

# SolarCell

**Flaming Pear Software**

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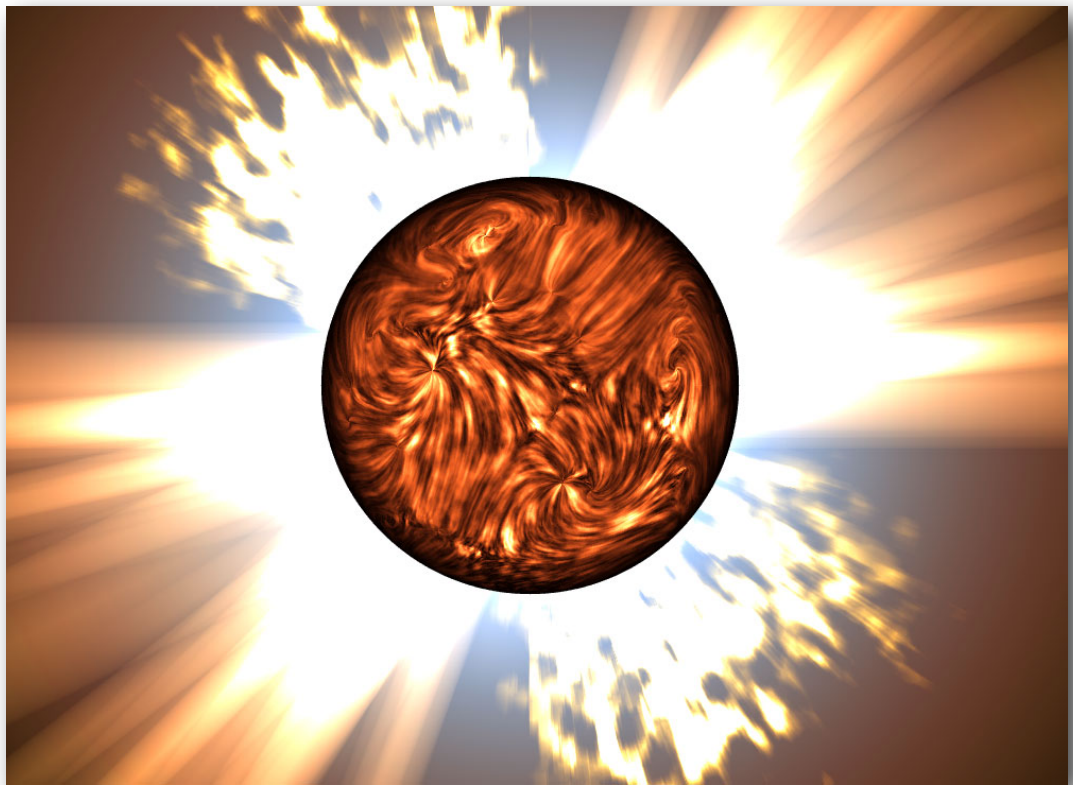
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## What it does

SolarCell is a plug-in for paint programs. It draws suns in a fantasy style.



## How to install

Illustrated installation instructions are online at [www.flamingpear.com/faq.html](http://www.flamingpear.com/faq.html) .

To use this software, you need to install it into Photoshop.

Just drag the plug-in filter into the folder where Photoshop expects to find it. On OS X, it will be similar to Applications/Adobe Photoshop/Plug-ins.

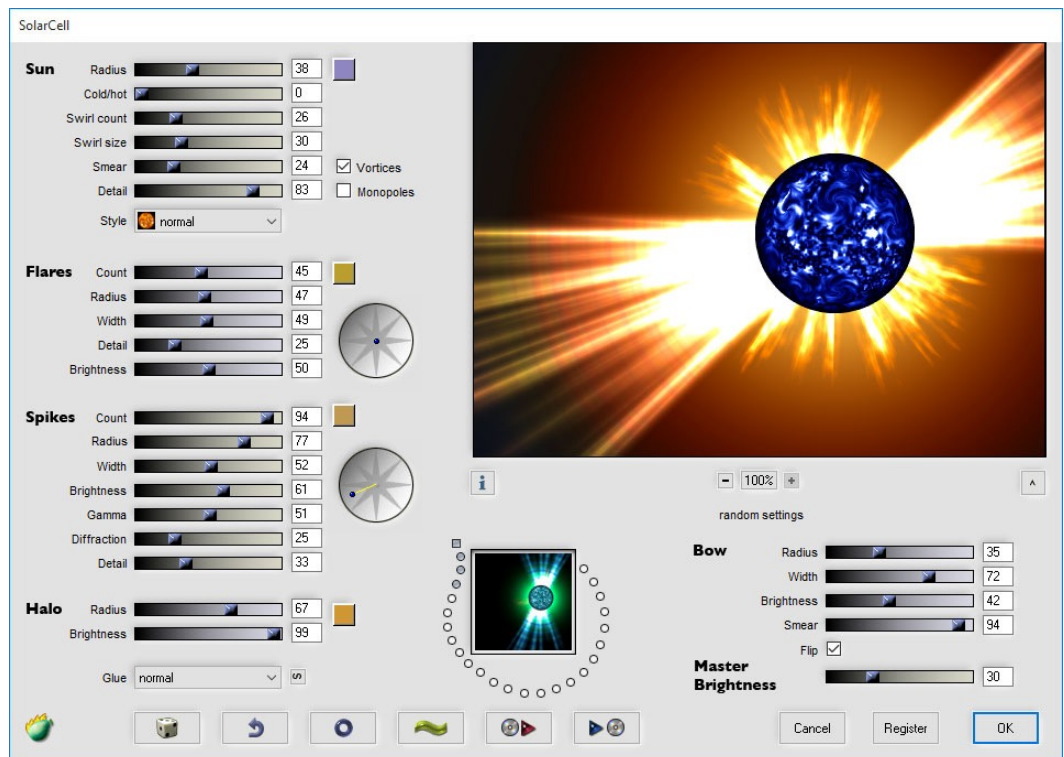
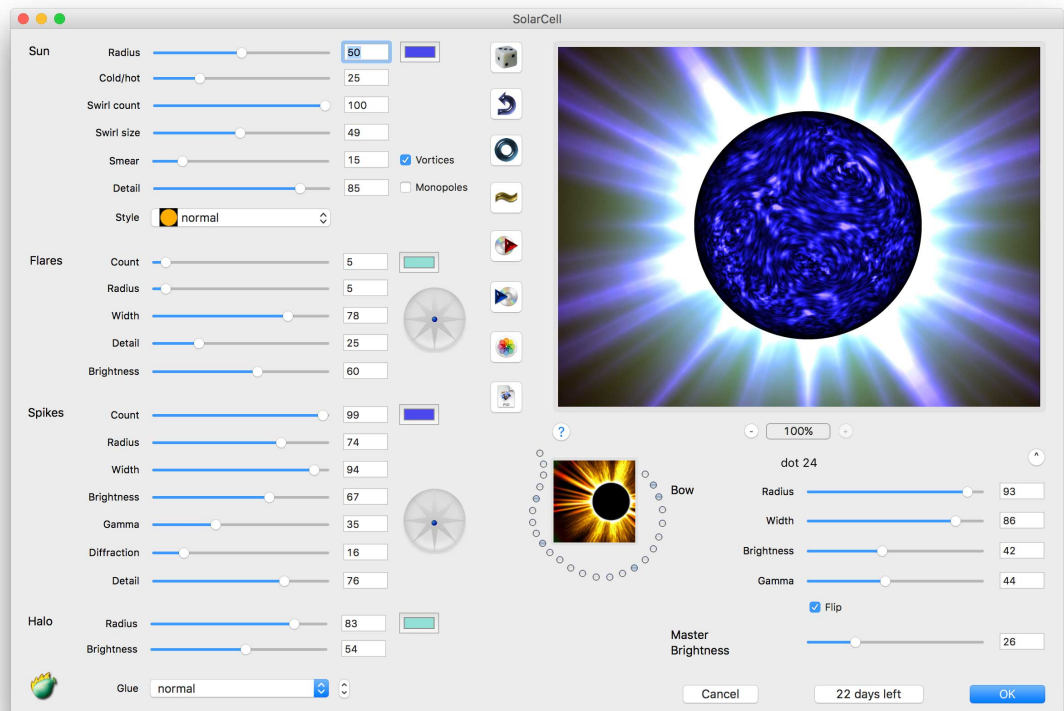
On Windows, it will be similar to C:/Program Files/Adobe/Adobe Photoshop/Plug-ins.

You must restart Photoshop before it will notice new plug-ins.

The plug-in is now installed. To use it, open any image and select an area. From the menus, choose Effects->Plugins->Flaming Pear->SolarCell.

## Quick start

When you invoke SolarCell, a dialog box will appear.



If you just want to make a sun quickly, click the dice button until you see a sun you like; then click OK.



There are several controls for each of the five elements in a sun...

dice

The sun

Flares

Diffraction spikes

Halo

Bow

...and a few other controls that affect the whole image.

## The sun

The sun's disk can be filled with fiery swirls, or it can be a flat color, or black like an eclipse.



sun style

**Sun style** lets you choose the sun disk type.

**Color Button** chooses the sun's color.



color button

**Radius** is the size of the sun.

The remaining disk controls only affect the fiery-swirls disk.

**Cold/Hot** biases the sun's color toward cold (blue) or hot (red) hues.

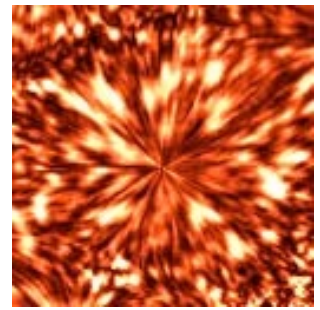
**Swirl count** set the number of swirls in the sun's surface, making it look more like fire.

**Swirl Size** sets the size of the swirls. If the swirls are large enough to overlap, interesting patterns appear. Setting this slider to a high value may take a very long time to produce a result.

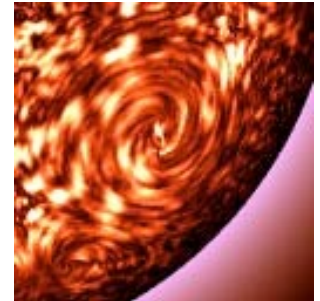
**Smear** produces longer or shorter streaks in the swirls.

**Detail** sets the overall scale of the lumpy pattern on the sun's surface.

**Monopoles** and **Vortices** activate the two types of swirls. Monopoles are streaks radiating from a point. Vortices are spiral whirlpools.



monopoles



vortices

## Flares

Flares are jets of flame shooting out from the edge of the sun.

**Color button** sets the flares' color.

**Count** sets how many flares there are.

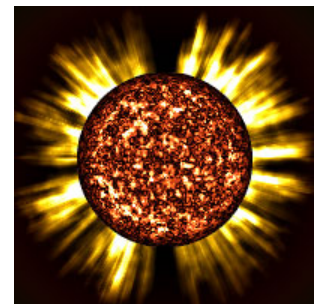
**Radius** sets the size of flares.

**Width** sets the width of the individual flares.

**Detail** adjusts the lumpiness of the flares.

**Brightness** adjusts the overall brightness of the flares.

The **Orientation control** positions the flares. The further you move the blue dot from the center of the control, the more the flares will cluster together and lie parallel to the line. If you want uniformly distributed flares, just put the dot in the center.



sun with flares



orientation control

## Diffraction spikes

In real-life photographs, diffraction spikes appear around bright lights due to flaws in the optics. SolarCell draws these spikes to produce the illusion of glaring brightness.

**Color button** sets the color of the spikes.

**Count** sets the number of spikes.

**Radius** sets the spikes' length.

**Width** sets the spikes' width.

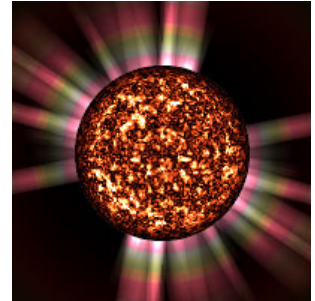
**Brightness** sets the overall brightness of the spikes.

**Gamma** changes the contrast of the spikes to produce a softer or harder appearance.

**Diffraction** adds stripes of subtle colors across the spikes. At zero, there are no stripes. At 100, the stripes are at their most prominent.

**Diffraction Scale** sets the width of the color stripes.

The **Orientation control** positions the spikes. The further you move the blue dot from the center of the control, the more the spikes will cluster together and lie parallel to the line. If you want uniformly distributed spikes, just put the dot in the center.



sun with spikes



orientation control

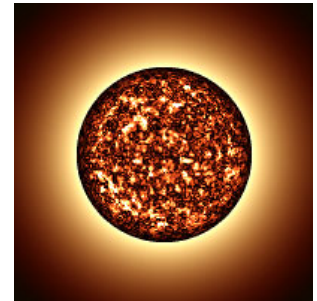
## Halo

The halo is a bright circle of color around the sun that helps to convey an impression of brightness and of air between the sun and the observer.

**Color button** sets the halo's color.

**Radius** sets the width of the halo. The radius is added to the sun's size, so you can change the size of the sun and the halo will move with it.

**Brightness** adjusts the contrast of the halo so it can taper off slowly or rapidly.



sun with halo

## Bow

The bow is a rainbow around the sun. When it's bright, it produces a fantasy-like effect. When it's dim, it lends a subtle variation of hue.

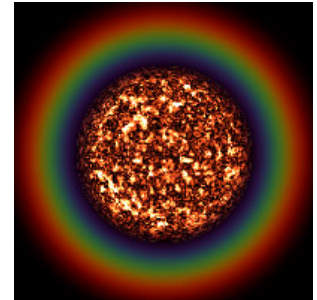
**Radius** is not added to the sun's radius; it can be less than the sun's radius. This way the bow can overlap the sun, which is sometimes useful.

**Width** sets the bow's width.

**Bow brightness** makes the bow brighter.

**Bow Blur** sets how much the colors blur together. When this control is turned up high, the bow will have subtle colors like those seen around the moon on a partly cloudy night.

**Flip** reverses the order of colors in the bow.



sun with bow



## Other controls

**Dice:** This randomizes the settings. Click it as much as you want to see different effects.



dice

**Reset:** Gives you the factory settings.



reset

**Random seed:** This changes the arrangement of all the random elements like land, craters, and synthetic clouds.



random seed

**Position of sun** Reposition the sun by clicking anywhere in the preview area.

**Glue:** Lets you combine the result image with the original, instead of replacing it. The **next-glue** button advances to the next glue mode.



next glue

**Send to photo manager:** Sends the result to Photos (on Macintosh).



send to Photos

**Export to PSD:** Exports the result to a .psd file.



export to PSD

**Make Gallery:** Builds a web page showing all the presets in a folder that you choose.



make gallery

**Plus, % and minus buttons:** If the selected image area is bigger than the preview, these buttons let you zoom in and out. Drag the preview to move it.



minus, %, plus



**Load preset:** SolarCell comes with some presets, which are files containing settings. To load one, click this button and browse for a preset file.



load preset

**Save preset:** When you make an effect you like, click this button to save the settings in a file.



save preset

**Undo** backs up one step.



undo

**Info:** briefly explains the controls.



info

Three more buttons:

**OK:** Applies the effect to your image.

**Cancel:** Dismisses the plug-in, and leaves the image unchanged.

**Register:** Allows you to type in a registration code and remove the time limit from the demo.

## Memory dots

Although you can save your settings permanently to files, you can also stash settings in memory dots.

Click an empty dot to stash the current settings in it.

Click a full dot to retrieve its settings.

Hover the mouse over a dot to see what it contains.

Option-click to erase a dot on Macintosh.

Right-click to erase a dot on Windows.

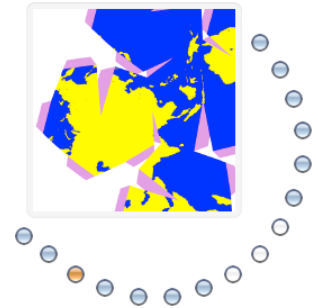
If a dot is orange, SolarCell's currently using that dot's settings.

Dots remember their contents until you erase them. If you'd rather make a temporary dot that forgets when you exit SolarCell, control-click it. Temporary dots are square.





When you start SolarCell, it puts the starting settings in a temporary dot. That way it's easy to start over without exiting the plug-in.

On Mac, you can drag-and-drop settings files from the central memory well.

You can build a web page showing how the current image would look with every memdot setting. Just option-click (Mac) or right-click (Windows) on the big memdot image.



memory dots

-  empty
-  full
-  current
-  temporary

## Hints

Use the "Composite" item in the map mode popup menu to draw the sun without blackness behind it. In a regular layer, Composite will draw the sun onto a transparent field. In a background layer, the sun will be combined with the original image.

If all four color controls — sun, spike, halo, and corona — are similar, then results are realistic. Using vivid, unrelated colors produces a surreal effect.

## **Version history**

### **Version 1.98**

Restores compatibility with Mac OS X 10.8.

### **Version 1.98**

Restores 32-bit compatibility on Mac OS X.

### **Version 1.97**

Fixes an issue with registration codes.

### **Version 1.95**

Restores compatibility with Mac OS X 10.7.

### **Version 1.94**

Macintosh version works in both 32-bit and 64-bit modes.

### **Version 1.93**

Macintosh version works in Retina resolution.

### **Version 1.92**

Fixes previews in 16-bit color.

### **Version 1.90**

64-bit version for Macintosh.

### **Version 1.80**

64-bit version for Windows.

**Version 1.7.1**

Fixes a crash that can happen on Macintosh PowerPC machines.

**Version 1.7**

Adds convenience features to the interface. The Mac version is resizable.

**Version 1.6**

Fixes a Windows problem where the plug-in wouldn't remember its registration when it was installed in one user account but activated in another. Fixes a Macintosh problem where the plug-in could have bad settings or crash when installed on a machine for the first time.

**Version 1.52**

Universal binary for Macintosh. Preset files have icons. Works as a Smart Filter in Adobe Photoshop CS3 for Macintosh.

**Version 1.5**

Works in 16-bit-per-component color.

**Version 1.35**

Recordable as a Photoshop action.

**Version 1.32**

Fixes a crash that could happen when using the menus under Windows XP.

**Version 1.31**

Fixes the appearance of text in the interface when running under Mac OS X 10.2.3 .

**Version 1.3**

Adds an Undo button.

**Version 1.2**

The Compositing glue mode now works properly in layers.

**Version 1.1f**

Fixes a crash that sometimes happened with ImageReady on Macintosh.

**Version 1.1e**

Fixes strange bow colors that may appear when SolarCell is used with some paint programs.

**Version 1.1d**

Improves compatibility with non-Photoshop paint programs.

**Version 1.1c**

Fixes a bug which sometimes caused the color buttons to crash.

**Version 1.1b**

Fixes a slow startup bug which caused SolarCell to run very slowly the first time it was used.

**Version 1.1**

The first public release.

**How to purchase**

You can place an order online [here](#). A secure server for transactions is available.

## Questions

The software, documentation, and supporting materials are made by Flaming Pear Software. Answers to common technical questions appear on our [support page](#), and free updates appear periodically on the [download page](#).

For bug reports and technical questions, please write to [support@flamingpear.com](mailto:support@flamingpear.com) .

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