# macromedia
# AUTHORWARE® 4

## The Leading Tool for Web-based Multimedia and Learning

**Take the lead in multimedia learning applications** for the Web. Visual authoring makes it easier than ever to create engaging interactive multimedia applications, from effective networked training classes to engaging educational courseware, that cuts costs and improves productivity and understanding. In addition to intranet delivery, you can develop rich content for hybrid CD/DVD applications with links to the Internet for continuous updating.

## Key Benefits

- Visual authoring is the most productive way to develop interactive CD- and Web-based multimedia applications. It is much faster to produce electronic courses, publications, and business applications by dropping icons onto the Authorware flowline and choosing actions from its libraries. There is no need to write scripts in a programming language as in other authoring tools.

- QuickStart templates and reusable course structure (learning engines) make it easy to create engaging interactive courses that promote high levels of understanding and retention. Using Authorware, trainers and educators can concentrate on the content of the courses they develop, rather than on programming.

- Multimedia and Web developers can quickly produce interactive multimedia applications for delivery on CDs or over the Web. Add advanced functionality through ActiveX controls as needed.

## File Format Support

### Windows

**Text:** ASCII, RTF

**Graphics:** BMP, DIB, RLE DIBS, GIF, JPEG, Photoshop 3, PICT, PNG, QuickDraw 3D, TARGA, TIF, WMF, xRes LRG

**Sound:** AIFF, PCM, Shockwave Audio (SWA), WAV (MIDI and CD-Audio supported through Microsoft Multimedia Extensions)

**Animation:** CEL, FLC, FLI, Director, DIB Sequence.

**Digital Video:** Video for Windows, QuickTime for Windows, MPEG

### Macintosh

**Text:** ASCII, RTF

**Graphics:** BMP, DIB, EMF, GIF, JPEG, LRG, Photoshop 3, PICT, PNG, QuickDraw 3D, TARGA

**Sound:** AIFF, PCM, Shockwave Audio (SWA), WAV

**Animation:** PICS, Director

**Digital Video:** QuickTime for Macintosh

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## Visual Authoring

- Icon-based, drag-and-drop interface
- Intuitive flowline and icons
- Easy-to-use menus
- Ten different built-in response types or user interactions
- Hyperlinks to link text, digital movies, graphics, and sounds
- Built-in button editor for creating custom graphic buttons, check boxes, and radio boxes with separate states, sounds, text, and custom cursors
- Extensive text handling, including import and edit of RTF with styles, full search and retrieval/search and replace, among many other features

## Internet/Intranet Authoring

- Incorporate Shockwave files, including Director 6 movies, Flash animations, and audio, in Shockwave Authorware applications.
- With ActiveX, Authorware applications can be Web browsers, playing HTML pages.
- Include real-time, streaming video in Authorware applications with Oracle Video Server support.

## Extensibility

- Incorporate any ActiveX control, displaying properties, methods, events, and other information, into your Authorware applications.
- Add Sprite, Scripting, and Transition Xtras to the Authorware flowline as custom icons for file access, text handling, QuickDraw 3D, and VRML support.
- Extended calculation scripting for multidimensional arrays that provide an efficient way to manage lists of objects.
- Authorware is now optimized for the Intel MMX processor.

## Web Delivery

- Streaming Shockwave technology for fast playback across intranets
- Compression and streaming of sounds, animations, graphics, and text
- Display Web-based productions full-screen or inside a browser
- Interactions, hypermedia, and data tracking
- Create hybrid CD/DVD+Web applications using local and remote media

## Data Tracking

- Powerful data tracking to capture and store user interactions and responses
- Hundreds of common variables and functions for scripting ease

## Content Management

- Create reusable structure templates, add or replace media without modifying your application.
- Store media within an application, combine media in libraries, or reference external media in files or URLs.

## Open Architecture

- Add Macromedia Open Architecture (MOA) Xtras™ to plug-in new features, such as transitions, database links, and QuickDraw 3D support.
- Call to ActiveX controls from Authorware applications.
- Use ODBC drivers for Windows and Macintosh to connect directly from Authorware with the most popular databases.

## Author Once, Publish Anywhere

- Deliver applications on diskette, hard disk, CD-ROM, DVD, and over corporate networks, intranets, and the Internet
- Windows and Macintosh authoring and playback

## High-productivity Authoring

- Incorporate media elements directly into Authorware files or store them externally in their native file formats and link the application to them.
- Use the external Media Browser to locate, view, and manage links to external media. Move media elements without breaking their links to applications.
- Manage, edit, and substitute images in their native format. Resize, scale, and crop displayed images.
- Authorware 4 files are compressed to be 50 - 75% smaller than version 3.5 files.
- Author a single file that runs on both Windows and Macintosh platforms.
- Create and test an application on Windows that also runs on the Macintosh (and vice versa) without the other version of Authorware.

## Ease of Use

- New property dialog boxes provide a consistent way to access and modify icon behavior.
- Drag and drop external files and URLs onto the Authorware flowline.

- Use QuickStart templates to author educational applications.
- All-new portfolio models and templates help you understand concepts by working with them. Authorware templates for CBT provide ready-to-use Learning Engines.
- Enhanced online help has live links to www.macromedia.com.
- The new Authorware Developers Center on www.macromedia.com covers all aspects of working with Authorware, including developing Shockwave content.

## System Requirements
### Authoring

**Windows**

- 486/66 processor or faster including Intel Pentium® processor
- Windows 95, Windows NT 3.51 and 4.0
- 16+ MB of RAM
- CD-ROM drive
- Monitor that supports 8-bit SVGA color at 640x480 resolution or higher
- Sound Blaster-compatible sound card
- QuickTime for Windows and AVI support

**Macintosh**

- Macintosh 68040 or faster, including Power Macintosh
- Macintosh 7.5.1 or later
- 16+ MB of RAM
- CD-ROM drive
- Monitor that supports 8-bit color at 640x480 resolution or higher
- Recording 16-bit audio requires a Macintosh AV, Power Macintosh, or sound card

### Playback

**Windows**

- 386/25, 68020, or faster processor, including Intel Pentium® processor
- Windows 3.1, Windows 95, Windows NT 3.5.1, Windows NT 4.0
- 8 MB of RAM; 12 MB recommended

**Macintosh**

- 68020 or faster processor, including Power Macintosh
- Macintosh 7.5.1 or later
- 8 MB of RAM; 12 MB recommended

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