



Secrets of Winning Web Design—Elizabeth Wood

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Topics of Interest

- Common Sense Tips
 - Organization
 - Loading the Home Page
 - HTML Limitations
 - Ways around HTML Limitations
 - Frames
 - Tables
 - Adobe Acrobat
- Design Tips & Techniques
- Type Tips & Techniques
- Graphics Tips & Techniques
- Multimedia Web Creation Tools
 - Video
 - Streaming Audio/Video
 - Streaming Audio/Video Applications
 - ActiveX
 - JAVA
 - JAVA Applications
 - Macromedia Shockwave
 - Animation
- Favorite Applications
 - Animation
 - Macromedia
 - Graphics
 - Site Builders
- Helpful Information
 - Plug-ins
- Web Search Engines
- Find People with Online Directories
- Vendor Web addresses



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Common Sense Tips —Organization

- Make your site functional
- Use a simple well-designed interface
- Don't allow the user to become lost in a maze of pages
- Provide a quick way to return to the Home Page
 - Always make a link to the Home Page available
- Keep pages small so they fit on one or two screens
 - Small pages load more quickly and are easy to explore
 - Many Web surfers don't know how to scroll
 - Give the user a quick way to scroll. Have a button or arrow to move the page
- Use the outliner in your word processor to organize content
- Figure out a logical hierarchy of the information you will deliver
- Draw out a flow chart to show how the information will be linked together

Common Sense Tips—Loading the Home Page

- A well-designed Web site allows users to load it quickly
 - Keep graphics small
 - Reuse graphics
 - Limit animations
 - Don't use files requiring plug-ins on the Home page
 - Load the navigation tools on the Home page and use the same graphics on all pages. They will have downloaded and other pages will appear faster

Common Sense Tips—HTML Limitations

- Lack of precision.
 - There's no guarantee those objects will display the way you've placed them.
 - The objects could appear almost anywhere:
 - on the page
 - in any order
 - Based on:
 - Browser
 - Size of the display window
 - How the user has set various browser options
- Create and edit all the Web pages on your site with the same HTML editor.
- Each application adds comments and tags in a slightly different way and may not recognize another program's elements.
- Test your pages on many Browsers and display resolutions.



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Common Sense Tips—Ways around HTML Limitations

Frames

Frames Limitations

- Take longer to download
- Wastes valuable browser space
- Shell you to other Web sites
- Bookmarks don't work consistently
- Many older browsers do not support frames
- The BACK button doesn't always work
- Printing problems
- Search engines have trouble with navigation in their index
- Users prefer frame-free designs
- Inline Frames in HTML 4.0
- Frame is subordinate to the main page
- User can bookmark the main page and navigate as usual
- Mainstream browsers still do not implement HTML 4.0

Tables

Tables Advantages

- Allows layout of information in a grid format
- Allows layout of information in a controlled view
- Nest tables in tables
- Dynamic sizing of rows and columns
- Format each cell within a table independently
- Cells hold graphic or text or both
- Span columns and/or rows
- Set width of tables & cells - relative or absolute

Table Disadvantages

- Some older browsers do not support tables
- Tables were a new capability in HTML version 3.0
- Dynamic sizing of rows and columns

Table Tricks

- Divide your page into smaller tables rather than one large table
- Import a graphic element into a cell to force a minimum width. It will display faster
- The browser can display the content of a table only after it completes downloading the full table

Adobe Acrobat

Adobe Acrobat solves the page layout problems of HTML and adds several important features:

- Creates a Portable Document File (PDF) that is device independent
- View the file as it was created on any operating system or browser
- Embed type: Adobe Type 1 and TrueType fonts
- Text remains searchable
- Include bitmap and vector images
- Link to other data types
- Include sound video and hypertext links



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Link to any URL

User may print the PDF file and will get the original typefaces and graphics layout

Netscape Navigator 3.0 and Internet Explorer 3.0 natively support reading PDF files on the Web

Use the Acrobat Reader plug-in to view files on other Web browsers

Use PDF files for password protected searchable documents such as newspaper stories or corporate literature



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Design Tips & Techniques

Be consistent with color, type and graphics throughout the site

Follow your corporate identity standards

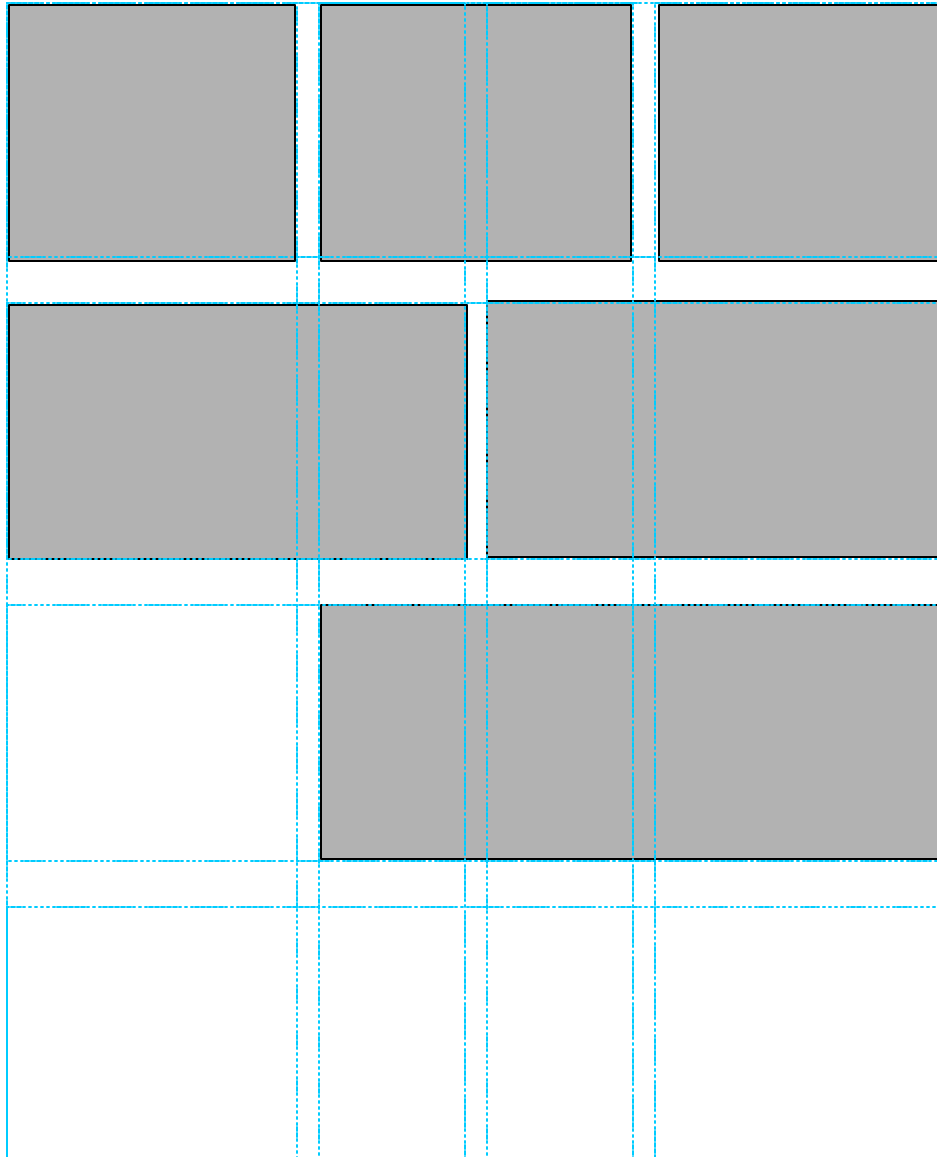
Use site maps and visual clues so viewers don't get lost

Keep a quick way back to the Home page

In the world of traditional page layout designers place elements on the page within a grid system which can be easily applied to Web pages.

Look for books on desktop publishing to help you understand how to use grids

Use tables to create a grid system for Web pages-save as a template and reuse to create new pages





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Graphics

- File sizes

 - How to determine best size

 - How to get the image to the optimum size

Color Settings

Most computer manufacturers ship systems with the color depth set to 256 colors!

Most users don't have any idea that more colors can be displayed and therefore they never reset the display of their monitors.

Design your Web page to look good on a 256 color system

Netscape and Internet Explorer have different 256 color palettes but share the same 216 colors

- Use the Internet palette when saving images in your image editor

Color Combinations

The use of correct color combinations will have a dramatic effect on the attractiveness and readability of your Web site.

Colors have psychological aspects and imply feelings so they must be used properly to avoid uneasiness to the viewer.

Remember the meaning behind terms such as:

 - “seeing red”

 - “feeling blue”

 - “turning green with envy”

 - “purple with rage”

... design carefully with color or you may give the viewer the wrong message.

Colors stimulate feelings. From least stimulating to most stimulating, the ranking of other colors is blue, green, yellow, orange and red.

Don't use all bright colors on every object on your Web site.

- If each object is screaming at the viewer to be noticed the end result will be chaos.

Use color wisely to direct the user through your site

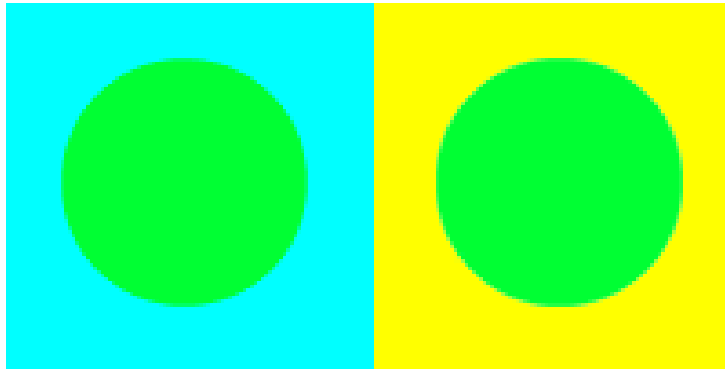


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Background Color

Colors are perceived differently depending on the background color



With the two images side by side, notice how different the green color appears on the circle depending on the background color. It appears more yellow when placed on a cyan background and bluer when surrounded by yellow.



Notice how the colors on the word contrast and vibrate. Colors that are opposite each other on the color wheel are called complements and they will vibrate when placed next to one another making it difficult to read text in these colors.

It is better to choose a pale background color, such as a tint of yellow, with a strong color (black) used for the text.

Black is the strongest color

Black text on a yellow background will give the best contrast.

Avoid screaming fluorescent or neon yellows please!

Use a solid background color with graphics on it for best legibility

Subtle textures also make for interesting backgrounds if the texture is not too dominant

Tile a small graphic as a texture but not too small or it will take longer to tile

Remember! Web pages with a black background and white text print out as a solid black page!



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Type Tips & Techniques

Flying Lessons
Flying Lessons

Fresh Eggs
Fresh Eggs

The text you choose for your Web site will set the tone

No two computers have the same fonts installed

If you hard code the text on your site, stick to standard typefaces

Fonts may be embedded

Embedded fonts = larger file sizes and longer downloading

Create headlines with unusual typefaces in a graphics program

Import headlines as GIF or JPEG images

Reduce the palette of those headlines to keep the graphic file size small

Remember!

Many users switch off, or can't display, graphics

Use the 'ALT' tag for graphics that contain text so that the headline message is not lost altogether

Keep your font size large enough to be read by older visitors!

Use only one or two fonts and avoid "ransom note" documents

Don't have too many lines, boxes and graphics

If using a multi-column layout, the column height needs to be considered too

Each column should fit comfortably into the viewable height of the screen

Don't make the reader have to scroll a page to go from one column to the next

Height is determined by the minimum default browser height, which is about 400 pixels, regardless of computer type



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Keep line lengths short

Long lines make it difficult for the eye to find the next line—causing eyestrain

Restrict line widths to about three or four inches

Avoid placing text from edge to edge on the screen

Place 'hard'
 (break) characters where you want a carriage return—this keeps lines short and controls the typographic shape of the right-ragged edge

Choose typefaces that are designed especially for the screen

Avoid italic fonts.

Italics are difficult to display within the constraints of a square pixel grid and will almost always look awful, especially at small sizes.

A sans serif typeface like Arial or Helvetica displays better than a serif typeface such as Garamond or Times Roman.

WYSINWYG

What you see is not what you get!

You can never be totally sure how a browser will display your text.

Each browser is different and PC users have, depending on their monitor resolution, the option of using 'Large' or 'Small' fonts.

Leave room around graphics in case the text displays unexpectedly on a PC



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Graphics Tips & Techniques

Don't antagonize the viewer

Indiscriminate use of graphics, no matter how cool, will only antagonize viewers to the point that they will switch off the automatic graphics download in their browser and all your efforts at designing an exciting Web page will be lost.

A full screen of plain text data = 1000 bytes (1K)

This little icon takes nearly 8K



Load graphics quickly

Interlacing

Access (caching)

File size

Reduce the File Size

GIF and JPEG are the two most common graphic file formats on the Web

GIF images are NOT limited to 8-bit (256 colors) but virtually all are

Contrary to popular belief and widespread implementation, the GIF89a spec is not limited to 256 colors

Itsagif software from Pedagoguery Software <http://www.peda.com>

creates GIFs with 525 or more colors and multiple transparent colors!

This GIFs will not be as small as 256 color GIFs

Not all applications have correctly implemented the GIF89 format so images may not display in all applications

JPEG image files can have true color (16 million colors) or less

Take a large graphic and break it into smaller sections that when placed in a table on the page give the illusion of a single graphic.

Use ALT tags to place text where the graphic will appear to explain the image.

Interlaced GIF and Progressive JPEG formats display a blurry version of the image slowly coming into focus during subsequent passes.

JPEG Tricks

Photos are often saved in JPEG format to preserve accurate colors.

The JPEG file format discards unneeded detail when saving and compressing. Remember to save an uncompressed version of the image for future editing

Use a utility program when saving an image in JPEG to view the quality

Utilities for JPEG compression

Vorton Technologies Riptide

Ulead GIF/JEPG SmartSaver

Equilibrium Debablizer Pro

File size demo using Ulead PhotoImpact JPEG SmartSaver

GIF Tricks

Optimize palettes



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Reduce colors to even less than 256

To do this in Photoshop, from the Mode menu, open Indexed, click on 4-bit Adaptive and then on OK. Was your image destroyed? Select Undo, and try again, this time using 6 bits depth.

If you're using a flat-color image, such as a simple two or three color chart, you might get away with an even lower bit depth.

Reset your display set from true color to 256 colors and do a reality check before publishing graphics to the Web.

For more information, visit the PowerPoint demo titled Using and Manipulating Digital Images on the Egeland Wood & Zuber, Inc. Web site http://www.fpn.abraxis.com/ewz/image_editing/index.htm



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Multimedia Web Creation Tools

Video

Video is not yet widely deployed at web sites, due to the huge storage and bandwidth requirements. Low-bandwidth solutions have not provided the image quality or frame rates necessary for effective communication.

The most common regular (non-streaming) video formats are:

AVI for Windows

The latest browsers let you embed Microsoft Video for Windows files directly into HTML documents

MPEG for all platforms, including UNIX

QuickTime MOV for Mac (and Windows too)

A multi-platform industry-standard multimedia architecture used by software tool vendors and content creators to create and deliver synchronized graphics, sound, video, text and music.

These formats are designed for optimal quality, and are not suited for streaming

The user downloads the entire file prior to running the animation

Must also have the appropriate plug-in to view the files

Streaming Audio/Video

Real-time or “streaming” audio/video is played as it’s being received, eliminating the need to wait for the whole file to be downloaded first. The network can be the Internet, an Intranet, or any local area network. Streaming video

Streaming video is video compressed using a codec (Coder/Decoder) which shrinks video using mathematical algorithms such as wavelet, fractal and discrete cosine transform (DCT). Most streaming video technologies use a server to ensure efficient video distribution to clients. Servers transmit video through a variety of network protocols including UDP, TCP and HTTP. Some streaming video applications scale the amount of video data transmitted to ensure an unbroken audio stream.

Streaming Audio/Video Applications

Macromedia – Shockwave

Macromedia’s Shockwave Web browser plug-in will enable Internet users to play near-CD-quality streaming audio clips. The Macromedia technology does not require dedicated server software. Files can be posted on standard Web server products. Audio files may be compress at ratios as high as 176 to one. Shockwave audio files can be created with Macromedia Director and SoundEdit 16 applications.

Progressive Networks – RealMedia

RealMedia is an open, cross platform, client-server system for streaming media on the Internet.

Designed to stream any data type—it is not audio or video specific, nor does it require specific file formats. Open framework of client and server plug-ins and APIs



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- Supports streaming and playing of time based media, including audio, video, MIDI, text, images, animation and presentations
- Features of the delivery system include: Interactive stream control, error mitigation, bandwidth negotiation, multicast, live broadcasting and monitoring

Progressive Networks is working with industry leaders to build new streaming media applications

New applications will simultaneously stream MIDI, images, presentations, text, 3D images and animation

DSP Group – TrueSpeech

TrueSpeech is a helper application that delivers high-quality audio and is free to the developer. It has a more limited feature set than RealAudio.

LiquidAudio – Liquifier Pro

Liquifier Pro software allows you to prepare and publish CD-quality, copy-protected music for delivery via the Internet. It includes DSP functions and provides the capability to include lyrics, credits and artwork in one audio file, the Liquid Track.

Vxtreme

Real-time Web video

VXtreme's next-generation technologies break through each of the barriers that have prevented the widespread use of real-time video applications in networked environments. These innovations enable crisp, clear video to the desktop, giving users the picture quality they expect without interrupting normal network traffic.

Software-Only Compression

VXtreme's Web Theater software uses RTP (Real Time Protocol) as its network delivery mechanism; RTP is an open standards protocol, which is being standardized by the Internet Engineering Task Force (RFC 1889/1890). VXtreme extends RTP to include mechanisms for packet loss recovery. This ensures that the video quality is high even when the network path across the Internet is congested.

Interactive Video Framework VXtreme's LiveScreen™ video framework makes video completely interactive and synchronized with activity in other parts of an application.

Vosaic

VOSAIC™ brings streaming video and audio to the World Wide Web. VOSAIC uses standards compliant, advanced technology to integrate streaming video and audio with the Web.

The VOSAIC MediaSuite™

- VOSAIC MediaClient™ plays videos at the highest quality possible by dynamically adapting to the available bandwidth and client computer capabilities.
- VOSAIC MediaStudio™ is used to create streamable audio and video files from MPEG, AVI and WAV source files.
- VOSAIC MediaServer™ gives you the capability to serve streamed video over the Web.



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VOSAIC Broadcast Suite

- The VOSAIC RadioStudio* will allow you to create Web Sites that are heard and not just seen. *FREE for educational and personal uses.
- VOSAIC TVStation™ gives you the ability to stream video to clients without the use of a plug-in. Transmit live events such as conferences, lectures, sporting events and concerts.
- VOSAIC RadioStation™ lets you create a web radio station. No need for a plug-in.

White Pine Software CU-SeeMe

- Video Chat software for the Internet and Intranet

VivoActive Software VivoActive 2.0

VivoActive 2.0 is an inexpensive, high-quality, serverless technology that emphasizes ease of use and simplicity. A free VivoActive Player is available as an ActiveX control for Microsoft Internet Explorer 3.0 or as a Navigator plug-in. These plug-ins are not as functional as players from Progressive Networks and VDOnet but do offer the ability to pause/resume.

VDOnet Inc. – VDOLive 2.1

High quality video encoded into standard .AVI format can be transmitted live or on-demand from a range of server platforms. VDOLive's player includes: playback timer, zoom by 2, volume control, and gauges that monitor effective bandwidth and audio and video skips. No navigation controls make it less functional than RealPlayer.

ActiveX

Microsoft's ActiveX technology lets Web developers create dynamic pages with rich multimedia and advanced capabilities

ActiveX is a set of advanced technologies designed by Microsoft that allow Web designers to add interactive components to their Web pages. Active X controls are the objects that you can add to your Web pages to create these interactive, user-controlled components such as video.

ActiveX in Browsers

Netscape and Mosaic view ActiveX controls by the Active X plug-in for Netscape

Internet Explorer 3.0 is the first Web browser to support ActiveX controls in Web pages

- An OBJECT tag in an HTML file identifies an ActiveX component
- When Internet Explorer 3.0 encounters a Web page with an ActiveX control (or multiple controls), it first checks the user's local system registry to find out if that component is available on their machine. If it is, Internet Explorer 3.0 displays the Web page and activates the control. If the control is not already installed on the user's computer, Internet Explorer 3.0 automatically finds and installs the component over the Web, based on a location specified by the developer creating the page.

Embedding ActiveX Objects with the ActiveX Control Pad



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ActiveX Control Pad is an authoring tool that lets you add ActiveX controls into HTML pages with point-and-click ease. ActiveX Control Pad includes the new Microsoft HTML Layout Control. Create pages with the ActiveX Control Pad editor that includes advanced layout and multimedia features such as exact object placement, object layering and transparency effects.

Microsoft's HTML Layout control eliminates the problem of unexpected layouts by encapsulating layouts consisting of multiple ActiveX components (and the scripts that power them) within a single component. This displays all the specified components exactly as laid out.

The browser thinks there is only one component to display, and therefore won't change the layout. ActiveX Control Pad is a part of Internet Explorer 4.0.

Download FREE:

ActiveX Control Pad at www.microsoft.com/workshop/author/cpad/

JAVA

HTML's appearance can vary depending on the browser you use. To overcome this, several vendors are using Java to publish content. Java is an object-oriented programming language (OOPL) from Sun Microsystems that supports applications that must run securely over networks and the Internet. Java enables developers to build applications that run on client machines and access files over widely distributed corporate networks and the Internet as if they were stored on a local hard disk.

Java is independent of its browser-based implementation.

Sun Microsystems' component model for Java, called Beans, is already a potentially revolutionary development. This specification will let vendors add reusable components everyone can use.

Both Netscape and Microsoft Internet Explorer support Java.

Microsoft will let you generate ActiveX components using Java with its Visual J++ tool.

Java can create full executables or applets.

Java applets run inside another application.

AVA Applications

Aimtech JAMBA 2.0

- Windows-based visual Java authoring tool for producing interactive Java applets without writing code

- Price: \$299

Symantec Corp Visual Cafe 1.0

- A GUI environment, using the latest in visual, object-oriented tools

- Price: \$199

Sun Microsystems Java WorkShop 2.0

- Create your own Java applets with this cutting edge Java development tool

- Price \$99

Randomnoise Coda



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- Written in 100 percent Java and is the first program designed to produce pure Java Web sites
- Combines Java and HTML code to build entire sites from start to finish
- Price: \$495

Kinetix's Hyperwire

- Provides a relatively easy way for Web designers to add Java applets to their sites without writing any Java code
- Price: \$249

XDB Systems Inc. JetAssist 1.0

- JetAssist is a graphical, form-based Java tool for rapid, code-free development of database applets. It requires and takes advantage of JetConnect, XDB's Java database connectivity solution.
- Price: \$49 per seat (includes a single-user JetConnect license)

Marimba Inc.'s Bongo

- Bongo contains a rich set of predefined graphical widgets. You simply drag and drop them on your form to create the user interface. Behaviors can then be added to the interface by writing scripts in Java.
- Bongo output can be directly published as a Marimba Castanet channel.
- Price: \$495

Lotus Development BeanMachine

- A simple tool for composing Java applets
- Designed for building browser-based applets rather than stand-alone applications
- Developers assemble applets from components without writing code
- Price: \$147

Corel Corp.'s Barista

- Corel Corp.'s version of JAVA is the Barista technology
- Integrated into Corel Office Professional 7
- Corel hopes Barista will be a standard for publishing Web content the way PostScript is for print material
- Barista runtime files download during browsing
- Barista also comes as an ActiveX control

Macromedia AppletAce

- Download AppletAce from Macromedia's Web site at www.macromedia.com. Used to create animated banners, bullets and image maps that can serve as hyperlinks
- AppletAce builds scrolling-text banners using a host of standard fade and wipe techniques, your own background tiles, embossed text, multiple art displays and rotations
- Built-in ImageMap generator to make Java-based image maps such as making sections of an image glow when the mouse passes over them and outlining regions with any color
- Bullets and charts



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- Price: Free

Macromedia Shockwave

Shockwave is the ultimate tool for adding multimedia to the Web

Use Macromedia products: Director 6, Flash2 and Authorware 4 to create Shockwave multimedia Web pages

Shockwave compresses files created in these programs

Plug-ins quickly download and play the files back over the Web with little download lag

Price: Free with Macromedia applications

Animations

Use animations with restraint

Animations may be distracting and even annoying

Give the viewer a choice to download or not

GIF Animations Pros

Easy to create

- Most paint or video editing applications can create GIF animations

Use an animated GIF instead of an AVI to cut the file's size in half

GIF animations stream automatically—unlike an .AVI file, which must load fully before it begins to play

More browsers support animated GIFs than AVIs

GIF Animations Cons

Too many animations will distract from the message

Limited to 256 colors (unlike a static GIF)

Complex animations may take a lot of time to download



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Favorite Applications-Animation

Corel Web.Move (formally known as CorelMove).
Demo

To create an animated actor quickly, click on the actor to OLE you to WebDraw (CorelDraw). Create two objects (say a square and a circle), align them directly on top of one another and create a blend across cels. This automatically creates the in-between steps that display as a square changing to a circle. Make each object a different color and the color blends as well. Return to Corel Web.Move and publish this animation as an animated GIF, movie or JAVA applet. There are over 2,000 actors, props and sounds that ship with this application making anyone capable of creating or adding animation.

Ulead Systems PhotoImpact GIF Animator

One of the best and least expensive GIF animators
Broad feature set and intuitive interface with powerful color control
Construct animations either from multiple GIF images, by color cycling or by using a variety of built-in transitional effects
Optimization wizard
Price:\$29.95

Boxtop Software GIFmation

Import Adobe Photoshop layers as separate frames
Alerts you if you choose an option not supported by a specific browser
Onion-skinning
Price:\$49

Pedagoguery Software A Smaller GIF

A Smaller GIF is a computer program for compressing animated GIFs without changing their appearance. A Smaller GIF can reduce the amount of space an animation uses without introducing any visual artifacts, distortion, or blurring as GIFs are stored using a lossless compression format. Different GIF utilities use different techniques to store their animations; A Smaller GIF tries several different compression techniques, and uses the technique that will minimize the size of the resulting GIF. Future versions of the program may try additional techniques and/or allow the user to sacrifice image fidelity for improved compression.
Price \$22

Pedagoguery Software Gif-glf-giF

Gif-glf-giF, a simple program for quickly making animated GIFs from screen captures. Software developers can use Gif-glf-giF to show off their products on the web. Educators can use Gif-glf-giF to help produce web-based tutorials.

The animations are viewable with Netscape Navigator 2 and the Macintosh version of Microsoft Internet Explorer without add-ons, plug-ins, or helper applications.

Price \$28.



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Favorite Applications-Macromedia

Macromedia Flash 2

Web site graphics tool for creating drawings, interactive Web interfaces, cartoon animations and animated advertisements. Provides Web page designers with method for animating freehand drawings. Delivers graphics to Web through Netscape plug-in, Microsoft Internet Explorer ActiveX control, Java applet, GIF 89 or JPEG animation.

Compatible with: Windows 95; Windows NT; Apple Macintosh, Power Mac

Price: \$249

Demo

Macromedia Director Studio

Multimedia authoring tool. Includes Director 6, Extreme 3D 2 for modeling, animation and rendering, xRes 3 for image editing, texture painting and compositing, Shockwave for Director, SoundEdit 16 and DECK II for Mac platforms and Sonic Foundry Sound Forge XP for Windows platforms. Enables finished applications to be played on Windows, Mac, OS/2, 3DO, OS/9, Enhanced CD and WWW platforms. Macromedia Director 6 features built in formatted and anti-alias text, multiple casts, grids and alignment, onion skinning, support for Photoshop and Adobe Premiere filters and faster execution of Lingo scripts. Macromedia Extreme 3D provides time based or frame based 3D animation, viewing of 3D objects before rendering to view how lighting affects them and an accessory set including textures and environments. Macromedia xRes 2 can edit hi-res images, create anti-aliased masks and handle quick masking in Director.

Compatible with: Windows 95; Windows 3.X; Windows NT; Apple Macintosh, Power Mac/System 7.1

Price: \$999.

Macromedia Authorware

Integrated environment for creating and publishing interactive information. Suite includes Authorware 4, Director 5 and xRes SE, plus SoundEdit 16 and DECK II for Macintosh users, and Sound Forge XP and Backstage Designer Plus for Windows users. Features media creation tools, intranet capabilities with Shockwave, cross-platform authoring, intuitive authoring interface, database connectivity, search capability, data tracking, standard file support, modular design and over 5,000 buttons, graphics, models and Xtras add-ons.

Authorware 4 allows users to send their information over their intranets/Internet via Macromedia Shockwave. Employs an intuitive authoring interface based on use of icons and drag and drop. Includes more than 5,000 professional quality buttons, graphics, models and Xtras add ons. Compatible with: Windows 95; Windows NT; Apple Macintosh, Power Mac/System 7.1

Price: \$2,999



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Favorite Applications - Graphics

Creating Winning Web sites would not be possible without powerful graphics and image editing applications.

CorelDraw

Graphics applications suite. Includes CorelDRAW 7, PHOTO-PAINT 7 Image editing, CorelDREAM 3D modeling/rendering application, MULTIMEDIA MANAGER 7 file manager, OCR-TRACE 7 raster to vector conversion utility, TEXTURE, CorelSCAN, CorelDEPTH for 3D logos/text, CAPTURE 7 screen capture utility, SCRIPT Editor, CorelMEMO and Kodak Digital Science Color Management System. Assign URLs to any object and publish documents to HTML, GIF, JPEG or Barista.

Compatible with: Windows 95; Windows NT

Price: \$695

CorelXara

Xara is a hybrid program that is part vector and part bitmap featuring drag-and-drop colors, fills, textures and line styles and extensive interactive graduated transparencies. Apply anti-aliasing to smooth the edges of graphics. Using the Xara plug-in for Netscape Navigator and Microsoft Internet Explorer, place CorelXARA files directly on pages for the Internet. Supports export to JPEG and GIF image formats and both TrueType and Adobe Type 1 fonts. Xara includes 10,000 clip art images, 500 fonts, 500 photos and 250 textures.

Compatible with: Windows 95; Windows 3.X; Windows NT

Price: \$190

Ulead PhotoImpact with Web Extensions

Create images, 3D text with shadows, backgrounds, buttons and optimized photos for documents, presentations and the Web. The Button Designer creates 3D buttons of any shape or size and it includes an Image Map Tag for automatic HTML code writing for a selected region. Includes more than 100 tileable patterns and textures that can be used as Web site backgrounds.

Includes GIF Animation Tool is a utility that enables users to compose compact GIF animations by dragging and dropping individual or multiple images directly to GIF Animator workspace, where sequences are automatically sorted and inserted in numerical order. Features color reduction technology and global palette editing.

The GIF/JPEG SmartSaver utilities show the results of compression and list file size after compression.

PhotoImpact Explorer is a handy program for visually viewing the contents of an image and graphics files in your system.

Includes 99 levels of undo and redo, interactive print preview and color matching.

Compatible with: Windows 95; Windows NT

Utilities available stand-alone.

Price: \$200



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Fractal Painter

A natural-media painting program with tools that mimic traditional art media including pressure-sensitive brushes, filter effects, and grout and tile mosaics. Includes Shapes which provides blending of raster and vector imagery, and NetPainter which enables collaborative artwork creation over LANs and Internet.

Open and edit digital video and combine raster and vector imagery in a single composition. Supports GIF and JPEG formats. Dynamic Plug-In Floaters are placed over a base image, moved and edited without altering the original. Goopy brushes transform images into liquid pools by twisting, pulling or punching them, image editing brushes for removing scratches, an Image Hose nozzle for spraying images around 3D objects and support for the 216 color palette adopted by Netscape Navigator.

Compatible with: Windows 95; Windows 3.X; Apple Macintosh, Power Mac/System 7.5

Price: \$449

Live Picture PhotoVista

Create 360 degree images for the Web! PhotoVista automatically pieces together and aligns series of digital photos to create seamless 360 degree panoramic images, compact in size and bandwidth conservative, for real-time Web navigation.

Compatible with: Windows 95; Windows NT; Apple Power Mac/System 7.5

Price: \$99

Vorton Technologies Riptide

Designed for anyone from the casual home user to the serious web or graphics designer, Riptide is an easy-to-use powerhouse for viewing, converting and editing graphics from over 40 different file formats. View multiple images and automatically batch convert with total control over bit depth, compression and resolution. Instantly view in an automatic or manual slideshow a collection of images in any supported formats.

Riptide supports TWAIN, EXIF and FlashPix digital camera formats.

Compatible with: Windows 95; Windows NT

Price \$69.95



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Favorite Applications - Site Builders

You no longer need to be a programmer to create HTML code. Many Web-page design programs are available for the non programmer who knows no raw HTML code. These WYSIWYG programs resemble word processing or desktop publishing programs and include wizards and templates to get you started.

CorelWebMaster Suite

HTML and VRML suite for creating, monitoring and managing Internet/intranet sites. Includes WEB.DESIGNER, WEB.SiteManager, WEB.DATA, WEB.DRAW, WEB.PhotoPaint, WEB.MOVE, WEB.WORLD, WEB.GALLERY, O'Reilly's WebSite server software and Netscape Navigator 3.0. Enables sites to be directly published to the Internet and provides 30 days of free Web site hosting.

Database publishing and graphic design support, animation authoring, 3D VRML world creation and 8,000 Internet ready images.

Compatible with: Windows 95; Windows NT; Windows 3.X

Price: \$299

Microsoft FrontPage

Authoring tools for WWW employing templates, wizards and WYSIWYG editing. Enables user to develop Web-based services without need for programming or central MIS intervention.

Provides HTML page editor that can assign HTML tags, convert graphics, map hot spots, create forms and incorporate e-mail and search engines. WebBots perform complex task such as forms creation and include page.

Supports Windows 3.X, Windows 95 and Windows NT clients. Adds Microsoft FrontPage Personal Web Server which lets users publish and test their Web sites on their own PCs.

Compatible with: Windows 95; Windows NT

Price: \$149



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NetObjects Fusion 2

Sophisticated design tools, and a flexible, functional interface that closely resembles a graphic-design or desktop-publishing program make NetObjects Fusion 2 the choice for designers. Powerful drag-and-drop layout capabilities. An excellent visual site structure editor with high-end Web-page design templates.

Compatible with: Windows 95; Windows NT; Apple Macintosh, Power Mac/System 7.1.2

Price:\$495PC \$695 Mac

Microsoft PowerPoint

The leading presentation application creates self-running Web-presentations. Internet/intranet capabilities include action button to add hyperlinks to slides/files, Animation Player for ActiveX to publish Web page with animation/narration, saving as HTML wizard and home page creation wizard. Includes built in HTML translation capabilities.

File sizes are large and do not stream so it is best used for Intranets.

Compatible with: Windows 95; Windows NT

Price: \$339

Microsoft Publisher 97

Microsoft Publisher 97 is an entry-level desktop publishing application with surprisingly powerful Web-site design wizards. Follow the Wizard and add your own images. Drop elements anywhere on the page.

Sophisticated layouts are a snap to produce.

Compatible with: Windows 95; Windows NT Workstation

Price: \$80

Trellix Corporation -Trellix

A whole new way with words. It works like a word processor but is designed for on screen documents. Trellix gives you a great way to write and read web-style documents. A visual map lets you quickly access information in a document. Automatic and manual linking to jump from summary to detail or other URLs. Tours let you annotate pages and direct a reader to specific relevant information.

Compatible with: Windows 95; Windows NT

Price: \$99

Word Processing Applications Also Do HTML!

If you have the latest version of either Corel WordPerfect or Microsoft Word, you already have an HTML design program. They may not be as complete as a dedicated HTML design application but they do provide the basics to create quick, easy Web pages.

Corel WordPerfect Suite 8

Price: standard version, \$395; upgrade, \$179

Microsoft Word 7.0

Price: \$339



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Helpful Information—Plug-ins

Plug-ins are software programs that extend the capabilities of a browser in a specific way—giving you for example, the ability to play audio samples or view video movies.

Add plug-ins to your browser

Plug-ins are easy to install. When you go to a Web page that requires plug-ins, the browser checks to see if you have the needed plug-in(s) installed. If you don't, the browser directs you to a Web page where you can download the latest version of the plug-in. The installation program will automatically install it in a plug-in sub-directory and run. Once installed, you are ready to go!

Plug-ins for Netscape Navigator work with Microsoft Internet Explorer if you Copy the plug-ins from your old Netscape Navigator directory (usually C:\navigator\plugins) to your Internet Explorer directory (usually C:\iexplore\plugins).

Browser plug-ins

Microsoft Internet Explorer plug-ins gallery

<http://www.microsoft.com/activex/gallery/>

Netscape Navigator plug-ins download area

http://home.netscape.com/comprod/products/navigator/version_2.0/plug-ins/index.html

3D and animation plug-ins

COSMO PLAYER from Silicon Graphics—3D enabling, VRML plug-in adds a new perspective to your browser. Supports the VRML 2.0 the industry standard for 3D worlds on the Web.

<http://vrml.sgi.com/cosmoplayer>

Netscape has standardized on Cosmo Player for Communicator

ENLIVEN VIEWER—Enliven Viewer delivers sight, sound and motion to your desktop using your existing modem. Wait no longer!

<http://www.narrative.com>

JUTVISION—The Jutvision plug-in allows surfers to view 3D, photo-realistic, virtual reality Jutvision scenes on the Web. Tour houses, cars, vacation destinations. Look up and down, zoom, pan left and right. It is available for Windows 95 and Windows NT. <http://www.visdyn.com>

LIVE3D—This high-performance 3D VRML platform lets you fly through VRML worlds on the Web and run interactive, multi-user VRML applications written in Java. Available for Macintosh Power Mac, Windows 3.X, Windows 95 and Windows NT.

<http://home.netscape.com/comprod/products/navigator/live3d>

ANIMAFLEX—AnimaFlex plug-in can play full screen, high-speed photo-realistic animations on the Web. Immediate download. Available for Macintosh 68K, Power Mac, Windows 3.X, Windows 95 and Windows NT. <http://www.rubberflex.com>



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CYBERAGE RAIDER—CyberAge Raider makes navigating the Web a smooth experience using a 3D interface, negligible download times and a built-in thesaurus to restructure and resubmit your query to any search engine. Available for Windows 95 and Windows NT.

<http://www.miint.net/cyberage>

CYBERHUB CLIENT—CyberHub Client enables you to meet and interact with other people in 3D worlds on the Web. You can easily move between 2D and 3D Web sites and interact with other people in real time. Available for Windows 95 and Windows NT.

<http://ww3.blacksun.com>

DEEPV—DeepV is a 3D scene designer for creating real-time 3D Web sites. Typically, scene files are 2Kb without texture. Available for Windows 95. <http://headsoff.com>

FLYING CARPET—Flying Carpet is a Netscape Navigator plug-in for manipulating and navigating very large 3D models, assemblies and worlds consisting of up to millions of polygons that are located on the Internet or Intranet. Available for Windows 95 and Windows NT.

<http://www.accelgraphics.com/prodfc2.htm>

HYPERSTUDIO—Anyone can view HyperStudio multimedia projects published over the Internet, complete with images captured digitally, tracks from audio CDs, sound, scrolling text in any font, animation, movies, visual transitions and links to other Web pages or sites. Available for Macintosh 68K, Power Mac and Windows 95.

<http://www.hyperstudio.com/lab/plugin.html>

ICONAUTHOR—IconAuthor is an award-winning authoring tool for building exciting and effective multimedia applications using an object-oriented design and visual development environment. Available for Windows 3.X and Windows 95. <http://www.aimtech.com>

MULTIMEDIA HOME SPACE VIEWER—The Multimedia Home Space Viewer (MHSV) plug-in adds multimedia and interactivity to 3D home spaces created with Virtual Home Space Builder, the first easy-to-use VRML authoring tool available and priced for consumers. Available for Macintosh 68K, Power Mac, Windows 3.X, Windows 95 and Windows NT. <http://www.paragraph.com/vhsb>

NETMC MULTIMEDIA AUTHORIZING TOOL FOR WEB PAGES—The NetMC plug-in allows users to play NetMC composed media pages. NetMC is a multimedia authoring tool and Web page plug-in that incorporates audio, video, graphics and animation. Available for Windows 95 and Windows NT. <http://netmc.neclab.com/dnplug.html>

OLIVR VIEWER—OLiVR lets users create photo-realistic, 3D virtual-reality movies that can be streamed in real time over the Web, eliminating the long wait required to download other types of multimedia files. OLiVR works at bandwidths as low as 14.4Kbps and will scale to any higher bandwidth infrastructure. Available for Macintosh Power Mac, Windows 95 and Windows NT. <http://www.olivr.com>



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REALVIEW—With support for nearly all PC hardware 3D-graphics accelerators built in, RealiView is a freely distributable plug-in that allows users to browse 3D moving worlds with embedded actions and hot links to other worlds. Available for Windows 95 and Windows NT.

<http://www.realimation.com>

REALVR TRAVELER—RealVR is a virtual reality technology which combines panoramic viewing, VRML2.0 3D rendering, graphics, video and audio playback to create an integrated environment for presenting and browsing multimedia and virtual reality information on the Internet. Available for Macintosh Power Mac, Windows 95 and Windows NT.

<http://www.rlspace.com>

SHOCKWAVE THE WORKS—Add the Shockwave app to your browser to take advantage of the animation, sound and interactivity of sites created using Macromedia's multimedia development tools. <http://www.macromedia.com>.

www.macromedia.com.

Visit Macromedia's Shockzone at

<http://www.macromedia.com/shockzone> to check out a guide to "Shocked" sites.

SIZZLER—The Sizzler plug-in allows simultaneous viewing and interaction with Web pages while streaming animation is delivered over the Web. Available for Macintosh 68K, Power Mac, Windows 3.X, Windows 95 and Windows NT.

<http://www.totallyhip.com/Products/Products.html>

VISCAPE—The Superscape Viscap plug-in brings true interactive 3D to the Web. It takes the Web from interactive to hyperactive by letting you grab objects, do walkthroughs and hear sounds. Available for Windows 95 and Windows NT. <http://www.superscape.com>

VR SCOUT—Fly through 3D graphical scenes with Chaco's VR Scout VRML plug-in. Chaco's extremely fast viewers implement the full VRML 1.0 standard. Available for Windows 3.X, Windows 95 and Windows NT.

<http://www.chaco.com>

VREALM—Vrealm is a VRML plug-in for Netscape 2.0 which fully supports VRML and adds features such as object behaviors, gravity, collision detection, autopilot and multimedia. Available for Windows 95 and Windows NT. <http://www.idsf-net.com>

WORLDVIEW 2.0. INTERVISTA—Plug-in features an outstanding interface and supports the VRML 2.0 the industry standard for 3D worlds on the Web.

<http://www.intervista.com/products/worldview/index.html>

Microsoft is basing one of its upcoming Internet Explorer VRML browsers on WorldView.



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Presentation plug-ins

ADOBE ACROBAT READER—Web authors who want to ensure that their pages reproduce faithfully use Adobe Acrobat. Adobe Acrobat locks in layouts, type styles and type sizes. Acrobat does for the Web what it did for the enterprise with its portable PDF files; the program makes it possible to distribute highly formatted documents. Use the free Acrobat reader to view files.

<http://www.adobe.com/special/acrobat/moreinfo/main.html>.

Check the Acrobat PDF Directory at

<http://www.adobe.com/prodindex/acrobat/pdfweb.html> for sites offering Acrobat files.

ASAP WEBSHOW—ASAP WebShow is a plug-in presentation viewer for viewing, downloading and printing graphically rich reports and presentations from the Web. Available for Windows 3.X and Windows 95. <http://www.spco.com/asap/asapwebs.htm>

ASTOUND WEB PLAYER—The Astound Web Player plays dynamic multimedia documents created with Gold Disk's award-winning Astound or Studio M software. These documents can include sound, animation, graphics, video and interactivity. Available for Windows 3.X and Windows 95. <http://www.golddisk.com/awp/index.html>

NEURON—The Neuron plug-in provides Internet access to all computer-based training titles produced with any of the Asymetrix ToolBook II authoring product line, including Instructor, Publisher and Assistant. Neuron allows end users to download and play presentations, kiosks, courseware and other multimedia applications produced in ToolBook II. Available for Windows 3.X, Windows 95 and Windows NT. <http://www.asymetrix.com/toolbook/neuron/>

POWERPOINT ANIMATION PLAYER & PUBLISHER—The new Microsoft PowerPoint Animation Player & Publisher provides users with the fastest, easiest way to view and publish PowerPoint animations and presentations in your browser window. Millions of PowerPoint users can now take advantage of the enhanced animation, hyperlinks, sound and special effects they are familiar within PowerPoint for Windows 95 to create dynamic, animated Web pages. Download the Animation Player to see some samples of PowerPoint used in Web pages. Available for Windows 95 and Windows NT.

<http://www.microsoft.com/mspowerpoint/internet/player>

POINTPLUS—The PointPlus plug-in viewer enables users to view Microsoft PowerPoint presentations on the Web within the browser window, or on full screen, either slide-by-slide manually or displayed hands-free on auto-play. <http://www.net-scene.com/>



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Audio/Video/Graphics plug-ins

APPLE QUICKTIME PLUG-IN—The Apple QuickTime plug-in lets you experience QuickTime animation, music, MIDI, audio, video and VR panoramas and objects directly in a Web page. Available for Macintosh 68K, Power Mac, Windows 3.X, Windows 95 and Windows NT.

<http://www.quickTime.apple.com/sw/>

CINEWEB—CineWeb brings real-time, streaming audio-video to the Web using standard movie (AVI, MOV and MPG) and audio (WAV, MID and MP2) files. Available for Windows 3.X, Windows 95 and Windows NT. <http://www.digigami.com/PlugIns.html>

CORELXARA—The Xara plug-in allows CorelXARA files to be embedded in Web pages and viewed using versions of Netscape Navigator or Microsoft Internet Explorer that support plug-ins. The plug-in displays the image fully anti-aliased and dithered for the best possible quality, and will also display CMX and CDR (versions 3, 4 and 5) files produced by Corel Draw. <http://www.xara.com/>

CLEARFUSION—ClearFusion is a streaming Video for Windows AVI plug-in that enables any Video for Windows AVI file to be viewed inline as it's received. Available for Windows 95.

<http://www.iterated.com/cfusion>

CRESCENDO PLUS—Crescendo Plus Version 2 delivers higher-quality stereo MIDI music to the Web. The Crescendo PLUS plug-in adds live real-time streaming (no download delays) and “sticky” client-side preferences. Available for Macintosh 68K, Windows 3.X, Windows 95 and Windows NT. <http://www.liveupdate.com/midi.html>

INTERVU PLAYER—The InterVU Player lets you play any industry-standard MPEG audio-video file without using specialized MPEG hardware decoders and without proprietary video servers. The InterVU Player provides a view of the first frame of the video right in the Web page, streams the video while downloading, and provides full-speed cached playback from your computer's hard drive. Available for Macintosh 68K, Power Mac, Windows 95 and Windows NT.

<http://www.intervu.net/player>

LIQUIFIER MUSICPLAYER CD-In for Pro Tools—Buy and purchase CD-quality Internet singles over the Internet. Exclusive Dolby® Digital technology provides superior sound while viewing album graphics, lyric and liner notes.

MIDPLUG—The Yamaha MIDPLUG module offers the impact of sound and music accompaniment for animation, ads, text—anything that can benefit from the power of sound. Compact MIDI data means maximum speed and efficiency on the Internet, with no extra equipment required. Available for Macintosh Power Mac, Windows 3.X and Windows 95.

<http://www.yamaha.co.jp/english/xg/html/mplug.html>

NETSCAPE MEDIA PLAYER—Netscape Media Player brings high-quality streaming audio and synchronized multimedia to your desktop. Used in conjunction with Netscape Media Server 1.0, Netscape Media



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Player provides high-quality audio even with 14.4 Kbps modem connections, and automatic bandwidth-optimized streaming for the best possible audio quality at various connection speeds. Available for Macintosh Power Mac, Windows 3.X, Windows 95, Windows NT, Irix, Sun OS and HP-UX.

http://home.netscape.com/comprod/mirror/media/download_mplayer.html

ONLIVE! TALKER—The OnLive! Talker plug-in lets you use your Netscape 3.0 or later browser to join voice conferences on some of your favorite Web pages. Talker lets you speak in real-time, in your own voice, to other people from around the world who share your interests. Available for Windows 95. <http://www.onlive.com/talker>

PHONEFREE—PhoneFree allows net surfers to engage in real-time, phone-quality conversations over the Internet without using a telephone or incurring any long-distance phone charges. PhoneFree and its white page listings are fully integrated with Netscape Navigator. Available for Windows 95 and Windows NT. <http://www.phonefree.com>

REALPLAYER 4.—With Progressive Networks plug-in RealAudio and RealVideo, you'll be able to receive live events, CD-quality music, video and advertising from sites like Sports Illustrated, C-SPAN and Warner Brothers. <http://www.real.com/products/player/index.html>.

After installing the player, visit AudioNet <http://www.audionet.com> and Timecast <http://www.timecast.com> for a guide to RealAudio and RealVideo events on the Web.

VDOLIVE PLAYER—VDOnet is a key player in the Web multimedia market. After you download the VDOLive Player, take a look at the listing of VDO-enabled sites, including Fox and CBS News, PBS Online and the AutoChannel broadcasts. <http://www.vdo.net>

VIVOACTIVE—A key player in the Web multimedia market. To view the audio and video content at the CNN, HBO, TechWeb and First-TV sites, download the VivoActive plug-in. <http://www.vivo.com>

A VivoActive site guide is available at <http://www.vivo.com/gallery/vasites.htm>.

WEBTRACKS—With WebTracks, you can hear the soundtrack of the World Wide Web. WebTracks uses a proprietary music format to compress music files and begin playing them immediately when you reach a web page with music on it. Available for Macintosh, Windows 3.X and Windows 95. <http://www.wildcat.com/GetWebTracks>



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General Sites to Find Plug-Ins

New plug-ins become available often on the Web.

Dave Central Software Archive—This index contains links to plug-ins in several categories, including multimedia, video, VRML, bookmark managers and utilities. Most categories also include ActiveX controls.

<http://www.davecentral.com/>

Netscape Navigator Components—You'll find more than 100 third-party plug-ins here in five categories: 3D and Animation, Audio/Video, Business and Utilities, Image Viewers and Presentations. The page also indexes the latest crop of plug-ins.

http://www.netscape.com/comprod/mirror/navcomponents_download.html

TechWeb's TechTools—Look here for plug-in reviews, plus tips on fine-tuning your browser and PC. Also check out the guides to Web animation, audio, video, agents and Java. <http://www.techweb.com/tools/tools.html>.

Don't forget your MIMES

MIME (Multipurpose Internet Mail Extensions)

IMPORTANT: MIMES must be installed on the server or the viewer will not see or hear the plug-in. See the plug-in creator for details on installing on servers.

Sample content MIME types are:

AU format has a MIME type of audio/x-au

AIFF format has a MIME type of audio/x-aiff

WAV format has a MIME type of audio/x-wav



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Web Search Engines

AltaVista <http://www.altavista.digital.com>

AltaVista's new LiveTopics tool lets you interactively choose words to narrow your search.

Advanced search options restrict searches to a particular type of information (images or applets, for example) or a specific domain.

Excite <http://www.excite.com>

Search magazines and newspapers for the latest news on a favorite topic—sort the results by relevance or by periodical.

Set up your own “front page”

Automatically looks for related words and concepts, ranking them according to how closely they match the search criteria

HotBot <http://www.hotbot.com>

Graphical search interface is among the easiest to use

Drop-down menus

Search a specific site or geographic location, find only certain types of files (applications, images, VRML and so forth)

Save customized settings

InfoSeek <http://www.infoseek.com>

Checks search terms to see if one of its predefined categories is available, then displays that category along with your search results.

Choose which services to view with the UltraSeek configuration

UltraSmart search form offers fast, accurate searching

Lycos <http://www.lycos.com>

One of the first Web search tools

Good search engine for a general rather than specific subject

Yahoo <http://www.yahoo.com>

Yahoo offers one of the most complete computer vendor directories online

WebCrawler <http://www.webcrawler.com>

More specialized

Good at locating specific types of information

OpenText <http://www.opentext.com>

More specialized

Good at locating specific types of information

AOL's NetFind <http://www.netfind.com>

More specialized

Good at locating specific types of information

Microsoft's All-in-One <http://home.microsoft.com/access/allinone.asp>

Single-click access to the major search sites

My Virtual Reference Desk <http://www.refdesk.com>

Links to over 10,000 different search and reference tools, including 260 search engines



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Web site: www.fpn.abraxis.com/ewz

Find People with Online Directories

BigBook <http://www.bigbook.com>

InfoSpace <http://www.infospace.com>

Locate your quarry geographically, providing maps and detailing nearby businesses or homes

Four11 <http://www.four11.com>

A non-business white page directory

WhoWhere <http://www.whowhere.com>

Vendor Web addresses

ActiveX Control Pad— <http://www.microsoft.com/workshop/author/cpad/>

Aimtech Jamba— <http://www.jamba.com>

Boxtop Software— <http://www.boxtopsoft.com>

Corel Corp.— <http://www.corel.com>

DSP Group — <http://www.dspg.com>

Egeland Wood & Zuber, Inc.— <http://www.fpn.abraxis.com/ewz>

Equilibrium— <http://www.equilibrium.com>

Intergraph— <http://www.intergraph.com>

Kinetix — <http://www.ktx.com>

LiquidAudio — <http://www.liquidaudio.com>

Lotus Development— <http://www.lotus.com>

Macromedia— <http://www.macromedia.com>

Marimba Inc. — <http://www.marimba.com>

MetaCreations Corp.— <http://www.metacreations.com>

NetObjects— <http://www.netobjects.com>

Pedagoguery Software— <http://www.peda.com>

Progressive Networks— <http://www.prognet.com>

QuickTime— <http://www.quicktime.apple.com>

Randomnoise— <http://www.randomnoise.com>

Sun Microsystems— <http://java.sun.com>

Symantec Corp— <http://www>

Trellix — <http://www.trellix.com>

Ulead Systems— <http://www.ulead.com>

VDOnet Inc. — <http://www.vdo.net>

VivoActive Software — <http://www.vivo.com>

Vorton Technologies Riptide— <http://www.vorton.com>

Vosaic— <http://www.vosaic.com>

Vxtreme— <http://www.vxtreme.com>

White Pine Software— <http://www.cu-seeme.com>

XDB Systems Inc.— <http://www.xdb.com>