

# group test







# The image makers

In the field of **professional image editing**, nothing but the best will do — and the best are getting better all the time. Ken McMahon passes his magnifier tool over six of today's high-end art packages.

**T**he six graphics packages reviewed here, which combine powerful features with versatility, are aimed at those who need to produce images of the highest standard. Whatever you want to do with an image, be it colour-cast removal or the creation of a sophisticated visual effect, these packages make it possible. If you're serious about pictures, you should be considering one of these applications (*PCW January '99 carries a review of image editing packages for home use*).

The trend, during the past year, has been the addition of web-authoring features. At best, you now need only one application for photo-editing, retouching, special effects and creating and preparing graphics for the web. At worst, you get what you had before, with a few ineffectual features tagged on. There have been improvements in interface design in the past year, too, which make for real productivity gains, and selective undo has finally arrived in a big way. This boosts productivity by reducing the impact of errors, while simultaneously enhancing creativity by providing the freedom to experiment.

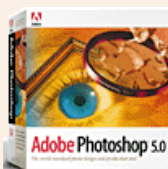
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## Ratings

- ★★★★★ Buy while stocks last
- ★★★★★ Great buy
- ★★★★ Good buy
- ★★★ Shop around
- ★ Not recommended

# Adobe Photoshop 5.0



**P**hotoshop has long been the industry-leading application for professional photo editors.

However, it has been knocked for poor text capabilities, crude and inadequate undo options, lack of colour management and spot colour support. In this latest upgrade, all four of these issues have been addressed and a host of other new features added.

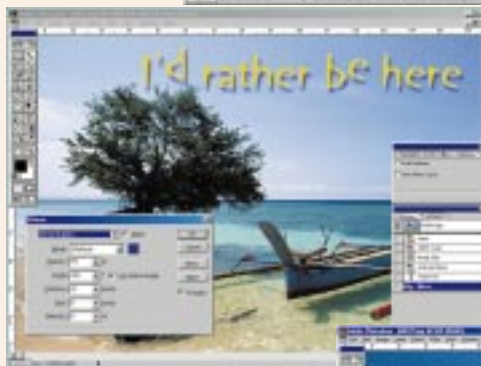
Until now, if you made a mistake in Photoshop you had but one chance, the single undo command, to put things right. But no longer. The History palette, like the Actions palette, displays a chronological list of the edits carried out on an image and each step is called a "state". To return to any state you simply click on it. Regret applying that noise filter before using blur, creating a duotone and cropping? Easy: just click on the state where the filter was applied and delete it. You can record history as far back as your scratch disk will allow (the default setting is 20 states). When you run out of space, the earliest states are deleted to make room for more recent ones. And, you can create snapshots, which remain in the history palette even after the associated states have been deleted, allowing you to experiment with different techniques. You can even clone from one state to another with the history brush.

**One of the bugbears** with pixel editing is what to do with type. Once it is turned into pixels, there's little you can usefully do with it. Layers overcome the problem of destructive editing, so you can at least move type without it leaving a big white hole behind. But if you've applied effects, or added a drop shadow and then need to edit, you almost always need to start again.

Type now resides in its own editable layer which behaves like text, not pixels, until you decide to render it. You can adjust size, tracking, pair kerning, baseline shift, colour or whatever at character level, so, for example, you can make each letter of a word a different font.

Layer effects allow you to apply

drop shadows, bevel and emboss effects quickly and easily. These effects are editable until the type is rendered. You can skew type to which a drop shadow has previously been applied, say, then go back, remove the drop shadow, add



▲ **TEXT EFFECTS LIKE THE DROP SHADOW REMAIN EDITABLE UNTIL THE TYPE LAYER IS RENDERED**

◀ **PAINTING THE COLOUR INTO AN IMAGE WHICH HAS BEEN CONVERTED TO GREYSCALE THEN BACK TO CMYK, USING THE HISTORY BRUSH**

▼ **HUG THOSE VECTOR PATHS WITH THE NEW MAGNETIC PEN**

bevel and make a correction to the text. There's no need to render the text until the final stage of production.

**New selection tools** include a magnetic lasso, magnetic pen and freeform pen. The first automatically hugs contrasting areas when you're trying to draw along an edge. Anyone who has tried drawing accurately with a mouse will know what an impossible task it is, and the magnetic lasso will make life a lot easier for those without a tablet. The magnetic pen works in a similar fashion, creating edge-hugging vector paths. There's also a freeform pen tool that works like the one in Illustrator 7.

Those who make use of the info panel to get pixel colour values will welcome the addition of four-colour samplers. You can place these anywhere in the image to give pixel value readouts for those locations. This information could take some of the guesswork out of accurate colour balancing.

Other refinements include an enhanced actions palette, improved

free transform command, spot colour support, ICC-based colour management, new gradients and improved indexed colour conversion.



## PCW DETAILS



**Price** £452.37 (£385 ex VAT)

**Upgrade** £193.88 (£165 ex VAT)

**Contact** Adobe 0181 606 4001

[www.adobe.com](http://www.adobe.com)

**Good Points** Power and versatility. The industry leader.

**Bad Points** Low on extras. Forget media browsers, special brush collections, image sprays and so on.

**Conclusion** Way to go, pro.



## Corel PhotoPaint 8



**P**hotoPaint software comes on two CDs: one for the applications, fonts, brush textures, photo edges and samples; the other containing copyright-free images, floating objects, clipart and tiles. There are five extra applications: Corel Capture, Corel Texture, Corel Scan, Corel Script Editor and Bitstream Font Navigator 3.0. A generous allocation of plug-ins includes AutoF/X, Photo/Graphics Edges and Cytopia PhotoLab. In addition to the manual you get *Corel PhotoPaint 8, The Official Guide*.

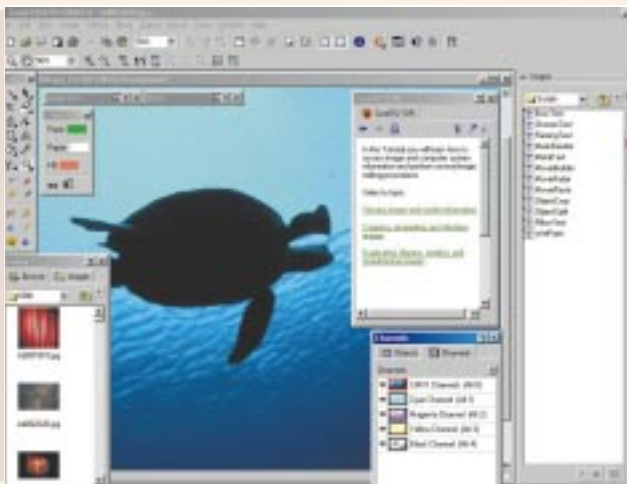
### There's much that's new.

PhotoPaint 8 looks very different to 7. The best aspects of the existing interface have been improved and new features added. The roll-up concept of floating palettes which can be minimised by double-clicking on the title bar, has been extended to produce dockers. These are tabbed palettes which reside in a bay in the image editing window. There are dockers for objects, channels, scripts, the macro recorder, the scrapbook and Corel Tutor.

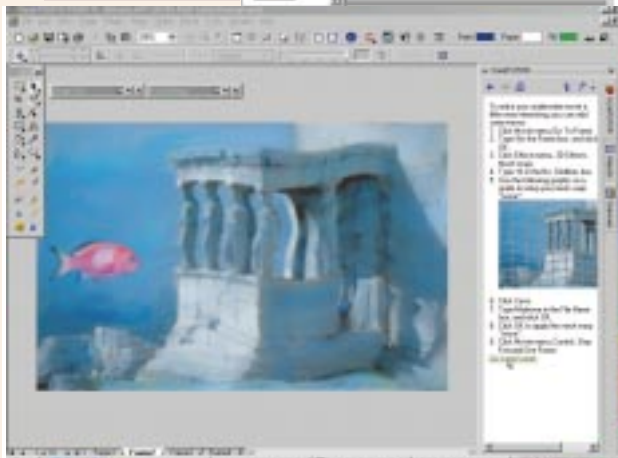
Dockers give you a lot more screen to work with and speed-up operations where you need to use more than one docker. For example, where you need to lock or rearrange objects before making channel adjustments, you just hit the tab and the required docker comes to the fore. You can drag the tabs out of the docking station to float in the workspace, and palettes can be grouped together. So you can, for example, have the objects and channels dockers in one palette, the recorder and scripts in another and the scrapbook palettes in a third. Double-clicking on a docker's title bar sends it back into the bay on the right of the image window.

**Brush symmetry** is an interesting idea. Whether it will be of any practical value is questionable. There are two kinds of symmetry available, radial and mirror. With the former, you define a centre point and create satellite brushes on the circumference of an imaginary circle. If you select two points, the second

► **DOCKERS CAN BE GROUPED INTO SEPARATE PALETTES. HERE WE'VE GOT ONE FOR COREL TUTOR, ANOTHER FOR THE BROWSER, AND YET ANOTHER FOR OBJECTS AND CHANNELS. IF YOU PREFER THEY CAN ALL BE COMBINED INTO ONE SUPERDOCKER ON THE RIGHT**



◀ **COREL TUTOR PROVIDES USEFUL GUIDANCE, HERE HELPING TO CREATE A 20-FRAME ANIMATED GIF**



Of these, a new align and distribute panel, direct previews in the image window, an image stitch command, PostScript 3 support and effect fade are all worthy of mention. Web support comes

in the form of HTML export for image maps using the Publish to Internet feature familiar to Draw 7 users. There is a very good facility for producing and editing gif animations, too.

It goes against the grain to knock a product that has so much to offer, but in one sense, that is exactly the problem. The features frequently get in the way of performing straightforward tasks. Feature for feature, PhotoPaint is a match for just about anything else. But if Corel wants to steal Adobe's clothes, it needs to concentrate on producing a more accessible interface.

brush appears on the opposite side of the circle from the original and rotates about the origin in opposition to the original brush. Mirror works in a similar fashion, duplicating your brush strokes around a vertical or horizontal plane. It's great for creating kaleidoscope patterns, but it's otherwise of limited value.

Orbits are an extension of the symmetry idea. A selection of brush presets provides effects ranging from the interesting to the uninspired. At their best, orbits are like freestyle Spirograph; at their least impressive, they are little more than sophisticated brush styles.

Clip masks allow you to edit an object's transparency without affecting the pixel values of the object itself. Having created a clip mask you can edit it globally, by filling it with a flat or graduated greyscale tint, or by using the paint tools to selectively mask parts of the object.

There are many other new features which add up to significant progress but individually wouldn't justify an upgrade from version 7.

### PCW DETAILS

★★★★★

**Price** £351.32 (£299 ex VAT)

**Contact** Corel 0800 973189

[www.corel.com](http://www.corel.com)

**Good Points** Feature-filled. Lots in the box.

**Bad Points** Complicated. Hard to see the wood for the trees.

**Conclusion** Extensive, but hard work.

## Metacreation's Painter 5.5 Web Edition



Metacreation's applications tend to be a little out of the ordinary and Painter 5.5 Web Edition is no exception. Its unique selling point is natural media, tools and features which emulate the real thing. Painter is less about image editing than image creation. Although you can use a photo as a tracing source, you won't find the usual array of colour-balancing and photo-editing tools. Instead, Painter provides the means to create illustrations that look as if they had been produced with oils on canvas, acrylics on hardboard, or many other media combinations.

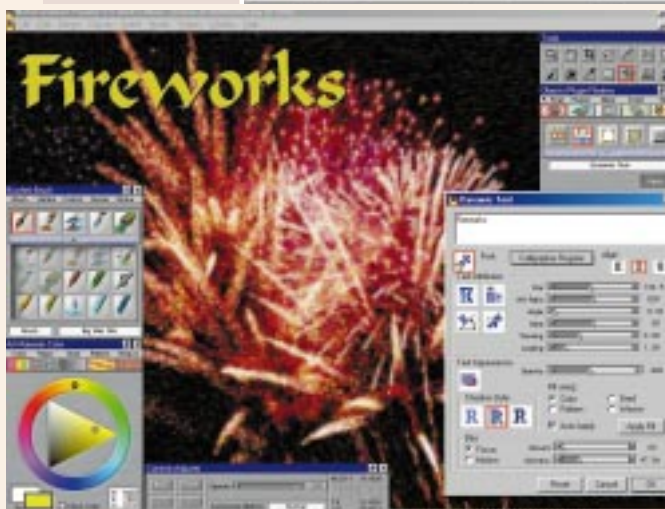
With each new release of Painter, an innovative, often unique feature is pulled out of the hat. Version 4 introduced image hoses and the unmatched mosaic tool. With version 5.0 we were treated to dynamic plug-in floaters which produced instant editable special effects. As the name suggests, 5.5 Web Edition adds web authoring tools. Yes, you can output HTML image maps, but there's nothing new there.

**An innovative feature** is image slicing. A typical application for this would be a button bar, a band along the top of a web page with six or so buttons to take you to other pages. This would be implemented as a single graphic with an HTML image map, allowing you to define separate links for different areas on the bar. Image slicing allows you to easily split the bar up and reassemble it in an HTML table so you can't see the joins.

There are two advantages to this. First, it may be possible to use smaller, more highly compressed file formats for some parts but not others. For example, some buttons may be just text on a plain colour background, while others may be photographic images. For the former you could use a 4-bit gif, for the latter a 24-bit jpeg. Second, part of the image-slicing repertoire includes the ability to create JavaScript rollovers, two- or three-state buttons which change when you point and click on them. This powerful combination of image slicing and rollover creation makes what was a tricky task a simple affair.

► **USING PAINTER'S IMAGE SLICER PLUG-IN TO CREATE A WEB PAGE WITH JAVASCRIPT ROLLOVERS**

▼ **THE DYNAMIC TEXT PLUG-IN FLOATER LETS YOU CREATE EDITABLE TEXT EFFECTS**



There's a raft of other web-authoring features. The creation of seamless tiles is made that much easier using wraparound colours which continue brush strokes off one side of a tile and onto the other. There's a fractal pattern tile generator, too. The new Dynamic Text plug-in allows you to create editable text effects including drop and inner shadows, pattern and graduated fills, and motion blur.

**Producing animated gifs** is relatively simple. Painter can open QuickTime movies as animation stacks or you can create movies from stack. Onion skinning shows you subsequent frames in the animation, and there are control buttons for skipping through frames and playing the animation. When it is saved, you can set the colour depth and inter-frame delay and specify whether out or gamut colours are dithered or quantised to the nearest palette colour. There's no way of previewing these changes though, so you have to save the image and see how it looks.

There are a few goodies on the CD — a small selection of brushes designed specifically for the web, and some arrows, buttons, objects, patterns and rules. These are by no means exhaustive and you could probably pick up more in ten minutes from

one of the many web sites offering this kind of thing for free.

Painter 5.5 is not for those who like to get easy results, fast. To make the most of it requires skill and hard work. But its natural-media features are unequalled. If you spend any amount of time stitching together large images in HTML tables or producing JavaScript rollovers, it's worth buying just for that.

### PCW DETAILS



**Price** £329 (£280 ex VAT). Upgrade from version 5, £57.57 (£49 ex VAT)

**Contact** Computers Unlimited  
0181 200 8282

[www.metacreation.com](http://www.metacreation.com)

**Good Points** As near to paint and canvas as you can get without the need for a smock. Javascript with ease.

**Bad Points** Like the real thing, it takes skill and effort.

**Conclusion** One for real artists and frustrated web developers.



## Ulead PhotoImpact 4.2



**U**lead has upgraded its professional image editing package with numerous web features: primarily, a gif animator, button designer

and SmartSaver, which is a utility for optimising gif and jpeg images for web viewing. There's also a new background designer and EasyPalette, which provides drag-and-drop effects and retouching brushes. The interface is a combination of Windows 95 supplemented by the EasyPalette. There's a standard toolbar at the top with a toolbox docked on the left and colour tools on the right.

### The EasyPalette

can be used to access a variety of filters and special effects brushes.

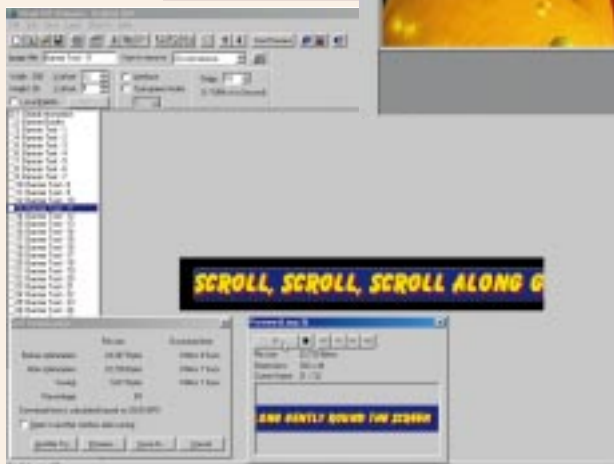
First, you select a category from a pulldown menu. Available options include creative gallery, material gallery and painting gallery. Thumbnail icons give a small pictorial demonstration of the effect which is applied by dragging it into the image window. Global effects do their stuff and you then have the option of undo if you don't like the result.

Other effects are brush-based presets. Dragging them into the image window selects the tool and sets the parameters in the context-sensitive ribbon below the standard toolbar. Trying out these effects is a good way to find out how the tools work and what they are capable of. There is also a wide range of special effects, of which Particle effects is the most impressive, allowing you to apply rendering effects such as bubbles, fog, rain and fire. There are 22 variations of the page curl effect.

When you try some real-world editing, you soon discover that PhotoImpact's interface can be counter-intuitive to say the least. Part of the EasyPalette functions as a layer manager but when we added a type object together with a drop shadow, the background image disappeared from the layer manager.

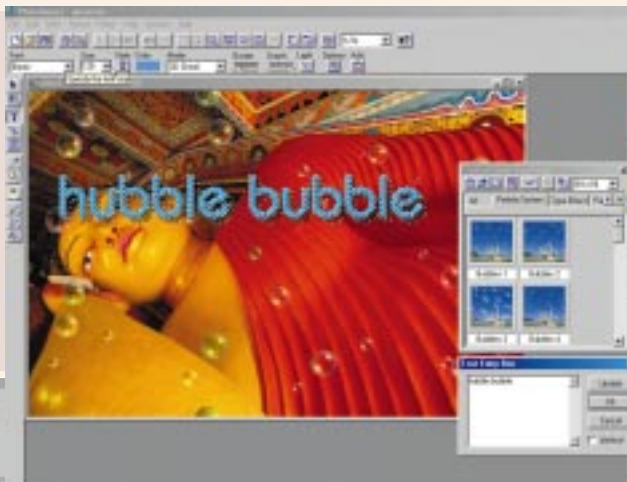
► **APPLY EFFECTS**  
SIMPLY BY  
DRAGGING THEM  
FROM THE  
EASYPALLETTE

▼ **GIF ANIMATOR**  
PROVIDES  
EXCELLENT  
PREVIEW, TESTING  
AND EDITING  
FACILITIES



Next, we added some vector paths but were unable to delete them. Despite having the path tool selected, path mode set in the attributes toolbar and Edit Existing Path set on the edit button, selecting the path and then clear from the edit menu removed the background image, not the path. Possibly, we had failed to do something crucial, but it was not obvious.

**By contrast,** some things are remarkably simple. Entering text and applying effects is a relatively straightforward process, although you must rely on a plethora of menus, buttons and dialogue boxes. The text entry box couldn't be simpler. It's a box into which you type text, nothing more. Attributes are set on the attribute toolbar and a mode pulldown menu allows you to apply 3D effects such as round, bevelled and piped edges. The text remains editable after the effect has been applied, but again there are irritating inconsistencies in the interface. The type-size limitation appears to be 128pt. Enter a larger value, say 500pt, and the progress bar whizzes along and the text appears to get marginally bigger —



but it's not 500pt. And, if you use the scale tool to adjust the size, its new size is not indicated in the type attributes bar.

Gif Animator is one of the better attempts to have been made at including this type of feature. Using layers rather than the more usual filmstrip approach, you can quickly produce animated banners using the scripted presets. A simple scrolling text banner can be produced in under a minute, and sophisticated builds and transitions are available from a plug-ins menu.

**Colour optimisation features** are the best you'll find outside of a dedicated package. An optimisation wizard takes you through the process, advising on creating a superpalette best suited to displaying the colours in every frame, overall colour depth and redundant pixel removal. You can then save these settings as a preset to apply to subsequent animations. You can preview your graphic either from within the application or your chosen browser. As a means of producing simple web animations in next to no time, PhotoImpact would be hard to beat.

### PCW DETAILS

★★★★

**Price** £116.32 (£99 ex VAT)

**Contact** Bit UK 01420 83811

[www.ulead.com](http://www.ulead.com)

**Good Points** Loads of effects. Great gif animator.

**Bad Points** Inconsistent. Confusing interface.

**Conclusion** If you're into effects and web animation, the rest might be tolerable.

## Macromedia xRes 3



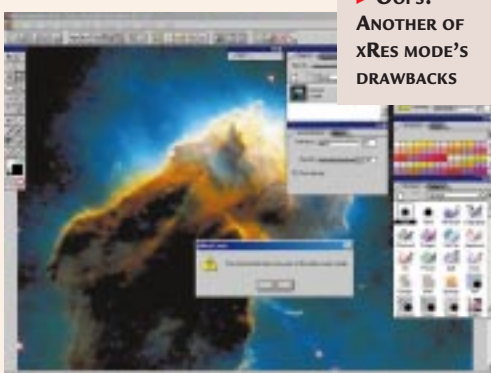
**W**hen it was launched, xRes' secret weapon was xRes mode, a fast way of displaying and manipulating big images without the need for loads of RAM. Version 3 has been with us for more than two years now, but despite this, xRes has a contemporary look and feel with which Photoshop users will feel completely at home.

One thing that has changed since we last looked at xRes is that you no longer get Mac and PC versions

on one CD. The version we had was for Windows only, so if you want cross-platform functionality, you'll need to shell out twice.

**xRes mode** achieves its speed by selectively processing only the displayed part of the image at the current screen resolution and saving editing operations as a command list which is applied at a final rendering stage. This provides almost instantaneous filter effects that conventionally would take minutes, even on a high-spec machine.

► **OOPS!**  
ANOTHER OF  
xRES MODE'S  
DRAWBACKS



Problems arise, though, when the edit list builds up. Command-based operations such as zooming, panning, transformations and

cloning become slower with each edit you apply. To begin with, everything zips along nicely, but having done all the usual things you do in an editing session it takes progressively longer to display the image whenever you pan, zoom, clone or

carry out transformations. The only way around this problem is to render the image at frequent intervals, which uses up much of the time saved and has other disadvantages. You can use xRes in direct mode, of course, in which case it works conventionally on the pixel data at the time you make the edit.

**There is an** excellent range of art brushes, it supports floating objects, channels, masking and plug-ins, and a limited edition of KPT3 is included. There's support for HTML image maps and Shockwave, Macromedia's interactive dynamic web technology.

### PCW DETAILS



**Price** £499 (£424.68 ex VAT)

**Contact** Computers Unlimited 0181 200 8282 [www.macromedia.com](http://www.macromedia.com)

**Good Points** Handles big files with small resources.

**Bad Points** Old. Can slow to a crawl without proper management.

**Conclusion** Looking neglected.

## Micrografx Picture Publisher 8



**M**ajor new features in version 8 of Picture Publisher include Light Studio, Bevel Factory, image warp, 72 pre-defined macros, multicolour gradients and anti-aliased tools. There is also Flashpix support, Kodak Digital Science colour management, two new merge modes and an enhanced image browser. Micrografx has also added a host of web authoring features. There's the ubiquitous image map,

web style wizards, gif animation, palette editing and HTML contact sheet output.

**Publisher's interface** looks a bit dated, but the combination of dockable toolbars and a context-sensitive modifier ribbon works well. Bevel Factory is a sophisticated button tool. You can apply straight bevelled edges to an object or choose from a variety of styles. In addition to controlling the light direction, a series of sliders provides control over width, smoothness, intensity, highlight brightness and shadow depth. In Light

Studio you can position spot, flood, directional or omni lights around an object. Sliders provide control over intensity, aperture setting and ambient light value. Tabbed palettes provide access to

bump mapping and effects, and preset lighting.

Publisher excels with its undo and macro capabilities. The Command Centre provides a chronological list of edits which can be selectively deleted, replayed, branched and grouped. The macro facility can be used in combination with low-resolution mode to provide a form of proxy editing.

Publisher provides a comprehensive feature set at a price well below that of the competition. But you don't get sophisticated interface design and the web features are not really worth the bother.



◄ **THE**  
COMMAND  
CENTRE  
PROVIDES  
SELECTIVE  
UNDO TO  
RIVAL  
PHOTO-  
SHOP, BUT  
IT'S NOT A  
FLOATING  
PALETTE

### PCW DETAILS



**Price** £79 (£67.23 ex VAT)

**Contact** Micrografx 01483 747526 [www.micrografx.com](http://www.micrografx.com)

**Good Points** Command Centre. Loads of effects and macros.

**Bad Points** Web features are a bandwagon-jumping exercise.

**Conclusion** Professional image-editing features at a budget price.

# Web authoring

**D**evelopers are falling over themselves to reposition their products as web authoring tools. The logic is clear. Tools which improve studio productivity are going to sell, because using one package to do a job instead of two or three is generally more efficient. A claim to be the hottest web authoring package around may amount to little more than support for gif and jpeg file formats — the least you could expect from an application costing several hundred pounds.

The most common web feature is an HTML image map generator. It works by assigning a URL to each object or layer in the image. An export filter then saves the image as a gif and generates the HTML code for a client-side image map.

Gif animation is another area of web

creativity ideally suited to image editors. It's simple enough stuff: a sequence of images displayed one after another in sequence with a timed delay between frames, sometimes on an infinite loop.

A good animator makes the task of producing the individual frames, linking them together, taking care of the timing, testing, editing and preparing for the

web a quick and easy one. Where most fall down is

*Where most fall down is at the final hurdle, optimising the palette...*

at the final hurdle, optimising the palette so that each frame in the animation is displayed without ugly dithering or posterisation, and so that the file size is as small as possible.

**Ulead PhotoImpact** is excellent in this respect, providing an optimisation wizard which virtually does the job for

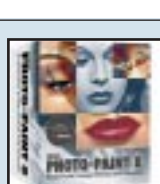
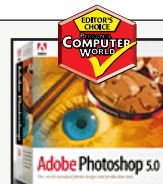
you, then provides data about size and estimated download times, together with a preview.

**PhotoImpact** has lots of timesaving features which enable you to create things like scrolling text and eye-catching transition effects, which is great if you're in a hurry or can't be bothered creating such things from scratch. Both **Corel PhotoPaint 8** and **Painter 5.5** have reasonable gif animators.

Corel offers good playback and editing features, and Painter's onion-skin feature, which lets you see subsequent frames beneath the top one, is handy for creating cartoon-style animations frame by frame. Neither, though, offers the speed or post-processing facilities of the Ulead product.

Another application which has an excellent gif animator at a budget price is **Paint Shop Pro 5**, which we reviewed last month's *PCW* [Group Test, p184].

## Table of features



PRODUCT	PHOTOSHOP 5.0	PHOTOPAINT 8	PAINTER 5.5	PHOTOIMPACT 4.2	XRES 3	PICTURE PUBLISHER 8
WEB EDITION						
MANUFACTURER	ADOBE	COREL	METACREATIONS	ULEAD	MACROMEDIA	MICROGRAFX
Contact no.	0181 606 4001	0800 973189	0181 200 8282	01420 83811	0181 200 8282	01483 747526
Web	www.adobe.com	www.corel.com	www.metacreations.com	www.ulead.com	www.macromedia.com	www.micrografx.com
Price inc VAT	£452.37	£351.32	£329	£116.32	£499	£79
Platforms	Win95/NT, Mac	Win95/NT, Mac	Win95/NT, Mac	Win95/NT	Win95/NT, Mac	Win95/NT
Layers/objects	✓	✓	✓	✓	✓	✓
Plug-in support	✓	✓	✓	✗	✓	✓
Image spray	✗	✓	✓	✗	✗	✓
HTML image maps	✗	✓	✓	✓	✗	✓
Gif animation	✗	✓	✓	✓	✗	✓
Natural media tools	✗	✓	✓	✓	✓	✓
PS tablet support	✓	✓	✓	✗	✓	✓
Vector paths	✓	✓	✓	✓	✓	✓
Multiple/selective undo	S	M	M	M	M	S
CMYK separation	✓	✓	✓	✗	✓	✓
Spot-colour support	✓	✓	✗	✗	✗	✗
Alpha channels	✓	✓	✓	✗	✓	✓
TWAIN support	✓	✓	✓	✓	✓	✓
Editable text effects	✓	✓	✓	✓	✗	✓
Scripting	✓	✓	✓	✓	✗	✓
Colour management	✓	✓	✓	✓	✗	✓
Online tutorials	✓	✓	✗	✓	✗	✓



# Editor's Choice

A broad-brush picture of image editing packages **for the professional.**

Choosing a group-test winner usually involves much wringing of hands because nearly all packages are strong in some respects yet weak in others. When it comes to professional image editing packages, however, there can be but one choice.

**Adobe Photoshop** stands out from the pack as the one application which continues to meet the needs of those at the cutting edge of digital photo manipulation, and is thus worthy of our **Editor's Choice**.

Firstly, Adobe's skill in the art of interface design means that it never takes long to find what you want and a little intuitive guesswork can take you far. With the release of version 5.0, Adobe has addressed most of the criticisms and fulfilled most users' feature wish list. The history palette provides a degree of flexibility which means you need never think twice before applying a filter or

making merry with retouching brushes, nor regret an earlier step which later turned out to be a wrong one. Users have long bemoaned Photoshop's lamentable text

capabilities but Editable text layers and layer effects will save hours, not only by making it easier to create text effects, but also by eliminating the need to start from scratch for even the most simple typographic alteration. Many

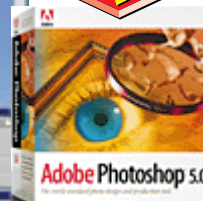
small but significant additions, from Pantone support to magnetic tools, live previews and colour samplers make upgrading to version 5 an urgent priority.

Of the remaining packages, all provide a good level of image processing and retouching features and effects, as well as general

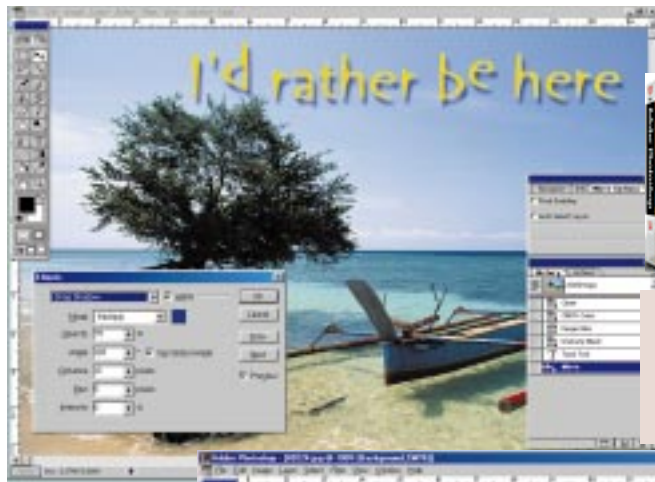
graphics tools. However, with the exception of Painter 5.5 and PhotoImpact 4.2, the standard of web authoring tools is little short of mediocre. Only **Painter 5.5 Web Edition** has made a success of packaging its existing features (natural media brushes and effects) with web authoring facilities which do something useful. If you need to produce web pages consisting primarily of image segments, and especially if those pages make use of Javascript rollovers, we recommend you get hold of Painter 5.5 Web Edition. It is **Highly Commended**.

If there were an annual award for the most extras like free applications and so on, Corel would have it for keeps. But although freebies pull in home users on a budget, they don't cut much ice in the professional arena. Corel has gone as far as it can with features and PhotoPaint 8 is crammed full to bursting. Now all we need is an easier way to get at them.

• Screenshot images from PhotoDisc "Millenium" and "World Landmarks and Travel".



◀ OUR EDITOR'S CHOICE — ADOBE PHOTOSHOP 5.0



▲ PAINTER 5.5 WEB EDITION IS HIGHLY COMMENDED

