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Tinic Urou

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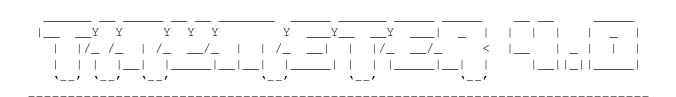
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Chapter 1

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1.1 TinyMeter V4.0 AmigaGuide documentation



~~Introduction~~~ What's that thing? ~~~What's~new?~~~ New Features and bugfixes in 4.0! ~~Requirements~~~ Ya need a Draco! ~~Installation~~~ How to get it on your harddisk ~~~~~Usage~~~~~ How do I use TinyMeter ~~~~~Tips~~~~~ Some instructions for the configuration ~Troubleshooting~ If you're having some problems ~~~~~Bugs!~~~~~ They're always in... ~~~~The~Author~~~ That's me

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```
~To~Do~/~Future~~
    TinyMeter will become the ultimate tool!

~~~Thanks~to~~~
    Greets and used software.

~~~~History~~~~
    Very interesting!

~~~Legal~Stuff~~~
    Hey this is EMailWare!
```

01 Jan. 1996

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1.2 What is TinyMeter

TinyMeter 4.0 is a tool to show the memoryusage, the volumesusage, the date&time and the cpu usage, with useful informations which are selectable.

Look at the preview~picture

Features:

- Shows base-ram after bootup. It is good to know how much memory the startup-tools take and if the applications really freed all the memory or if your bbs got uploads etc.
- Uses the ScreenNotify.library to automatically detect the changing of screenmode or font on the Workbench. On any other PublicScreen closing of the screen is recognized.
- Can be opened on any PublicScreen.
- snaps the actual Workbench background if desired
- many options for the design/look
- Can use a background picture via Datatypes.
- Font sensitive
- displays free memory with c-style formatting codes to be very flexible.
- its a commodity
- etc 8)

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1.3 Installation

Automatic:

Use the Installer icon

Manual:

- Copy "TinyMeter" and "TinyMeter.info" to WBStartup.
- Copy "Prefs/TinyMeterPrefs" and "Prefs/TinyMeterPrefs.info" to SYS:Prefs.
- Copy the contents of "Libs" into your LIBS:.
- Start "TinyMeter", setup desired size and position. Press "S" to save these settings.
- Setup the other configurations by starting "TinyMeterPrefs".

1.4 Usage

Usage of "TinyMeter":

MouseAreas:

Upper left corner: End TinyMeter

Lower right corner: Size TinyMeter by holding the left

mousebutton

Other Areas: Move TinyMeter window by holding the

mousebutton

Supported Keys:

(NOTE: Do not forget to click first on the TinyMeter window before you use these keys !)

"q" or "Q" Quit TinyMeter

"s" or "S" Saves window-position and size

"f" or "F" Flushes the memory like "c:avail flush"

All unused libraries, fonts etc. are

removed from the memory.

"p" or "P" Start preferences program.

NOTE: TinyMeterPrefs must reside in SYS:Prefs/ to use this function.

RIGHT MOUSEBUTTON redefines base ram to the actual

memoryusage

Usage of "TinyMeterPrefs":

TinyMeterPrefs supports the bubblehelp from MUI3.1. Most of

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the gadgets have a little help. Simply leave the mouse over a gadget for a while, and the help will appear.

Any other questions? Write $$\operatorname{\mathtt{me}}$$

1.5 The Author

To contact the author email to:

(the old address tinic@tinic.mayn.sub.de is not valid anymore!)

or snail to:

Tinic Urou
Gaertnerstr. 15
20253 Hamburg
- GERMANY -

If you want to talk on IRC, leave me an email.

1.6 Legal Stuff

TinyMeter 4.xx is GIFTWARE.

If you think this program is good and you regulary use it then simply send me a little gift of your choice as a reward for my hard work... I'd also like some feedback from the users via email... 8)

Copyright

TinyMeter is written and copyright © 1994-1995 by Tinic Urou. No parts of this program may be modified (patched, recompiled) to a new program named TinyMeter.

Ideas, techniques and the interface from this program can be freely adopted to other programs.

Disclaimer

The author is in no way liable for any changes made to any part of the program, or consequences thereof as he is in no way liable for damages

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or loss of data directly or indirectly caused by this software.

Distribution

Neither fees may be charged nor profits may be made by distributing this piece of software. CD Manufactures are specifically granted the right to include this program on CD collections, as long as they are for the Public Domain.

1.7 History

```
1.0 (10.6.1995) - First public release
1.1 (14.6.1995) - Added screennotify.library support
                - Added DOUBLEBORER
                - Added RIGHT MOUSEBUTTON-support
2.0 (24.6.1995) - code completly redone in GNU C.
                - Added Preferences program.
                - Added Prefsfile and removed Tooltypes.
                - No longer uses prepainted picture.
                - Now fontsensitive.
                - Now the window is sizeable.
                - Added "S" to save window settings
                - Added realtime window-moving and -sizing
2.1 (27.6.1995) - fixed some bugs in publicscreen-handling
                - made code smarter
                - shows now free amount of memory
                - refresh interval can be set
                - screennotify.library can be turned off
2.2 (10.7.1995) - Added Test Button
                - removed iff.library usage and replaced
                  it with datatypes.library
                - Largest block display
                - free mem display
                - removed bug displaying big fastmem values
                - optimized code
                - Added installer script
2.3 (19.7.1995) - Preferences now work on a 640x256 screen
                - Preferences texts redone
                - CANCEL button does now what he should do.
                - fixed an internal bug in the message system
                - Close button does now what he should do
                - added flush memory key
                - Backgroundcolor of gauge now selectable
                - rework on the documentation
3.0 (01.8.1995) - only works with OS3.0+ since 2.2, sorry!!
                - removed nasty bugs with 68040 processor
                - added 3D Gauges
                - added Window to Front and Window to back option
                - added NoBorder option
```

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- Position of window can now be set manually
- Texts for "CHIP", "FAST" & "RETINA" can now be set manually
- introduced c-style formatting codes for numbers
- Largest block & mem line removed and replaced with InfoLine_1 and InfoLine_2
- Bordersizes selectable
- background color of TinyMeter selectable
- changed way how to display gauges completly,
 so its now possible to make more gauges in future
- Total Mem gauge added
- Retina Memory added
- added tiling of background picture
- No Base mem display-flag added
- Border for gauges can be turned off
- Space between gauges now selectable
- "Q"-key added to end TinyMeter
- slightly optimized the code.
- added volumesusage
- added 'P'-Key to run preferences program
- fixed bug when screennoify was selected and used
- added Refreshtime for volumes
- normal window-moving added
- snap from TinyMeter added

3.1 beta 1

(06.8.1995) - Colorrequester did not work with screen with more than 16 colors, it simply crashed (Oops!)

- volumes which are not available are now ignored no more requests!
- Colorrequester now uses reqtools.library IF available
- ScreenNotify-selection-bug removed.
- added Digital Clock + some fonts for this
- all displays are now buffered using an own bitmap. No flickering anymore!
- Gauges can now be turned off, keeping the texts with throughshinig background
- A MinSize for the window is now defined, since the machine crashes using the BltBitMapRastPort with negative numbers
- removed some unnecessary time requests
- memory, volumes and clock position can now be set to: left, right, center
- rework on the volumes routines
- TinyMeter now uses himself a priority "-3"
- 3.1 beta 2 redone some of the code, now smaller
 - tried to fix a Enforcer hit.
 - tried to fix the trashing on a A4000/040
 - made ClipBlit sure, all coordinates are checked.
 - made RectFill sure, all coordinates are checked.
- 3.1 beta 3 tried to fix a Enforcer hit.
 - splitted the source to speed up compiling.

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```
3.1 public beta
    (30.08.95) - finished MUI-Preferences program.
                - added "o" for occupied size in the textformat.
3.2 public beta - fixed a big bug saving the prefs in TinyMeterPrefs
    (01.08.95)
               - "hh:mm" "hh:mm:ss" exchanged
                - added possibility to select y-size of gauges.
                - removed IDCMP_MOUSEMOVE in the main handler,
                  now temporaly activated when using Opaque-effect
                  and clicking the mousebutton.
                  That should fix some of the lockups...
                - moved color-page into design-page.
                - magicwb-demo-prefs did use my System: Assign (;^))
                  changed it to SYS:
                - Installer-script produced garbage
                - used shortrel to reduce size and to gain speed
               - TinyMeter is now a commodity
3.3 (05.09.95)
                  supported events:
                    · Disable/Enable
                    · Kill
                - fixed a bad behavior, when "Workbench" was selected
                  as PublicScreen, screennotify was not activated.
                  This is now checked.
                - DatatypeObject is now freed after the background
                  has been drawed. This slows down resizing,
                  but will save a bit of memory
                - painted some new icons
                - rework on the guide-file
3.31 (08.09.95) - a datatypeobject was allocted two times and only
                  freed one time, that could mean a big lost
                  of chipmemory
                - compiled with gcc 2.7.0 + option "-fbaserel". That
                  saved 2KB!
3.4 (12.09.95) - added snapping of Workbench-background, notification
                  for WBPatterns.prefs was also added, to use pattern
                  switchers like MagicSelector.
                - code for opaque-effect was removed, its not neccesary
                  I think.
                - Volume-Indent was saved wrong by TinyMeterPrefs.
                - thousand seperators now use a "," instead of a "."
                  To get a "." you'll have to use the new option "T".
                - added possibilty to select number of colums.
                  that was really a hard work!!
                - redone bacground code, TinyMeter will again not free
                  the datatype-object until TinyMeter is quitted.
                  Some persons reported a pen problem...
3.5 (17.09.95) - fixed a VERY big bug in the textdisplay routines.
                  I think, they caused the Enforcer hits...
                - added locale.library support, some work to do...
3.51 (22.09.95) - a bad PortName was created. Caused some Enforcer Hits.
                  Thanks to Chad Randall for the tip...
                - Fixed a display bug.
```

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```
3.52 \ (05.10.95) - Two ports were initialized with the same name.
                  Caused problems, since I didn't checked
                  if the allocation was correct. (poor programming 8))
                  They were problems with WarpSPELL, PPaint etc.
                - clock can now be above the gauges
                - NoBaseMem-function does now work correctly
                - If TinyMeter was not running, snapping gave bad coords.
3.6 (09.11.95) - TinyMeter caused Enforcer hits, when the clock was
                  turned off.
                - added system idle gauge, code was from cpuload2
                - AM/PM format added
                - complete sourcecode added to the archive... Look at
                  the bad code 8)
3.62 (16.11.95) - Disabling the clock and date reworks again...
                - Problem with white gauges should have disappeared
                - added ShadowText (Thnx to 'Nudel' for the suggestion!)
                - Color selector reworks under MUI3. Muimaster.library
                  version 11 is checked...
4.00b(29.12.95) - Entirely rewritten. Now uses own boopsiclass for the
                  gauges.
                - Clock was removed.
                - Infolines were removed.
                - New Preferences system, supporting own settings for
                  every gauge.
                - Own Font for every gauge.
                - Gaugetypes for largest blocks added.
                - Historymeter added.
                - Bordertype "Simple" added
                - Gaugetype "Space" added
                - Penallocation system added.
                - Fixed Always to Front
                - Fixed Always to back changing it to BackDrop...
                - Worked a bit on the speed.
                - Completly new preferences program using MUI3.1 features,
                  too many news to mention them here 8))
4.01 (01.01.96) - readded a clock-function
                - Changed the design of Historymeters
                - Removed some bad Enforcer hits from TinyMeterPrefs.
                  (They caused the crashes at startup)
                - Speeded up some functions, esspecially the handler
                - Screennotify now works correctly.
                - Removed nearly all "SetGadgetAttrs" and replaced
                  them with a SetAttrs-RefreshGlist pair, because
                  it caused lockups every second. A really bad behavior
                  of gadgetclass!! Even the orginal RKM BOOPSI demos
                  contain this problem ...
                - fixed memorytrashing by the gauges.
```

1.8 **Bugs!**

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- I didn't have the possibility to remove all Enforcer hits.
- TinyMeterPrefs can't be run from TinyMeter using 'p', since TinyMeterPrefs does not support own stack allocation until now... 8((
- MUI Colors aren't supported yet. Please do not use them when you select the Colors with the "Pen adjust". Use instead "ColorMap" or "RGB"!
- There are many grammatical errors in the texts. Did them in a hurry.

If someone has any idea how to locate the errors or wants to help me, simply contact me, or send me a corrected version. 8))

Please write

me

, if you find any bugs!!!

TinyMeter V4.00beta has been successfully tested under these configurations:

A2000	OS3.1	68030	6MB Ram	Picasso
A4000	OS3.0	68030	12MB Ram	AGA
A1200	OS3.1	68020	6MB Ram	AGA

1.9 Whats new in 4.0?

Changes since 3.62:

Main program:

- code completly redone. It should be much more stable now. Introduced an own BOOPSI-class for the gauges.
- Every gauge can have its own settings. Use any Font in any gauge, use any color in any gauge!
- Gauges can freely moved in their order!
- Intruduced new type of gauge: Historymeter. Have a look at it!
- CPU usage now can take advantage of the "Executive"-package.
- The infolines were removed, since no one really used them.
- Introduced the possibilty to use own allocated pens.
- "Always To Front" does now correctly.
- "Always To Back" was replaced with the "BackDrop" option.
 The TinyMeter window can now always stay in the background.
- Added Borderoption "Simple".

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```
    Space between gauges can now be selected in horizontal and
vertical direction
```

- Colors of dark and bright edges can now be selected.
- Background of gauges can now be throughshining.

and many more...

Preferences program:

- Code completly redone. Now takes advantage of all MUI features, especially the object orientied design.
 Supports some of the new features of MUI 3.1, like drag&drop, bubble help, the new pen system & some of the new classes.
- Gerneral Settings can now be saved ro a file. Gaugedesigns can also be saved. Try the menus...

and many more...

Have also look at History

1.10 Requirements

To run TinyMeter, you will need:

- Any Amiga with AmigaOS 3.0+
- MUI 3.1+
 MUI is only required for the Preferences program!
- enough memory 8)

1.11 Thanks to

Thanks must go to:

- Aristotelis Grammatikakis for his endless suggestions and for the hard testing 8))
- Matthew Wells for his Enforcer- and bug-reports
- Jens Kreiensiek for the "retina_lib.fd" and for the testing

and to all the others who did write me, hopefully the list is complete:

- Stefan Thomas Pazourek
- Ralph Wermke
- Nicholas Richards
- Ed Hoffmann
- Jens Maertens
- Ludwig Kamphendel

- Garnet Graham
- Donald Arthur Maxwell
- Tom Heeren
- Hendrik Hielscher
- Feris
- Ron Shaw

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- Thomas Meier

- Dan Zerkle

```
- Dirk Wrocklage
                                   - Patrick Breuer
- Olaf Groener
                                   - Ryan Thomas
- Randy Gault
                                   - Remco van Hooff
- Gary
                                   - Eugenio Gori
- Marius Sundbakken
                                   - Tommy Ebbessen
- David Bump
                                   - Nils Goers
- Dan Brooke
                                   - Chad Randall
- Domenico Barbetto'
                                   - John Hertell
- Leo Davidson, alias 'Nudel' - Andre Wywra
- Bert Heise
                                   - Uwe Ploss
- Daniel Schulz
                                   - Marcin Orlowski
- Marius Sundbakken
                                   - Marco Fraatz
- Simon Stelling
                                   - Gregg William Riedel
- Louis van Breda
                                  - Nikolai Zizka
- Robert J. Dennison
                                  - Artuu E.Kärpinlehto
- Ivan Wheelwright
                                   - Fredrik Elmqvist
- Wolfgang Loske
TinyMeter was written using the following software:
- qcc 2.7.0
- DICE 2.06
- GoldED 3.13
  ( Best programmers editor ever! )
- Enforcer + gccfindhit
- CodeWatcher
  ( Fine tool to detect unfreed memory, devices, fonts etc.)
- PhxAss 4.20
 ( Nice Assembler! )
- PPaint 2.1
  ( Nice FreeWare | ^)
- Heddley V1.1
- MUI 3.1
TinyMeter was developed on this system:
- an Amiga 4000/0EC30/882/25Mhz
- OS 3.0 (39.106)
- 12 MB RAM ( 2MB Chip, 8MB 32Bit Fast, 2MB 16Bit Fast)
- a GVP Host Series II - Adapter with Guru Rom.
- a Toshiba 4101 CD-Rom ( always a Aminet CD in :) )
- 4 Harddisk with 52MB, 240MB, 420MB and 540MB
- a US-Robotics V.34 Sportster modem
- a Zyxel 1496E+ modem
- a Canon BJ200ex printer
- a ScanDoubler (to see some nice demos, like ZIF from Parallax)
- a shitty old VGA-monitor on which I nearly can't read a topaz.8 font.
 owned this one at "V*bis" (they're LAME there, but cheap)
- a big television and a nice sat-receiver to look Babylon5 and Voyager.
```

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1.12 To Do / Future

```
These are the features I want to include in future versions:
1
      fixing bugs 8))
2.
      speedoptimizations (I am really at the limit now 8-()
      real commodity-hotkeys
      add formatting code for the differences between values,
4.
      f.ex. the exact difference between base-ram and actual-ram.
5.
      perhaps informations about other system vars, especially
      in the infolines:
          - AmigaOS version
          - number of used libraries
                      used publicscreens
                      used ports
                      used devices
                      running tasks
          - processor-type
          - co-processor-type
          - gfx chips
6.
      more memorytypes.
7.
      lets see...
```

1.13 Troubleshooting

These are the most asked questions:

```
Q: TinyMeter produces Revoverable Alerts on my machine.
```

- A: 1. Check, if you really have "screennotify.library" in your LIBS: assign.
 - 2. Remove "retina.library" from your LIBS: assign if you don't have a Retina-GFX card.
- Q: TinyMeter 4.0 produces garbage on my machine.
- A: Try deleting "ENV:TinyMeter" and "ENVARC:TinyMeter" and remaking the prefs.
- Q: The installer quits with a error when he installs the backgrounds. Why?
- A: You surely already use one of my supplied backgrounds on your Workbench. Simply delete them in the ArtWork/Patterns directory and restart the installer.
- Q: TinyMeter eats up much processor-time on my machine. I am using a 68000.
- A: Try to select a higher volumerefresh (> $30 \, \mathrm{secs}$) and memoryrefresh (> $10 \, \mathrm{secs}$).

more to follow...

1.14 Configuration Tips

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--- Fonts

• GENERAL: If a font seems to be placed too high or too low in the gauge, take a tool like "FED" and change the baseline, which is not correct in many fonts. Best examples for good baseline choice are the fonts from the MagicWB-package (XHelvetica, XCourier, XEN etc.)

- GAUGES: Preferably use fonts with a small width. Otherwise the formatted text or the label cannot be displayed or the Windowsize will be automatically adjusted.
- · GAUGES: Sometimes, the font will be drawed over borders, which doesn't look good. Simply selected a higher height for the gauges.
- CLOCKS: Please use fixedwidthed fonts for the clock, or a font where the numbers all have the same size, since only the real width of the text blitted.

--- Formatting texts

The format specifier is scanned to determine what to show on the display. Characters are copied to the output until a % is encountered. %% indicates a literal '%' character. Otherwise, the % is followed by a control sequence that tells TinyMeter what to display.

Gauges and Historymeter:

```
%[Options]d - Free bytes/amount
%[Options]b - Free base bytes/amount
%[Options]p - Free percent
%[Options]a - total installed
```

The options (Note, that the following order must be maintained if you use more than one option!):

t - thousands seperator	3,566,345
T - thousands sepeperator with a point	3.556.345
k - show kilobytes	3472
m - show megabytes	3
o - show occupied size	

-

Examples:

Clocks:

The clock uses the "FormatDate"-function from the locale.libary:

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```
%a - abbreviated weekday name
%A - weekday name
%b - abbreviated month name
%B - month name
%c - same as "%a %b %d %H:%M:%S %Y"
%C - same as "%a %b %e %T %Z %Y"
%d - day number with leading Os
%D - same as "%m/%d/%y"
%e - day number with leading spaces
%h - abbreviated month name
%H - hour using 24-hour style with leading Os
%I - hour using 12-hour style with leading 0s
%j - julian date
%m - month number with leading Os
M - the number of minutes with leading 0s
%n - insert a linefeed
%p - AM or PM strings
%q - hour using 24-hour style
%Q - hour using 12-hour style
%r - same as "%I:%M:%S %p"
%R - same as "%H:%M"
%S - number of seconds with leadings Os
%t - insert a tab character
%T - same as "%H:%M:%S"
%U - week number, taking Sunday as first day of week
%w - weekday number
\ensuremath{\text{WW}} - week number, taking Monday as first day of week
x - same as "%m/%d/%y"
%X - same as "%H:%M:%S"
%y - year using two digits with leading Os
```

%Y - year using four digits with leading Os