



Image courtesy Jay Johnson

Shrek
Moulin Rouge
Final Fantasy
Monsters Inc.
For the Birds
The Grinch
Fight Club
Galaxy Quest
Hollow Man
The Matrix
The Haunting
Toy Story 2
Prince of Egypt
Mission Impossible 2
and many more...

Amazon Paint

Multi Layer Painting

Transparency, alpha channel, and multiple layer support let you work on complex images quickly by building up layers of image elements. Multi-layer cloning, paint-through, and filter brushes for complex collage and composite effects.

Image Processing

Over 50 image processing effects, plus plug-in support for writing your own. Live preview and optimized code bring you true "interactive effects".

Scriptability

Design custom tools and animation scripts quickly and painlessly. Every brush, image processing function and file operation can be controlled from a script. Power when you need it.

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Amazon 3D Paint

Paint Directly On 3D Surfaces

Amazon lets you import 3D models from all major high-end animation systems and apply brush and image processing effects directly on the geometry. See your results in real-time using advanced OpenGL rendering. Amazon also lets you display your unwrapped 3D geometry as a wireframe overlay on the 2D paint canvas.

Manipulate Texture UV Coordinates

Amazon's polygon texture UV editor lets you apply projections as well as hand edit the UV coordinates on models.

Complex Models and Multiple Texture Maps

With 3D Paint you can load any number of 3D models and assign separate texture maps to each model. Paint across the seams between two models with color or texture. Smudging between models picks up on one texture map and continues to the next.

Amazon Sweet 16

16 Bit Paint for Film

High Quality High Definition

Amazon lets you switch between 8 and 16 bits per channel painting on the fly, making Sweet 16 great for Film as well as Video designers.

See All 64 Bits While You Work

Powerful display functions like active dithering and display LUT adjustment take the guesswork out of doing film work on 24-bit displays.

Clients

Pixar • Disney • Time Warner
Dreamworks/SKG • Digital Domain
Electronic Arts • Cinesite
Psygnosis • Pacific Data Images
Namco • Sega • Square Pictures
Sony Pictures ImageWorks • Capcom
Acclaim • Tippett Studios • LucasArts

Amazon Paint

Photographic Effects

Over 50 image processing tools and filters • Powerful shape and spline-based image selection • Iconic image browser usable with any supported file format • Multi-layer filter brushes for complete control of operations such as dodge and burn • Pressure sensitive brushes for expressive image manipulation • Quality air brush with customizable shape and pressure controllable size, flow, and noise range.

Full Scriptability

Any Amazon effect controllable from a text-based script • TCL/TK language interpreter • Amazon extensions for development of custom interfaces.

Brush Effects

Customizable full color Image Brushes • Sub-pixel painting • Pattern Brushes using any full color image • Air Brushes • Fractal Line Drawing • Impressionistic Multi-Buffer Drawing Brushes • Tint Brush • Smudge Brush • Sharpen and Blur Brush • Noise Brush • Pixelizing Brush • Lookup Effects (including darkening, gamma correction, and contrast) • Ability to create and use soft-edged masks • Clone Tools.

Amazon 3D Paint

Advanced 3D Capabilities

Paint in real-time directly onto the surface of 3D models from any viewpoint • Highlight UV coordinates of any polygon on the current drawing canvas • Use UV polygon coordinates of a model as an underlay in the current drawing canvas. • Full-featured model UV editor allows application of multiple projections onto a single model as well as provides tools for the hand editing of texture coordinates.

Amazon Sweet 16

64 Bit Paint for Film

Amazon Sweet 16 provides 16 bits of precision for each of the Red, Green, Blue, and Alpha channels for a total of 64 bits per pixel. With Sweet 16, you get all the speed and flexibility of a 32 bit system with the added functionality of a 64 bit system when you need it.

Image Processing Tools

Blur • Sharpen • Trace Edges • Emboss • Color Balance • Channel Swapping • Convolution Kernel Editor with over 40 additional filter kernels • Channel Matrix Arithmetic • Darkening and Lightening • Thresholding • Solarization • Contrast • Gamma Correction • User-Definable Lookup Operations.

Full Compositing and Color Keying Capabilities

Over, Under, Multiply, Inside, Add, Subtract, Tint Onto, Powerful Hue, Saturation, Value, and Luminance-based color keying for fast matte building.

Interactive Effects

Multiple drawing layers composited in real-time for low stress creation of complex drawings • Quantization • Interactive Image Scaling • Image Cropping • Distortion • Perspective • Arbitrary Image Rotation • Mirroring • Shearing • Linear and Radial Gradient Fills • Soft Fills, Tint Fills, Pattern Fills, Noise Fills, Fractal Patterns • Live preview mode shows color balance and other effects interactively.

Space Control

Complete support for painting across multiple models • Layer based management allows design of texture, displacement, and bump maps • Real-time rotation/zoom/panning of 3D models in wireframe, shaded, or texture-mapped modes • Complete control over the viewer lighting model • Real-time interactive bump and displacement map editing.

Deep and Smooth

All the capabilities of Amazon Paint • Soft-switchable between 64 and 32 bit while you work • Active Dithering for accurate display of 48/64 bit images on 24 bit monitors • Image support for 10 bit Cineon and DPX / 16 bit TIFF and SGI files.

Drawing Tools

Polygons, Circles, Lines, Rectangles, and Splines plus Anti-Aliased Postscript Text using any Type 1 Compatible Font. Artistic Freedom Over 20 Brush Effects with customizable brushes and patterns • Intriguing twisting and swirling effects • Editable spline-based drawing tools • Impressionistic effects

File Formats

SGI • Maya/TDI IFF • Wavefront • Cineon • Abekas • TIFF • Softimage • Alias • Prisms • Houdini • Vertigo • PPM • Targa • JPEG • PICT • Any of the above compressed (.Z) or gzipped (.gz).

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3D Model Support

Amazon 3D Paint works with models exported from Maya, Wavefront, Alias, Houdini, and Softimage.

Required Hardware

Amazon Paint runs on all SGI workstations with IRIX 6.5 or later, and now Intel and AMD x86 processor equipped with Linux workstations.