SiliconGraphics
Computer Systems

TO SERVE

WebFORCE™

TO AUTHOR AND TO SERVE

Silicon Graphics

To Author

TO BROWSE

The Future of the World Wide Web

Until now, connecting to the Internet and establishing a presence on the World Wide Web was difficult and tedious. The promise of reaching new markets with automated, interactive services in a flexible yet inexpensive medium was often lost in a myriad of technical dilemmas. Even creating Web resources for sharing internal information presented significant obstacles.

Welcome to the future of the World Wide Web. The WebFORCE™ Software Environment from Silicon Graphics sets a higher standard for creating and serving media-rich content. Included with your advanced WebFORCE authoring workstation or added to any other Silicon Graphics® system, the WebFORCE Software Environment gives you the power to create more compelling content in less time. Optimized for serving performance, your Web site will respond to more queries with less delay.

Simplifying Creation

The WebFORCE Software Environment has been integrated into the familiar Indigo Magic™ user environment. Complex configuration files and cryptic commands are no longer necessary as you design and detail dynamic Web content with a click of the mouse. The unique graphical environment provides all of the tools you need to create richly formatted text, images, audio, and movies. You'll be ready to run immediately, because the WebFORCE Software Environment comes pre-installed and is simple to maintain and update.

Accelerated Server Response

The WebFORCE Software Environment was designed to maximize performance. Visitors to your Web site will experience fast response times no matter how complex your publications become. Servers running the Netsite™ Server from Netscape Communications can be accessed with any Web browser supporting HTML.

Unique Authoring Technology

New developments from Silicon Graphics provide all the authoring tools you need for the World Wide Web. WebMagic™ Author delivers all the power of HyperText Markup Language (HTML) without a steep learning curve, automatically generating Web pages as you use an intuitive interface.

3D Viewing and Navigation

With WebFORCE, Silicon Graphics delivers the first support for Virtual Reality Modeling Language (VRML), an advanced technology for publishing three-dimensional objects and scenes on the Web. WebSpace™, the first commercial VRML viewer, provides a natural visual interface for viewing, navigating, and sharing 3D designs and data. WebSpace will open up new avenues for 3D entertainment and advertising.

There's a new groove in the music scene.

Authoring

Creating media-rich content for the World Wide Web requires an extensive suite of tools. The WebFORCE Software Environment provides everything you need for creating, capturing, editing, and combining diverse digital media.

Your designs know no boundaries as you easily manipulate images, audio, movies, VRML models, and structured text.

Serving

Optimized to utilize the power of your Silicon Graphics workstation or server, Netsite Communications Server is fast, efficient, and easy to use and administer. Netsite is the obvious choice for high performance serving on the World Wide Web. With the optional Netsite Commerce Server, your site can be configured with secure communications, allowing on-line transactions, exchange of confidential documents, and commerce.

Browsing

WebFORCE includes Netscape Navigator,™ the premier graphical browser for the Internet. Combined with our advanced multimedia applications, Netscape Navigator is fast, secure, reliable, and includes everything you need to confirm your own site and explore the rest of the Web.

The future of the Web is here with VRML, the new Web standard that lets you enrich your site immeasurably with 3D viewing and navigation. WebSpace complements and enhances Netscape Navigator. VRML adds the missing element of 3D to the World Wide Web, turning virtual libraries and museums, information kiosks, engineering models, interactive entertainment, advertising, and product information into captivating 3D experiences.

IUMA

IUMA—http://www.iuma.com
There's a new groove in the music scene, thanks to the vision of three UC Santa Cruz students and technology from Silicon Graphics. The Internet Underground Music Archive (IUMA) is the Internet's first free, high-fidelity music collection, featuring work from both mainstream and alternative artists. Music fans can access songs, artwork, and biographies from their favorite artists. Rob Lord, Jeff Patterson, and Jon Luini use Silicon Graphics workstations and the WebFORCE Software Environment to create and provide their concept of tomorrow's music world.

WebMagic Author

WebMagic Author is the first Web editor that doesn't require knowledge of HTML. Its intuitive graphical interface greatly reduces development times and allows you to focus on content instead of arcane HTML tags. Simply enter text in a familiar WYSIWYG (What You See Is What You Get) environment and WebMagic Author does the rest. It even includes predefined templates for quick creation of home pages for your products and organization.

Formatted Text

With WebMagic Author, you have icon and menu-driven procedures for creating sophisticated text layouts, including multiple type styles and sizes, numbered and bulleted lists, horizontal rules, and all the tags HTML supports. You can easily cut and paste wording from existing electronic documents and electronic mail into your Web pages.

Hyperlinks

Links can easily be established by simply dragging and dropping an icon from the Indigo Magic desktop. Icons can be other HTML pages, movies, audio, images, or VRML files.

Images

WebMagic Author provides in-line support for visual elements in GIF and JPEG format. Simply drag and drop the files directly into your Web document.

Audio and Movies

Add the power of multimedia to your Web pages with exciting video clips and sound bites. Drag-and-drop operations link digital media files directly to other words or images already on your page.
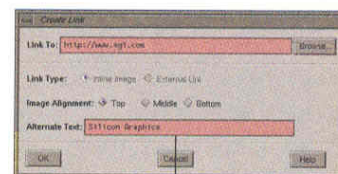
Drag and drop in-line JPEG and GIF images into your page

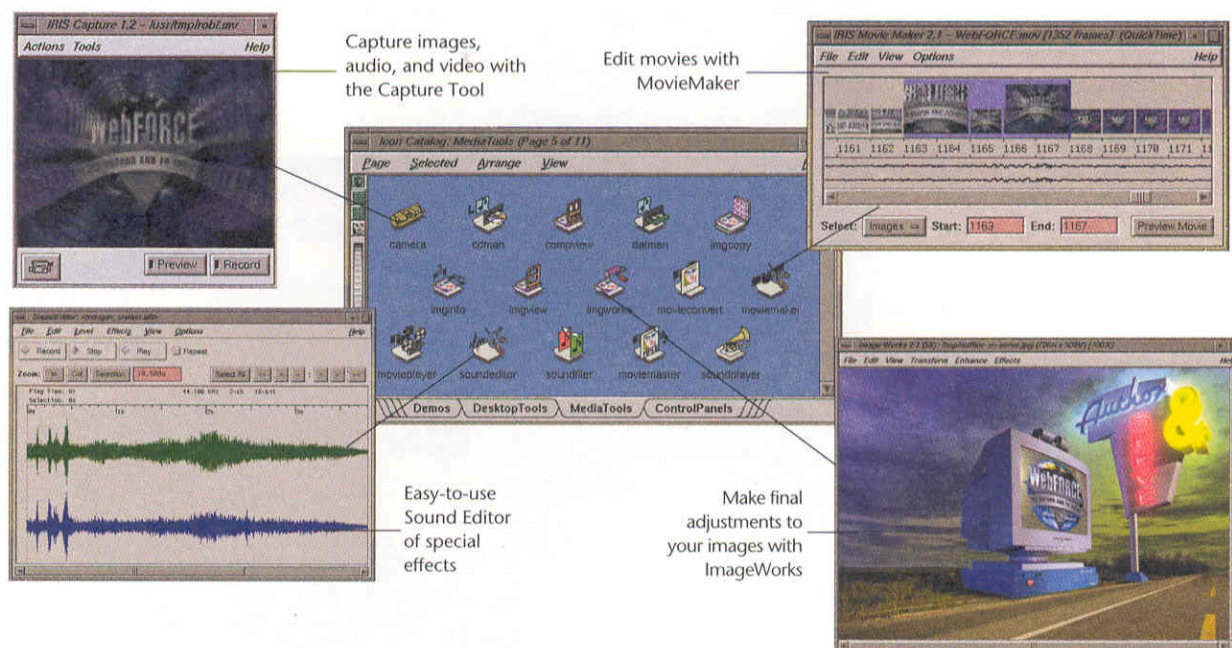Simple hyperlink button for creating local or remote links

Easy pull-down menus for changing style tags

Easy pull-down menus for changing style fonts
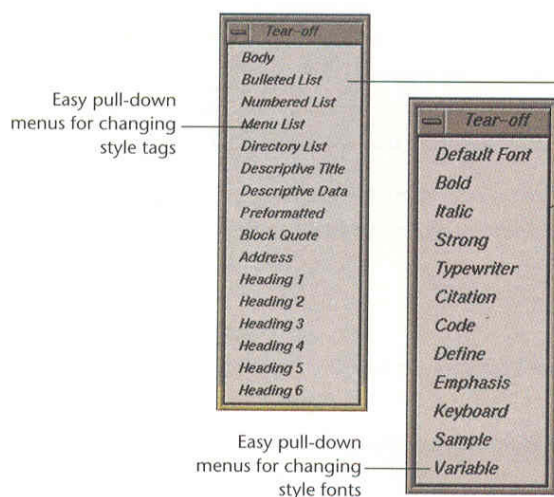
Easy to manipulate and change lists

Create a hyperlink by dragging and dropping from the Silicon Graphics desktop

WebFORCE by Silicon Graphics

Multi Media File Types include

1. audio file formats including aiffc and au
2. movie file formats including MPEG and Cinepak
3. image files including JPEG and GIF formats
4. 3D models.

Capture images, audio, and video with the Capture Tool

Edit movies with MovieMaker

Easy-to-use Sound Editor of special effects

Make final adjustments to your images with ImageWorks

Digital Media Tools Suite

Visual and auditory elements enhance your message and deliver an added impact to your audience. The Digital Media Tools suite gives you everything you need to capture, create, edit, combine, and playback images, audio, and movies.

Reflections of Reality

Content from analog sources is no problem for the Digital Media Tools. The Capture tool lets you record live video from IndyCam™ or any video recording device, or live sound from your microphone or other audio equipment. CDman and DATman are easy-to-use utilities for retrieving digital sound information from audio compact discs and digital audio tape, with no loss of quality. IRIS Impressario™ allows you to scan photographs and illustrations quickly and easily.

The Graphical Element

Once in the digital domain, image files can be easily manipulated. Imageworks allows you to enhance color and monochrome images, as well as crop, rotate, and resize your images. Adjust brightness, contrast, color balance, and focus. Imageworks also lets you convert image files easily into standard Internet file formats.

The Digital Media Tools suite includes Showcase™, which allows you to create text, images, effects, and three-dimensional objects, or add to your existing image files.

Adobe Photoshop and Illustrator

WebFORCE Author Systems include Adobe Photoshop™, the leading digital image editing software, and Adobe Illustrator™, a full-featured design and illustration tool.
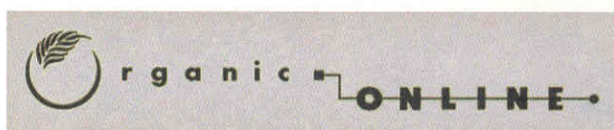
Music and Speech

Enhance your Web site with sound. SoundFiler converts formats and sample rates from many industry-standard formats. SoundEditor is a comprehensive sound studio with two-channel recording and editing. Mix tracks, edit, over-dub, and add effects.

The Magic of Motion

WebFORCE puts you in the director's chair with three tools for producing digital movies. Import source material with MovieConvert, which supports a wide variety of industry formats. Make cuts, combine segments, and rearrange multiple pieces of video, audio, and computer graphics with MovieMaker. Finally, translate your finished video into a Web-friendly format with MovieMaster.
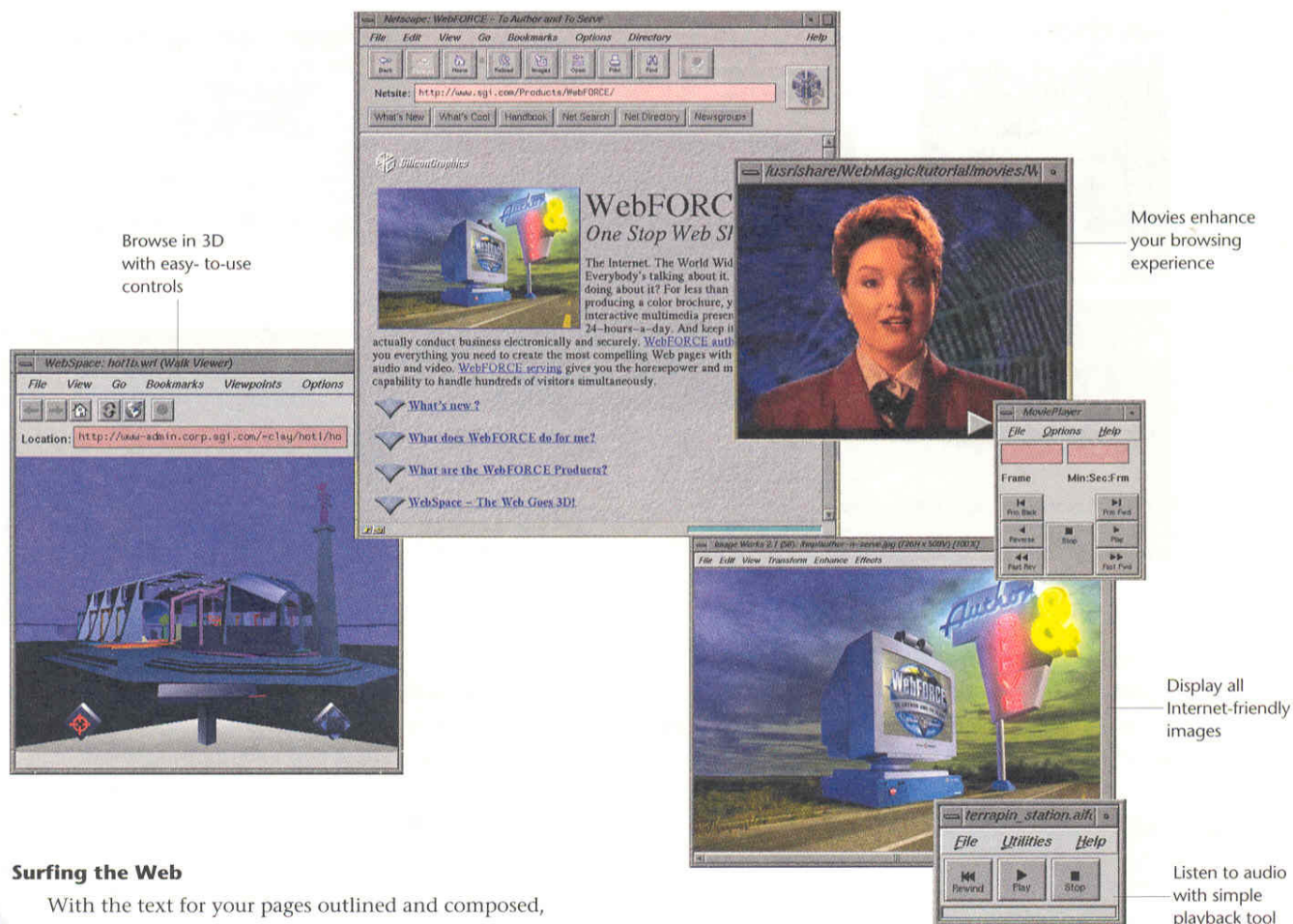
ToAuthor

ORGANIC ONLINE

organic ONLINE

Browse in 3D with easy- to-use controls

Movies enhance your browsing experience

Display all Internet-friendly images

Listen to audio with simple playback tool

Surfing the Web

With the text for your pages outlined and composed, digital media created and edited, and everything combined, it's time to peruse your creation. The WebFORCE Software Environment features everything needed for browsing the Web, playing digital media, and viewing 3D scenes.

Netscape Navigator

Silicon Graphics has joined forces with Netscape Communications Corporation to include Netscape Navigator, the must-have viewer to explore the new matrix of worldwide communication. Designed with a focus on performance, Netscape Navigator uses document and image caching, continuous data streaming, and other advanced performance techniques to achieve the fastest possible response times.

Netscape Navigator's intuitive point-and-click interface puts the World Wide Web, Usenet News, and File Transfer Protocol servers at your fingertips. Multiple windows can simultaneously receive documents and images, including in-line JPEG images. The graphical interface includes a toolbar, configurable bookmarks, and complete integration into the Silicon Graphics Indigo Magic user environment.
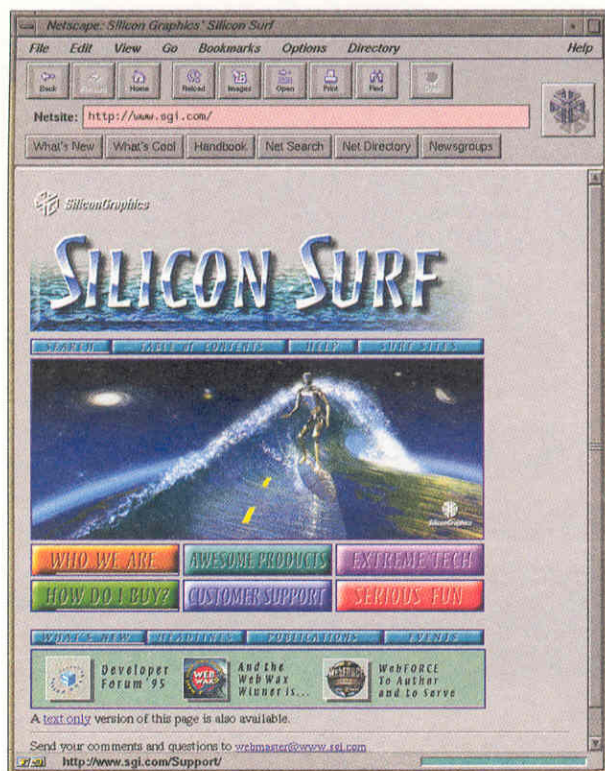
Multimedia Playback

Support for accessing multimedia Web files is integrated into WebFORCE. The Software Environment includes ImageView, a browser for all common image file formats. SoundPlayer is a utility for listening to audio files, with a familiar interface. MoviePlayer displays digital video in full motion, with VCR-like controls. As new standards evolve, they can be easily added to the Browser suite.

WebSpace Viewer

Webspace, an interactive 3D browser for VRML documents, is an entirely new paradigm for interacting with the Web. VRML is an open, platform-independent language for describing virtual worlds networked via the Internet and hyperlinked with the World Wide Web. When you select a link to a VRML document from within a Web browser, our WebSpace viewer is launched, allowing you to interactively navigate a three-dimensional object or scene. Click on objects to activate a Web link to another VRML world, an HTML page, or a multimedia file.

"Every single piece of data we have sent out originated from a Silicon Graphics machine."

the world. Netsite delivers complex documents several times faster than other HTTP-based servers and handles heavy traffic with no hassles. A streamlined design runs more efficiently than other servers, minimizing CPU usage and delivering the performance you expect from your hardware investment. Netsite is also easy to configure and maintain through its graphical interface. Netsite Communications Server is everything you need to easily distribute marketing materials, customer support information, and company-wide communications.

Netsite Commerce Server

Available as an option to your WebFORCE system, Netsite Commerce Server is the HTTP-compatible server designed for conducting secure electronic commerce. Netsite Commerce Server uses bullet-proof security from RSA Data Security to provide a safe environment for on-line payments and the exchange of confidential information.

Firewall Security

Gauntlet™ 3.0 for Silicon Graphics is available as an option for your WebFORCE system. Gauntlet is a complete firewall solution which allows you to secure your private network from the Internet. Gauntlet™ was originally developed by Trusted Information Systems and has been configured specifically for Silicon Graphics systems. Now you can protect yourself when connecting to the Internet with this world-class security software.

Outside Looking In

Once your home on the Web is designed and created, your most important consideration is performance. The high-performance mass-storage and networking capabilities of your Silicon Graphics workstation or server create an ideal platform for publishing your work on the World Wide Web. Advanced server software provides compatibility with HyperText Transfer Protocol, the native language spoken across the Web.

Netsite Communications Server

Netsite is the underlying magic that lets your organization provide compelling multimedia content internally and to

File Type	Source	Capture	Edit	View/Playback
Audio	DAT CD-ROM (audio CD) Microphone Other Audio Analog/Digital	DATman CDman Capture	SoundEditor SoundFilter	SFplay (Non GUI) SoundPlayer (GUI)
Images	Scanner Showcase™ IndyCam™ VCR Other Video Sources	Capture Impressario™ Screen Capture	ImageWorks ImageCopy Showcase Adobe Photoshop™ Adobe Illustrator™	ImageView
Video	IndyCam VCR Other Video Sources	Capture	MovieMaker MovieConvert Movie Master™	MoviePlayer
HTML	Text	WebMagic™ Author	WebMagic™ Author	Netscape Navigator™
VRML	Showcase, other modeling programs	Inventor™-to- VRML converter	Text Editor	WebSpace™
PDF				Adobe Acrobat™

Digital Media Tools

- Editing and image functionality for all common image file formats including GIF and JPEG
- Audio file formats supported include AIFF, AIFF-C, NeXT/Sun, au, MS RIFF WAVE, and MPEG-1 audio file
- QuickTime™, Cinepak, SGI, and MPEG movies are only some of the movie file formats supported

WebMagic Author

- WYSIWYG HTML editor
- Drag-and-drop icons from the Silicon Graphics desktop for inline images in both GIF and JPEG
- ISO Latin 1 characters for European language support
- Insert links to digital media files, VRML and other HTML files by simple drag-and-drop
- Active support for standard HTML 2.0 tags

WebSpace

- Viewing modes: walk through scene, examine object
- Interactive 3D dashboard controls
- Seek feature for automated flying
- Supports viewpoints for guided tours
- User-controlled rendering (speed vs. quality)
- Supports bookmarks and history list

Netsite Communications and Commerce Servers

- All HTTP-compatible clients supported
- Backward compatibility with NCSA HTTPD, speaks industry-standard HTTP/1.0 protocol, and serves HTML documents
- Advanced security (Commerce Server only), based upon public key cryptographic technology from RSA Data Security Inc., including:
  - Encryption, which protects the privacy of client/server communications by encrypting the data stream between the two entities
  - Server authentication, which uses a certificate and a digital signature to verify the identity of the server
- CGI/1.1-compliant
- DNS and IP address-based access control

Netscape Navigator

- Integrated major Internet functions
- Secure transactions performed through to browser
- Caching funtionality

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