

FullPalette_eng

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Chapter 1

FullPalette_eng

1.1 FullPalette documentation

FullPalette 40.21 (7.2.99) by Massimo Tantignone

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1.2 What is FullPalette?

OVERVIEW

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The FullPalette system allows you to edit and save ALL the 256 Workbench colors rather than just eight of them as the standard Palette editor does.

It features a preferences editor ("FullPalette") enabling to define the colors, and a patch running in the background ("FPPrefs") which takes care of applying the palette settings every time the Workbench screen is opened. You can decide exactly which colors are to be "locked", and thus never modified by programs running on the Workbench screen, and which colors instead are to be left "free" for IPrefs and other applications.

This (among other advantages) makes the managing of icons much easier; using FullPalette you can, for example, have icons with any number of colors without risking to see some of them change just because you view a picture with MultiView on the Workbench screen.

You could also set colors 4-7 to always be the same as colors 252-255.

FullPalette also has a button strip to easily perform editing actions such as "Copy", "Swap" or "Spread".

For the purpose of editing the Workbench palette, FullPalette can completely replace the standard "Palette" preferences editor, whose settings file (palette.prefs) it continues to maintain for compatibility, although FullPalette also uses a custom file.

The patch runs alongside IPrefs without any conflicts.

1.3 Requirements

REQUIREMENTS

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- An Amiga or Amiga-compatible computer
- AmigaOS 3.0+

A Workbench screen with at least 16 colors is not really a requirement, but gives some meaning to the usage of FullPalette :-)

1.4 How to install FullPalette

INSTALLATION

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Installing FullPalette is very simple; just use the supplied installation script.

If you want to install it by hand, you only have to do three things:

- 1) Copy the FPPrefs program into a directory that is in the system path (for example C:)
- 2) Insert into your Startup-sequence, IMMEDIATELY AFTER IPREFS, the following line:

```
Run > NIL: FPPrefs
```

- 3) Copy the FullPalette editor (with its icon) into the Prefs drawer of your Workbench partition.

Now you can reboot to activate the patch, then play with the editor to edit and save the Workbench palette according to your preferences.

The Workbench screen will use your palette each time it (re)opens itself.

Note: you CAN'T call FPPrefs from the User-startup; if you do, some images (especially backgrounds) on the Workbench screen could be rendered with the wrong colors.

1.5 How to use FullPalette

USAGE

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The FullPalette system is made up of two programs: the FullPalette editor, which you use to define and save your preferences, and the FPPrefs "daemon", constantly running in the background, which actually applies the preferences to the Workbench screen.

The usage of both is fairly straightforward, however they offer some special features which you might want to know about.

General information New!

Behavior when starting

The color mode

Color copying

Loading a palette New!

1.6 General information on the usage of FullPalette

General usage information

Once you have the FPPrefs patch running in the background you can use the FullPalette editor to define your palette.

To edit the entire palette of the Workbench screen, you should first open it with the maximum number of colors available (256 for AGA and graphic cards, 16 for ECS).

This way, you can edit all colors; then, each time the Workbench screen will open at less than its maximum depth, only some of the colors will be used.

The FullPalette GUI is very intuitive. You have some gadgets to perform actions like "Copy" or "Spread" at the top of the window; below them is a palette gadget for choosing the palette entry to edit, and a cycle gadget used to specify if the current color is to be "Free" or "Locked".

There are also two text indicators with the logical and physical number of the current color. The logical number ("Screen color") is the color index in the current screen's palette, whereas the physical number ("Palette color") always refers to the color index in the full 256-color palette.

Three sliders allow you to modify the Red, Green and Blue components of the current color, and the gadgets at the bottom of the window give you the option to Save, Use or Cancel the current settings.

You can use some tool types in FullPalette's icon (or keywords on the command line):

SCREEN switch which tells FullPalette to open on a custom screen

FONTNAME=<name> name of the font for the editor window

FONTSIZE=<size> size of the font for the editor window

WINDOW=<x,y,w,h> initial position and size of the editor window

REDBITS=<num> number of bits used to represent red (1-8, 0=auto)

GREENBITS=<num> number of bits used to represent green (1-8, 0=auto)

BLUEBITS=<num> number of bits used to represent blue (1-8, 0=auto)

Furthermore, the editor recognizes the usual preferences tool types, such as EDIT, SAVE, USE and CREATEICONS=<YES/NO>.

Starting with version 40.14, FullPalette allows you to choose the precision of the color remapping for Workbench backdrop images.

You can select the wanted precision within the menu "Options"; if you choose "Ignore", FullPalette won't interfere with the remapping at all.

Note that any change takes effect only when the Workbench screen is reopened.

1.7 Behavior when starting

Behavior when starting

By default, the FPPrefs daemon immediately sets the Workbench colors to your preferences when it starts. At boot time, this has the side effect of opening the Workbench screen if it isn't already open.

You can tell it to wait until the Workbench screen (re)opens itself by setting the environment variable "ENV:FullPalette/Action".

With the command "SetEnv FullPalette/Action IMMEDIATE" you tell FPPrefs to immediately set the colors when it is launched, thus opening the Workbench screen if it isn't already open. This is the default.

With the command "SetEnv FullPalette/Action DEFERRED" you tell FPPrefs to wait until the Workbench screen opens by itself before setting the colors.

Once you have set the variable, make sure you copy them into ENVARC: with, for instance, the command "Copy ENV:FullPalette/#? ENVARC:FullPalette" (the ENVARC:FullPalette directory must be created first).

Note: the "deferred" behavior is experimental, normally it works well but it seems that once in a while it can lock up the screen at boot time. If this happens, just do a manual reset (CTRL-Amiga-Amiga).

If it happens too often on your machine, return to the default behavior (immediate) by deleting the environment variable.

1.8 The color mode

The color mode

You can set the environment variable "ENV:FullPalette/ColorMode" to choose how FullPalette should remap the full (physical) 256-color palette to the current (logical) color palette of the Workbench screen, if it has less than 256 colors.

With the command "SetEnv FullPalette/ColorMode WORKBENCH" you tell FullPalette to set the current palette's first half to the colors at the beginning of the full 256-color palette, and the second half to the colors at the end. In other words, a 32-color Workbench screen will get its first 16 colors from the first 16 colors of the 256-color palette, and its second 16 colors from the LAST 16 colors of the 256-color palette.

With the command "SetEnv FullPalette/ColorMode LINEAR" you tell FullPalette to set the current palette to the first colors of the 256-color palette, except for the last 4 color which will be always taken from the end of the 256-color palette.

This way, a 32-color Workbench screen will get its first 28 colors from the first 28 colors of the 256-color palette, and its last 4 colors from the last 4 colors of the 256-color palette.

Either way, this is compatible with IPrefs, which uses the notorious "first 4/last 4" color scheme.

1.9 Color copying

Color copying

Although it isn't really necessary (you could do it by hand), starting with version 40.18 FullPalette offers the automatic copying of the last four colors in the palette to the second four colors (colors 4-7). To achieve this, just set the environment variable "FullPalette/CopyColors" to "TRUE".

It is read at launch time only, so for it to take effect you must first reboot your Amiga; furthermore, the copying takes place only for those of the destination colors (4-7) which are "Locked".

Note: in this mode, the settings for colors 4-7 shown in the FullPalette editor are ignored.

1.10 Loading a palette from a picture file

Loading a palette

Starting with version 40.21 FullPalette allows you to load the palette of a picture file. Selecting the "Load Palette..." item in the Edit menu will bring up a file requester which you can use to choose the picture whose palette you want to load.

You can load any picture format you have a datatype for; for instance, you could load an old 2.x palette.ilbm preferences file.

If the picture has a different number of colors than the current screen, they will be remapped according to the state of the `FullPalette/ColorMode` environment variable.

Note that loading a palette preserves the pen locking settings.

1.11 Notes

NOTES

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At the moment FullPalette doesn't have a color wheel, and probably it never will, as it would be impossible to allocate all the necessary pens for it from the same palette the wheel would be used to modify.

From my personal experience, however, the color wheel is rather useless in an application like this one (a palette editor for the Workbench screen).

Furthermore, at the moment it also lacks an HSB mode as an alternative to the RGB one; if I'll receive enough requests, I'll implement it for sure.

Important: if the cycle gadget of the editor says "Free", this does NOT mean that the selected color is currently free, but just that it will never be locked by FullPalette or FPPrefs!

However, it's possible to know which pens are currently free or allocated: by pressing any SHIFT key while selecting (with a mouse click) a palette color, if the corresponding pen is allocated you'll see the screen flash.

1.12 The history of FullPalette

THE HISTORY OF FULLPALETTE

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40.21 Bug-fixes:

- Now FPPrefs always releases all pens it locked when it is terminated with CTRL-C or by running it a second time.
- The documentation now mentions the WINDOW tool type, which has always been available.

New:

- The FullPalette editor is now able to load the palette from any picture file you have a datatype for.
- Three new tool types enabling you to specify how many bits must be used to represent the red, green and blue components in the editor's sliders.
- The editor's window has now a custom backfill hook filling it with the background pen, rather than color 0 (useful to people changing the background pen with VisualPrefs).
- At last, an installation script has been included.
- Now the documentation is in AmigaGuide format.

40.20 Special version found in some beta VisualPrefs archives.

40.19 Some bug-fixes:

- Fixed a bug in the editor, wasn't always leaving enough space for the slider level numbers (again :-).
- Now lock-ups of the Workbench screen at boot time should happen much less frequently, if ever.

40.18 Bug-fixes:

- Added a workaround for a bug in the V39 gadtools.library concerning the displaying of the contents of the color number indicators. Hope it works!
- The "Options->WBPattern remapping" menu is now correctly updated when you select "Last saved" from the "Edit" menu.

New:

- Added "Ignore" to the pattern remapping options.
- A new environment variable now allows to have automatic copying of the last four palette colors to colors 4-7.

40.17 Bug-fix:

- Fixed a bug in the editor, wasn't always leaving enough space for the slider level numbers.

New:

- Added the (still experimental) ability to defer the setting of colors at boot time, thus avoiding an unwanted opening of the Workbench screen.

40.16 Bumped revision to 16 for the Aminet release

40.15 Bug-fix:

- There was a bug in the italian .catalog file.

New:

- Now the editor allocates the needed stack by itself.

40.14 Bug-fix:

- Now FPPrefs should work better with NewIcons.

New:

- Added (experimental) option for choosing the precision of the Workbench pattern remapping. Let me know if it works!

40.13 Some bug-fixes:

- Now FPPrefs doesn't change a palette entry if it wasn't saved as "Locked".
- Now FPPrefs does nothing when OpenWorkBench() is called with the Workbench screen already open.
- The FullPalette editor now saves and loads only the colors which are "Locked".

40.12 First public beta release

1.13 Conclusion

CONCLUSION

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I have been using FullPalette on my system for some years now, and it never gave me any trouble. However, this doesn't necessarily mean it is bug-free. So, if you should encounter any problem with FullPalette, don't hesitate to contact me.

For any comment, suggestion or bug report about FullPalette, write to:

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I can't guarantee an immediate reply to everyone, but I'll certainly read all of your messages.

1.14 Some information about the author of FullPalette

AUTHOR INFORMATION

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