# DarkSide of the Mac 3.1

a system friendly screen-saver

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by Tom Dowdy

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#### <u>QuickStart</u>

Here is a list of simple steps so that you can play with DarkSide right away.

- 1) Copy the DarkSide folder to your hard disk.
- 2) Launch the DarkSide application by doubleclicking.
- 3) Select the "DarkSide Settings..." item from the "File" menu.
- 4) Click on the word "Clock" in the scrolling list on the left hand side of the window.
- 5) Press  $\mathcal{F}$ -F to make DarkSide fade your screen.
- 6) Move the mouse or press any key to unfade the screen.
- 7) Try out some of the other faders and their settings.

#### What Is DarkSide?

DarkSide is an application that serves as a "screen saver." Screen savers are used to keep you Macintosh screen from "burning in" – or having one image permanently etched into the phosphors of your screen.

DarkSide works by presenting a series of moving images on the screen – and there are many to choose from – which keeps any one image from damaging your Macintosh screen.

Some screen savers are System Extensions. They work by modifying your Macintosh computer's operating system – as such they are often prone to breaking with new releases of system software. They also can have bad effects on your applications.

DarkSide is just an application. It does all of its work the way normal Macintosh applications do. Because of this, it should not interfere with other applications on your Macintosh.



#### What do I need to run DarkSide?

In order to run DarkSide of the Mac 3.1, you must have a Macintosh computer with System 7.0 or greater installed.



DarkSide works on all Macintosh computers, and has been tested by a large group of testers to get rid of as many bugs as possible. It probably isn't perfect – but few things are.

DarkSide is simple to install. Drag the DarkSide folder to wherever you like on your hard disk. DarkSide can be located anywhere.



#### Automatically starting DarkSide

Since it is most useful to have DarkSide start up when you turn on your Macintosh, you may wish to create an alias to the application – do this by selecting the DarkSide icon and choosing "Make Alias" from the "File" menu. If you drag this alias to the "Startup Items" folder within your System Folder, DarkSide will automatically be started whenever you turn on your Macintosh.



Clock

#### What is a Fader?

DarkSide has built into it a number of "Faders." Each fader is a small piece of code that is used whenever DarkSide fades the screen. Each fader does something different and interesting. Most faders work on all Macintosh computers, although some only work on color machines.

File	
Open Fader	
DarkSide Settings.	
Close	
Fade Now	
Quit	

#### <u>File Menu</u>

DarkSide has only one menu – most of the settings of DarkSide can be controlled through the settings dialog.

#### Open Fader...

The "Open Fader..." item allows you to control the folder in which DarkSide looks to find faders. If you have multiple folders of faders, you can use this item to switch between these folders. Only faders from the selected folder will appear in the DarkSide Settings dialog.

#### DarkSide Settings...

The "DarkSide Settings..." item opens up the settings dialog. From the settings dialog, you can control almost all of the aspects of DarkSide's operation

#### Close

The "Close" is used to close the settings dialog.

#### Fade Now

You can choose "Fade Now", or press #-F to cause DarkSide to fade the screen right away.

#### Quit

The "Quit" item is used to exit from the

DarkSide application.

#### The Settings Dialog

	DarkSide Set	tings
Fade the screen at	) seconds ter 13 () minutes ) hours	don't tade corner
Unfade password	Test Fader	🗌 Turn on FileShare upon fade 🔲 Finder to front upon startu
Blank screen Boids BounceBox Uhannel3 Circuit City Clock Ear Uh Fireworks Galaxy	Clock © 1990–92 by T Show second hand Show hour tick ma Show clock frame	om Dowdy rks

Most of the settings in DarkSide are controlled through the settings dialog. You can open the Settings Dialog by choosing "DarkSide Setting" from the "File" menu, or by pressing #-S.

#### Fading after a time

DarkSide will automatically fade your Macintosh screen after a set time that you request. DarkSide defaults to fading the screen after 15 minutes of inactivity. You can change this to any value you wish – although numbers between 10 and 15 minutes are probably most useful.



#### What is inactivity?

DarkSide considers typing, mouse clicks, mouse motion, disk insertion, and modifier keys to be activity. It also will not fade when a program is calculating, or doing something CPU intensive.



In addition to the "Fade Now" menu, you can tell DarkSide to fade the screen whenever you place the mouse in a given corner – the fade will take place after a two second delay. DarkSide comes set with the upper right hand corner as the "Fade Now" corner.



Sometimes it is useful to have the Macintosh screen never fade – such as when you are concentrating on reading a long document. You can select which corner will cause the screen never to fade. Simply place the mouse in the selected corner and DarkSide will not fade your screen. DarkSide comes set with the lower left hand corner as the "Fade Never" corner.

#### Unfade Password

Sometimes you want to keep prying eyes away from your Macintosh. If you enter a password into this box, DarkSide will require that that password be entered before the screen will be unfaded. Please

note that this password option will not stop determined snoopers from gaining access to your machine.



#### File sharing

If you check this box and have enabled FileSharing on your Macintosh, DarkSide will automatically enable FileSharing whenever it fades the screen. DarkSide will return FileSharing to its previous state whenever it unfades the screen.

This option is especially useful if you find yourself needing a file or two of yours when you are using another person's Macintosh. With this option checked, your files will be available to you whenever DarkSide has the screen faded.

#### Finder to the front

If you have placed an alias to DarkSide in your Startup Items folder, you may wish that the Finder would be in the front after you start your Macintosh. Checking this box will cause DarkSide to automatically bring the Finder to the front whenever it is launched.

#### <u>Test fader</u>

If you would like to test out setting for a particular fader, you can press the Test fader button. During the fade, you can change the settings to see what they do. To finish with the testing, press the button again.

#### Fader settings

Each fader can have its own settings to control the appearance during the fade. For more information on each fader, see below. Faders are listed alphabetically.

**Hint:** You can also find out more information about a fader by clicking on the Copyright notice for that fader. This will tell you a little about the fader, and what settings you can change.

#### Blank screen

This isn't really a fader – it is built into DarkSide and is used when you have not yet chosen a fader, your chosen fader cannot be used, or you just wish a plain blank screen.

#### <u>Boids</u>

Boids simulates the flight of a flock of birds. The birds attempt to stay together while chasing a goal around the screen. You can set the number of birds that appear on the screen.

#### **BounceBox**

BounceBox just bounces a filled or framed rectangle around the screen. You can set the size of the rectangle.

#### **\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$** <u>Channel3</u>

Ever wake up late at night with the television still on? Channel3 runs color test bars, a sweep countdown, and static on your Macintosh screen. If you like, you can have sound as well, but I bet your office mates won't like it! If you wish fast black and white static – even on color monitors – choose the "Always black and white static" option.

Note that static will not appear while you are testing the fader.

#### <u>Circuit</u>

This fader draws circuit boards on your screen. You can control the size of the components, and how many of them are packed onto the screen before clearing it.

#### <u>City</u>

This fader just draws a city skyline at night – with or without stars. Simple, but nice.

#### <u>Clock</u>

Clock is a simple clock – and it even tells the correct time!

#### <u>Earth</u>

Earth is a rotating earth bouncing across

your screens. Infini- $D^{\text{TM}}$  was used to render the frames.

#### **Fireworks**

Ah yes, fireworks. You can control the number of fireworks, and if the bursts are single colored, or multicolored.

#### <u>Galaxy</u>

Daniel Lipton gave me this really interesting trig function, and this is what it draws. You have control over the number and maximum size of the galaxies.

#### <u>Globes</u>

Globes draws any number of 3D-ish looking spheres on your screen. You can also control the overall size of the spheres.

#### **Heiroglyphics**

This fader works by drawing a number of characters on top of one another – resulting in interesting looking "glyphs." For best results, install Symbol, Cairo and Mobile fonts into your system.

#### <u>Hopalong</u>

Based on another Unix<sup>™</sup> program, draws fractal patterns on your screen.

#### <u>lco</u>

A classic from the Unix<sup>™</sup> world, this is a bouncing polyhedra. You can control the color of the shape.

#### **\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$**

Simple – yet possibly the most annoying fader of the lot. Try it – you'll hate it. Source code to this fader is included – if you are a programmer who'd like to try creating your own.

#### <u>Kaleidoscope</u>

This fader draws reflections on all of your Macintosh monitors. You can have lines, rectangles, or ovals fill your screen.

<u>Kaos</u>

Kaos uses an Iterative Fractal System to draw wispy colored clouds on the screen. Sorry, but Kaos only works on color Macintosh machines.



#### <u>Kitten</u>

A kitten chasing a ball of yarn. Kenji Gotoh drew the original icons for his "Neko" desk accessory.

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- <u>-</u>	

#### <u>LEDs</u>

If you have an Apple Extended Keyboard, LEDs will cycle the LEDs on the keyboard in several ways, with any speed you choose. If you don't have an Apple Extended Keyboard, this fader is the same as Blank Screen.

#### **\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$** LostInSpace

A simple idea resulted in this fader that reminds me of the opening credits to LostInSpace. Alan Mimms is the clever guy who came up with this one originally.

#### <u>Moire</u>

This is one of those classic screen savers – a line bouncing around the screen. I can't say this one is very inspired – but some folks like it.



#### <u>Movies</u>

If you have QuickTime<sup>™</sup> installed on your Macintosh, Movies allows you to play a QuickTime<sup>™</sup> movie and move it about the screen. You may need to increase the RAM for DarkSide when view very complex movies.

<u>Munch</u>

A classic square filling algorithm from MIT gives you this nice, simple, fader.



#### **PictShow**

This fader just moves a PICT file around the screen.

<u>Puzzle</u>

Puzzle breaks your screen up into a number of squares and shuffles them around the screen.

#### Random Fade

"Random Fade" isn't really a fader – rather it allows you to have DarkSide randomly choose a fader.

You can have DarkSide choose the fader only upon start of the fade, or every so often. DarkSide chooses from the list of faders found within the scrolling list, so you should remove those faders that you do not find interesting.

Note that some faders – such as Puzzle and Searchlight – require some sort of pattern on the screen in order to be interesting. Because of this, they aren't usually as interesting when used with the Random Fade option.

Please also note that DarkSide will not randomly choose faders while the settings dialog is open – nor when "Test Fader" is selected.

#### <u>Rain</u>

Raindrops are falling on your Macintosh. You control the number and color of the rain. I personally don't think that the colors look very nice – but you can decide for yourself.

#### <u>Rug</u>

Rug draws "Oriental" rug looking patterns on your Macintosh screen. On multiple monitor machines, it alternates between the screens.

#### <u>RunRun</u>

RunRun requires a color Macintosh. It uses a simple physics equation and some color table animation to draw "lava lamp" images on the screen. Requires at least one screen in 4 or 8 bit mode.

#### Searchlight

Searchlight moves a number of round spotlights around your Macintosh screens. You can control the number of searchlights, and their size.

#### <u>SinBounce</u>

Simple trig based patterns. My mom sent me the algorithm. On multiple monitor machines, this fader runs on all of them at once.

#### **Snowblower**

Ooo, Ooo! It's the Binford Turbo 9000 Snowblower, keeping the paths clear of icy particulates.

#### <u>Spirograph</u>

This fader uses trig to display spiral patterns on the screen. There are a number of types of patterns that you can choose from.

#### <u>Stars</u>

Starfield. Moving. Speed. Numbers. Magnification. Colors.

<u>String</u>

If you are going to be away from your Macintosh for a bit, you can use the String fader to display a message.

#### <u>Trig</u>

Some simple trig and simple programming resulted in this interesting spiral pattern fader.

#### **VaseDance**

Charlie Reiman wrote this really neat little fader. By changing the settings, you can totally modify what the result looks like. Source code for this fader is available from Charlie himself – those of you with network access can contact him that way.

#### <u>Worms</u>

Tim Dierks gave me this neat little fader. Pretty cool. Icky color worms roam around your screen.

#### <u>Zap</u>

Lightning-like patterns. Interesting, but maybe not.

#### ZoomRects

The Finder zoom code is used to move rectangles around your screen.



#### Common questions about DarkSide

Here are some common questions people ask about DarkSide.



### "How much memory does DarkSide require?"

"Why does it take so much?" DarkSide requires at least 42K in order to run. DarkSide comes set to 64K – because some of the faders need a bit more than others.

It should be noted that 64K is **much** less than most System Extension based screen savers require. Some commercial screen savers require as much as 200K! It is also less than the total memory used with previous versions of DarkSide.



"Does DarkSide interfere with background printing or downloads?" DarkSide does its best to be a well behaved Macintosh application. As such, printing and file downloads should not be interrupted by the fader.

Some faders are fairly intensive CPU users – Snowblower, Channel3, Ico, and RunRun are about the worst. Some faders are extremely friendly – Clock, BounceBox, Black screen, and Rain are about the best.

The remaining faders take CPU time if they can get it – but give it up if someone else

needs it. For most things, none of them will cause any trouble.

"I saw a neat screen saver that does XXX, why doesn't DarkSide do that, too?" Well, DarkSide is an evolving product, and I can only spend so much of my spare time working on it. I do take suggestions – but I'm only one person, with limits on what I can do.

## *"I'm having a problem with DarkSide and application YYY? Do you know what is going on?"*

DarkSide should not interfere with the operations of other applications. DarkSide is simply a Macintosh application – so problems like this should be very rare. A more likely cause is a System Extension or Control Panel you have installed into your system.

However, in order to properly tell what is going on, you need to send more information about what version of DarkSide, the System, the application, and any System Extensions or Control Panels you have installed. You should also point out if the problem happens all of the time, or only when using certain faders.



"Sometimes when I am typing very slowly, DarkSide will still fade. Why is this?" This question often comes from folks using Unix<sup>™</sup> newsreaders.

DarkSide doesn't patch anything, but tries its best to see every keystroke. If you are typing <u>very</u> infrequently, it can miss those keystrokes. There are three ways around

the problem: a) increase the time before fade, b) hold down a modifier key (such as shift) while "reading", c) place the mouse in the "fade never" corner.

#### Getting the latest version of DarkSide

There are two ways to get the latest version of DarkSide of the Mac:

- Get a copy from a friend, a network, or bulletin board. DarkSide is freeware, so you can distribute it all you want – provided it is not for profit, and you distribute the entire disk together.
- 2) If you would like a printed manual and the latest copy of DarkSide, send \$15 in US funds to the author. This will also make you a registered user of DarkSide, and you will be made aware of updates through mailings – I'm also more likely to listen to your suggestions.

#### Restrictions

You may copy DarkSide and distribute it, provided you do not charge for the distribution.

Electronic services which charge connect time may make DarkSide available. Services that charge per download, or for the right to download, may not include DarkSide without first contacting the author.

Companies such as EDUCORP, which charge money for disks with the purpose of making a profit **may not** include DarkSide on their disks, without first contacting the author.

User groups such as BMUG, SMUG, and BCS, which distribute disks for cost of media, are allowed to distribute DarkSide.

#### Source code

For the first time, the source code to DarkSide is available to you – including all faders **except** VaseDance. However, please read the following section before ordering.

The source code to DarkSide is almost a megabyte of MPW C code showing many aspects of Macintosh programming. This source code is made available on an as-is basis. Most of the source code is well commented – but parts of it are not – the faders in particular have the most variety in terms of quality. The intent is to provide working code to help you in writing your own code – or to get you started on a fader which is a modification of an existing one.

Any product which you distribute in any way must consist of greater than 50% of your own code. If more than 50% of the code is taken from the DarkSide code, you must contact me prior to release. You may not redistribute any DarkSide source code. I also reserve the right to not provide the source code in the future, or to anyone who I feel will not abide by the above agreement.

That said – the source code disk is \$35 US Funds. If you would like to become a registered user of DarkSide as well, the total price is \$40 US Funds.

If you have read and understood the above restrictions, sign a letter stating your

intent, and enclose it along with your order.

Author's Note: Sorry to be so hard-nosed about this. But I don't want someone recompiling my source and selling it as "Fred's Screen Saver".

#### Contacting the author

I love to hear from folks who use and enjoy DarkSide. If you have a suggestion, would like to become a registered user, or just want to say thanks, drop me a line:

> Tom Dowdy 1610 Kamsack Drive Sunnyvale, CA 94087

AppleLink: DOWDY1 Internet: dowdy@apple.com

I'm sorry, but time does **not** permit me to duplicate disks sent from unregistered users of DarkSide. If you send me a disk without being a registered user, I'll just keep it.

#### Programmer's Information

DarkSide faders are small, standalone code modules – and it is easy to write your own if you know some basic Macintosh programming.

Included with the release of DarkSide is source to a simple fader – Invert – that shows off all of the basics you'll need in order to write a fader.

For the code, you'll need the following:

- PreflightFader called by DarkSide just prior to putting up the fade window. A good thing to do here is to initialize any global variables.
- InitializeFader called by DarkSide right after putting up the fade window. A common thing to do here is to clear the window.
- IdleFader called by DarkSide while your fader is running. Do whatever clever thing you wish to here.
- UpdateFader called when DarkSide receives an update event.
- DisposeFader clean up after yourself. Don't forget to dispose of any handles or pointers you create!
- HitFader called when the user is clicking in the dialog.

You only need to write code here if you have special needs in the dialog.

#### Globals and storage

The sample code provided uses some features of the MPW environment to allow the use of global variables. Programmers who use one of the Think programming environments may wish to use Think's "A4 Global" code in order to allow the use of globals.

Programmer's who use other environments, or who wish not to use globals, may use the a5World parameter for any pointer or handle that they see fit to place there.

#### Dialogs and settings

DarkSide provides standard handling of most dialog items through the use of the 'DCTL' resource. Note that all fader resources should be in the ID range from 5000 and up. DarkSide expects your fader's DITL and DCTL resource to be both ID 5000.

Here's a description of the contents of the 'DCTL' resource:

- the item ID this is for. If this item ID is 0, this group is defining a cluster of radio buttons – and in this case the next two shorts are taken to be the range of this cluster of radio buttons.
- refCon1 for text items this can be the ID of a 'HELP' resource for a string to be displayed when clicked upon. For control items, it indicates the kind of

control. For clusters, it is the minimum index for the cluster.

- refCon2 for clusters, this is the maximum value. For check boxes, this indicates the bit within the settings that represents this value
- where to store values from 0-19 represent the values within theShorts array, values from 20-23 indicate strings within theStrings array.

#### Example dialog control resource

resource 'DTCL' (5000) {							
// // 1,	about this fader item 1 about ID 5000,	static text ignored 0,	0;	ignored			
// // 0,	radio button clus a cluster from 2 2,	ster, stored to 3 3,	in first 0;	short short			
// // 4, // 5,	<pre>two checkboxes, s item 4 checkbox 1, item 5 checkbox 1, 1,</pre>	stored in sec mask 0x0001, mask 0x0002,	ond shor short short	rt 1; 1;			
// // 6,	an edit text iter item 6 ignored string 0,	n, stored in ignor	the firs ed 20;	st string			
}:							

}; };

#### Sample source

You can find example MPW C source on the release disk with DarkSide. This is the actual source to Invert.

Let me know how you're doing ...

If you produce an interesting fader, I'd be very excited to hear from you. If you wish that your fader be included in future releases of DarkSide, just let me know.

DarkSide of the Mac and this documentation was produced entirely using Macintosh technology. It was printed on a LaserWriter IIg