

# ACCESSIBILITY ON THE WEB

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Sergiu Dumitriu

“The power of the Web is in its universality.  
Access by everyone regardless of disability is  
an essential aspect.”

*Tim Berners-Lee, W3C Director and Inventor of the  
World Wide Web*

# CONTENTS

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- Introduction
- WAI
- WCAG
- Decision
- Implementation Plan
- Conformance Evaluation
- Examples
- Resources

ACCESSIBILITY ON THE WEB

# INTRODUCTION

# WEB ACCESSIBILITY

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- People with disabilities can use the Web
- *Use* means:
  - perceive, understand, navigate, and interact with the Web
  - contribute to the Web
- *Disabilities* means:
  - Visual, hearing, physical, speech, cognitive and neurological disabilities
  - Also in combinations
  - Permanent, or caused by aging or accidents
  - Even due to environment conditions (no soundboard or speakers, for example)

# WHY IS WA AN ISSUE?

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- Use of the Web has spread into all areas of society
- There are barriers on the Web for many types of disabilities
- Millions of people have disabilities that affect access to the Web
- Some Web sites are required to be accessible
- Web accessibility also has carry-over benefits for other users

# STEPHEN HAWKING



# WEB ACCESSIBILITY INITIATIVE

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- WAI is one of five (+1) Domains within the W3C
- Involves industry, disability organizations, government, accessibility research organizations, and more
- WAI develops
  - guidelines widely regarded as the international standard for Web accessibility
  - support materials to help understand and implement Web accessibility
  - resources, through international collaboration

“The Web Accessibility Initiative (WAI) works with organizations around the world to develop strategies, guidelines, and resources to help make the Web accessible to people with disabilities.”

# WEB ACCESSIBILITY INITIATIVE

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- Primary activities:
  - ensuring that core technologies of the Web support accessibility
  - developing guidelines for Web content, user agents, and authoring tools
  - facilitating development of evaluation and repair tools for accessibility
  - conducting education and outreach
  - coordinating with research and development that can affect future accessibility of the Web

# WAI ADDRESSES

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- Web sites and Web applications (the *content*)
  - that people with disabilities can perceive, understand, navigate, and interact with;
- Web browsers and media players
  - that can be used effectively by people with disabilities, and
  - that work well with assistive technologies that some people with disabilities use to access the Web;
- Web authoring tools, and evolving Web technologies
  - that support production of accessible Web content and Web sites, and
  - that can be used effectively by people with disabilities.

# WA COMPONENTS (1)

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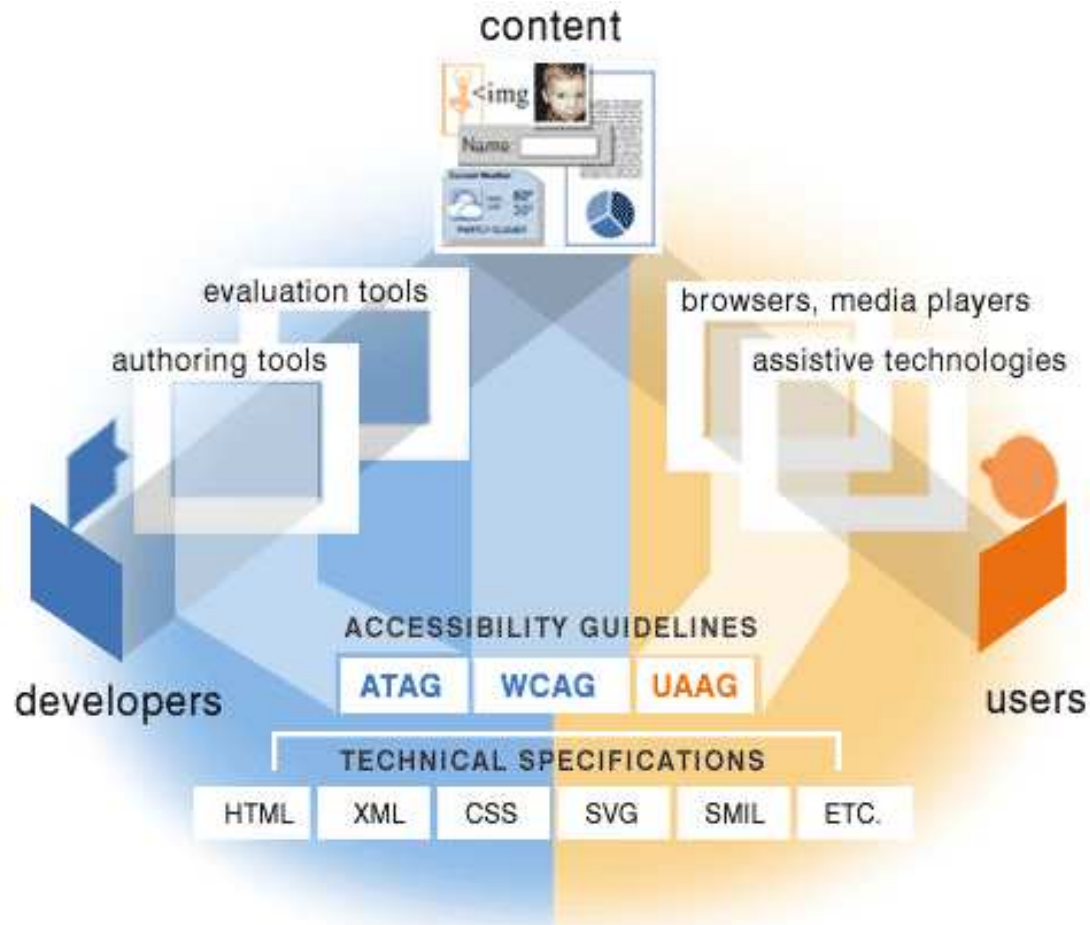
- **Technical specifications** address alternative text (for example, HTML defines the alternative text attribute (alt) of the image element (img))
- **WAI guidelines** - WCAG, ATAG, and UAAG - define how to implement alternative text for accessibility in the different components
- **Developers provide** the appropriate alternative text wording
- **Authoring tools** enable, facilitate, and promote providing alternative text in a Web page

# WA COMPONENTS (2)

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- **Evaluation tools** are used to help check that alternative text exists
- **User agents** provide human and machine interface to the alternative text
- **Assistive technologies** provide human interface to the alternative text in various modalities
- **Users** know how to get the alternative text from their user agent and/or assistive technology as needed

# HOW WA COMPONENTS RELATE



ACCESSIBILITY ON THE WEB

# WEB CONTENT ACCESSIBILITY GUIDELINES

# WCAG

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- Collection of documents explaining how to make Web content accessible to people with disabilities
- Web “content” generally refers to the information in a Web page or Web application, including text, images, forms, sounds, tables and such
- Standards since 1999–2000 (version 1.0)
- More resources on the W3C website (FAQ, tips, translations, badges...)
- Contrary to a common misconception, WCAG **don't** recommend text-only sites
  - ...but that can be used from a text-only/voice only/braille only browser

# WCAG 1.0

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- **14 guidelines** that are general principles of accessible design
- Each guideline has one or more **checkpoints** that explain how the guideline applies in a specific area (total: 64 checkpoints)
- Each checkpoint is assigned a **priority**, explained in the PRIORITIES section of WCAG 1.0.
- Under each checkpoint there is a **Techniques** link that goes to the section within the TECHNIQUES FOR WCAG 1.0 Gateway document that links to relevant techniques for a specific technology (for example, CSS or HTML)

# WCAG 2.0

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WCAG 2.0 is being developed to apply broadly to different technologies now and in the future; be easier to use and understand; and to be more precisely testable with automated testing and human evaluation

(In the current version) There are 4 principles (sections), with a total of 13 guidelines

WAI anticipates WCAG 2.0 may be completed in 2007

# DESIGN GOALS

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- Visual:
  - described graphics or video;
  - well marked-up tables or frames;
  - keyboard support, screen reader compatibility;
- Hearing:
  - captioning for audio, supplemental illustration;
- Physical, Speech:
  - keyboard or single-switch support;
  - alternatives for speech input on voice portals;
- Cognitive, Neurological:
  - consistent navigation, appropriate language level;
  - illustration; no flickering or strobing designs.

# ACCESSIBILITY BARRIERS

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- ❑ Reading order is distorted without style sheets
- ❑ Document code contains deprecated markup
- ❑ Quotation markup is used for formatting effects
- ❑ Font sizes are fixed and may not be expandible
- ❑ Data tables do not contain sufficient markup code
- ❑ Data table markup is used for formatting effects
- ❑ Acronyms and abbreviations are not explained
- ❑ Page headings are encoded as images of text
- ❑ Page markup does not validate
- ❑ Invalid markup does not work on some browsers

# ACCESSIBILITY BARRIERS

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- ❑ Layout tables do not linearize to reading order
- ❑ Form controls are not associated with labels
- ❑ Form controls are not divided into manageable groups
- ❑ Changes in the natural language are not indicated
- ❑ Color-coded information is not available without color
- ❑ Insufficient color contrast for links
- ❑ Images are missing text equivalents
- ❑ Controls are not operable by keyboard
- ❑ Client-side scripts are not accessible

# WCAG 1.0 GUIDELINES (1)

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1. Provide equivalent alternatives to auditory and visual content.
2. Don't rely on color alone.
3. Use markup and style sheets and do so properly.
4. Clarify natural language usage
5. Create tables that transform gracefully.
6. Ensure that pages featuring new technologies transform gracefully.
7. Ensure user control of time-sensitive content changes.

# WCAG 1.0 GUIDELINES (2)

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8. Ensure direct accessibility of embedded user interfaces.
9. Design for device-independence.
10. Use interim solutions.
11. Use W3C technologies and guidelines.
12. Provide context and orientation information.
13. Provide clear navigation mechanisms.
14. Ensure that documents are clear and simple.

# WCAG 2.0 GUIDELINES (1)

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Principle 1: Content must be perceivable.

- Guideline 1.1 Provide text alternatives for all non-text content
- Guideline 1.2 Provide synchronized alternatives for multimedia
- Guideline 1.3 Ensure that information and structure can be separated from presentation
- Guideline 1.4 Make it easy to distinguish foreground information from its background

# WCAG 2.0 GUIDELINES (2)

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Principle 2: Interface components in the content must be operable

- Guideline 2.1 Make all functionality operable via a keyboard interface
- Guideline 2.2 Allow users to control time limits on their reading or interaction
- Guideline 2.3 Allow users to avoid content that could cause seizures due to photosensitivity
- Guideline 2.4 Provide mechanisms to help users find content, orient themselves within it, and navigate through it
- Guideline 2.5 Help users avoid mistakes and make it easy to correct mistakes that do occur

# WCAG 2.0 GUIDELINES (3)

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Principle 3: Content and controls must be understandable

- Guideline 3.1 Make text content readable and understandable.
- Guideline 3.2 Make the placement and functionality of content predictable.

# WCAG 2.0 GUIDELINES (4)

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Principle 4: Content should be robust enough to work with current and future user agents (including assistive technologies)

- Guideline 4.1 Support compatibility with current and future user agents (including assistive technologies)
- Guideline 4.2 Ensure that content is accessible or provide an accessible alternative

ACCESSIBILITY ON THE WEB


EXAMPLE


# BEFORE/AFTER DEMO (BAD)

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- Demo made by the WAI, showing:
  - different accessibility barriers in real examples
  - how can an inaccessible site be transformed into an accessible one
  - ... with minimal aspect changes

# INACCESSIBLE HOMEPAGE

**CITYLIGHTS** *your access to the city*




QUICKMENU --> ▾


---


**Traffic:** Construction work on Main Road


**Today:** Saturday 12 May 2007, Sunny, 23°C

---

 HOME

 NEWS



 TICKETS

 SURVEY



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## Welcome to Citylights



Citylights is the new portal for visitors and residents. Find out what's on, book tickets, tell us what's good and what's not, get the latest news.

**Heat wave linked to temperatures**  


After three years of effort city scientists now agree that the primary cause of the 2003 heatwave was hot air from our [MORE >>](#)


**Man Gets Nine Months in Violin Case**  


Mayor: These kinds of crimes need more creative, effective punishments. For example, we could require compulsory [MORE >>](#)

**Lack of brains hinders research**  



Brain donations: huge drop off in brain donations down to 'success' of 'Slow Traffic, Safe Streets' policy [MORE >>](#)

### Free Penguins



"Free penguins" slogan at zoo benefit concert causes confusion among city rockers. Adjective or verb? [Read more...](#)

### More City Parks





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### Elsewhere on the Web

Please see the following websites for important information. Citylights take no responsibility for their content. For artichoke advice, call the number

# ACCESSIBLE HOMEPAGE

**CITYLIGHTS** *your access to the city*




Quick Menu ▾ Go


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**Traffic:** Construction work on Main Road


**Today:** Friday 27 January 2006, Sunny Spells, 23°C

---

 HOME

 NEWS


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## Welcome to CityLights


Citylights is the new portal for visitors and residents. Find out what's on, book tickets, tell us what's good and what's not, get the latest news.



### Heat wave linked to temperatures

After three years of effort city scientists now agree that the primary cause of the 2003 heatwave was hot air from...


[Heat wave - full story](#)



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Mayor: These kinds of crimes need more creative, effective punishments. For example, we could require...

[Violin case - full story](#)




### Lack of brains hinders research

Brain donations: huge drop off in brain donations down to 'success' of 'Slow Traffic, Safe Streets'...

[Brain donations - full story](#)


### Free Penguins



"Free penguins" slogan at zoo benefit concert causes confusion among city rockers. Adjective or verb?



[Free Penguins - read more](#)

### More City Parks







## Elsewhere on the Web

# INACCESSIBLE TICKETS PAGE

**CITYLIGHTS** *your access to the city*QUICKMENU -->

---

**Traffic:** Construction work on Main Road **Today:** Saturday 12 May 2007, Sunny, 23°C

-  HOME
-  NEWS
-  TICKETS
-  SURVEY

## Citylights Ticket Offers

Citylights in partnership with globo enterprises are proud to offer specially priced tickets to see these great artists - **Frank Zappa & Thelonus Mank!**

concert dates	
<b>Frank Zappa</b>	<b>Thelonus Mank</b>
12/2/06	24/3/06


These **special deals** are exclusive to Citylights and can only be purchased by calling the ticket hotline:

Buy tickets by phoning the M-u-s-i-c line ---- get your tickets now!: **(1) 269 M-U-S-I-C**

## Ticket Prices

ADULT	FS	RS	DC	ST
<b>Thelonus Mank - reincarnate</b>	\$20.90	\$20.90	\$20.90	\$20.90
<b>Frank Zappa &amp; The Fathers</b>	\$20.90	\$27.90	\$30.90	\$33.90
<b>Concession</b>				
<b>Thelonus Mank - reincarnate</b>	\$20.90	\$20.90	\$20.90	\$20.90
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<b>Group (5 or more)</b>				
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# ACCESSIBLE TICKETS PAGE

**CITYLIGHTS** *your access to the city*Quick Menu ▾ Go

---

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Buy tickets by phoning the Music line -- get your tickets now!: **(1) 263 68742**

### concert dates

Frank Zappa	Thelonus Mank
12/2/06	24/3/06

## Ticket Prices

ADULT	Front Seats	Rear Seats	Dress Circle	Special Tables
<b>Thelonus Mank - reincarnate</b>	\$20.90	\$20.90	\$20.90	\$20.90
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ACCESSIBILITY ON THE WEB

DECISION

# SOCIAL FACTORS

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- Web Accessibility is an Aspect of Corporate Social Responsibility
- Web Accessibility Benefits People With and *Without* Disabilities:
  - Access for Older People
  - Access for People with Low Literacy and People Not Fluent in the Language
  - Access for People with Low Bandwidth Connections to the Internet, and Older Technologies
  - Access for New and Infrequent Web Users

# TECHNICAL FACTORS

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- Have High Quality Web Sites
- Simplify forward migration and backwards-compatibility by defining presentation in a style sheet, using proper markup structure, and using the latest standards
- Enable Content on Different Configurations
- Facilitate efficient debugging with automated validation tools by conforming to standards
- Reduce development and maintenance by having one accessible version of a site, rather than multiple versions

# FINANCIAL FACTORS

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- Increases potential use by more people, expands potential market share
- Increases findability
- Increases potential use in more situations
- Increases usability for existing users
- Decrease maintenance costs

# LEGAL & POLICY FACTORS

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- Some countries require sites to be accessible
- Government sites must be accessible (in most countries)
- Academic/Educational sites should provide accessible resources for all categories of students
- Some government policies require industry Web sites to be accessible

# MORE REASONS

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- **WA  $\Rightarrow$  SEO**
- More users
- ...from more system configurations
- ...from more devices
- Positive image
- More flexible designs
- Not hard to integrate
- Easy to maintain
- Many tools that can help you

ACCESSIBILITY ON THE WEB

# IMPLEMENTATION PLAN

# SHORT VERSION

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- Establish Responsibilities
- Initial Evaluation of staff, software/tools already in use, needed/available resources. . .
- Develop Organizational Policy regarding the target accessibility level
- Select Software conforming to ATAG
- Provide Training for the persons that will create/use Web content
- Develop Accessible Web Site
- Promote Organizational Awareness
- Monitor Web Site Accessibility

# LONG VERSION

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<http://www.w3.org/WAI/impl/Overview.html>

ACCESSIBILITY ON THE WEB

# CONFORMANCE EVALUATION

# SHORT VERSION

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- Use Web accessibility evaluation tools
  - Markup Validator
  - Style Validator
  - At least two Accessibility Evaluation Tools
- Manually evaluate representative page sample
  - Apply accessibility checklist to page sample
  - Examine pages using graphical browsers
  - Examine pages using specialized browsers
  - Read and evaluate page content
- Involve users
- Summarize and report findings

# LONG VERSION

---

<http://www.w3.org/WAI/eval/Overview.html>

ACCESSIBILITY ON THE WEB

EXAMPLES

ACCESSIBILITY ON THE WEB

WAI ([WWW.W3.ORG/WAI](http://www.w3.org/WAI))

# NORMAL VIEW

[Skip to content](#) | [Change text size or colors](#)

**W3C** Web Accessibility initiative

WAI: Strategies, guidelines, resources to make the Web accessible to people with disabilities

W3C Home

<b>Web Accessibility Initiative (WAI) Home</b>
<a href="#">Introducing Accessibility</a>
<a href="#">Guidelines &amp; Techniques</a>
<a href="#">Managing Accessibility</a>
<a href="#">Evaluating Accessibility</a>
<a href="#">WAI Groups</a>
<a href="#">About WAI</a>

- ◆ [WAI Site Map](#)
- ◆ [Help with WAI Site](#)
- ◆ [अभेदक Translations](#)
- ◆ [RSS](#) About RSS

## Web Accessibility Initiative (WAI)

### Highlights

**WaSP Interview: Judy Brewer on WCAG 2**  
Judy Brewer discusses [WCAG 2.0](#) status and upcoming drafts with Web Standards Project (WaSP) Accessibility Task Force member Jared Smith. See [Interview with Judy Brewer](#). (2007-05-07)

**Updates: WCAG 2.0 and WAI Resources Handouts**  
WCAG 2.0 primary points, current status, and Web accessibility resources from W3C WAI are topics covered in new [handouts](#) that you can

**WAI develops...**

- guidelines widely regarded as the international standard for Web accessibility
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- resources, through international collaboration

**WAI welcomes...**

- participation from around the world
- volunteers to review, implement, and promote guidelines
- dedicated participants in working groups

### Announcements

- [WAI Web Accessibility](#)

# WITHOUT PICTURES

Skip to content | Change text size or colors

W3C logo Web Accessibility Initiative (WAI) logo

WAI: Strategies, guidelines, resources to make the Web accessible to people with disabilities

W3C Home

**Web Accessibility Initiative  
(WAI) Home**

Introducing Accessibility

Guidelines & Techniques

Managing Accessibility

Evaluating Accessibility

WAI Groups

About WAI

- ◆ WAI Site Map
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#### Announcements

# WITHOUT STYLE

- [Skip to content](#)
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WAI: Strategies, guidelines, resources to make the Web accessible to people with disabilities

## What WAI Does

### WAI develops...

- guidelines widely regarded as the international standard for Web accessibility
- support materials to help understand and implement Web accessibility
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- participation from around the world
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- dedicated participants in working groups

## Site Navigation

### W3C Home

Web Accessibility Initiative (WAI) Home

# LYNX

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#<<< Web Accessibility Initiative (WAI) - home page (p1 of 12)
#RSS Feed of WAI Home Page Highlights

* Skip to content
* | Change text size or colors

W3C logo Web Accessibility Initiative (WAI) logo

WAI: Strategies, guidelines, resources to make the Web accessible to people with disabilities

What WAI Does

WAI develops...
* guidelines widely regarded as the international standard for Web accessibility
* support materials to help understand and implement Web accessibility
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WAI welcomes...
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Site Navigation

W3C Home

-- press space for next page --
Arrow keys: Up and Down to move. Right to follow a link; Left to go back.
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list
```

# SCREEN READER

Page has thirty headings and one hundred twenty-five links Web Accessibility Initiative left paren WAI right paren dash home page dash Internet Explorer List of two items bullet This page link Graphic slash downinpage.png Skip to content bullet Link vertical bar Change text size or colors List end Link Graphic Wthree C logo Link Graphic Web Accessibility Initiative left paren WAI right paren logo WAI colon Strategies, guidelines, resources to make the Web accessible to people with disabilities

## Heading level two

What WAI Does Link WAI develops... List of three items bullet guidelines widely regarded as the international standard for Web accessibility bullet support materials to help understand and implement Web accessibility bullet resources, through international collaboration List end Link WAI welcomes... List of three items bullet participation from around the world bullet volunteers to review, implement, and promote guidelines bullet dedicated participants in working groups List end

## Heading level two

Site Navigation Link Wthree C Home Web Accessibility Initiative left paren WAI right paren Home List of six items one Link Introducing Accessibility two Link Guidelines and Techniques three Link Managing Accessibility four Link Evaluating Accessibility five Link WAI Groups six Link About WAI List end List of five items bullet Link WAI Site Map bullet Link Help with WAI Site bullet Link Graphic slash translations dash small dash one .png Translations bullet Link Graphic slash rss.png About RSS bullet Link Graphic slash search dash icon.png Search List end

ACCESSIBILITY ON THE WEB

ROMANIAN MINISTRY OF INTERNAL  
AFFAIRS ([WWW.MAI.GOV.RO](http://WWW.MAI.GOV.RO))

# NORMAL VIEW

www.MIRA.gov.ro

## Ministerul Internelor și Reformei Administrative

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**INFORMATII GENERALE**

- Istorie
- Legislatie
- Personal / Invatamant / Cariera

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- Ministru
- Secretari de stat
- Consilieri

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- Aparat central
- Structuri subordonate
- Agentii / Institutii / Autoritati

**PRESA**

- Comunicate
- Conferinte de presa
- Publicatii

**Prima pagina** **AGENDA MINISTRULUI**

anta pentru fiecare

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- Numere de urgenta
- E Petitie
- Relatii cu publicul
- Ghiduri utile
- Audiente
- Biblioteca Virtuala

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- Presedintele Romaniei
- Guvernul Romaniei
- Ministere
- Europol
- Interpol

**PRESA - COMUNICATE** **BULETIN INFORMATIV**

**PRESA - COMUNICATE** **BULETIN INFORMATIV**

**Ministrul Internelor și Reformei Administrative, Cristian David a susținut astăzi o conferință de presă în care a prezentat obiectivele generale ale mandatului său.**

**Conferinta 11 mai 2007**

- partea 1
- partea 2
- partea 3
- partea 4
- partea 5
- partea 6

**ÎNȚĂLNIRE DE LUCRU PRIVIND FACILITATEA SCHENGEN**

Vineri, 11 mai 2007, o delegație formată din reprezentanți ai Ministerului Internelor și Reformei Administrative, condusă de chestor principal de poliție dr. Corneliu ALEXANDRU - director general al Direcției Generale Afaceri Europene și Relații Internaționale din cadrul M.I.R.A., se va deplasa la Bruxelles, cu ocazia organizării de către Comisia Europeană a unei întâlniri de lucru privind Facilitatea Schengen.

**În perioada 8 – 10 mai 2007, România, prin Ministerul Internelor și Reformei Administrative, organizează, sub egida Colegiului European de Poliție (CEPOL) și în parteneriat cu Bulgaria, Franța și Ungaria, Seminarul pentru Autoritățile Polițienesti din Tarile Candidate.**

**Azi, 11 mai 2007, începând cu ora 11:30, la sediul Ministerului Internelor**

# WITH PICTURES DISABLED

Istorie  
Legislatie  
Personal / Invatamant / Cariera  
Ministru  
Secretari de stat  
Consilieri  
Aparat central  
Structuri subordonate  
Agentii / Institutii / Autoritati  
Comunicate  
Conferinte de presa  
Publicatii  
Emisiuni radio / tv  
Arhiva  
Ordine si siguranta  
Administratie publica  
Afaceri Europene  
Relatii internationale  
Schengen

Cautare  

Numere de urgenta  
E Petitie  
Relatii cu publicul  
Ghiduri utile  
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Guvernul Romaniei  
Ministere  
Europol  
Interpol

[Prima pagina](#) [AGENDA MINISTRULUI](#)

PRESA - COMUNICATE	BULETIN INFORMATIV	PRESA - COMUNICATE	BULETIN INFORMATIV
Ministrul Internelor și Reformei Administrative, Cristian David a susținut astăzi o conferință de presă în care a prezentat obiectivele generale ale mandatului său.	Conferinta 11 mai 2007 - partea 1 - partea 2 - partea 3 - partea 4 - partea 5 - partea 6	ÎNȚĂLNIRE DE LUCRU PRIVIND FACILITATEA SCHENGEN Vineri, 11 mai 2007, o delegație formată din reprezentanți ai Ministerului Internelor și Reformei Administrative, condusă de chestor principal de poliție dr. Corneliu ALEXANDRU - director general al Direcției Generale Afaceri Europene și Relații Internaționale din cadrul M.I.R.A., se va deplasa la Bruxelles, cu ocazia organizării de către Comisia Europeană a unei întâlniri de lucru privind Facilitatea Schengen.	În perioada 8 – 10 mai 2007, România, prin Ministerul Internelor și Reformei Administrative, organizeaza, sub egida Colegiului European de Poliție (CEPOL) și în parteneriat cu Bulgaria, Franța și Ungaria, Seminarul pentru Autoritățile Polițienesti din Tarile Candidate. Migratia - un proces care trebuie gestionat și nu o problema ce trebuie rezolvata

Azi, 11 mai 2007, începând cu ora 11.30, la sediul Ministerului Internelor și Reformei Administrative va avea loc o conferinta de presa sustinuta de ministrul internelor si reformei administrative, domnul Cristian David.

Astăzi a avut loc la sediul M.I.R.A.

# WITHOUT STYLE

[www.MIRA.gov.ro](http://www.MIRA.gov.ro)

**Ministerul Internelor și Reformei Administrative**

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[Prima pagina](#) [AGENDA MINISTRULUI](#) 

**Administratie pentru toti, siguranta pentru fiecare**

**PRESA - BULETIN COMUNICATE INFORMATIV**      **PRESA - COMUNICATE**

[Ministrul Internelor și Reformei Administrative, Cristian David a susținut astăzi o conferință de presă în care a prezentat obiectivele generale](#)

[ÎNȚĂLNIRE DE LUCRU PRIVIND FACILITATEA](#)  
Vineri, 11 mai 2007, o delegatie formată din reprezentanti

# LYNX

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Ministerul Internelor si Reformei Administrative- Prima pagina (p1 of 12)
[WEB_SLICE_01.png]
[WEB_SLICE_03.png]
[Banner.png]
[fill.jpg]
[top_div_09.jpg] [home_page_11.jpg] [top_div_09.jpg] [map_11.jpg] [top_div_09.jpg]
[hlp_11.jpg] [top_div_09.jpg] [contact_11.jpg] [top_div_09.jpg]
[eng.jpg] [20px-Uk_flag_large.png]
[left_corner_15.jpg]
[bullet_26.jpg] Prima pagina
[bulet2.gif] AGENDA MINISTRULUI [agenda.png]
Administratie pentru toti, siguranta pentru fiecare
[separator_14.png]
Cautare
[go_22.jpg]-Submit
(NORMAL LINK) Use right-arrow or <return> to activate.
Arrow keys: Up and Down to move. Right to follow a link; Left to go back.
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list
```

# LYNX (FURTHER DOWN)

```
Ministerul Internelor si Reformei Administrative- Prima pagina (p3 of 12)
[ue_ro.jpg]
[e_guv.jpg]
trafic ranking

[l_menu_25.jpg]
  Istorie
  Legislatie
  Personal / Invatamant / Cariera
[l_menu_36.jpg]
  Ministru
  Secretari de stat
  Consilieri
[l_menu_BLUE_42.jpg]
  Aparat central
  Structuri subordonate
  Agentii / Institutii / Autoritati
[left_menu_BLUE_47.jpg]
  Comunicate
  Conferinte de presa
  Publicatii
  Emisiuni radio / tv
  Arhiva
-- press space for next page --
Arrow keys: Up and Down to move.  Right to follow a link; Left to go back.
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list
```

# SCREEN READER

Page has one hundred nineteen links Ministerul Internelor si Reformei Administrative dash Prima pagina dash Internet Explorer Table with two columns and two rows Table with one column and one row Table end Table end Table with one column and one row Table end Table with four columns and one hundred thirty-seven rows Table with nine columns and one row Link Graphic slash home underline page underline eleven .jpg Link Graphic slash map underline eleven .jpg Link Graphic slash hlp underline eleven .jpg Link Graphic slash contact underline eleven .jpg Table end Table with two columns and one row Link Graphic slash eng.jpg Table end Table with one column and one row Table end Block quote start Table with two columns and two rows Prima pagina Link AGENDA MINISTRULUI Administratie pentru toti, siguranta pentru fiecare Table end Block quote end Table with one column and twenty-five rows Table with five columns and one row Cautare Edit Table end Table with one column and one row Table end Table with one column and seven rows Table with two columns and one row Link Numere de urgenta Table end Table with two columns and one row Link E Petitie Table end Table with two columns and one row Link Relatii cu publicul Table end Table with one column and one row Link Ghiduri utile Table end Table with one column and one row Link Audiente Table end Table with one column and one row Link Biblioteca Virtuala Table end Table end Table with one column and seven rows Table with one column and one row Table end Table with one column and one row Link Presedintele Romaniei Table end Table with one column and one row Link Guvernul Romaniei Table end Table with one column and one row Link Ministere Table end Table with one column and one row Link Europol Table end Table with one column and one row Link Interpol Table end Table end Table with one column and one row Link Graphic slash tel underline verde underline blue.jpg Table end Table with one column and one row Table end Table with one column and one row Link Graphic slash modern.jpg Table end Table with one column and one row Link Graphic slash ue underline ro.jpg Table end Table with one

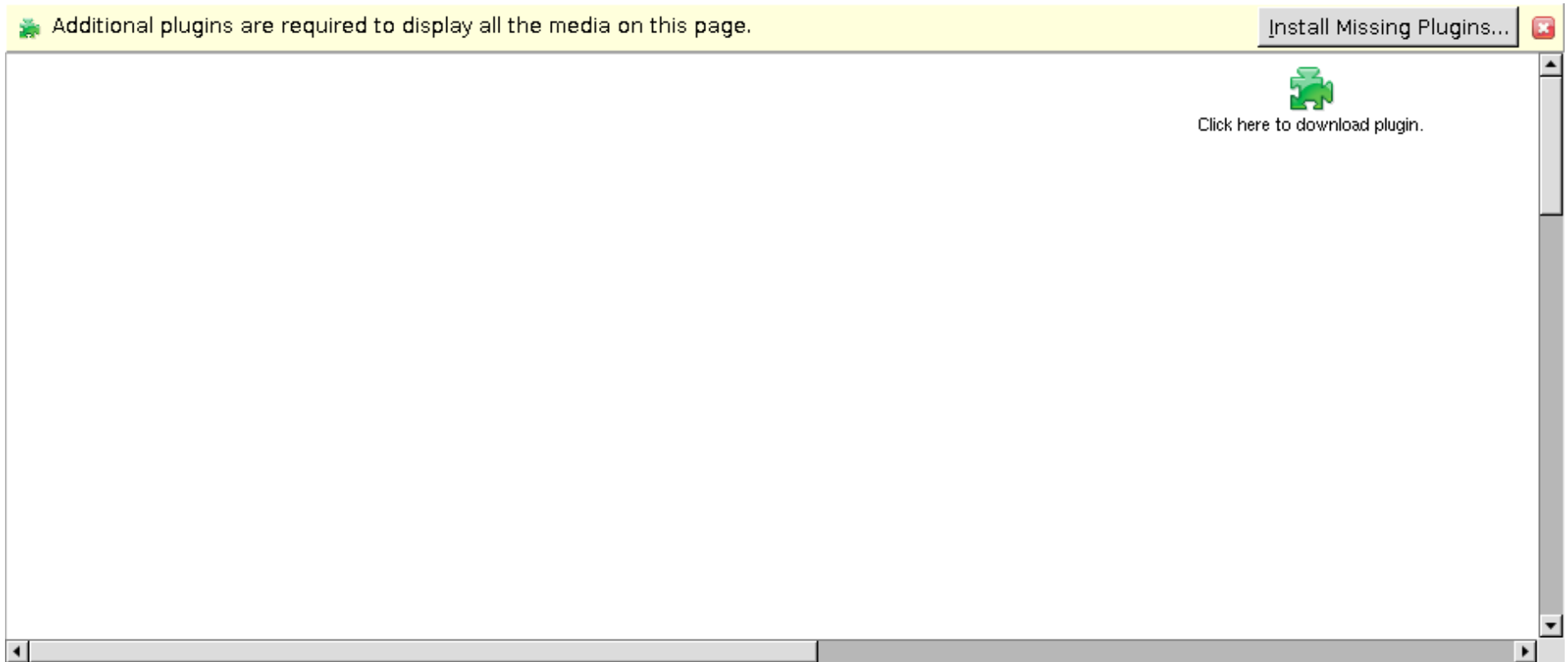
ACCESSIBILITY ON THE WEB

**BEBOP JEANS**  
(WWW.BEBOPJEANS.COM)

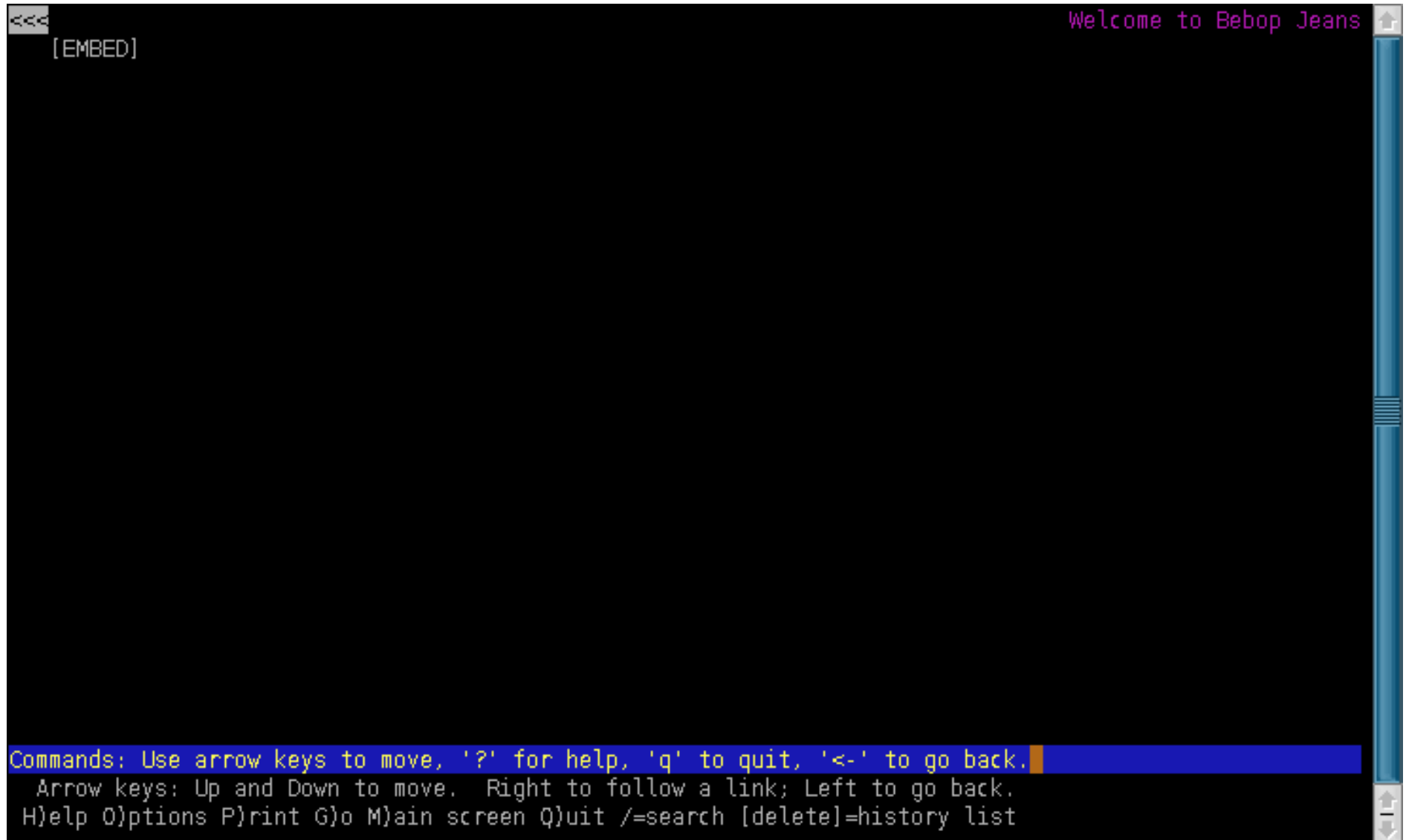
LOADING... (3 MINUTES)



# LOADING... (MY COMPUTER)



# LOADING... (LYNX)



The image shows a terminal window with a black background and white text. At the top left, there are three left-pointing chevrons '<<<' and the text '[EMBED]'. At the top right, the text 'Welcome to Bebop Jeans' is displayed in a pink color, followed by a small house icon. The bottom of the window features a blue horizontal bar containing white text: 'Commands: Use arrow keys to move, '?' for help, 'q' to quit, '<-' to go back.' Below this bar, more white text reads: 'Arrow keys: Up and Down to move. Right to follow a link; Left to go back. H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list'. On the right side of the terminal window, there is a vertical blue bar with a small house icon at the top and a small up/down arrow icon at the bottom.

```
<<< [EMBED] Welcome to Bebop Jeans
```

Commands: Use arrow keys to move, '?' for help, 'q' to quit, '<-' to go back.  
Arrow keys: Up and Down to move. Right to follow a link; Left to go back.  
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list

# READY

MUSIC : ON

06:03:15 PM FRI  
05-11-2007  
*adjusted to fit your attitude*

♥ home  
products  
store locator  
press  
fun  
register

be yourself !

# BeBop jeans

Give Away  
Click here to register!

Check us out on  
Myspace

ABOUT US ♥ VENDOR RELATIONS ♥ PRIVACY/LEGAL ♥ CONTACT US

FUN

# SCREEN READER

Welcome to Bebop Jeans dash Internet Explorer

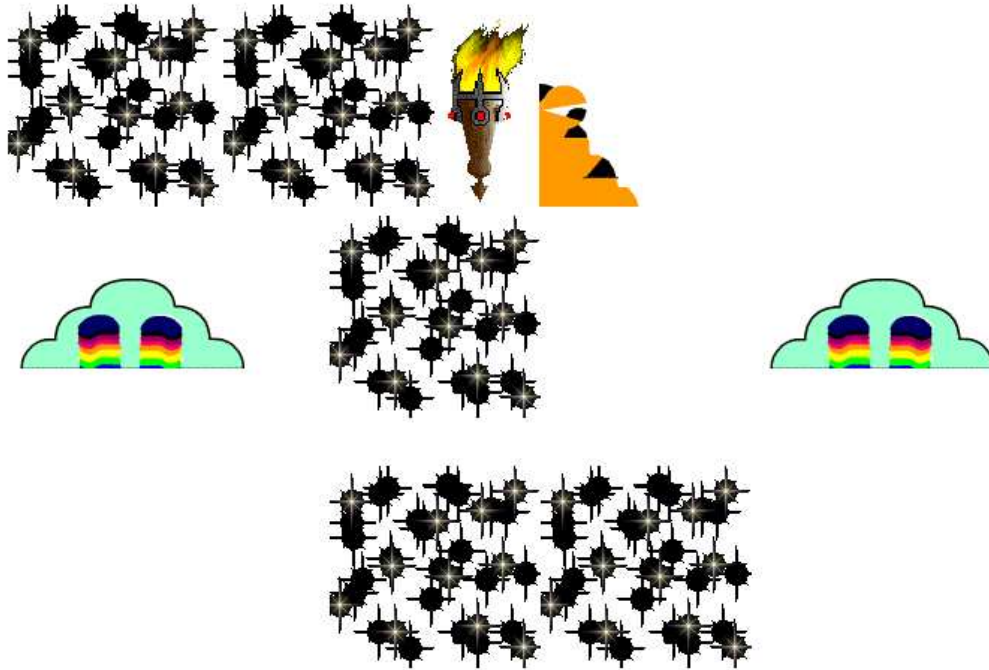
ACCESSIBILITY ON THE WEB

PAPER RAD ([WWW.PAPERRAD.COM](http://WWW.PAPERRAD.COM))

# NORMAL VIEW (ANIMATED)



# WITHOUT STYLE



PPPAAAAAPPPPEEEERRRRR RRRRR

the world wide website

RRAAAADDDDDDD

MERCH BOOTH:

CLICK BELOW:



# WITHOUT STYLE (FURTHER DOWN)

PPPPAAAAPPPPEEEERRRRR RRRRR

the world wide website

RRAAAADDDDDDD

MERCH BOOTH:

CLICK BELOW:

	
	
<p><b>Info Section</b> <small>click here</small>  <b>News, Reviews, Updates, Info!</b>  <b>Art, Music, Links, Contact!</b>  <small>the style RESOURCE CENTER</small></p>	<p><b>A link</b>  <b>to our YOUTUBEEEEEEEE!!!!!!!</b>  <b>do you like it?!</b></p>

PAPER RAD

[COOL LINK :TUXDOG.ORG](http://TUXDOG.ORG)

links future store future info station

cool links dolls

ocool art

aa cool band

la picture of me

lmy birthday

lmy hobby

nmy invention

k my birthday party again



COMICS OR ILLUSTRATED SONG



ACCESSIBILITY ON THE WEB

**MORE EXAMPLES**

# NEGURĂ BUNGET

imagery  
media  
downloads  
news  
history  
releases  
lyrics  
ideology

guestbook  
links  
contact

**ideology**  
Update: 20.10.2002

spiritual background	HTML version
principle of four	HTML version
transilvanian spirituality	HTML version

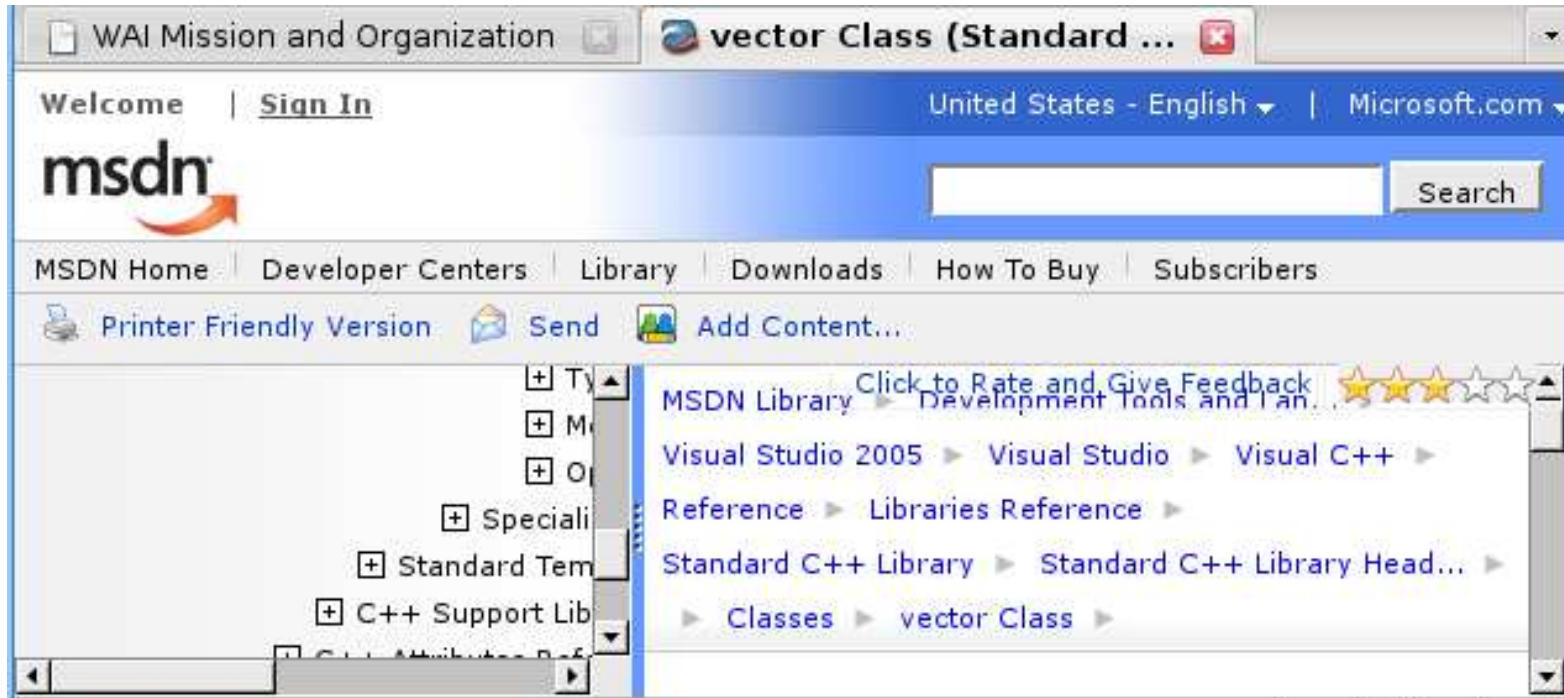
**ideology**

Spiritual background

Manifesting the Will of the Universe: Negură Bunget... foggy black above deep, dark, dense, never-ending forests of mythical heights and atmospheres... Looking through the elevated magical significance of the fog, carrying the ancient sorcerers between the worlds, seeing the old wood mark of the forest's anima; there opens the untouched land meant as Transilvania. A magic chosen place... for that which was to be fulfilled. The circumscribed circle of the tense inner reality where all human perception, intellect and experience merge.

DESIGN BY:  
sound off

# MSDN HELP (640X480)



ACCESSIBILITY ON THE WEB

# RESOURCES

# TOOLS

---

- Firefox extensions:
  - Accessibar
  - Fangs Screen Reader Emulator, Small Screen Renderer
  - Speak It, FoxyVoice
  - HTMLValidator
- Opera features:
  - Content blocker
  - Keyboard Shortcuts, Mouse Gestures & Voice
  - Zoom, Text size and colors
  - Small-screen mode & Full-screen mode

ACCESSIBILITY ON THE WEB

# CONCLUSIONS

# “What is the most important thing to understand in terms of making a site accessible?”

The most important thing to understand in terms of making a site accessible is that people use the Web in very different ways. A site should therefore present information in a way that people can access it regardless of what kind of hardware or software they are using, and regardless of how they navigate through a site. Web designers cannot assume that everyone uses the same kinds of devices the same way.

# “How will these guidelines affect usability and appearance of sites for non-disabled users?”

Accessible Web sites can be just as creatively designed as inaccessible sites. The Web Content Accessibility Guidelines address how to make a large variety of Web features accessible, rather than recommending that sites be dull or boring. In general, accessible Web sites don't need to be designed to be very different.

Many features of the guidelines will actually improve usability of Web sites for non-disabled users, by ensuring that sites are more easily navigable, and that they can be accessed through a variety of different kinds of devices rather than only a traditional graphical desktop browser.