MAUVE

ACCESSIBILITY EVALUATION REPORT

GLOSSARY

GUIDELINE SET: set composed of one or more guidelines.

GUIDELINE: it expresses general concepts about the accessibility of Web pages and it is composed of one or more criteria (for example, "Provide text alternatives for any non-text content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language").

CRITERION: it specializes concepts from a guideline, focusing on a particular aspect of the Web pages and it is composed of one or more checkpoints, (for example, "All non-text content that is presented to the user has a text alternative that serves the equivalent purpose").

CHECKPOINT: consists of one or more checks and expresses concretely the requirements that must be met by one or more components of a Web page (tags, attributes, CSS properties etc.), such as "Accessibility issue, due to omitting the alt attribute on img elements, area elements, and input elements of type image".

☸ EVALUATION OVERVIEW

BASE URL	http://biblioteca.comunevignanello.eu/
CRAWLING PARAMETERS	
Number of pages	1
Depth	10
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	21 dic 2022
EVALUATION TIME	10:52:

MAUVE++ ACCESSIBILITY PERCENTAGE

The MAUVE++ accessibility percentage is a measure which indicates how much the website is accessible in terms of the number of checkpoints successfully evaluated over the total number of evaluated checkpoints for which the tool has been able to make a validation. Such a measure is computed over the total of the evaluated web pages.

96%
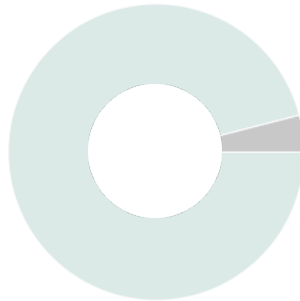
MAUVE++ EVALUATION COMPLETENESS

The MAUVE++ evaluation completeness is a measure which indicates the percentage of evaluated checkpoints for which the tool has been able to make a validation. Such a measure is computed over the total of the evaluated web pages.
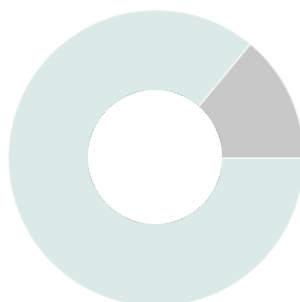
86%

EVALUATION OVERVIEW

TOTAL ERRORS

We compute the number of erroneus checkpoints for all the evaluated web pages, the total number of occurrences, and the average number of errors' occurrences per page.

12 TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

125 TOTAL ERROR OCCURRENCIES FOUND

125 AVERAGE ERROR OCCURENCIES PER PAGE

TOTAL WARNINGS

We compute the number of warning checkpoints for all the evaluated web pages, the total number of occurrences, and the average number of warnings' occurrences per page.

7 TOTAL CHECKPOINT TYPES WITH RESULT "WARNING"

314 TOTAL WARNINGS OCCURENCIES FOUND

314 AVERAGE WARNING OCCURENCIES PER PAGE

MOST ERRONEUS PAGES

We compute a rank of the most erroneus pages of the website, according to the occurrences of errors found in each evaluated page.
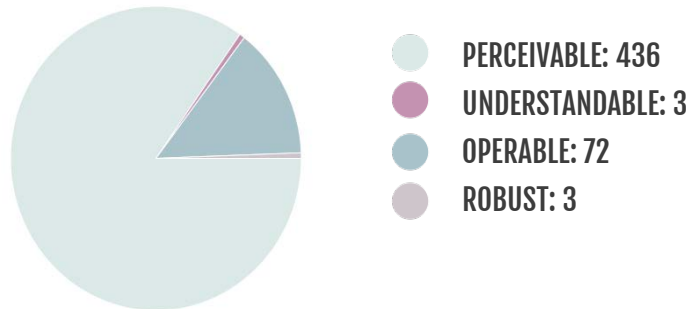
1. http://biblioteca.comunevignanello.eu/

PAGES EVALUATION

PAGE URL: http://biblioteca.comunevignanello.eu/

ERRORS GROUPED BY PRINCIPLES

- PERCEIVABLE: 436
- UNDERSTANDABLE: 3
- OPERABLE: 72
- ROBUST: 3

E/W	Errors	No. of occurrences
	PERCEIVABLE	
E	SC 1.4.4 - 1.4.10 - Tech SCR34 Calculating size and position in a way that scales with text size	8
E	SC 1.4.13 - Tech 1.4.13-ST2 CSS: Using hover and focus pseudo classes	1
E	SC 1.3.4 - Tech F97 Failure due to locking the orientation to landscape or portrait view	1
E	SC 1.4.11 - Tech F78 Failure due to styling element outlines and borders in a way that removes or renders non-visible the visual focus indicator	1
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	66
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	6
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	1

PAGES EVALUATION

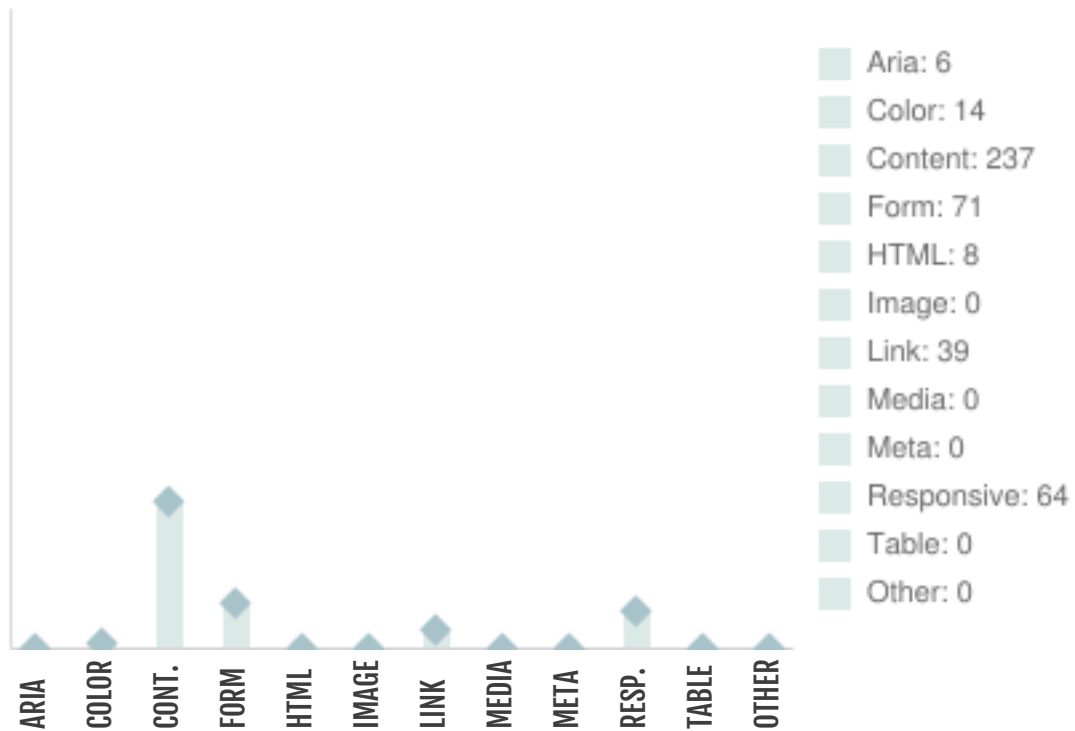| E/W	Errors	No. of occurrences
E	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	24
E	SC 1.3.1 - Tech ARIA16 Using aria-labelledby to provide a name for user interface controls	1
E	SC 1.4.3 - 1.4.11 - Tech G18 Ensuring that a contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text	14
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	213
W	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	39
W	SC 1.3.1 - Tech G162 Positioning labels to maximize predictability of relationships	1
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	55
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	4
UNDERSTANDABLE		
E	SC 3.2.2 - Tech H32 Providing submit buttons	1
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	1
W	SC 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	1
OPERABLE		
E	SC 2.4.7 - Tech F78 Failure due to styling element outlines and borders in a way that removes or renders non-visible the visual focus indicator	1
E	SC 2.4.7 - Tech G195 Using an author-supplied, highly visible focus indicator	66
W	SC 2.4.2 - Tech G88 Providing descriptive titles for Web pages	1
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	4
ROBUST		
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	1

PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 4.1.2 - Tech ARIA16 Using aria-labelledby to provide a name for user interface controls	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	1

PAGES EVALUATION

PAGE URL: http://biblioteca.comunevignanello.eu/

ERRORS GROUPED BY CATEGORIES

Aria: 6
Color: 14
Content: 237
Form: 71
HTML: 8
Image: 0
Link: 39
Media: 0
Meta: 0
Responsive: 64
Table: 0
Other: 0

E/W	Errors	No. of occurrences
ARIA		
E	SC 1.3.1 - 4.1.2 - Tech ARIA16 Using aria-labelledby to provide a name for user interface controls	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	1
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	4
COLOR		

PAGES EVALUATION

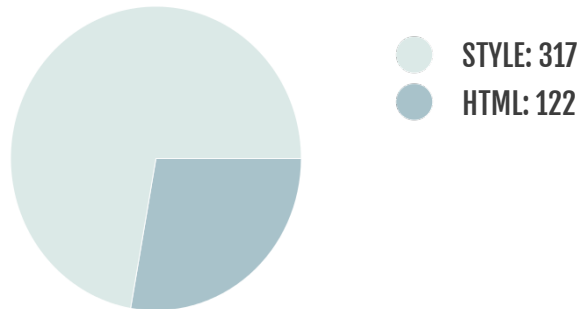| E/W	Errors	No. of occurrences
E	SC 1.4.3 - 1.4.11 - Tech G18 Ensuring that a contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text	14
CONTENT		
E	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	24
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	213
FORM		
E	SC 1.4.13 - Tech 1.4.13-ST2 CSS: Using hover and focus pseudo classes	1
E	SC 3.2.2 - Tech H32 Providing submit buttons	1
E	SC 1.4.11 - 2.4.7 - Tech F78 Failure due to styling element outlines and borders in a way that removes or renders non-visible the visual focus indicator	1
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	1
E	SC 1.4.11 - 2.4.7 - Tech G195 Using an author-supplied, highly visible focus indicator	66
E	SC 1.1.1 - 1.3.1 - 3.3.2 - 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	1
HTML		
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	6
W	SC 2.4.2 - Tech G88 Providing descriptive titles for Web pages	1
W	SC 1.3.1 - 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	1
LINK		
W	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	39
RESPONSIVE		
E	SC 1.4.4 - 1.4.10 - Tech SCR34 Calculating size and position in a way that scales with text size	8

PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.3.4 - Tech F97 Failure due to locking the orientation to landscape or portrait view	1
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	55

PAGES EVALUATION

PAGE URL: http://biblioteca.comunevignanello.eu/

ERRORS GROUPED BY HTML VS STYLE

STYLE: 317
HTML: 122

E/W	Errors	No. of occurrences
	STYLE	
E	SC 1.4.4 - 1.4.10 - Tech SCR34 Calculating size and position in a way that scales with text size	8
E	SC 1.4.13 - Tech 1.4.13-ST2 CSS: Using hover and focus pseudo classes	1
E	SC 1.3.4 - Tech F97 Failure due to locking the orientation to landscape or portrait view	1
E	SC 1.4.11 - 2.4.7 - Tech F78 Failure due to styling element outlines and borders in a way that removes or renders non-visible the visual focus indicator	1
E	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	24
E	SC 1.4.3 - 1.4.11 - Tech G18 Ensuring that a contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text	14
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	213
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	55
	HTML	

PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 3.2.2 - Tech H32 Providing submit buttons	1
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	1
E	SC 1.4.11 - 2.4.7 - Tech G195 Using an author-supplied, highly visible focus indicator	66
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	6
E	SC 1.1.1 - 1.3.1 - 3.3.2 - 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	1
E	SC 1.3.1 - 4.1.2 - Tech ARIA16 Using aria-labelledby to provide a name for user interface controls	1
W	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	39
W	SC 2.4.2 - Tech G88 Providing descriptive titles for Web pages	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	1
W	SC 1.3.1 - 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	1
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	4

HIIS LAB @ ISTI-CNR

Pisa • Italy

Interest in design and development of interactive software applications has increased considerably over the last few years. The underlying reason for this interest is the need to provide the greatest number of people with access to applications for the largest number of purposes and in the widest number of contexts. Our research activity is in methods and tools to support user interface designers, software developers, and end users in obtaining systems that can be accessed from different contexts of use (devices, users, physical and social environments) in such a way to improve usability, accessibility, and user experience.

The main goal is to propose new solutions in basic and applied research in the field of human-computer interaction, specifically in user interface software and technologies, mainly under the aegis of national and international programmes and private sector R&D contracts. One of the first groups in Italy in the HCI area, we have become well-known at an International level, as demonstrated by participation in numerous European projects and the board of the most important HCI conferences, and publications in the major HCI and software engineering journals and conferences.

The main research areas concern Methods and Tools for the Analysis, Design and Development of Interactive Applications, Intelligent Interfaces, Interfaces for Ubiquitous Applications, MultiModal Interfaces, Accessibility, Usability Engineering and Models for HCI. Such work has led to the development of a numbers of tools and applications, many of which are publicly available for download.

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GLOSSARY

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GUIDELINE: it expresses general concepts about the accessibility of Web pages and it is composed of one or more criteria (for example, "Provide text alternatives for any non-text content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language").

CRITERION: it specializes concepts from a guideline, focusing on a particular aspect of the Web pages and it is composed of one or more checkpoints, (for example, "All non-text content that is presented to the user has a text alternative that serves the equivalent purpose").

CHECKPOINT: consists of one or more checks and expresses concretely the requirements that must be met by one or more components of a Web page (tags, attributes, CSS properties etc.), such as "Accessibility issue, due to omitting the alt attribute on img elements, area elements, and input elements of type image".

✵ EVALUATION OVERVIEW

BASE URL	http://biblioteca.comunevignanello.eu/
CRAWLING PARAMETERS	
Number of pages	1
Depth	10
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	21 dic 2022
EVALUATION TIME	9:54:4

MAUVE++ ACCESSIBILITY PERCENTAGE

The MAUVE++ accessibility percentage is a measure which indicates how much the website is accessible in terms of the number of checkpoints successfully evaluated over the total number of evaluated checkpoints for which the tool has been able to make a validation. Such a measure is computed over the total of the evaluated web pages.

96%
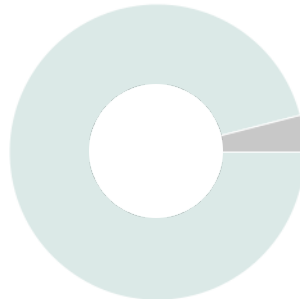
MAUVE++ EVALUATION COMPLETENESS

The MAUVE++ evaluation completeness is a measure which indicates the percentage of evaluated checkpoints for which the tool has been able to make a validation. Such a measure is computed over the total of the evaluated web pages.
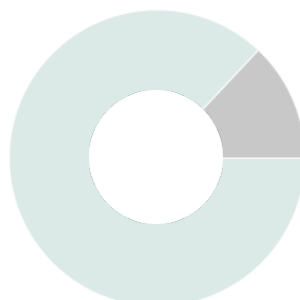
87%

EVALUATION OVERVIEW

TOTAL ERRORS

We compute the number of erroneus checkpoints for all the evaluated web pages, the total number of occurrences, and the average number of errors' occurrences per page.

12   TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

125   TOTAL ERROR OCCURRENCIES FOUND

125   AVERAGE ERROR OCCURENCIES PER PAGE

TOTAL WARNINGS

We compute the number of warning checkpoints for all the evaluated web pages, the total number of occurrences, and the average number of warnings' occurrences per page.

7   TOTAL CHECKPOINT TYPES WITH RESULT "WARNING"

302   TOTAL WARNINGS OCCURENCIES FOUND

302   AVERAGE WARNING OCCURENCIES PER PAGE

EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneus pages of the website, according to the occurrences of errors found in each evaluated page.
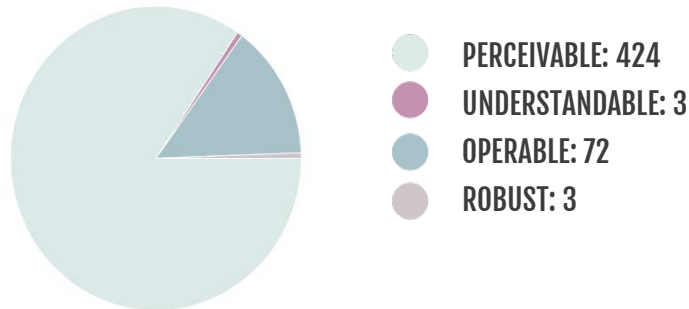
1. http://biblioteca.comunevignanello.eu/

PAGES EVALUATION

PAGE URL: http://biblioteca.comunevignanello.eu/

ERRORS GROUPED BY PRINCIPLES

- PERCEIVABLE: 424
- UNDERSTANDABLE: 3
- OPERABLE: 72
- ROBUST: 3

E/W	Errors	No. of occurrences
	PERCEIVABLE	
E	SC 1.4.4 - 1.4.10 - Tech SCR34 Calculating size and position in a way that scales with text size	8
E	SC 1.4.13 - Tech 1.4.13-ST2 CSS: Using hover and focus pseudo classes	1
E	SC 1.3.4 - Tech F97 Failure due to locking the orientation to landscape or portrait view	1
E	SC 1.4.11 - Tech F78 Failure due to styling element outlines and borders in a way that removes or renders non-visible the visual focus indicator	1
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	66
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	6
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	1

PAGES EVALUATION

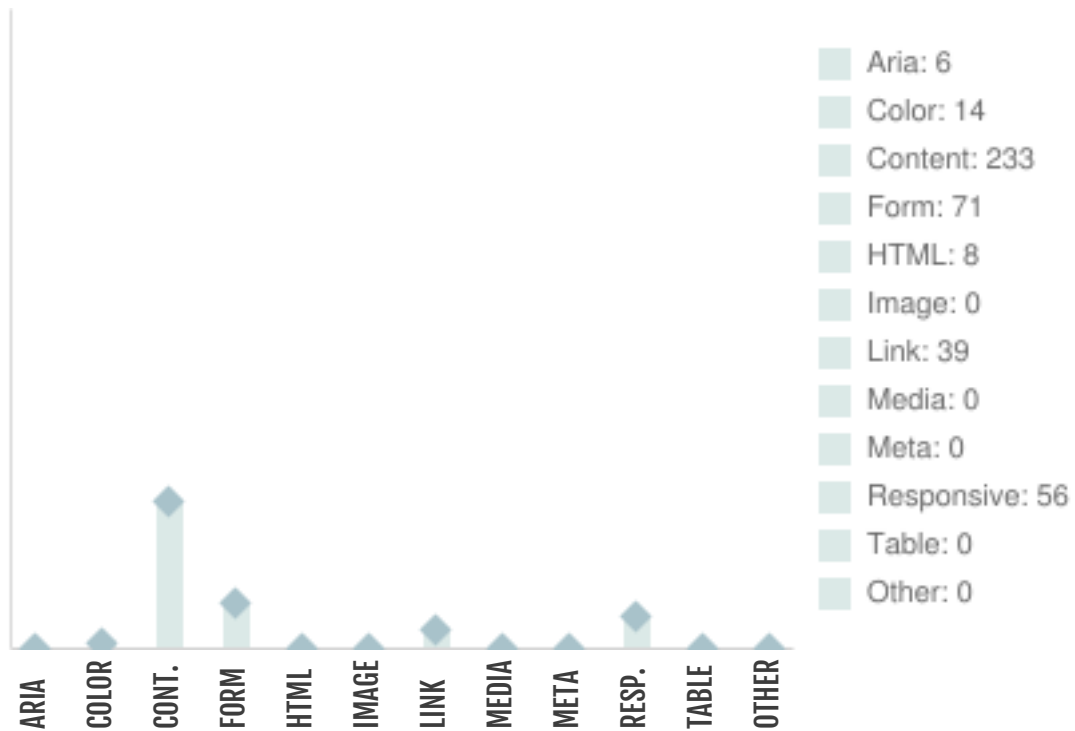| E/W	Errors	No. of occurrences
E	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	24
E	SC 1.3.1 - Tech ARIA16 Using aria-labelledby to provide a name for user interface controls	1
E	SC 1.4.3 - 1.4.11 - Tech G18 Ensuring that a contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text	14
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	209
W	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	39
W	SC 1.3.1 - Tech G162 Positioning labels to maximize predictability of relationships	1
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	47
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	4
UNDERSTANDABLE		
E	SC 3.2.2 - Tech H32 Providing submit buttons	1
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	1
W	SC 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	1
OPERABLE		
E	SC 2.4.7 - Tech F78 Failure due to styling element outlines and borders in a way that removes or renders non-visible the visual focus indicator	1
E	SC 2.4.7 - Tech G195 Using an author-supplied, highly visible focus indicator	66
W	SC 2.4.2 - Tech G88 Providing descriptive titles for Web pages	1
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	4
ROBUST		
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	1

PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 4.1.2 - Tech ARIA16 Using aria-labelledby to provide a name for user interface controls	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	1

PAGES EVALUATION

PAGE URL: http://biblioteca.comunevignanello.eu/

ERRORS GROUPED BY CATEGORIES

Aria: 6
Color: 14
Content: 233
Form: 71
HTML: 8
Image: 0
Link: 39
Media: 0
Meta: 0
Responsive: 56
Table: 0
Other: 0

E/W	Errors	No. of occurrences
	ARIA	
E	SC 1.3.1 - 4.1.2 - Tech ARIA16 Using aria-labelledby to provide a name for user interface controls	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	1
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	4
	COLOR	

PAGES EVALUATION

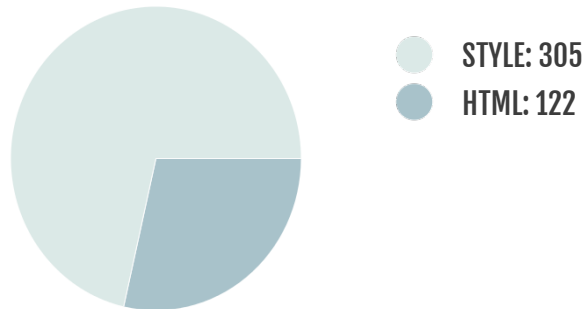| E/W	Errors	No. of occurrences
E	SC 1.4.3 - 1.4.11 - Tech G18 Ensuring that a contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text	14
CONTENT		
E	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	24
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	209
FORM		
E	SC 1.4.13 - Tech 1.4.13-ST2 CSS: Using hover and focus pseudo classes	1
E	SC 3.2.2 - Tech H32 Providing submit buttons	1
E	SC 1.4.11 - 2.4.7 - Tech F78 Failure due to styling element outlines and borders in a way that removes or renders non-visible the visual focus indicator	1
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	1
E	SC 1.4.11 - 2.4.7 - Tech G195 Using an author-supplied, highly visible focus indicator	66
E	SC 1.1.1 - 1.3.1 - 3.3.2 - 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	1
HTML		
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	6
W	SC 2.4.2 - Tech G88 Providing descriptive titles for Web pages	1
W	SC 1.3.1 - 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	1
LINK		
W	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	39
RESPONSIVE		
E	SC 1.4.4 - 1.4.10 - Tech SCR34 Calculating size and position in a way that scales with text size	8

PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.3.4 - Tech F97 Failure due to locking the orientation to landscape or portrait view	1
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	47

PAGES EVALUATION

PAGE URL: http://biblioteca.comunevignanello.eu/

ERRORS GROUPED BY HTML VS STYLE

STYLE: 305
HTML: 122

E/W	Errors	No. of occurrences
	STYLE	
E	SC 1.4.4 - 1.4.10 - Tech SCR34 Calculating size and position in a way that scales with text size	8
E	SC 1.4.13 - Tech 1.4.13-ST2 CSS: Using hover and focus pseudo classes	1
E	SC 1.3.4 - Tech F97 Failure due to locking the orientation to landscape or portrait view	1
E	SC 1.4.11 - 2.4.7 - Tech F78 Failure due to styling element outlines and borders in a way that removes or renders non-visible the visual focus indicator	1
E	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	24
E	SC 1.4.3 - 1.4.11 - Tech G18 Ensuring that a contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text	14
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	209
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	47
	HTML	

PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 3.2.2 - Tech H32 Providing submit buttons	1
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	1
E	SC 1.4.11 - 2.4.7 - Tech G195 Using an author-supplied, highly visible focus indicator	66
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	6
E	SC 1.1.1 - 1.3.1 - 3.3.2 - 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	1
E	SC 1.3.1 - 4.1.2 - Tech ARIA16 Using aria-labelledby to provide a name for user interface controls	1
W	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	39
W	SC 2.4.2 - Tech G88 Providing descriptive titles for Web pages	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	1
W	SC 1.3.1 - 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	1
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	4

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The main goal is to propose new solutions in basic and applied research in the field of human-computer interaction, specifically in user interface software and technologies, mainly under the aegis of national and international programmes and private sector R&D contracts. One of the first groups in Italy in the HCI area, we have become well-known at an International level, as demonstrated by participation in numerous European projects and the board of the most important HCI conferences, and publications in the major HCI and software engineering journals and conferences.

The main research areas concern Methods and Tools for the Analysis, Design and Development of Interactive Applications, Intelligent Interfaces, Interfaces for Ubiquitous Applications, MultiModal Interfaces, Accessibility, Usability Engineering and Models for HCI. Such work has led to the development of a numbers of tools and applications, many of which are publicly available for download.

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