

**00611d88-0**

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# Chapter 1

## 00611d88-0

### 1.1 TruePub - The Front Page

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TruePub V1.3 (13.10.1996)

Public Screen Promoter for Non-Public Screens

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TruePub is a small program for promoting practically any screen into  
public

one. Though small in size, TruePub offers full range of features. ←

It can be

started from CLI (auto-detaching, no need to run it) or from Workbench. System  
commodity properties are supported but not required. No reasonable limits  
exist for preferences that can be given as CLI arguments or Workbench  
tooltypes as well as in an external preferences file. All command, expression  
and argument parsing is done with system-friendly routines.

~~~~Introduction~~~~

~How~does~it~work?~

~~~~Installation~~~~

~~~~~Usage~~~~~

~~~~~Examples~~~~~

~~~~Preferences~~~~

~~~~Return~Codes~~~~

~~~~~Bugs~~~~~

~~~~~History~~~~~

---

~~~~~Legalities~~~~~

~~~~~The~Author~~~~~

TruePub was developed on an ECS500 workstation, boosted by ↔  
SupraTurbo28,  
running OS3.1, equipped with 2+8 megabytes of memory and 1.5 gigs of hard disk  
storage plus 4xCDROM drive.

## 1.2 TruePub - Introduction

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### Introduction

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Amiga screens are really a somewhat clever way to keep different kind of windows apart from each other. But sometimes this is not so good. When there are lot of screens opened, the user may find it hard to find the particular screen he/she is looking for. This can especially be the case if there is a need for using some Workbench utilities once a while.

Luckily there are so called  
public~screens  
, one of them being the default one.

Normally this is the Workbench screen, but it can easily be changed (for example, I use commodity called MultiCX to make the frontmost screen as the default one). By changing the default public screen almost all programs normally using Workbench screen for their output windows will start using the new screen for the same purpose. So it's possible to have CLI (shell) or some other window you prefer opened on the same screen you are working on.

Alas, not all screens are public ones. Talking about good old OS1.3, there even wasn't such concept like public screen, so none of these programs will support this feature. Even now, some programs will strictly keep their screens non-public. But this is no longer. TruePub will force any intuition-based screen to become public one. The usage is simple. You just tell the screen names you want to promote and that's it.

You may now wonder why not to promote all screens, why to tell the screen names? This is because not all screens are very system friendly. Although it is possible to use patterns like "#?" matching everything, this is not recommended. Some programs, especially games, will write directly into their screen bitmap and using custom windows in that kind of situation may cause unexpected results. One thing for sure is that the window image seems to disappear.

Anyway, have fun with TruePub!

## 1.3 TruePub - Theory of Operation

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## Theory of Operation

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TruePub patches three intuition functions, namely `OpenScreen()`, `OpenScreenTagList()` and `CloseScreen()`. `OpenScreen()` calls are redirected into `OSTagList()` to make things little easier and shorter.

When quitting, TruePub takes advantage of the programs called `SetMan` or `PatchControl`. Normally, when - let's say - program A patches a function and then there comes program B patching the very same function, the A can't remove its patches before B. However, with `SetMan` (or `PatchControl`) installed this is possible because patches will be stored in a linked list. After removing has been done TruePub waits some time to make sure nobody is executing the code to be released anymore.

## 1.4 TruePub - Installation

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### Installation

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TruePub does not need any extra files, so you can just copy the program wherever you want to. CLI users may delete the icon file (`TruePub.info`).

In the case you are not familiar with this kind of programs you can now skip to the

usage  
and  
examples  
chapters and experiment with TruePub.

If you find the program appropriate in an everyday use you can place it into the `WBStartup` drawer of your system disk and so it will be started always when you boot up your Amiga. The `DONOTWAIT` tooltype (see your computer manuals for further info about standard tooltypes) isn't actually required but in some heavy loaded situations - especially on slow machines like the one I have - the `Workbench` may get tired of waiting for the TruePub to finish all its initialization and that's where the tooltype in question is needed.

For the CLI users there is no need to "run" TruePub. TruePub can be started anywhere in the system startup scripts. The patch removing routines take advantage of the program called `SetMan` (or `PatchControl`) so if you have one of these installed then the idea would be not to start TruePub before `SetMan` (or `PatchControl`).

See also

examples  
to see some useful hints and tips about using the program.

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## 1.5 TruePub - Usage

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### Usage

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#### Workbench

When started from Workbench, TruePub first looks for its icon. If it can't find it an

error

occurs. This can be the case if you use programs like ToolManager or WbRun to start TruePub only simulating the Wb mode.

Three kind of tooltypes will be recognized:

64KBUF

This will make TruePub to allocate 64 kilobytes buffer instead of the normal 1 kilobyte. Try it if TruePub complains about overflow error. TruePub isn't capable of handling expressions larger than 64 kb (should be enough).

SCREEN=<pattern>

Determines the name pattern for screens to be promoted. The SCREEN tooltype can appear more than once, total number of 65535 patterns will be accepted (including patterns in the

external~preferences~file

). Patterns are standard

dos patterns, case sensitive. Furthermore, screens without names are treated as having a pseudo name "UNNAMED". The public screen name for screens promoted by this option will be SCREEN\_nnnnn, where nnnnn stands for a numeric value 1..65535. First pattern will have the name SCREEN\_1 associated with it and so on.

PREFS=<preferences file>

Reads additional preferences from an

external~file

. If no PREFS tooltype is

specified TruePub search for a file called "TruePub.prefs" first in the current directory, then in the directory where TruePub is located (PROGDIR:), and finally in the ENV: and S: assignments. Using external promote preferences file is the only way to submit user-defined public screen name for the promoted screens.

See also the additional

examples

.

#### CLI

Syntax is almost the same as in the Workbench tooltypes. Four possible kinds

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of arguments will be recognized:

64KBUF

This will make TruePub to allocate 64 kilobytes buffer instead of the normal 1 kilobyte. Try it if TruePub complains about overflow error. TruePub isn't capable of handling expressions larger than 64 kb (should be enough).

QUIT

Quits TruePub. If promoted screens are open the child~process will actually wait for them to be closed.

SCREENS <pattern> <pattern> ...

Determines the name patterns for screens to be promoted. All arguments default to SCREENS type so you don't have to really write "SCREENS" on the command line. Total number of 65535 patterns will be accepted (including patterns in the

external~preferences~file

) and they are standard dos patterns, case

sensitive. Furthermore, screens without names are treated as having a pseudo name "UNNAMED". The public screen name for screens promoted by this option will be SCREEN\_nnnnn, where nnnnn stands for a numeric value 1..65535. First pattern will have the name SCREEN\_1 associated with it and so on.

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See also the additional

examples

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## 1.6 TruePub - Examples

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### Examples

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Here are some examples for CLI users. They can mostly be used in the Workbench tooltypes too, but note that the correspond tootype for

SCREENS

parameter is

---

SCREEN

(and while the former isn't obligatory the latter is).

TruePub ?

Shows the typical summary of parameters. All other arguments will be ignored. Works only from CLI.

TruePub

QUIT

Quits TruePub. All other arguments will be ignored. Works only from CLI. ←

TruePub a#? "b#?"

PREFS

=RAM:TruePub.test

Screens having a name beginning with a or b will be promoted (public screen names will be SCREEN\_1 and SCREEN\_2, correspondingly). Some other preferences are read from the file "ram:truepub.test".

TruePub myscreen xyzy xyzy

Now there can be two promoted "xyzy" screens (plus one "myscreen"). Public screen name for the first "xyzy" will be SCREEN\_2 and the second one has name SCREEN\_3. If you wonder why the string "xyzy" has to be written twice to allow simultaneous existence of two promoted screens the answer is simple: Amiga Operating System insists public screens having unique names.

TruePub

SCREENS

myscreen xyzy xyzy

Exactly same as above.

TruePub PREFS "RAM:VeryBigPreferencesFile"

64KBUF

Maybe there are some huge expressions in the preferences file. ←

Anyway, TruePub

uses a buffer of 64 kilobytes instead of usual 1 kilobyte. You can try option 64KBUF if TruePub complains about overflow error.

TruePub (Final\*|Word\*|DataStore\*|TypeFace\*)

This will promote four kind of screens, but only one of them can be opened at a time. The asterisk sign (\*) can be used as a wildcard (#?) if the corresponding bit in the system DosBase has been set (I myself use commodity called MultiCX for that purpose).

## 1.7 TruePub - Preferences File

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External Preferences File

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The only way to submit a user-defined public screen name for the screens to be promoted is use of external preferences file. Notice that if this external file is present patterns both in the file and in the

tooltypes

~or~

arguments

will be processed. Note also that the public screen name doesn't ←

override

standard screen name (the name normally written in title bar). Public names will only be needed in programs dealing with

public~screens

.

Without specifying name for preferences file TruePub will look for a file called "TruePub.prefs" first in the default (current) drawer or directory, then in the directory containing the program itself (PROGDIR:), and finally in the ENV: and S: assignments. Only first occurrence of the preferences file will be noticed.

Just like CLI arguments and Workbench tooltypes the preferences file is dealt with system (dos) routines. Thus all patterns will be recognized. Pattern matching is case sensitive just like in everywhere else. Empty lines and lines beginning with space or tabulator will be skipped. Rest of the lines should satisfy the following pattern:

```
/A,AS=->=TO/A,/F.
```

As the gibberish like that above is probably fully understood only by real AmigaDos freaks, here comes the explanation. You may have noticed the two A-switches ("/A") in the format string. The parameters they represent are obligatory - that is, every non-comment line should have at least two arguments. First A-parameter stands for the screen name to be promoted (just like the SCREEN tooltype or SCREENS argument) and the second parameter stands for the public screen name for that particular screen. Before the second argument you can enter one of the voluntary keywords "AS", "TO" and "->". AmigaDos, in fact, is clever enough to distinguish between the first and the second parameter even if they appear in wrong order if only there is this keyword telling the difference (see examples at the bottom of the page). The switch "/F" will cover the rest of the line and is ignored by TruePub. It is needed however to prevent parsing errors in case there are comments at the end of the line.

The number of expressions shouldn't exceed 65535 (including those in arguments/tooltypes) and the same limit exists for the number of characters on one line. By the way, there is no need to hit return after the last line in preferences...

Okay, now for some examples. These will all work:

```
Final#?          ->    FWScreen
```

...screen whose name begins with letters "Final" (case sensitive)  
will now be promoted. public screen name will be "FWScreen"...

---

```

"Screen name"          "Public screen name"

...use of the arrow symbol (or words "AS" or "TO" instead)
    isn't required...

(A*|B*)                ->    AB_Screen                ...some comments here

...comments also here (see space in the beginning of the line)...
...empty lines like the one just below are all ignored...

-> "Public screen name" "Screen name"                (in opposite order)

```

## 1.8 TruePub - Return Codes

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### Return Codes

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Because it's not very wise to promote all possible screens with patterns like "#?" or "

```

UNNAMED
" (see
Introduction

```

for more info about possible problems) and

because some - especially not-so-system-friendly - programs tend to open screens without any names it is possible to use TruePub in scripts too (to temporarily allow this wild promoting). The promote preferences can be changed on the fly if no promoted screens are open. However, if they do, then the preferences will be updated right after the screens are closed. This will be done automatically by the child process.

Anyway, it may be a good idea to know the return codes TruePub has. Here they are:

- 0: - everything was ok - the natural case
  - started from workbench
- 5: - tried quitting although already quited
  - the user-defined preferences file wasn't found
  - started TruePub with no promote preferences
  - the promote preferences couldn't be updated right now
- 10: - syntax or overflow error happened during parsing the promote preferences
  - couldn't allocate enough memory or any other error
- 20: - user break (ctrl-c)
  - cli argument error occurred

Even most of the most serious errors return only with code 10. The usual value

---

in these cases is 20, but I don't see any point in having a script only for launching TruePub. All other programs should work whether TruePub is active or not and so an error in TruePub shouldn't prevent starting these other processes (script execution will usually stop if return code 20 is encountered).

## 1.9 TruePub - Bugs

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### The Bug Page

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Well, nothing serious here. Just one thing:

The way TruePub uses for launching its  
child-process  
is a rather simple one.

The child is just started! No memory or segment lists will be added to the process structure entries. The child process will take care by itself to free its allocated memory before exit and everything should work fine (it does, believe or not). However, child's memory area (hunks) may appear somewhat strangely on monitor programs like ARTM or Scout.

## 1.10 TruePub - History

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### History

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- v0.01 first 'functional' version. promotion works as i thought. patched OpenScreen() and OpenScreenTagList()
  - v0.02 actually same as v0.01. seems to promote even public already screens. wow!
  - v0.03 patched CloseScreen() too. however, does nothing with it
  - v0.05 added check for visitor windows in CloseScreen()
  - v0.07 now promotes only one screen per entry (trying to promote more would fail always)
  - v0.08 screens can be promoted again after CloseScreen(). should work even if someone uses external program - like artm or scout - to close the screen
  - v0.15 no more promotes all screens - just the requested ones (maximum length for an expression is 64 kbytes!)
-

- v0.16 works only with processes (can task open a screen?)
- v0.21 uses MatchPattern() for screen name check
- v0.22 task switching disabled when checking screen attributes. messageport added
- v0.28 screen attributes are copied to the stack - more safer now
- v0.35 operates now from child process. no need for running anymore
- v0.40t checks other alternative patterns too in case the screen whose pattern matched first is already opened. experimented with reading inputs
- v0.50 handles inputs (wb: 64kbuf, prefs, screen; cli: quit, 64kbuf, prefs, screens) correctly. uses dos.library for parsing screennames
- v0.60 parses public screen names too
- v0.62 responses are now valid. faked null screentitle used for screens with no title in internal routines
- v0.66 patches use external preferences instead of inlined ones. use of flags instead of forbid/permit
- v0.70 child's data area no longer exists in truepub. startup responses even more valid. fixed possible bug in patch (with null tag array). null screen names will be treated like having a name UNNAMED to make pattern matching easier
- v0.74 communication between child and its parent is made with signals. patches recognize quit option and will signal child whenever list for promoted screens becomes empty
- v0.77 code cleaned up a bit. buggy full functional version. supports setman
- v0.80 more cleaning up. commodity support
- v0.86 unsuccessful experiment
- v0.90 unsuccessful experiment. again
- v0.91 works also without commodities. quit option seems to work quicker (broker and messageport are removed immediately). child recognizes ctrl-c signal. return codes should be ok
- 25.12.1995 -
- v1.0 fixed bug in 64kbuf. added a note if icon file could't be found. ctrl-c response faster than ever. everything seems to work now (the features have actually been tested). overall polishing. oh yes, merry xmas for everybody

- 26.5.1996 -

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v1.1 no changes in source code. due to my new preprocessor 20 bytes were saved and return value for incorrect arguments is now correct one, namely 20 (in previous versions it was 0). rewritten part of this document

- 6.8.1996 -

v1.2 found a potential bug in the handling of commodity messages. fixed

- 13.10.1996 -

v1.3 the really occasional parsing errors should now be gone

## 1.11 TruePub - Legalities

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### Legal Stuff

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TruePub 1.x is mailware!

If you think this program is worth of using or has nasty bugs in it then please mail me and let me hear about your opinion. Without feedback this will most probably be the final release. After all, the features TruePub now offers should be part of some multi-purpose commodity program (this is what I think).

Copyright

TruePub is written by

Timo~Kaikumaa

. No parts of this program may be altered by any means (this includes editing, reprogramming, crunching, resourceing etc.), except archiving.

Disclaimer

You are using this program at you own risk! Under no circumstances will the

author

be liable for any direct or indirect damage or data loss ←  
resulting from

the use or misuse of this software or the documents.

Distribution

TruePub can be freely copied as long as it is distributed with all the files in this package with it. Only a nominal fee for costs of magnetic media may be accepted for distributing this piece of software, the amount of US \$5 shouldn't be exceeded for a disk containing TruePub. CD Manufactures are specifically granted the right to include this program on CD collections, as long as they are for the Public Domain.

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Special permission is given to Brian Aagaard Petersen to include TruePub in his EqEd program package as long as no profit is made with it.

## 1.12 TruePub - Index

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### The Index

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#### Child process

When started for the first time, TruePub leaves a so called child process in the memory. This way the main program can exit soon after starting and there is no need for "running" (when started from CLI or shell). The child is also responsible for handling commodity messages. The

```
quit
option removes child
process from the memory.
```

#### Public screen

Unlike custom screens, public screens can be used by other programs too. For example, making the screen of FinalWriter (famous word processor) public would allow one to have EqEd (equation editor program) opened on the very same screen. This eases doing things as you don't have to jump between Workbench and FinalWriter screens all the time.

## 1.13 TruePub - Author

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### The Author

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