

Incorporating Automated Testing into your Web Accessibility Strategy

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Web Quality & Compliance Challenges

- ▶ **How do you Educate your organization on Compliance issues?**
 - Developers, Content Providers, Business Owners etc.
- ▶ **How do you Audit thousands of Web Pages?**
 - Accessibility, Privacy and Security Exposure
 - Regulatory Requirements
 - Brand Risk and Potential Litigation
- ▶ **How do you Enforce Specific Content Standards?**
 - How does you know which groups are meeting their requirements?
- ▶ **How do you Measure for Site Quality Standards**
 - How does you know if sites meet internal standards?
 - Are sites meeting customer experience requirements?



Website Expansion

- ▶ 2006 – 1b users of web
- ▶ Internet traffic growing – 115% annually
- ▶ 750,000 new web-sites per month
- ▶ Information Expansion
 - Entry points /Content providers/Forms/Languages









Defining the Problem

Many organizations have fallen prey to the exponential growth of electronic information because their documents are scattered about individual PC's, workgroups, and entire enterprises with little or no controls in place to monitor content for compliance with corporate standards for Accessibility, Privacy, Searchability and Usability.

When these standards can be structured and implemented they have great value. However, implementing a solution to accomplish this task has been cost-prohibitive to most organizations.



Site Quality Factors

-  **Accessibility and Usability**
-  **Searchability**
-  **Privacy**
-  **Site Quality**
-  **Metadata Policy**
-  **Custom Checks-Corporate Standards**



Accessibility Standards for the Web

Section 508, Subpart B, §1194.22

Part of the Rehabilitation Act Amendments of 1998

Published by the U.S. Access Board

Web Content Accessibility Guidelines

Created by the W3C[®], or World Wide Web Consortium

Guidelines have been assigned Priority Levels

“Priority 1” guidelines are essential for accessibility



What is Accessibility?

- **True usability for *everyone* – including those with disabilities**
- **Widespread Benefits**
 - ✓ improve the product for all users

Fundamental requirement just like:

- 
- ✓ **Security**
 - ✓ **Globalization**
 - ✓ **Anti Piracy**
 - ✓ **Performance**



Accessible Technology

Assistive technologies can “translate” information to the user, but only if the information is text-based. An automated screen reader, for example, is programmed to read text.

This means all Web elements must have text equivalents:

- **Images, multimedia, sounds**
- **Tables, frames**
- **Scripts, applets, objects**
- **Color**
- **Style sheets**
- **Electronic forms**



Improving the Web for everyone

- ▶ **Accessibility laws are making Web-based information user-friendly for all users. Compliance with these standards, not only assists users of assistive technologies, but also can improve access to the Web for hand-held, wireless devices.**
- ▶ **These laws are based on best practices for Web authoring and information technology. While many of the laws directly benefit users with disabilities who might rely on assistive technologies to view information, the laws benefit everyone.**



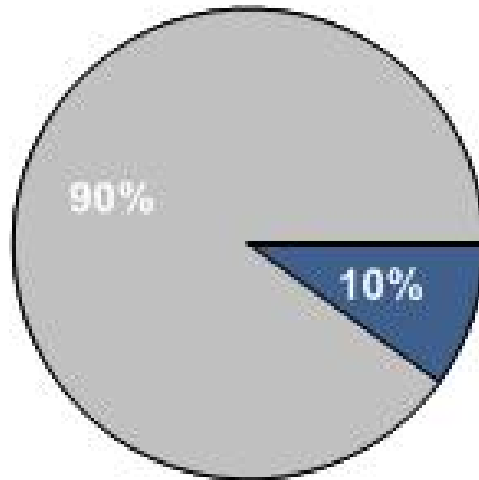
Why you should be accessible?

Developers and marketers often ask, “Why should our site and applications be accessible?” Aside from any legal or statutory requirements, the answer to this question is simple - offering equal access to disabled users is compelling, and for many reasons:

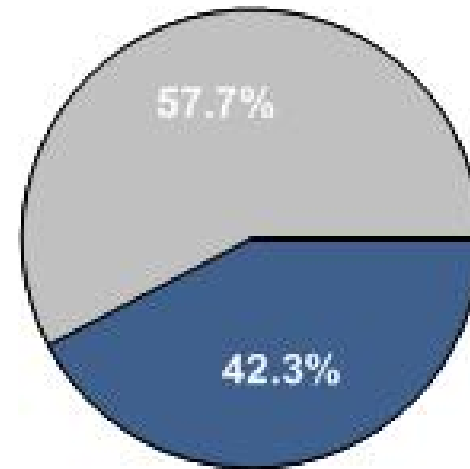
- › **Build your user base**
- › **Take a position of leadership in your industry**
- › **Grow your loyal customer base**
- › **The cost of retro-fitting is much higher**
- › **It simply makes good business sense**
- › **It is the right thing to do at a minimal cost**

The changing world...

- ▶ **20% of Americans have disabilities**
(U.S. Department of Labor)

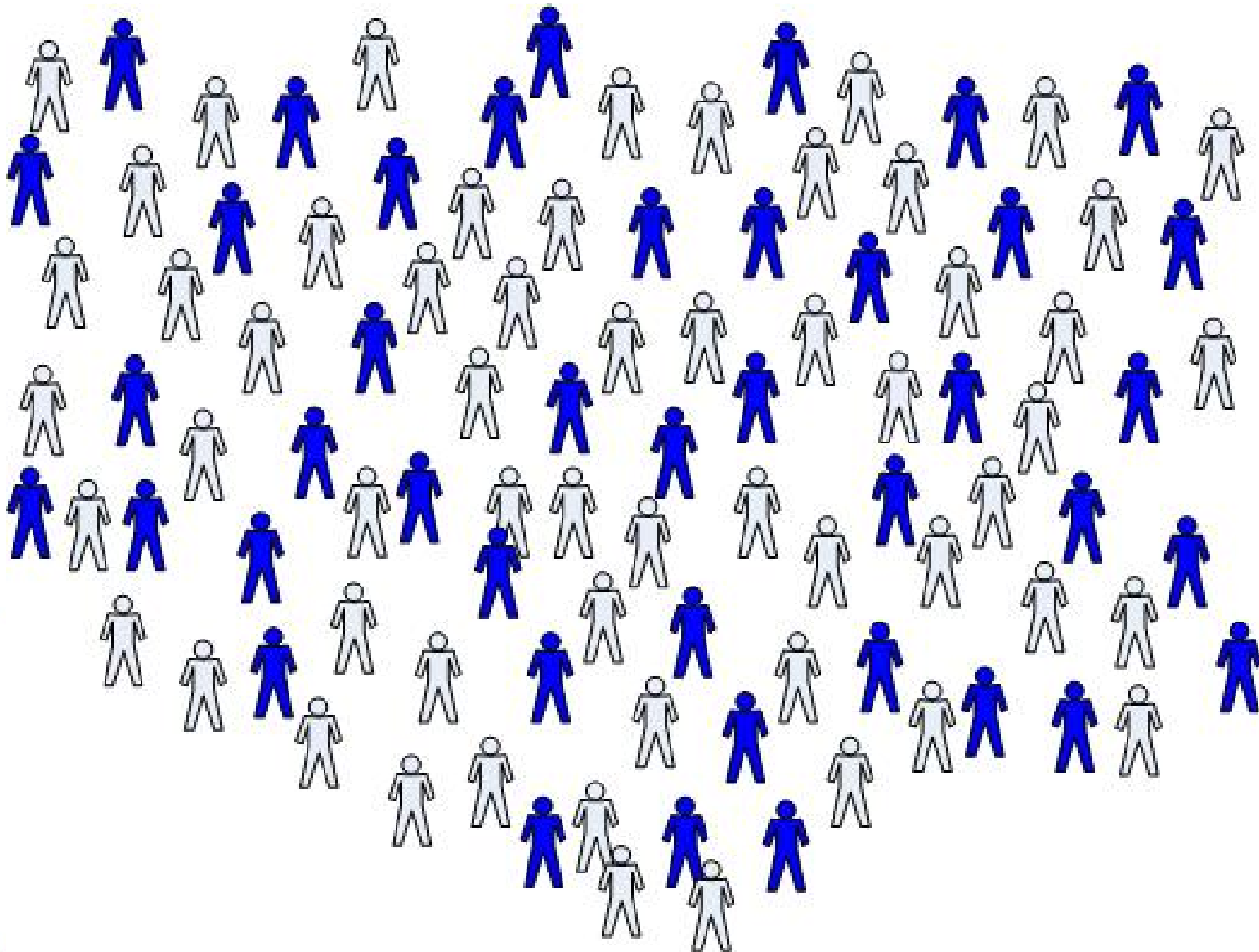


25-34



65-74

Imagine the world in someone else's shoes



The aging workforce



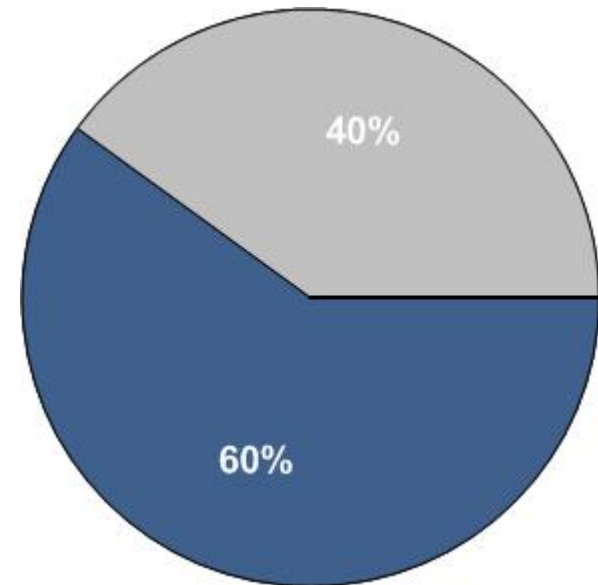
HOW TO MANAGE AN AGEING WORKFORCE



- ▶ **“In the United States, the number of workers aged 55-64 will have increased by more than half in this decade, at the same time as the 35- to 44-year-olds will decline by 10%” (p. 65)**
- ▶ **Bottom Line: Companies must expect to retain, recruit, and hire more workers older than 65--- over 42.3% of whom will have disabilities.**
- ▶ **Is your intranet and web-based applications accessible?**

Accessible design helps everyone

- ▶ **Forrester Research Inc. (2003)**
 - **Studied effect of accessible technology for general population (with or without disabilities)**
 - **“In the United States, 60% (101.4 million) of working-age adults who range from 18 to 64 years old are likely or very likely to benefit from the use of accessible technology.”**
(full study available at <http://www.microsoft.com/enable/research>)



California State University- San Marcos ADA Project Team

CSU San Marcos Challenges

- ◆ CSU-San Marcos provides courses for over 6,000 students annually-online-course material must follow University accessibility (508 and W3C)-school created pilot program (ADAPT) to create a working model for ensuring the accessibility of all online instruction
- ◆ Needed the ability to navigate through the complexities of Web based courses created as composites of different authoring tools
- ◆ Most accessibility solutions only worked for Web sites, and many required entry of a single page at a time

HiSoftware's Solution

- ◆ HiSoftware AccVerify/AccRepair (user-driven interactive desktop solution)

Benefits

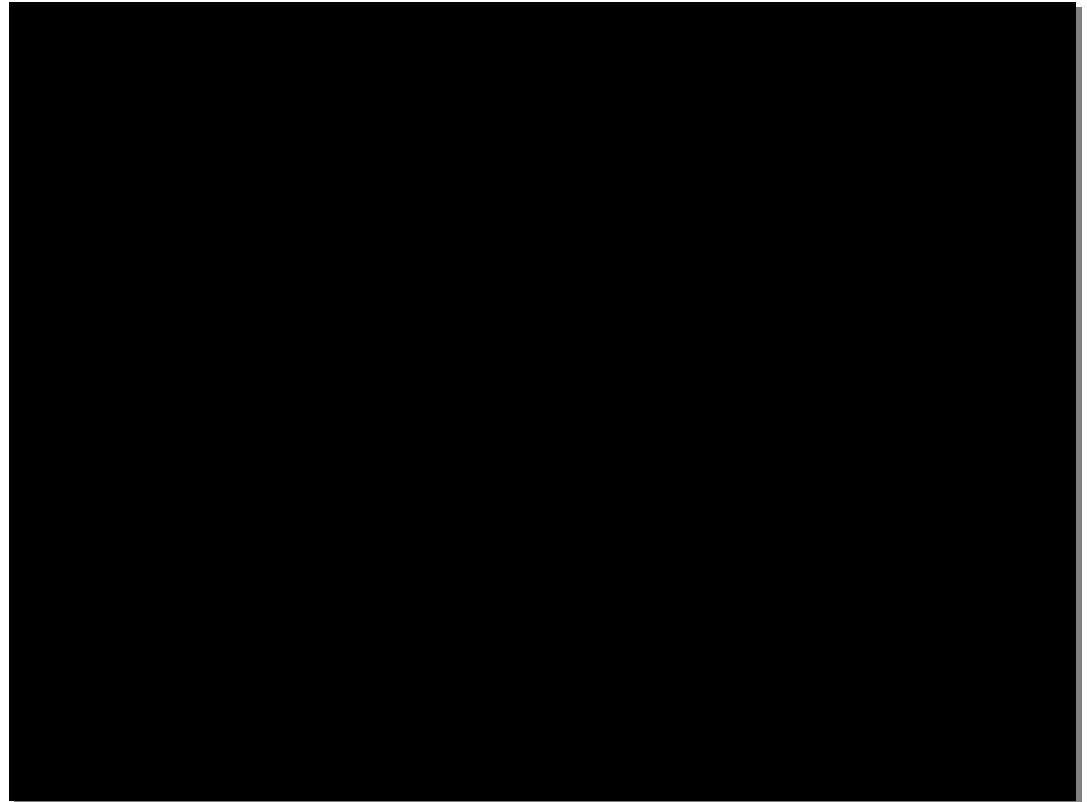
- ◆ The software testing and remediation solutions are allowing the project team to provide concrete feedback to their Web Course developers, and at the same time create an audit trail for the project- so that they will be able to show the benefit of their work for the next funding cycle.
- ◆ Provided the ability to conduct large scale testing, to create course based reports, to provide feedback to instructors in a reporting format that is clear and easy to understand, and to create an audit trail for our accessibility pilot program

It's good business and the market will reward you

*"The world is harder when it is
not conceived for you"*

*"From now on, spaces at EDF are
accessible to everyone"*

"When your world lights up: EDF"



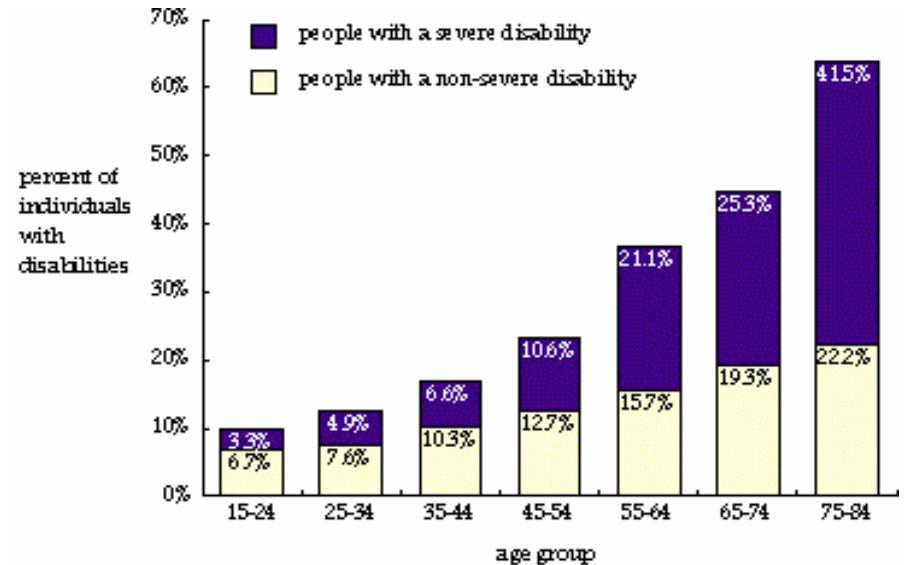
2005 Public Choice Award

http://www.ad-awards.com/commercials/winners/2005/public-s_choice/edf/commercials-1-104.html

Barriers to Access

Users may have:

- Learning difficulties
- Language fluency problems
- Hearing impairment
- Vision impairment
- Dexterity restrictions
- Work area restrictions
- Mobile access, such as in an automobile
- Disabilities that increase with age



Barriers to Access

Non-target medium

- Computer screen – desktop CRT or LCD or laptop computer LCD
- Teletype – a pager, cell phone, or a text browser on a regular computer
- Television – WebTV
- Projection systems
- Handheld devices – Palm computer or Pocket PC
- Printed on paper



Barriers to Access

“Common” devices

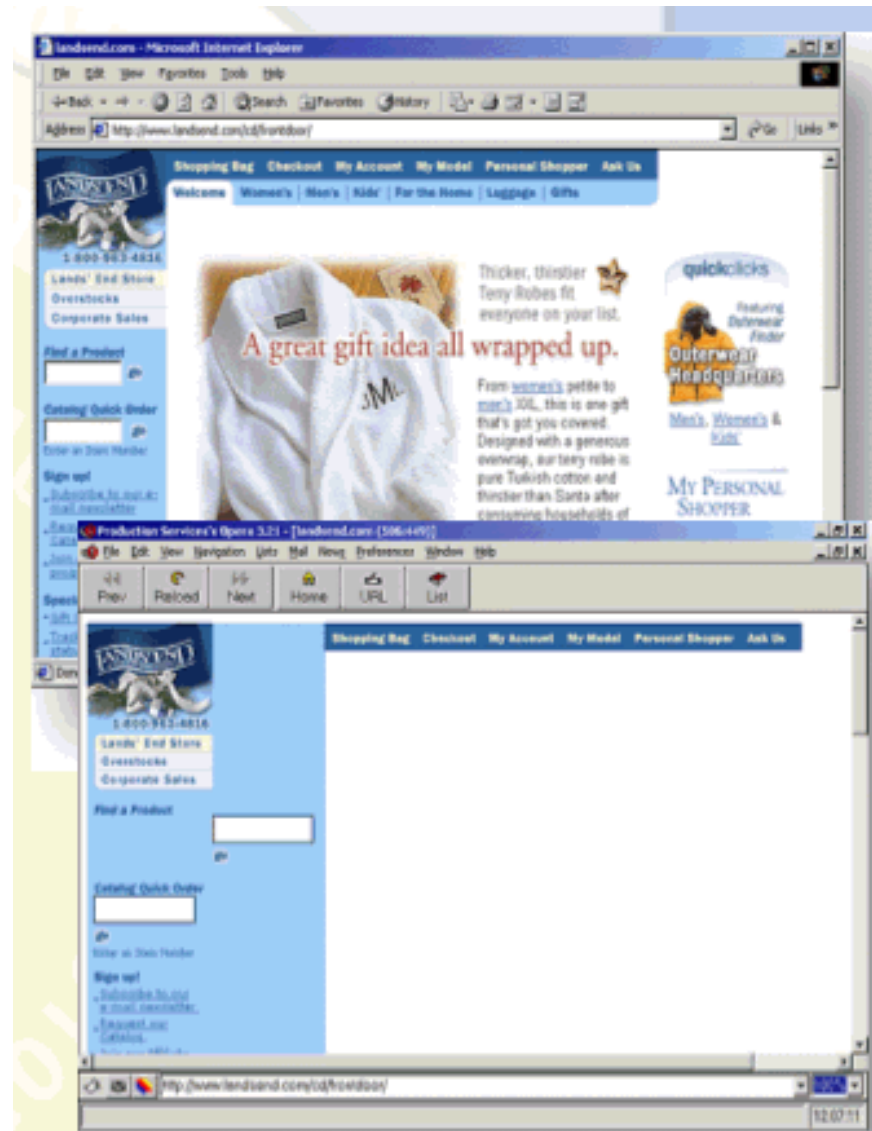
- Pagers
- Handheld computers
- Cell phones



Non-Target Browser

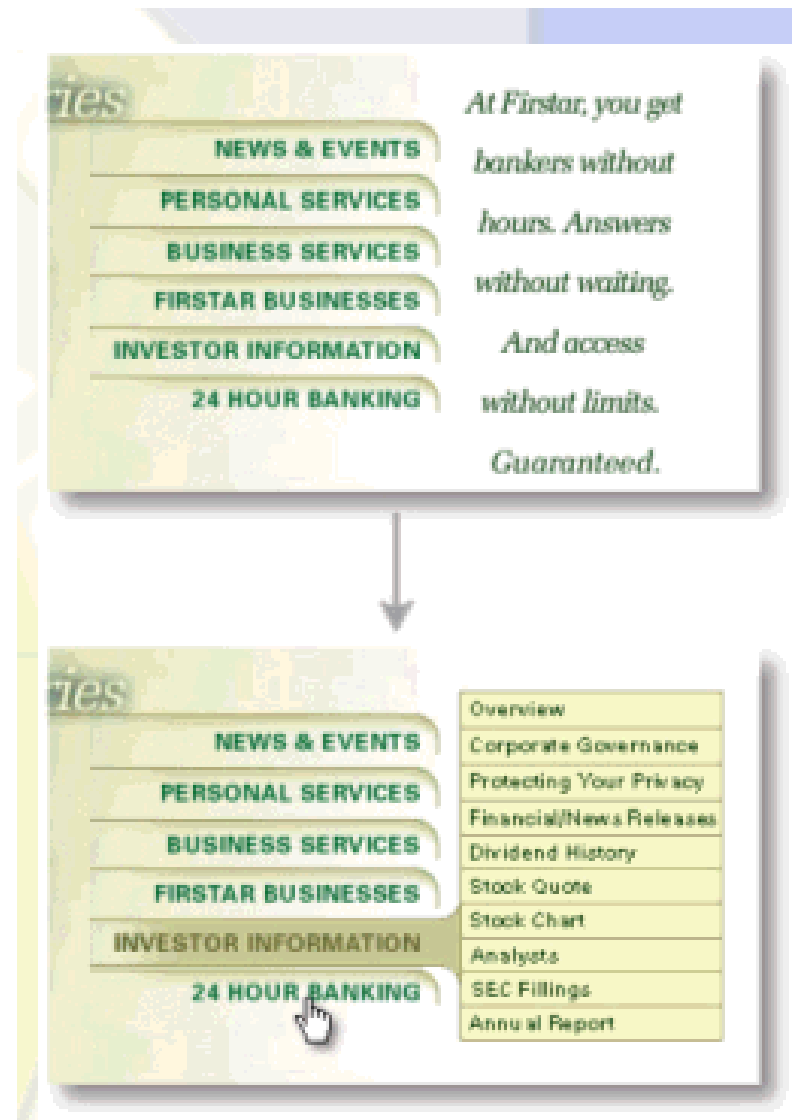
What's wrong with this page?

- Not everyone uses Microsoft/Netscape
- Other browsers may show unexpected anomalies
- The page using Opera →



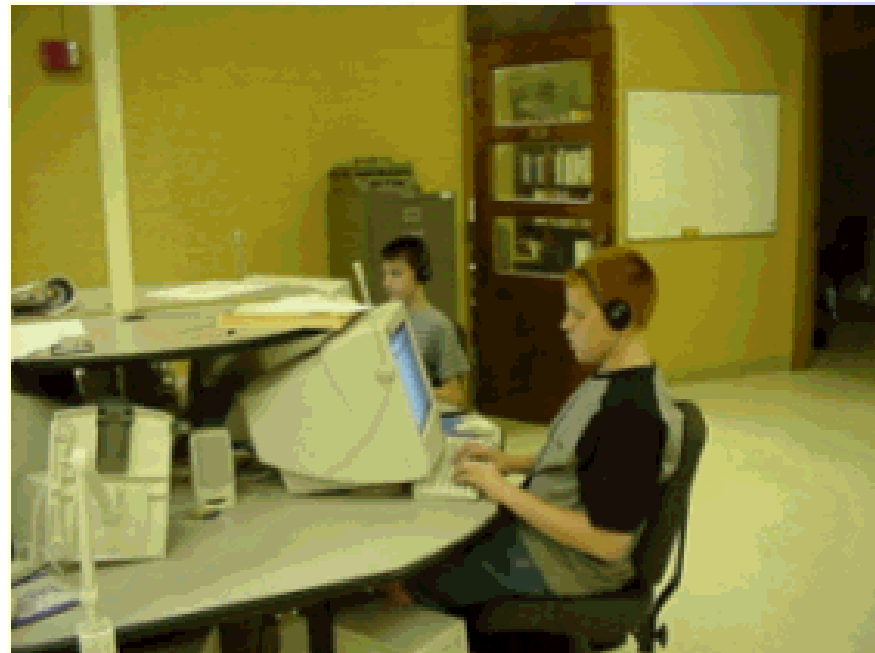
Interaction Problems

- Scripting, Java, plug-ins, and cookies don't work on special access browsers
- Won't work with screen reader
- No keyboard equivalent



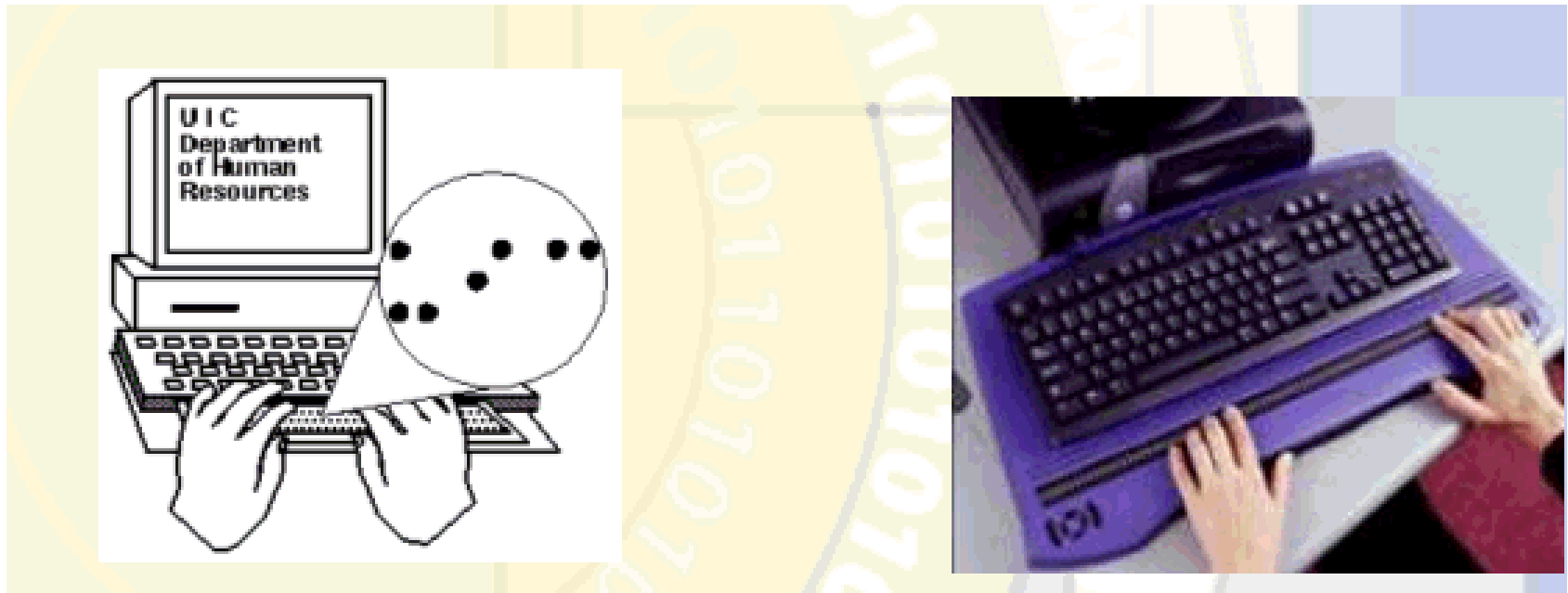
Assistive Technology (AT): Screen Readers

- **Synthesized voice output**
- **Reads text on screen and keystrokes entered**
- **Reads icons, menus, punctuation, link/button labels**



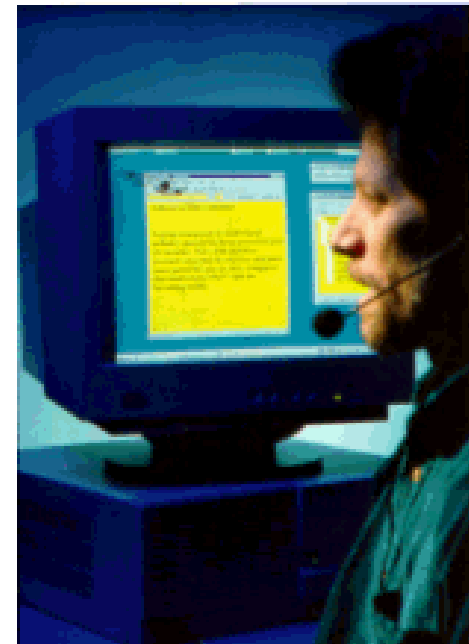
Assistive Technology (AT): Braille Readers

- **Dynamic or refreshable Braille**
- **Mechanical pins are raised or lowered to display Braille characters**
- **Navigate with an up/down key**



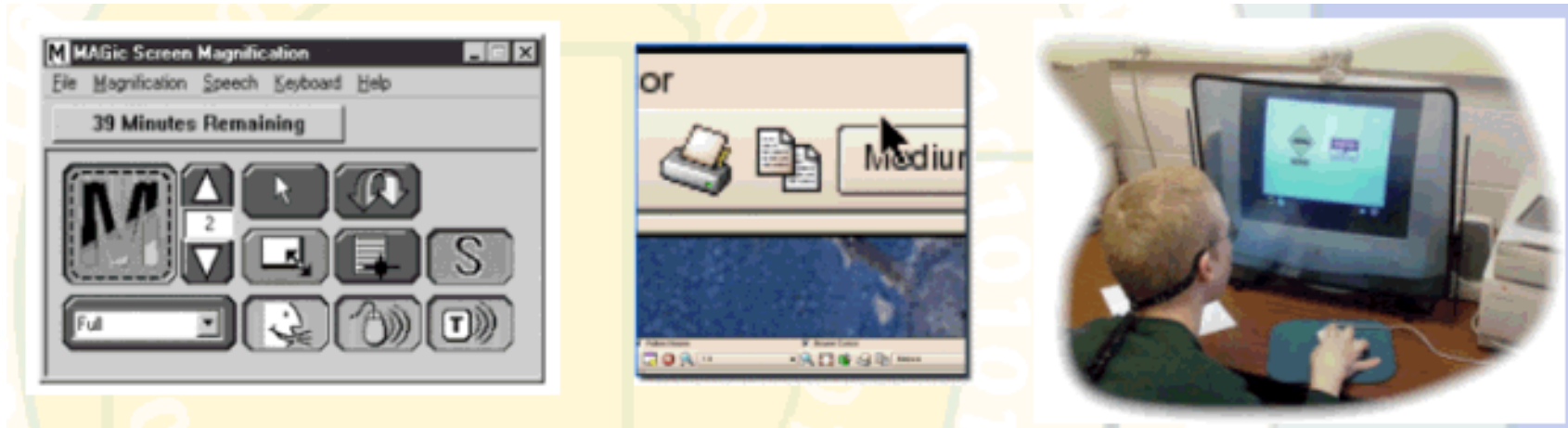
Assistive Technology (AT): Speech Recognition

- **Voice browser input method (speech-to-text)**
- **Hands-free use**
- **Used by people with physical disabilities or temporary injuries**
- **Hard to get used to it**
- **Multi-language**



Assistive Technology (AT): Screen Magnifiers

- Enlarges screen
- For low-vision people





Design Guidelines for Accessibility

- **Content vs. presentation**
- **Text equivalents**
- **Navigation**
- **Links**
- **Pull-down menus**
- **Tables**
- **Movement**
- **Writing style**



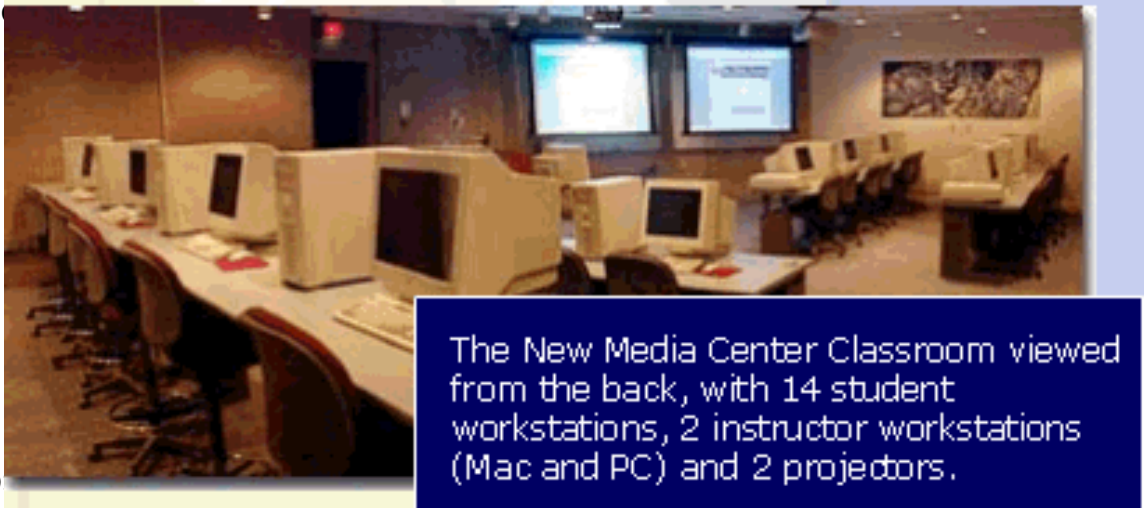
Content vs. Presentation

- **First decide what the content will be**
- **THEN design an accessible presentation**

Text Equivalents

- ▶ **Text is accessible to almost all users.**
- ▶ **Provide text or ALT tabs to describe:**

- Complex pages or elements
- Images
- Photographs
- Graphical button labels
- Auditory content
- Multimedia
- Applets
- Links within image maps
- Invisible layout images
- Any text images
- Symbols
- Animation



The New Media Center Classroom viewed from the back, with 14 student workstations, 2 instructor workstations (Mac and PC) and 2 projectors.



Writing Text Equivalents

Accessibility with regard to Web content has two meanings:

- A user can obtain that content.
- A user can understand that content.



Text equivalents are necessary for non-text elements, multimedia elements, tables, frames, and scripts.

Navigation

- ▶ Help users create a “mental map” of the site structure.
- ▶ Navigation should be consistent and predictable.
- ▶ Provide orientation information: Describe navigation with text.
- ▶ Provide search and site map.

- Link text must be informative
- Group similar links, and provide a descriptive header for the group



The screenshot shows the ITAL website header and main content. The header includes the text "Institute for Technology and Learning at The University of Texas at Austin" and the ITAL logo. A navigation menu on the left lists: Home, Training, Consulting, Research, Helpful Links, News, TX2K, About ITAL, and Contact Us. The main content area features the heading "ITAL: Learning for Everyone" followed by "Web Accessibility Consulting". Below this, it states "ITAL offers free Web accessibility consulting to UT Web developers. We can help you!" and lists three services: "Web accessibility site reviews", "Design consultations for new projects and redesigns", and "User testing in our fully-equipped AccessFirst Design & Usability Studio". A call to action says "For more information, visit our [Web accessibility page](#). To request a consultation, please complete the [Consulting Request Form](#)." The section ends with "Web Accessibility Training" and a note: "Effective January 1, 2003 all new or revised Web pages published or hosted by the University must be in compliance with the University's".

Links

- Mental model is created via links
- Must be descriptive
- Must make sense *out of context*



College Library New Media Center

[\[Design Lab\]](#) [\[Classroom\]](#) [\[Classroom Request\]](#) [\[Classroom Calendar\]](#)





Pull-Down Menus (and Cascading Menus)

- **Concise and literal labels**
- **Selections in logical order or alphabetical order**
- **First letter navigation (shortcuts)**
- **No automatic re-direct to a new page when an item is selected**
- **Cascading menus are not accessible to screen readers, and may require mouse (inaccessible to some physically disabled users).**

Tables

- Very problematic for screen readers
- Hard for disabled user to remember column and row headers when "reading" column 5, row 9
- Provide summaries and descriptions
- Use column and row headers
- Make line by line reading sensible

Per Diem rates for CALIFORNIA Effective October 1, 2002						State Tax Exemption List	Standard CONUS Property List
Per diem locality <small>(Cities not listed or located in listed counties have a Standard CONUS rate of \$65 Lodging & \$30 M&IE)</small>		Maximum lodging (excludes taxes) (a)	+	M & IE rate (b)	=	Maximum per diem rate (4) (c)	Property Listing Update
Key city (1)	County and/or other defined location (2, 3)						Properties at Per diem
Clearlake (May 5 - Sep 30) (Oct 1 - May 4)	Lake	85 69		34 34		119 103	Prop. List Prop. List
Contra Costa County	Contra Costa	108		46		154	Prop. List
Death Valley	Inyo	60		46		106	Prop. List
Fresno	Fresno	73		34		107	Prop. List



Movement

- **Very problematic for users with cognitive challenges**
- **Inaccessible to most screen readers**
- **Until users are able to turn off movement, do not use movement on pages**
- **Avoid:**
 - **Blinking**
 - **Flashing**
 - **Scrolling marquees**
 - **Auto-updating**
- **Provide text equivalents that are synchronized to the movement**



Writing Style

Suggestions to make content easier to read *for everyone*:

- **Informative and accurate headings, link titles, button labels**
- **Inverted pyramid: State topic at beginning of article**
- **Front loading: State topic at beginning of paragraph**
- **Limit each paragraph to one idea**
- **Consistent page layout**
- **Easy-to-understand content (clear and simple)**
- **Avoid slang, jargon**
- **Favor commonly used words**
- **Active voice**
- **Avoid complex sentence structures and unusual displays of text**



Where can software help? Designing the Solution

Content quality testing solutions should provide a combination of user-driven interactive desktop solutions that allow developers to test their content for conformance with standards, and server side applications that allow for automated and remote testing.

They should also provide a comprehensive interface for testing content against standards for Accessibility, searchability and any custom content quality factor, allowing an organization's experts and/or policy managers to define content policies and then provide a solution to validate compliance with these policies.



Testing for Accessibility-What automated tools cannot do

- ▶ An automated testing tool can be used to test your site or groups of documents in an unattended manner once they are configured. It is very important to remember that “NO” tool alone can validate the absolute accessibility of your web site.
- ▶ However a good tool can identify a majority of what needs to be verified visually. Additionally a good tool will let you know what pages do not need to be verified visually, based on the absence of elements that require visual verification. Remember: You will still need to assure that all visual checkpoints identified by the solution are accessible.



Looking Forward

An accessibility strategy will provide your organization with the ability to view accessibility from a project management perspective. This will enable your organization to:

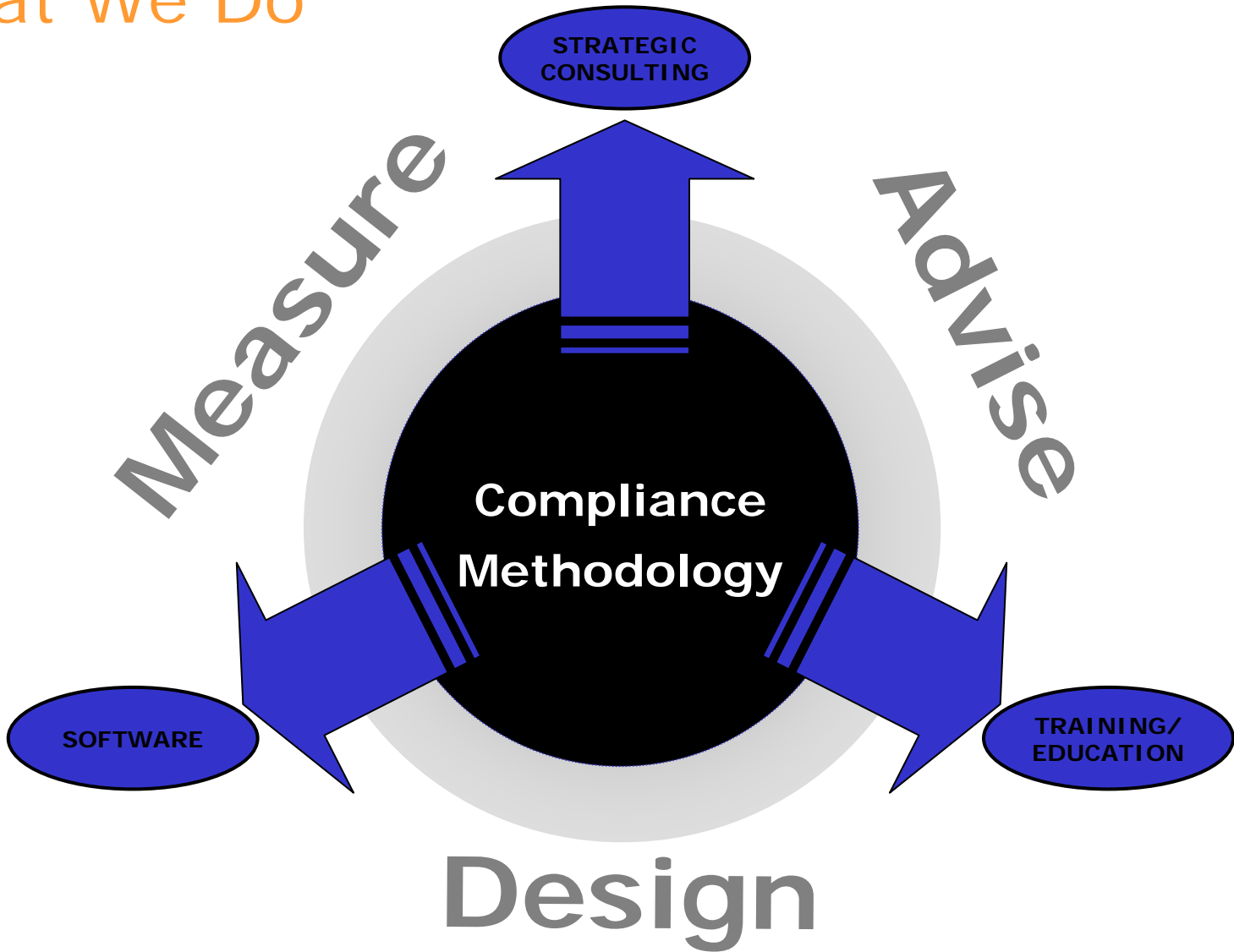
- ▶
- ▶ Allocate resources appropriately
- ▶ Track site progress
- ▶ Educate employees
- ▶ Identify problem areas
- ▶ Integrate accessibility into quality assurance and content delivery processes
- ▶ Keep a historical view of your Web site accessibility work



A Phased Approach

- ▶ Developing a plan – Performing a site assessment, setting your organizations goals, and setting design guidelines and standards.
- ▶ Implimenting your guidelines – Training developers and retrofitting current content. All new content development should be performed based on your organizations new guidelines and standards.
- ▶ Accessibility testing – Complete testing to assure that you have complied with your new guidelines and standards.
- ▶ Accessibility maintenance – Evaluate results, automate verification of accessibility guidelines and standards.

What We Do





HiSoftware Technology Partners

Microsoft Corporation and HiSoftware have teamed on a variety of initiatives including a series of educational sessions focused on accessibility and content quality for our mutual Federal, State and local Government customers. HiSoftware's solutions integrate with Microsoft FrontPage, Office, SharePoint Portal Server and Content Management Server.

Mercury Interactive and HiSoftware's have partnered to integrate content quality and accessibility testing into Mercury's QA test management process. HiSoftware's solutions are available as plug-ins for Mercury Interactive's WinRunner, Quick Test Professional, TestDirector®, Topaz and SiteScope.

Macromedia and HiSoftware have partnered to integrate HiSoftware's accessibility test, remediation and captioning solutions to ensure the accessibility of Macromedia® Flash™ content and applications

To whom is this important? Corporate and Federal





Software Tools

AccVerify

Verifies Web site policy compliance

-Desktop solution

AccRepair

Verifies policy compliance and makes Wizard-guided repairs to Web content

-Desktop solution

AccMonitor

Verifies policy compliance for live Web files and Repairs files through file management system

-Automated server solution with Web based interface and platform independent verification



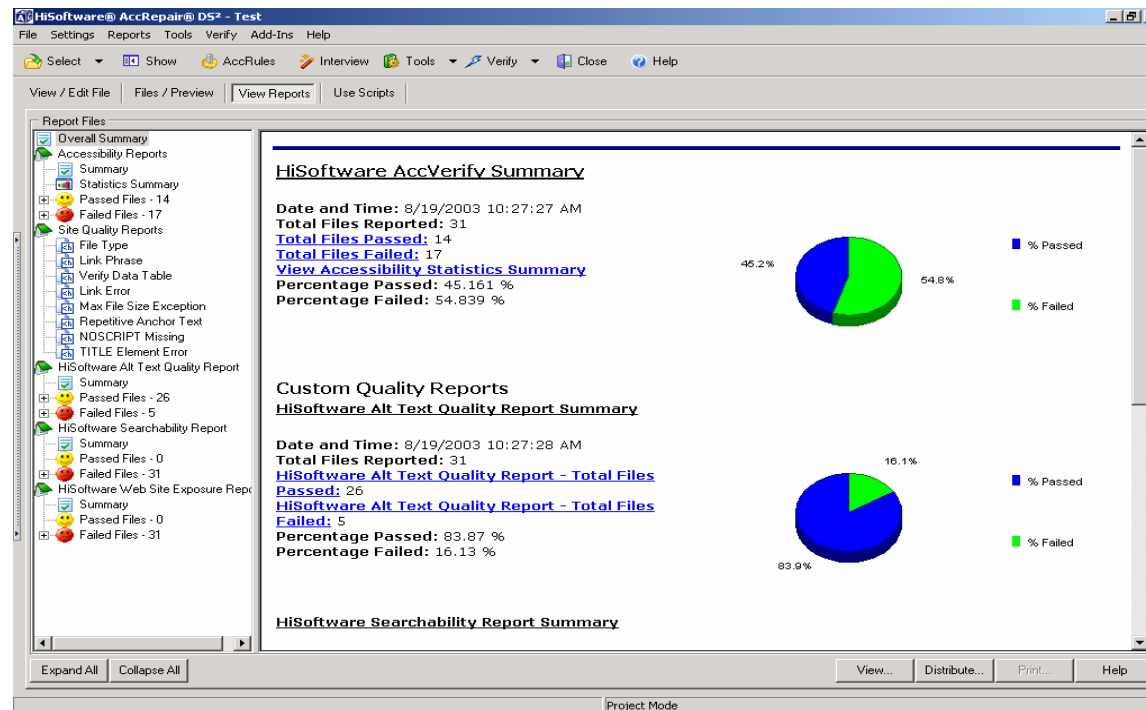
Verifying Compliance

HiSoftware solutions create and capture all of the tests that users run against their Web content. This includes the results of manual/visual inspections! This enables users to:

- Identify the compliance status of a Web project on demand for a specific point in time via the History feature
- Track the progress of the project over time via the History feature
- Work in collaboration with team members

Easy Access to Reports

The Report Manager allows for easy access to reports from within a digital dashboard interface.



Statistics Summary Reports

The screenshot displays the HiSoftware AccRepair@ D52 - Test application window. The interface includes a menu bar (File, Settings, Reports, Tools, Verify, Add-Ins, Help) and a toolbar with icons for Select, Show, AccRules, Interview, Tools, Verify, Close, and Help. Below the toolbar are tabs for View / Edit File, Files / Preview, View Reports, and Use Scripts. The main window is divided into a left-hand 'Report Files' tree and a central report content area.

Report Files

- Overall Summary
- Accessibility Reports
 - Summary
 - Statistics Summary
 - Passed Files - 14
 - Failed Files - 17
 - Site Quality Reports
 - File Type
 - Link Phrase
 - Verify Data Table
 - Link Error
 - Max File Size Exception
 - Repetitive Anchor Text
 - NOSCRIPT Missing
 - TITLE Element Error
 - HiSoftware Alt Text Quality Report
 - Summary
 - Passed Files - 26
 - Failed Files - 5
 - HiSoftware Searchability Report
 - Summary
 - Passed Files - 0
 - Failed Files - 31
 - HiSoftware Web Site Exposure Rep...
 - Summary
 - Passed Files - 0
 - Failed Files - 31

HiSoftware AccVerify Accessibility Statistics Summary
Date and Time: 8/19/2003 10:27:28 AM
Total Files Reported: 31
Total Files Passed: 14
Total Files Failed: 17
[Back to Summary Report](#)

Accessibility Statistics Summary

Image Summary Images: 17 Images without Alt attribute: 14 Images with Alt attribute: 3 Images with blank Alt attribute: 0 Images with null Alt attribute: 0 <i>Image Counts by file extension:</i> .gif = 16 .jpg = 1	Form Summary Forms: 3 Forms with Labeled Controls: 0 Forms with Inputs using the Alt attribute: 0 Forms without Input elements: 0 Forms with Input Images not using the Alt attribute: 1 Forms without any use of TabIndex: 3 Forms without any use of AccessKey: 3
Table Summary Tables: 9 Tables with Summary attribute: 0 Tables with Caption: 0 Tables with Summary and Caption: 0 Data Tables: 5	Frame Summary Frames: 6 Frames without Title Attribute: 6 IFrames: 2 IFrames without element content: 2
Object Summary Objects: 7 Objects without element content: 4	Script Summary Script Elements: 2 Pages using Script Elements: 1 Pages using Script Elements without NOSCRIPT: 1
	Link Summary Links with the phrase "Click Here" in the link text: 0

Expand All Collapse All View... Distribute... Print... Help

Project Mode

The Statistics Summary Report provides a statistical overview of the accessibility status and content quality of a group of Web files.

Additional Reports include Alt text quality

HiSoftware Alt Text Quality Report for <http://www.hisoftware.com> - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss AIM RealGuide Messenger

Address C:\Documents and Settings\Danalouise\Local Settings\Temporary Internet Files\OLK6\AltTextQuality_.htm Go

Links My Yahoo! Yahoo! Mail Yahoo! News Yahoo! Sports Best of the Web Channel Guide Customize Links Free HotMail Internet Start Microsoft

HiSoftware Alt Text Quality Report

Verified File Name: <http://www.hisoftware.com>
Date and Time: 12/26/2002 8:57:30 AM
Passed Automated Verification

Verification Checklist

Checkpoints	Passed		
	Yes	No	Other
<p>1.1 Validate that the alt text does not use the word image When users add alternative text to an image they tend to add the word "Image" when it really says nothing about the image, but describes the object versus the meaning of the object. This check will fail a page for the use of the word image in the alternative text.</p> <p>Image alternative text does not contain the word "Image"</p>	Yes		
<p>1.2 Validate that the alt text does not contain the text: .jpg, .gif, .bmp, .jpeg Many content creation tools will automatically add alternative text when you add an image to your content. The text is generally the image name. Validate that: .jpg, .gif, .bmp, .jpeg, are not found in the alt text.</p> <p>Image Alternative Text does not contain: .jpg, .gif, .bmp, .jpeg</p>	Yes		
<p>1.6 Validate that the alt text does not contain the text "image" Many content creation tools will automatically add alternative text when you add an image to your content. The text is generally the image name or the word image with a number associated, like image001. This checkpoint will fail a page if the string image is found in the alternative text.</p> <p>Image Alternative Text does not contain the text "image"</p>	Yes		
<p>2.1 Validate that Alternative Text is greater than 7 and less than 81 characters in length Short alternative text may not be valid, warn the report user if alternative text was found that is less than seven characters in length. Additionally alternative text should not be larger than 80 characters, if the alt text is greater the long description attribute should be used. This check validates that the alt attribute does not exceed 80 characters in length.</p> <p>The alternative text failed the minimum/maximum allowed characters check</p>			Warning

Internet

Metadata Policy

HiSoftware MetaData Policy Report
Verified File Name: <http://www.hisoftware.com>
Date and Time: 12/26/2002 8:57:30 AM
Passed Automated Verification

Verification Checklist

Checkpoints	Passed		
	Yes	No	Other
<p>1.1 Validate that the robots meta tag exists You should have a robots tag in your head section that lets a search engine know that it is welcome to search and index your page. If you do not have this tag, some search engines may not crawl your site and index your pages.</p> <p>The robots tag passed as it contained an acceptable value</p> <ul style="list-style-type: none">Note - meta name="robots" Element at Line: 11, Column: 1	Yes		
<p>1.2 Validate minimum keywords length Your keywords meta tag should not be less than 200 characters. When you use less than 200 characters, you are most likely not taking advantage of a search engine's indexing capabilities. The keywords tag should contain between 200 and 1050 characters.</p> <p>The keywords tag passed the minimum allowed characters check</p> <ul style="list-style-type: none">Note - meta name="keywords" Element at Line: 10, Column: 1	Yes		
<p>1.3 Validate minimum description length Your description meta tag should not be less than 55 characters. When you use less than 55 Characters you are most likely not taking advantage of a search engine's indexing capabilities.</p> <p>The description tag passed the minimum allowed characters check</p> <ul style="list-style-type: none">Note - meta name="description" Element at Line: 9, Column: 1	Yes		

Searchability

HiSoftware Searchability Report
Verified File Name: <http://www.hisoftware.com>
Date and Time: 12/26/2002 8:57:31 AM
Passed Automated Verification

Verification Checklist

Checkpoints	Passed		
	Yes	No	Other
<p>1.1 Validate minimum keywords length Your keywords meta tag should not be less than 150 Characters. When you use less than 150 Characters you are most likely not taking advantage of a search engines indexing capabilities.</p> <p>The keywords tag passed the minimum allowed characters check</p> <ul style="list-style-type: none">Note - meta name="keywords" Element at Line: 10, Column: 1	Yes		
<p>1.2 Validate maximum keywords length Your keywords meta tag should not exceed 1055 Characters. When you exceed 1055 Characters some search engines may consider that you are trying to spam the engine. Additionally if the search engine mechanism uses keywords to index your page properly, you may be decreasing the accuracy of the search.</p> <p>The keywords tag passed the maximum allowed characters check</p> <ul style="list-style-type: none">Note - meta name="keywords" Element at Line: 10, Column: 1	Yes		
<p>2.1 Validate minimum description length Your description meta tag should not be less than 55 Characters. When you use less than 55 Characters you are most likely not taking advantage of a search engines indexing capabilities.</p> <p>The description tag passed the minimum allowed characters check</p> <ul style="list-style-type: none">Note - meta name="description" Element at Line: 9, Column: 1	Yes		

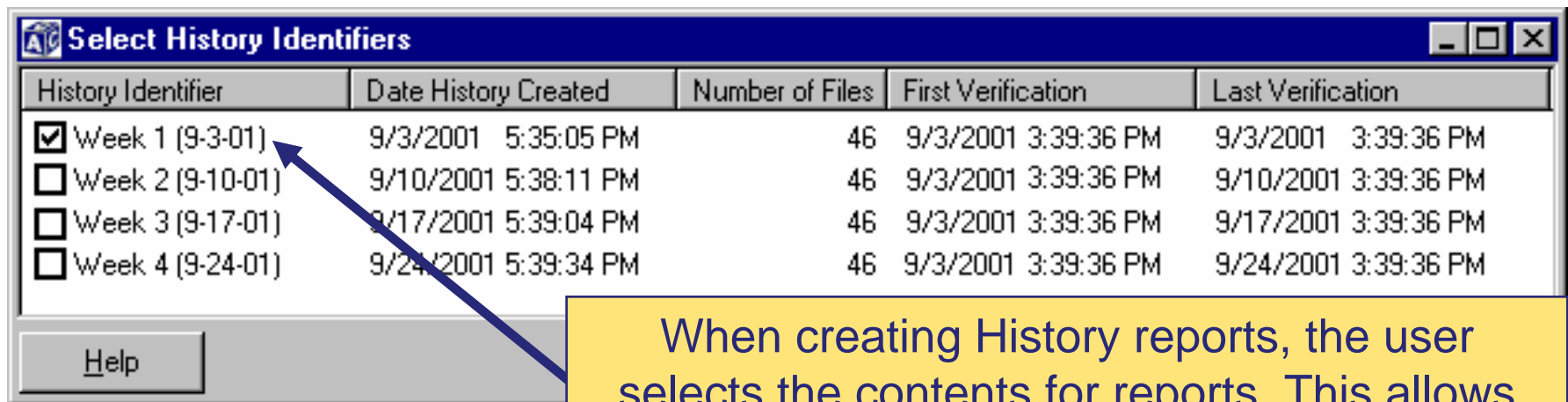


Recorder Capabilities

The Recorder is HiSoftware technology for tracking compliance efforts. Using the Recorder, the user can:

- Identify the status of a Web project on demand for a specific point in time via the History feature
- Track the progress of the project over time via the History feature
- Isolate Web accessibility information by Web elements, accessibility status, and advanced custom rules
- Collaborate with other users on your team by sharing results in a central location

History Reporting



The screenshot shows a dialog box titled "Select History Identifiers" with a table of history entries. A blue arrow points from a yellow text box to the first row of the table.

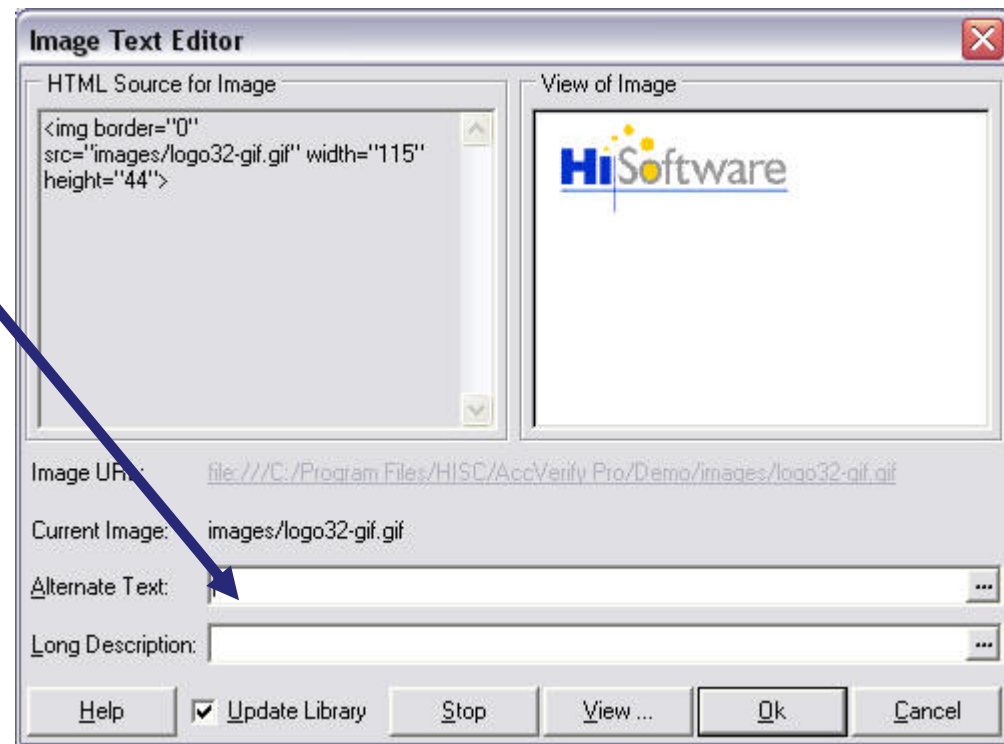
History Identifier	Date History Created	Number of Files	First Verification	Last Verification
<input checked="" type="checkbox"/> Week 1 (9-3-01)	9/3/2001 5:35:05 PM	46	9/3/2001 3:39:36 PM	9/3/2001 3:39:36 PM
<input type="checkbox"/> Week 2 (9-10-01)	9/10/2001 5:38:11 PM	46	9/3/2001 3:39:36 PM	9/10/2001 3:39:36 PM
<input type="checkbox"/> Week 3 (9-17-01)	9/17/2001 5:39:04 PM	46	9/3/2001 3:39:36 PM	9/17/2001 3:39:36 PM
<input type="checkbox"/> Week 4 (9-24-01)	9/24/2001 5:39:34 PM	46	9/3/2001 3:39:36 PM	9/24/2001 3:39:36 PM

Help

When creating History reports, the user selects the contents for reports. This allows the user to identify the Web accessibility status for any point in history. Here, a Web accessibility project is identified by weekly phases.

Step 2: Repairing the Web

The Wizard prompts the user to correct Web elements. For images, the user views the image and enters alternative text or a long description.





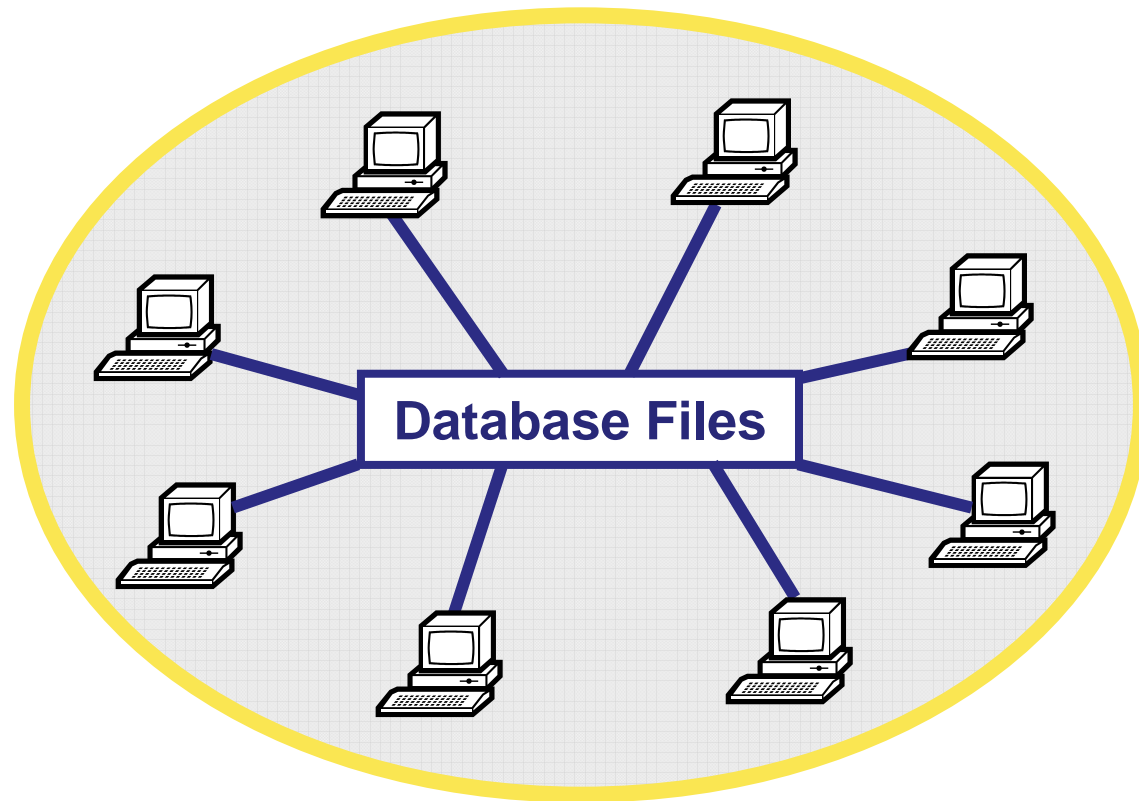
Understanding the Database Technology

When the AccRepair Wizard fixes a Web element, it stores the information in a database. Then AccRepair “remembers” the element and fixes it automatically the next time it occurs.

HiSoftware databases allow integrators to create custom solutions. ODBC databases allow developers to create their own company-specific solutions.

Developing a Team Strategy

Team members can collaborate on a Web project by sharing both Recorder and AccRepair databases—this multiplies the power of the program and cuts the workload to a fraction.





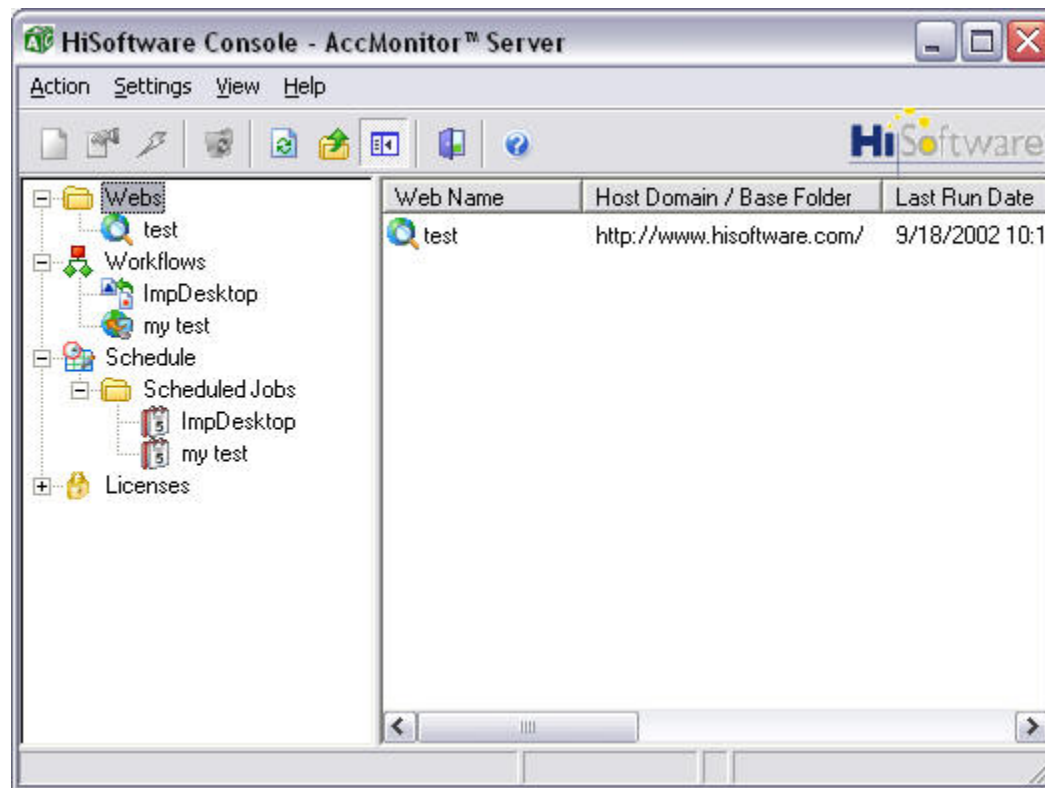
AccMonitor Compliance Server

AccMonitor verifies compliance for live Web files and allows users to configure the program using the server-based software or the Web-based interface

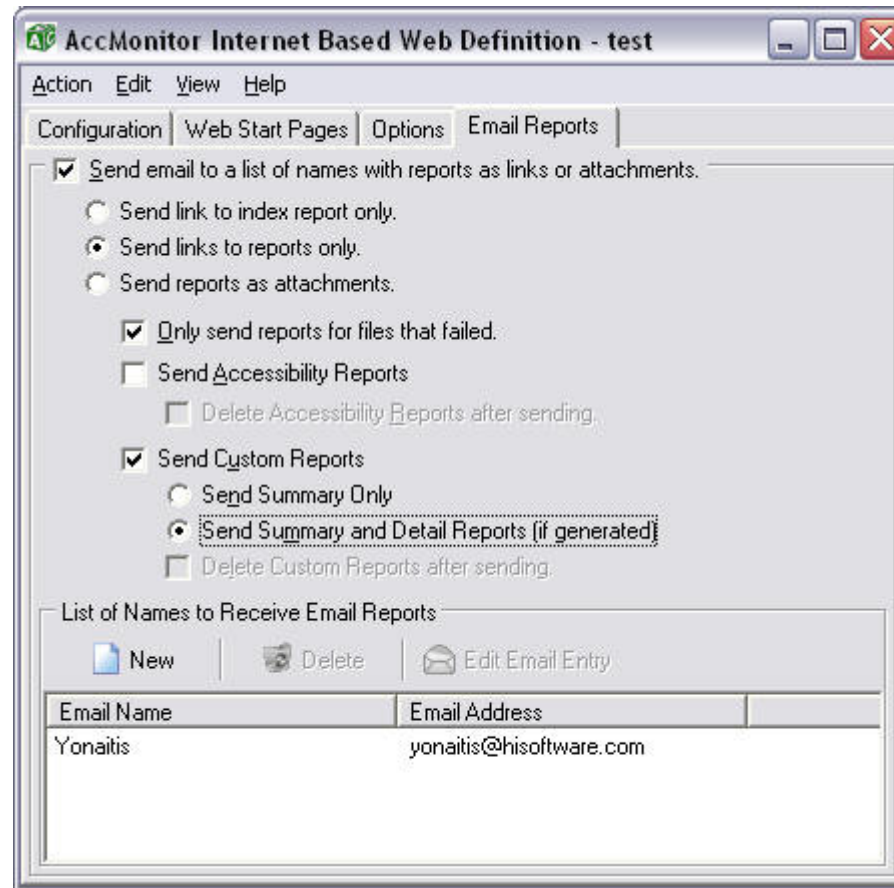
- Runs as a Windows® service
- No file or server access required
- Send email reports to multiple recipients
- Options allow the user to generate reports only for files that fail compliance verification or for all files checked
- Includes the same dynamic reporting functionality as other HiSoftware “acc” products

Monitoring the Web

The user launches AccMonitor and creates a “Web”.



Monitoring the Web



Monitoring the Web

The screenshot shows a Windows-style dialog box titled "Scheduled Job Settings for ExampleWeb". It contains several fields for configuring a scheduled job:

- Interval Settings:**
 - Run Interval:** A dropdown menu with "Weekly" selected.
 - Time of Day:** A time selection field showing "12:01:00 AM" with up and down arrows.
 - Day:** A dropdown menu with "Monday" selected.
 - Run Type:** A dropdown menu with "Export Web to History" selected.
- Buttons:** "Help", "Ok", and "Cancel" buttons are located at the bottom of the dialog.

The System Admin. schedules the Web for daily, weekly, or monthly monitoring. The Autorun Schedule can export to History and purge the recorder database automatically.

Monitoring the Web

The screenshot shows the HiSoftware AccMonitor Web Based Administration interface. The browser window title is "HiSoftware AccMonitor Web Based Administrator - Microsoft Internet Explorer". The address bar shows the URL: <http://localhost/AccMonitor/accwmntr.exe?lid=BvPdng1As1vUDenzBN&wM9KytvVEHr>. The page header includes the HiSoftware logo and the text "HiSoftware® AccMonitor™ Web Based Administration ©2002 - 2003 HiSoftware Inc.". A navigation menu on the left includes links for "Skip Navigation", "AccMonitor", "Main", "Global Settings", "Schedule", "Run Queue", "Administration", "New Web", "New Workflow", "Administration", "Change Password", "Login", and "Help Index". The main content area displays "John is Logged In" and a prompt: "Please select from one of the available webs." Below this is a table of web configurations:

Web Name	Host Domain / Base Folder	Summary Report
HiSoftware	http://www.hisoftware.com/	
HSFT_Contents	http://www.hisoftware.com/	HSFT_Contents Summary Report
localhost	http://REBELBASE/	localhost Summary Report
Sec508	http://www.hisoftware.com/	
tabtest	http://www.calgary.ca/	
w3c_p1	http://www.hisoftware.com/	
w3c_p12	http://www.hisoftware.com/	
w3c_p123	http://localhost/	
LFS_Test	C:\Program Files\HISC\AccVerify Pro\Demo\montest\	LFS_Test Summary Report
Test	C:\Program Files\hisc\AccVerify Pro\Demo\montest\	

Below the table is another prompt: "Please select from one of the available workflows." followed by a table of workflow configurations:

Workflow Name	Settings Web	Workflow Type
local	localhost	Web Test
CombTest1	localhost	Combined Report
Importtest1	638_test	Import

The footer of the page contains the text: "For more information on HiSoftware Accessibility products please visit <http://www.hisoftware.com/> - ©2002 - 2003 HiSoftware Inc." The browser status bar shows "Done" and "Local intranet".

Automated Management Features

AccMonitor, which runs automated as a Windows® service, has additional management features:

- Automatic History: Accessibility information can be exported to the History database automatically during scheduled verification
- Automatic custom report generation: Custom reports are generated automatically during scheduled verification based on custom report definitions (Report definitions can be created to suit the needs of Web developers)
- Reports that are generated automatically and on-demand can be shared over a network or on the Internet (Reports are also Web-ready with URL links)
- Multi-user team services feature allows merging and importing of accessibility data from other AccMonitor or AccVerify installations.



"Understanding Accessibility" eBook from HiSoftware

HiSoftware's "Understanding Accessibility" (ISBN - 1-930616-03-1) is a guide to creating and testing Web sites that are developed to the U.S. federal standards for accessible Web content, and the World Wide Web Consortium, or W3C, accessibility guidelines. This book provides a reference on accessibility remediation.

If you would like to download a copy of the eBook, please visit HiSoftware's Web site at:
<http://www.hisoftware.com/msacc/regbook.htm>