install.lha <num>

RATE dev/mui/MCC_DateString.lha <num>

where <num> is a mark from 0..10 with 10 being the best.

You can rate several programs in one mail.

Thank you!

1.18 Software

Software

The following software products use DateString.mcc:

1.19 MUI

This is a custom class of the

MUI - MagicUserInterface

Copyright © 1993-1997 by Stefan Stuntz

MUI is a system to generate and maintain graphical user interfaces. With the aid of a preferences program, the user of an application has the ability to customize the outfit according to his personal taste.

MUI is distributed as shareware. To obtain a complete package containing lots of examples and more information about registration please look for a file called "muiXXusr.lha" (XX means the latest version number) on your local bulletin boards or on public domain disks.

If you want to register directly, feel free to send

DM 30.- or US\$ 20.-

to

Stefan Stuntz

Eduard-Spranger-Straße 7

80935 München

GERMANY

Support and online registration are available at

<http://www.sasg.com/>

1.20 MagicWB

This product is based on or uses parts of

MagicWB - The Workbench Enhancer

Copyright © 1992-1997, Martin Huttenloher

If you use and like this product you should very much consider to take a look at MagicWB, which is the authentic source of the style, colors and design elements contained in this package. It features hundreds of original icons, patterns, image-drawers, dock-brushes and some specially designed high-quality fonts to improve the comfort & legibility of your

daily Workbench session.

What is MagicWB? MagicWB is a full replacement for the Graphical User Interface of the Workbench and has become the standard visual interface on the Amiga. Over the last years MagicWB has received various merits and an overwhelming response from Amiga magazines and users worldwide proclaiming it "a must for all Amiga users". Even commercial applications are supporting the multi-colored look & style of MagicWB.

Get yourself the latest version of MagicWB and see for yourself the wonders it can do by automatically transforming your old and dull Amiga Workbench into an impressive workstation environment that will be the envy of all PC Windows and Mac users. Update yourself to the state-of-the-art workbench standard everyone uses on the Amiga! It is also your key to enjoy the new look & feel of many applications and other MWB add-ons and extensions. MagicWB is distributed as shareware. Get yourself the latest FREE PUBLIC RELEASE of MagicWB now: It is called

MagicWB21p.lha

and can be found everywhere on Aminet (or your local BBS or public domain series). Install it and witness the instant magic it performs on your old Amiga Workbench. Also included is the latest SASG registration program with which you can order and get the full registered version of MagicWB.

If you want to order directly, feel free to send

DM 30.- or US\$ 20.- (cash, no checks!)

to

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Germany

You may also choose to visit the official MagicWB homepage on the world wide web. There you can find the latest news & support and even register your MagicWB online (which is much more comfortable and faster). You can even benefit from various special offers & discounts for MagicWB if you order through our website! Come and visit MagicWB at:

<http://www.sasg.com/>

Save 20% by using the discounts on our website!

Ordering online also saves you a lot of time and work!

1.21 WrapGuide

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