

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

PNRR

Missione 1 – Componente 1 – Asse 1

Investimento PNRR

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento

dell'accessibilità dei servizi pubblici digitali"



CUP	D54F23002080006
Progetto	"CMGE INCLUSION" – Città Metropolitana di Genova
Attività	A5 - Riduzione delle tipologie di errore di accessibilità del servizio istanze online "SEGNALACI"
Sub-attività	A5.1 Valutazione delle tipologie di errore di accessibilità
Codice deliverable	D.5.1.1
Titolo deliverable	Verifica tecnica di accessibilità ex ante del servizio on line SEGNALACI
Autori	<i>Gloria Giordano, Flavio Rossi</i>
Approvato da	<i>Maurizio Torre</i>
Data	11/01/2024

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

Sommario

1	Introduzione	3
2	Il portale “SEGNALACI”	3
3	Utilizzo del servizio on line: Invio di una segnalazione.....	6
3.1	Pagina: Introduzione.....	6
3.2	Pagina: Form di compilazione segnalazione.....	7
3.3	Pagina: Segnalazione	8
3.4	Pagina: Segnalazioni	9
3.5	Pagina: Le mie attività	11
3.6	Pagina: Profilo utente.....	13
3.7	Pagina: Impostazione delle notifiche	13
3.8	Pagina: Statistiche	14
4	Verifica tecnica dell’accessibilità	15
4.1	Tipologie di errori di accessibilità per le pagine web	16
4.2	Tipologie di errori di accessibilità per i PDF.....	17
5	ALLEGATO: Report di dettaglio pagina “Introduzione”	20
6	ALLEGATO: Report di dettaglio pagina “Form di compilazione segnalazione”	21
7	ALLEGATO: Report di dettaglio pagina “Segnalazione”	22
8	ALLEGATO: Report di dettaglio pagina “Segnalazioni”	23
9	ALLEGATO: Report di dettaglio pagina “Le mie attività”	24
10	ALLEGATO: Report di dettaglio pagina “Profilo utente”	25
11	ALLEGATO: Report di dettaglio pagina “Impostazione delle notifiche”	26
12	ALLEGATO: Report di dettaglio pagina “Statistiche”	27

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

1 Introduzione

Il presente documento illustra i risultati della verifica tecnica di accessibilità ex ante del servizio on line "SEGNALACI", oggetto del finanziamento del progetto "CMGE INCLUSION".

Tale verifica ha la finalità di individuare, per tale servizio, tutte le tipologie di errori di accessibilità prendendo a riferimento i criteri di successo A e AA delle Web Content Accessibility Guidelines WCAG 2.1 (<https://www.w3.org/Translations/WCAG21-it/>).

2 Il portale "SEGNALACI"

Segnalaci è una piattaforma che consente ai cittadini di formulare suggerimenti e segnalazioni al proprio Comune (o alla Città Metropolitana di Genova) per il miglioramento dei servizi offerti e la vivibilità del territorio.

Il primo passo è la scelta del territorio. Per agevolare il cittadino nel suo iter di segnalazione, è stata creata una **Single Page APP** (a cui si accede dall'URL <https://segnalazioni.genovametropoli.it/>) che consente, tramite una semplice cartografia, di individuare il Comune per cui si vuole effettuare la segnalazione.



Agendo sulla tendina oppure navigando la cartografia è possibile selezionare il Comune desiderato che abilita l'apertura di una nuova sezione nella pagina, dove è possibile selezionare la piattaforma di segnalazione desiderata. Questo perché alla piattaforma **Segnalaci** della Città Metropolitana di Genova, si affiancano altre piattaforme dedicate a segnalazioni specifiche.

Ad esempio, selezionando il Comune di **RONCO SCRIVIA** si avrà la possibilità di effettuare una segnalazione in tema di rifiuti (segnalazione che viene inviata direttamente al gestore del servizio AMIU) oppure effettuare una segnalazione differente.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

 **Segnalaci**
Genova Metropolitana

Italiano

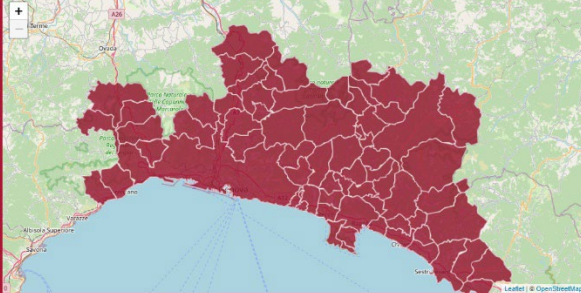
Permette di inviare 2 tipi di messaggi:

La **SEGNALAZIONE**, per aiutarci a prevenire stati di rischio e/o a rimediare a situazioni di pericolo, disservizi, rilevati sul territorio di un comune metropolitano quali ad esempio problemi di illuminazione pubblica, buche stradali, segnaletica deteriorata, pericoli di crolli, ecc.

La **COMUNICAZIONE**, per farci avere i vostri suggerimenti per migliorare la qualità dei servizi erogati dagli enti del territorio.

CERCA IL TERRITORIO SU CUI ATTIVARE LA SEGNALAZIONE

Scegli il comune



Comune di Ronco Scrivia

 Segnala per servizio rifiuti e igiene urbana (AMIU)

 Segnala altre tipologie di servizio

Selezionando il secondo link, si accede alla homepage della piattaforma **Segnalaci** di Città Metropolitana di Genova (<https://segnalazioni.cittametropolitana.genova.it/?area=182>) mantenendo, nell'URL, l'indicazione della zona per cui si desidera effettuare la segnalazione.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"



ITALIANO ENGLISH

INFORMAZIONI + SEGNALAZIONI ACCEDI



Segnala!

Attraverso la piattaforma i cittadini possono formulare suggerimenti, segnalazioni e reclami su mappa per il miglioramento della qualità dei servizi offerti e la vivibilità del nucleo abitato.

Accedi

Per partecipare, devi essere registrato

Vuoi accedere con la tua identità digitale
SPID?

Città Metropolitana di Genova utilizza il Sistema Pubblico di Identità Digitale SPID per accedere ai servizi on line.

Per maggiori informazioni su SPID <https://www.spid.gov.it>

Se sei un cittadino straniero puoi registrare il tuo utente direttamente in SegnalaCi

Accedi con SPID

Hai un account SegnalaCi?

Se possiedi un account SegnalaCi abilitato puoi eseguire qui l'accesso

Accedi

CONTATTI

Città Metropolitana di Genova

E-mail: segnalaci@comet.genova.it

[Cookie Policy](#)

Cos'è SegnalaCi

SegnalaCi consente alla Città Metropolitana di Genova ed alle amministrazioni comunali del territorio di mettersi in ascolto dei cittadini, raccogliendo, da vari canali digitali, i suggerimenti, le osservazioni e le segnalazioni sulla vita del territorio in tutti i suoi diversi ambiti. Attraverso il canale web, usando un pc o il proprio smartphone, il cittadino è chiamato a partecipare ancora più attivamente al costante processo di miglioramento della propria amministrazione.

© 2022 OpenSegnalazioni 3.0.34 @93232085 made with ♥ by Opencontent

In questa pagina l'utente trova diverse informazioni generali relative al servizio e la possibilità di proseguire l'iter di segnalazione, accessibile tramite SPID o inserendo utente/password. Quest'ultima funzionalità è stata abilitata unicamente per quelle categorie di utenti che non possono dotarsi di strumento di identità nazionale (come ad esempio i turisti stranieri)

Come vedremo in seguito nel documento, la modalità di segnalazione è analoga per qualsiasi comune selezionato e si basa sulla scelta di **categorie** che coinvolgono direttamente l'amministrazione comunale oppure la Città Metropolitana di Genova per le funzioni che la caratterizzando quale ente di secondo livello:

CATEGORIA DI SEGNALAZIONE	COMPETENZA
Ambiente	COMUNE
Rifiuti e Igiene Urbana	COMUNE
Manutenzioni (illuminazione, arredo urbano, verde, cimiteri)	COMUNE
Polizia Locale	COMUNE

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

Strade comunali	COMUNE
Edilizia residenziale pubblica	COMUNE
Servizi socio-assistenziali (assistenza domiciliare, servizi sociali)	COMUNE
Commercio	COMUNE
Anagrafe e servizi civici	COMUNE
Protezione Civile e sicurezza del territorio	COMUNE
Beni e attività culturali, manifestazioni ed eventi	COMUNE
Riqualificazione urbana, opere pubbliche	COMUNE
Impianti sportivi	COMUNE
Servizi scolastici (asilo, refezione, trasporto, edilizia scolastica)	COMUNE
Urbanistica e Piano Urbanistico Comunale	COMUNE
Servizi informatici comunali (sito, accessi, servizi digitalizzati)	COMUNE
Servizi informatici Città Metropolitana (sito, accessi, servizi digitalizzati)	CITTA' METROPOLITANA
Edifici scuole superiori	CITTA' METROPOLITANA
Strade provinciali	CITTA' METROPOLITANA
Trasporto pubblico locale	CITTA' METROPOLITANA

3 Utilizzo del servizio on line: Invio di una segnalazione

In questa sezione sono illustrate, in ordine cronologico, le pagine web proposte dal servizio on line che sono oggetto di verifica delle tipologie di errore di accessibilità

3.1 Pagina: Introduzione

Dopo aver fatto l'accesso con SPID (o con username/password), viene presentata una pagina web introduttiva

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"



Segnala!

Attraverso la piattaforma i cittadini possono formulare suggerimenti, segnalazioni e reclami su mappa per il miglioramento della qualità dei servizi offerti e la vivibilità del nucleo abitato.

Le segnalazioni che hanno carattere di emergenza o pericolo dovranno essere inoltrate via telefonica al numero unico 112.

Segnala

CONTATTI

Città Metropolitana di Genova

E-mail per segnalazioni tecniche sul portale: segnala@citymetropolitana.genova.it

ATTENZIONE: non utilizzare questa mail per segnalazioni relative al territorio

[Cookie Policy](#)

Cos'è SegnalaCi

SegnalaCi consente alla Città Metropolitana di Genova ed alle amministrazioni comunali del territorio di mettersi in ascolto dei cittadini, raccogliendo le segnalazioni, i suggerimenti e le osservazioni su servizi del territorio. Attraverso il canale web, usando un pc o il proprio smartphone, il cittadino è chiamato a partecipare più attivamente al costante processo di miglioramento della propria comunità.

Cliccando sul bottone “**Segnala**” si accede alla form per la compilazione delle informazioni relative alla segnalazione.

3.2 Pagina: Form di compilazione segnalazione

La pagina di segnalazione si compone di due parti. Sulla sinistra viene visualizzata la cartografia del territorio comunale selezionato e sulla destra il form da compilare.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

Il sistema inizialmente chiede di inserire un titolo ed una descrizione della segnalazione, e di selezionare la categoria a cui fa riferimento la segnalazione.

Cliccando sul bottone **“Successivo”** il form propone la possibilità di indicare sulla cartografia la posizione esatta della segnalazione e, successivamente, la possibilità di inserire foto a corredo.

Al termine, cliccando sul bottone **“Invia”**, la segnalazione viene presa in carico dal sistema.

3.3 Pagina: Segnalazione

Dopo l’invio, il sistema assegna la segnalazione al personale dell’Ente incaricato della gestione. Viene proposto al cittadino una pagina web di riepilogo della segnalazione. Da tale pagina è anche possibile scaricare un PDF con le stesse informazioni.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”



ITALIANO ENGLISH
INFORMAZIONI • SEGNALAZIONI LE MIE ATTIVITÀ **SEGNALA** FR

Inviata **10148** test

Segnalazione · Flavio Nunzio Rossi

test

Pubblicata il 29/12/2023 08:40 Ultima modifica di 29/12/2023 08:40 0 commenti - 0 risposte ufficiali

Via Oneto 16019 Ronco Scrivia



Aggiungi commento

Aggiungi immagine

Come ti sei trovato con questo servizio fino ad ora?

★★★★★

Riferimento per il cittadino

CMGE - Ufficio Sistemi Informativi

Osservatori

CMGE - Ufficio Sistemi Informativi -

Osservatori

Tipologia

Segnalazione

Zona

Ronco Scrivia

Categoria

Servizi Informativi Città Metropolitana
(sito, accessi, servizi digitalizzati)

Visibilità

privato

Allegati

Nessuna allegata

CONTATTI

Città Metropolitana di Genova

E-mail per segnalazioni tecniche sul portale: segnalaci@ciommetropolitano.genova.it

ATTENZIONE: non utilizzare questa mail per segnalazioni relative al territorio

[Cookie Policy](#)

Cos'è SegnalaCi

SegnalaCi consente alla Città Metropolitana di Genova ed alle amministrazioni comunali del territorio di mettersi in ascolto dei cittadini, raccogliendo le segnalazioni, i suggerimenti e le osservazioni su servizi del territorio. Attraverso il canale web, usando un pc o il proprio smartphone, il cittadino è chiamato a partecipare più attivamente al costante processo di miglioramento della propria comunità.

© 2023 OpenSegnalazioni 3.0.45 @F67293 made with ♥ by Opencontent

3.4 Pagina: Segnalazioni

Cliccando sulla voce “**SEGNALAZIONI**” nel menù posizionato ad inizio pagina, è possibile accedere ad una nuova pagina che riporta l’elenco delle segnalazioni che sono state presentate dal cittadino, con l’informazione, per ciascuna, dello stato dell’iter. Le stesse sono mostrate geolocalizzate sulla cartografia.

Cliccando sul bottone “**Dettagli**” (oppure sul numero assegnato a ciascuna segnalazione), si accede alla pagina di dettaglio della segnalazione stessa, visto precedentemente

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

SegnalaCi
Città Metropolitana di Genova

ITALIANO

INFORMAZIONI • SEGNALAZIONI • LE MIE ATTIVITÀ • SEGNALA

18 segnalazioni

Inviata 10148 test

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 1291220220840 | ID Ultima modifica: 29/12/2022 08:40
Info: 18219 Rocco Sorio | **Servizi:** Informatica | Città Metropolitana (poi, acqua, energia digitale)
 test

Chiusa 5694 Cumulo di fogliame su SP3

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 1291220221134 | ID Ultima modifica: 30/12/2022 11:34
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 Si segnala la presenza di un cumulo di fogliame, pericolo per la viabilità, sulla strada provinciale SP3, nel grosso dell'abitato di Piedimonte. Allega foto e posizione

Chiusa 4963 C'è un buco sull'asfalto

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 12912202217112 | ID Ultima modifica: 04/01/2023 17:12
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 Per favore intervenire

Chiusa 3218 Segnalazione di test 02dic2022

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 12912202214058 | ID Ultima modifica: 02/12/2022 14:05
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 Segnalazione di test 02dic2022Segnalazione di test 02dic2022Segnalazione di test 02dic2022Segnalazione di test 02dic2022

Chiusa 2723 Prova segnalazione del 7 novembre 2022

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 1291120221047 | ID Ultima modifica: 07/11/2022 10:50
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 Prova segnalazione del 7 novembre 2022

Chiusa 2492 Prova segnalazione del 14 ott 2022

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 14/10/2022 10:07 | ID Ultima modifica: 21/09/2022 10:04
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 Prova segnalazione del 14 ott 2022

Chiusa 2296 prova di fluvio

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 128/09/2022 14:25 | ID Ultima modifica: 20/09/2022 10:00
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 prova di fluvio

Chiusa 2228 Prova segnalazione del 23/09 alle 9:35

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 123/09/2022 09:35 | ID Ultima modifica: 21/09/2022 10:00
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 Proviamo il flusso indicato da OpenContent (AUT: non considerare la chiamata)

Inviata 1733 Prova numero 2 da Flavio

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 15/08/2022 11:03
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 Prova numero 2 da Flavio

Chiusa 1700 Prova segnalazione IT

Segnalazione: Flavio Maurizio Rossi | ID Pubblicazione: 16/08/2022 10:03 | ID Ultima modifica: 16/08/2022 10:08
Info: 18219 Rocco Sorio | **Servizi:** 180 | **Problemi:** 180 | **Stato:** In attesa
 Prova segnalazione IT

1 2

CONTATTI

Città Metropolitana di Genova

Contatti per segnalazioni servizi su portale segnalacim.genova.it
 ATENZIONE: non utilizzare generici per segnalare problemi ai servizi
 Come fare? >

Cos'è SegnalaCi

SegnalaCi consente alla Città Metropolitana di Genova ed alle amministrazioni comunali del territorio di mettere in ascolto dei cittadini, raccogliere le segnalazioni, i suggerimenti e le espressioni di pareri del territorio, incrementare la trasparenza, creare un più diretto contatto tra i cittadini e i servizi e partecipare più attivamente al ciclo dei processi di miglioramento della propria comunità.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

3.5 Pagina: Le mie attività

Cliccando sulla voce “**LE MIE ATTIVITÀ**” nel menù posizionato ad inizio pagina, è possibile accedere ad una pagina, simile alla precedente, che riporta l’elenco delle segnalazioni che sono state presentate dal cittadino.

Cliccando sul bottone “**Dettagli**”, si accede alla pagina di dettaglio della segnalazione stessa, visto precedentemente

PIANO NAZIONALE DI RIPRESA E RESILIENZA
Missione 1 - Componente 1 - Asse 1
Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”



ITALIANO ENGLISH
INFORMAZIONI SEGNALAZIONI LE MIE ATTIVITÀ **SEGNALA** FR

Le mie attività

Legenda indica la presenza di commenti indica la presenza di variazioni in cronologia non lette

Cerca nelle segnalazioni				
Stato	Zona	Tipologia	Data di pubblicazione	
10148	Segnalazione	Intesa	Publicata il 29/12/2023 08:40	Modificato il 29/12/2023 08:40
Servizi informati Città Metropolitana (sito, accessi, servizi digitalizzati) Ronco Scrivia				
test				
2296	Segnalazione	Chiusa	Publicata il 28/09/2022 14:30	Modificato il 25/09/2023 10:00
Trasporto pubblico locale Ronco Scrivia				
prova di flauto				
2492	Segnalazione	Chiusa	Publicata il 14/10/2022 12:07	Modificato il 21/09/2023 15:04
Trasporto pubblico locale Ronco Scrivia				
Prova segnalazione del 14 ott 2022				
2228	Segnalazione	Chiusa	Publicata il 23/09/2022 09:36	Modificato il 21/09/2023 15:00
Trasporto pubblico locale Ronco Scrivia				
Prova segnalazione del 23/09 alle 9:35				
5694	Segnalazione	Chiusa	Publicata il 29/09/2023 13:55	Modificato il 30/05/2023 11:34
Strade provinciali Serra Riccò				
Cumulo di foglie su SP3				
4903	Segnalazione	Chiusa	Publicata il 04/04/2023 15:12	Modificato il 04/04/2023 15:44
Strade provinciali Ronco Scrivia				
C'è un buco sull'asfalto				
3218	Segnalazione	Chiusa	Publicata il 02/12/2022 14:06	Modificato il 02/12/2022 14:32
Strade provinciali Ronco Scrivia				
Segnalazione di test 02dic2022				
2723	Segnalazione	Chiusa	Publicata il 07/11/2022 10:47	Modificato il 07/11/2022 10:56
Trasporto pubblico locale Ronco Scrivia				
Prova segnalazione del 7 novembre 2022				
1733	Segnalazione	Intesa	Publicata il 19/08/2022 11:03	
Trasporto pubblico locale Ronco Scrivia				
Prova numero 2 da Flavio				
1700	Segnalazione	Chiusa	Publicata il 16/08/2022 10:00	Modificato il 16/08/2022 10:08
Servizi informati Città Metropolitana (sito, accessi, servizi digitalizzati) Ronco Scrivia				
Prova segnalazione IT				
1430	Segnalazione	Chiusa	Publicata il 10/06/2022 08:45	Modificato il 10/06/2022 08:58
Urbanistica e Piano Urbanistico Comunale Ronco Scrivia				
Erba troppo alta (segnalazione di test)				
1001	Segnalazione	In carico	Publicata il 17/02/2022 15:03	Modificato il 17/02/2022 15:23
Anagrafe e Servizi civici Ronco Scrivia				
Strada con civico mancante				
186	Segnalazione	In carico	Publicata il 16/07/2021 11:05	Modificato il 19/07/2021 12:23
Roovigno				
Fontanella rotta				
185	Segnalazione	Intesa	Publicata il 12/07/2021 10:23	
Arenzano				
Semaforo spento				
178	Segnalazione	Intesa	Publicata il 09/07/2021 14:51	
Arenzano				
Prova segnalazione da Flavio				

CONTATTI

Città Metropolitana di Genova

Email per segnalazioni tecniche sul portale: segnalaci@ciommetropolitana.genova.it

ATTENZIONE: non utilizzare questa mail per segnalazioni relative al territorio

[Cookie Policy](#)

Cos'è Segnalaci

Segnalaci consente alla Città Metropolitana di Genova ed alle amministrazioni comunali del territorio di mettersi in ascolto dei cittadini, raccogliendo le segnalazioni, i suggerimenti e le osservazioni su servizi del territorio. Attraverso il canale web, usando un pc o il proprio smartphone, il cittadino è chiamato a partecipare più attivamente al costante processo di miglioramento della propria comunità.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

3.6 Pagina: Profilo utente

Nel menù posizionato ad inizio pagina, è presente l'icona con le iniziali del cittadino collegato alla piattaforma. Cliccando nel menu a tendina associato all'icona, è possibile selezionare la voce **"PROFILO"**, che mostra i dati del cittadino memorizzati nella piattaforma

SegnalaCi
Città Metropolitana di Genova

ITALIANO ENGLISH

INFORMAZIONI SEGNALAZIONI LE MIE ATTIVITÀ **SEGNALA**

Profilo utente

Nome

Indirizzo Email

Lingua preferita Salva

Modifica profilo

CONTATTI

Città Metropolitana di Genova

E-mail per segnalazioni tecniche sul portale: segnala@cm.genova.it

ATTENZIONE: non utilizzare questa mail per segnalazioni relative al territorio

[Cookie Policy](#)

Cos'è SegnalaCi

SegnalaCi consente alla Città Metropolitana di Genova ed alle amministrazioni comunali del territorio di mettersi in ascolto dei cittadini, raccogliendo le segnalazioni, i suggerimenti e le osservazioni su servizi del territorio. Attraverso il canale web, quando un pc o il proprio smartphone, il cittadino è chiamato a partecipare più attivamente al costante processo di miglioramento della propria comunità.

© 2023 OpenSegnalazioni 3.0.45 ef9a72e33 made with by OpenContent

3.7 Pagina: Impostazione delle notifiche

Sempre dal menu a tendina associato all'icona relativa al cittadino collegato, è possibile selezionare la voce **"NOTIFICHE"**.

Nella pagina web proposta, è possibile selezionare per quali azioni del sistema, si vuole ricevere un messaggio di alert via e-mail.

Cliccando sul bottone **"Salva le impostazioni"**, le scelte effettuate vengono salvate nel profilo utente

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

Impostazioni delle notifiche

☒	Creazione di una segnalazione Ricevi una notifica alla creazione di una segnalazione
☒	Assegnazione di una segnalazione Ricevi una notifica quando una tua segnalazione è assegnata a un responsabile
☐	Assegnazione di una segnalazione a un gruppo Ricevi una notifica quando una segnalazione viene assegnata al tuo gruppo
☐	Coinvolgimento di un osservatore Ricevi una notifica quando un osservatore viene coinvolto in una segnalazione
☐	Commento a una segnalazione Ricevi una notifica quando viene aggiunto un commento ad una tua segnalazione
☒	Chiusura di una segnalazione Ricevi una notifica quando una tua segnalazione è stata chiusa
☐	Riapertura di una segnalazione Ricevi una notifica alla riapertura di una tua segnalazione
☐	Coinvolgimento di un riferimento per il cittadino Ricevi una notifica quando una tua segnalazione è assegnata a un nuovo riferimento per il cittadino
Salva le impostazioni	

CONTATTI

Città Metropolitana di Genova

E-mail per segnalazioni tecniche sul portale: segnala@cityamdi.genova.it
ATTENZIONE: non utilizzare questa mail per segnalazioni relative al territorio

[Cookie Policy](#)

Cos'è SegnalaCi

SegnalaCi consente alla Città Metropolitana di Genova ed alle amministrazioni comunali del territorio di mettersi in ascolto dei cittadini, raccogliendo le segnalazioni, i suggerimenti e le osservazioni su servizi del territorio. Attraverso il canale web, usando un pc o il proprio smartphone, il cittadino è chiamato a partecipare più attivamente al costante processo di miglioramento della propria comunità.

3.8 Pagina: Statistiche

Sempre dal menu a tendina associato all'icona relativa al cittadino collegato, è possibile selezionare la voce “STATISTICHE”.

Nella pagina web proposta sono riportati dei report statistici che illustrano, con diverse modalità grafiche, il numero di segnalazioni inserite dal cittadino, raggruppate per stato.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

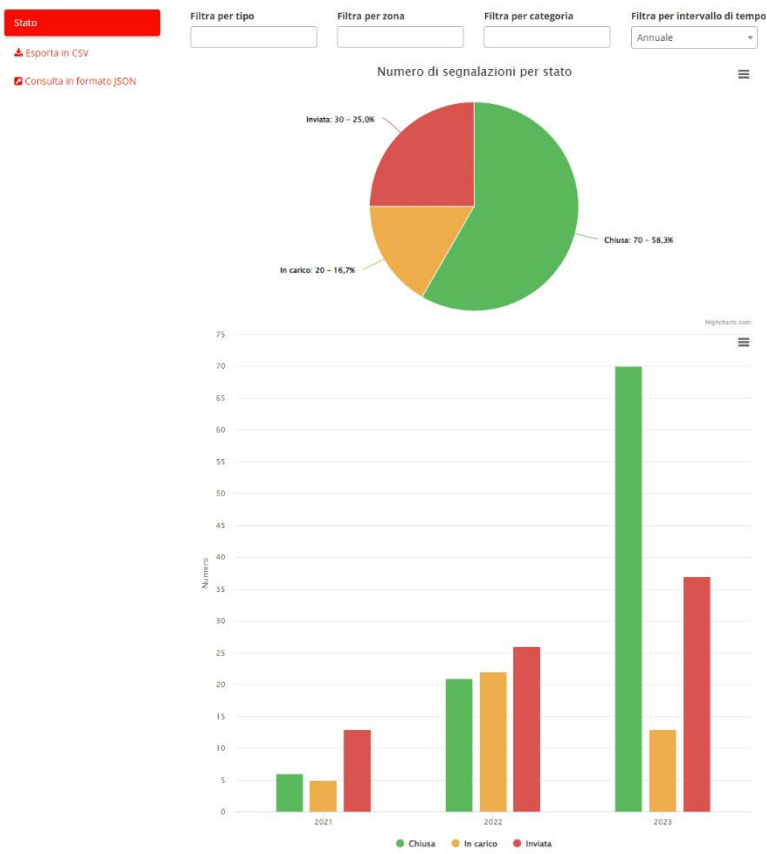
Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"



ITALIANO ENGLISH
INFORMAZIONI • SEGNALAZIONI LE MIE ATTIVITÀ **SEGNALA** FR

Statistiche



CONTATTI

Città Metropolitana di Genova

Email per segnalazioni tecniche sul portale: segnala@cm.genova.it

ATTENZIONE: non utilizzare questa mail per segnalazioni relative al territorio

[Cookie Policy](#)

Cos'è SegnalaCi

SegnalaCi consente alla Città Metropolitana di Genova ed alle amministrazioni comunali del territorio di mettersi in ascolto dei cittadini, raccogliendo le segnalazioni, i suggerimenti e le osservazioni su servizi del territorio. Attraverso il canale web, usando un pc o il proprio smartphone, il cittadino è chiamato a partecipare più attivamente al costante processo di miglioramento della propria comunità.

© 2023 OpenSegnalazioni 3.0.45 ef9a72e33 made with ♥ by OpenContent

4 Verifica tecnica dell'accessibilità

Per la verifica tecnica dell'accessibilità delle pagine web precedentemente illustrate, è stata utilizzata l'estensione per Google Chrome: **MAUVE++**. Tale estensione effettua una scansione dell'intera pagina verificando la conformità ai criteri di successo "A" e "AA" delle linee guida **WCAG 2.1**.

Il risultato della scansione di ciascuna pagina è riassunto in un report di dettaglio che elenca, per ciascun dei quattro principi di accessibilità (percepibile, utilizzabile, comprensibile e robusto) le tipologie di Errori/Warning relativi ai criteri di successo, con il numero di occorrenze incontrate nella pagina.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

Per la finalità di progetto, prendiamo in considerazione solo gli Errori. Di seguito sono elencate, in sintesi, le tipologie di errori riscontrate per l'intero servizio on line di PRATICO. Si rimanda, per il dettaglio di ciascuna pagina, ai report allegati.

I PDF sono valutati con lo strumento **Accessibilità di ADOBE Acrobat Pro**.

4.1 Tipologie di errori di accessibilità per le pagine web

Si riportano le tipologie di errore, suddivise in base ai quattro principi dell'accessibilità

Principio 1: Percepibile		
<i>Le informazioni e i componenti dell'interfaccia utente devono essere percepibili da tutti gli utenti.</i>		
1.1 Alternative Testuali		
1.1.1 Contenuti non testuali	A	- Tech ARIA6 - Using aria-label to provide labels for objects - Tech H44 - Using label elements to associate text labels with form controls. - Tech F65 - Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image - Tech H30 - 1.1.1 - Providing link text that describes the purpose of a link for anchor elements - Tech H37 - Using alt attributes on img elements
1.3 Adattabile		
1.3.1 Informazioni e correlazioni	A	- Tech H44 - Using label elements to associate text labels with form controls. - Tech H42 - Using h1-h6 to identify headings - Tech G140 - Separating information and structure from presentation to enable different presentations
1.3.5 Identificare lo scopo degli input	AA	Tech H98 - Identify the purpose of inputs using the autocomplete value
1.4 Distinguibile		
1.4.1 Uso del colore	A	Tech F73 - Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision
1.4.3 Contrasto (minimo)	AA	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
1.4.5 Immagini di testo	A	Tech G140 - Separating information and structure from presentation to enable different presentations
1.4.10 Ricalcolo del flusso	AA	Tech C38 - Using CSS width, max-width and flexbox to fit labels and inputs
1.4.11 Contrasto in contenuti non testuali	AA	- Tech F78 - Using an author-supplied, highly visible focus indicator - Tech G195 - Using an author-supplied, highly visible focus indicator

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

Principio 2: Utilizzabile <i>Gli utenti devono essere in grado di navigare nel sito e di utilizzare l'interfaccia.</i>		
2.4 Navigabile		
2.4.4 Scopo del collegamento (nel contesto)	A	Tech H30 - Providing link text that describes the purpose of a link for anchor elements
2.4.7 Focus visibile	AA	- Tech F78 - 2.4.7 - Using an author-supplied, highly visible focus indicator - Tech G195-2.4.7 - Using an author-supplied, highly visible focus indicator

Principio 3: Comprensibile <i>Il sito deve essere leggibile e comprensibile, con un'esperienza utente prevedibile.</i>		
3.2 Prevedibile		
3.2.2 All'input	A	Tech H32 - Providing submit buttons
3.3 Assistenza nell'inserimento		
3.3.2 Etichette o istruzioni	A	Tech H44 - Using label elements to associate text labels with form controls.

Principio 4: Robusto <i>I contenuti devono essere compatibili con le tecnologie assistive e abbastanza solidi da rimanere accessibili nel corso del tempo.</i>		
4.1 Compatibile		
4.1.1 Analisi sintattica (parsing)	A	- Tech F77 - Failure of Success Criterion 4.1.1 due to duplicate values of type ID - (SC4.1.1) - Tech H93 - Ensuring that id attributes are unique on a webpage - (SC 4.1.1)
4.1.2 Nome, ruolo, valore	A	Tech H44 - Using label elements to associate text labels with form controls.

4.2 Tipologie di errori di accessibilità per i PDF

Si riporta, di seguito, il report prodotto automaticamente da ADOBE Acrobat Pro per il file della segnalazione "10148.pdf" prodotto dal sistema SEGNALACI.

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

Report di dettaglio		
Documento		
Nome regola	Stato	Descrizione
PDF con tag	Non riuscito	Il documento è un PDF con tag
Ordine di lettura logico	Richiede una verifica manuale	La struttura del documento offre un ordine di lettura logico
Lingua principale	Non riuscito	La lingua del testo è specificata
Titolo	Non riuscito	Il titolo del documento compare nella barra del titolo
Contrasto colore	Richiede una verifica manuale	Il documento presenta contrasto colore appropriato
Contenuto delle pagine		
Nome regola	Stato	Descrizione
Contenuto con tag	Non riuscito	Tutti i contenuti della pagina dispongono di tag
Ordine di tabulazione	Non riuscito	L'ordine di tabulazione è coerente con l'ordine della struttura
Testo alternativo		
Nome regola	Stato	Descrizione
Testo alternativo per figure	Non riuscito	Le figure richiedono testo alternativo
Testo alternativo nidificato	Non riuscito	Testo alternativo che non verrà letto
Associato a contenuto	Non riuscito	Il testo alternativo deve essere associato a un contenuto
Annotazione nascosta	Non riuscito	Le annotazioni non devono essere nascoste da testo alternativo
Testo alternativo per altri elementi	Non riuscito	Altri elementi che richiedono testo alternativo
Tabelle		
Nome regola	Stato	Descrizione
Righe	Non riuscito	TR deve essere un elemento figlio di Table, THead, TBody o TFoot
TH e TD	Non riuscito	TH e TD devono essere elementi figli di TR
Intestazioni	Non riuscito	Le tabelle devono avere delle intestazioni
Regolarità	Non riuscito	Le tabelle devono avere lo stesso numero di colonne per riga e di righe per colonna.
Elenchi		

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 "Citizen inclusion – miglioramento dell'accessibilità dei servizi pubblici digitali"

Nome regola	Stato	Descrizione
Voci elenco	Non riuscito	LI deve essere un elemento figlio di L
Lbl e LBody	Non riuscito	Lbl e LBody devono essere elementi figli di TR
Intestazioni		
Nome regola	Stato	Descrizione
Nidificazione appropriata	Non riuscito	Nidificazione appropriata

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

5 ALLEGATO: Report di dettaglio pagina “Introduzione”



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”.



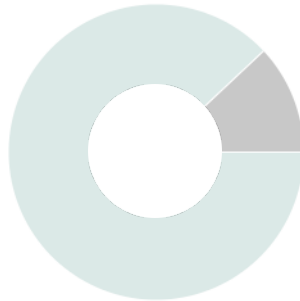
EVALUATION OVERVIEW

BASE URL	https://segnalazioni.cittametropolitana.genova.it/
CRAWLING PARAMETERS	
Number of pages	1
Depth	1
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	Dec 29, 2023
EVALUATION TIME	, 7:15

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.

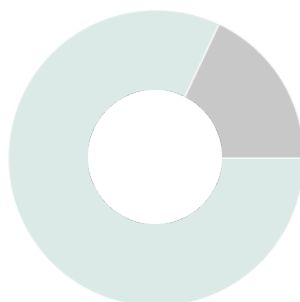
88%



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.

82%





EVALUATION OVERVIEW

TOTAL ERRORS

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

13

TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

122

TOTAL ERROR OCCURENCIES FOUND

122

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"

170

TOTAL WARNINGS OCCURENCIES FOUND

170

AVERAGE WARNING OCCURENCIES PER PAGE



EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneous pages of the website, according to the occurrences of errors found in each evaluated page.

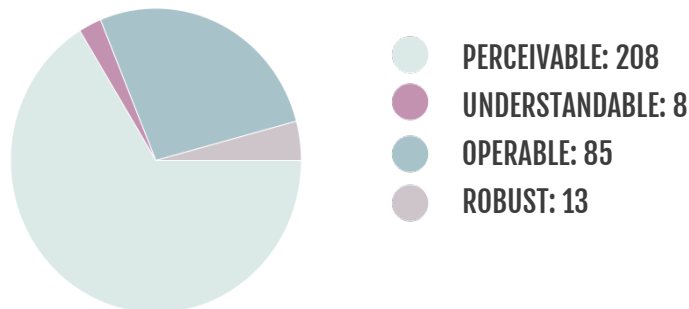
1. <https://segnalazioni.cittametropolitana.genova.it/>



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/>

ERRORS GROUPED BY PRINCIPLES



E/W	Errors	No. of occurrences
PERCEIVABLE		
E	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	26
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	8
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1



PAGES EVALUATION

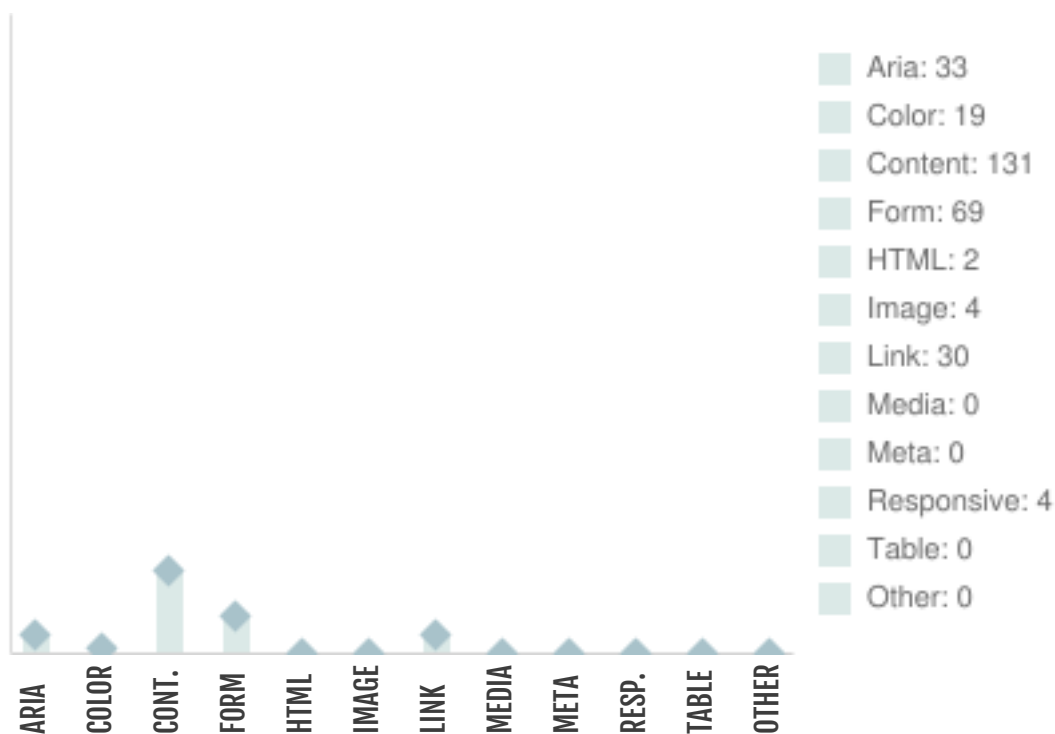
E/W	Errors	No. of occurrences
E	SC 1.4.3 - Tech G18 Ensuring that a contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text	19
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	109
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	6
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	22
UNDERSTANDABLE		
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	8
OPERABLE		
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	27
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	27
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	22
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	6
ROBUST		
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	8
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/>

ERRORS GROUPED BY CATEGORIES



E/W	Errors	No. of occurrences
ARIA		
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	22
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	6
COLOR		



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.4.3 - 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	19
CONTENT		
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	109
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	22
FORM		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
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.	8
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	27
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	27
HTML		
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
IMG		
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
LINK		
E	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	26



PAGES EVALUATION

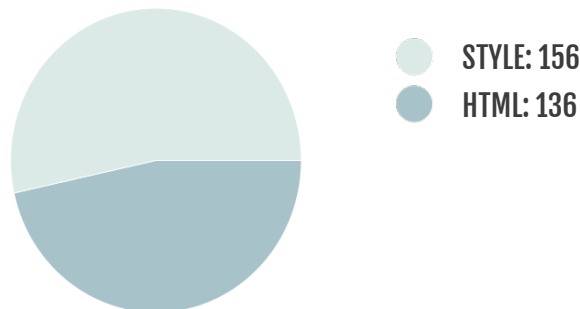
E/W	Errors	No. of occurrences
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
RESPONSIVE		
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/>

ERRORS GROUPED BY HTML VS STYLE



E/W	Errors	No. of occurrences
STYLE		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.4.3 - 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	19
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	109
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	22
HTML		
E	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	26
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
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.	8
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	27
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	27
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	22
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	6

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.

Via G.Moruzzi 1

56124 Pisa Italy

Room: Building B - Entrance 17 - II Floor

<http://hiis.isti.cnr.it/lab/home>

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

6 ALLEGATO: Report di dettaglio pagina “Form di compilazione segnalazione”



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".



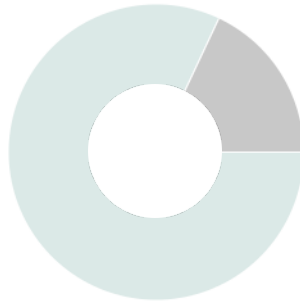
EVALUATION OVERVIEW

BASE URL	https://segnalazioni.cittametropolitana.genova.it/?area=182
CRAWLING PARAMETERS	
Number of pages	1
Depth	1
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	Dec 29, 2023
EVALUATION TIME	, 7:29

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.

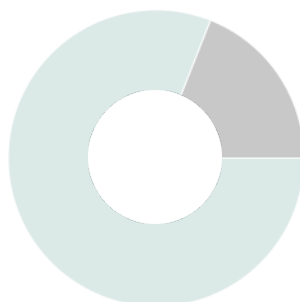
82%



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.

81%





EVALUATION OVERVIEW

TOTAL ERRORS

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

15

TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

215

TOTAL ERROR OCCURENCIES FOUND

215

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"

236

TOTAL WARNINGS OCCURENCIES FOUND

236

AVERAGE WARNING OCCURENCIES PER PAGE



EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneous pages of the website, according to the occurrences of errors found in each evaluated page.

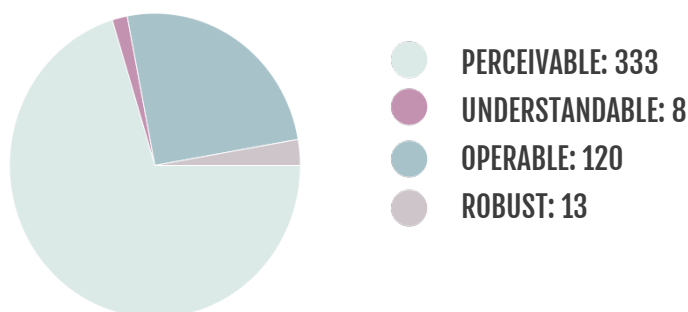
1. <https://segnalazioni.cittametropolitana.genova.it/?area=182>



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/?area=182>

ERRORS GROUPED BY PRINCIPLES



E/W	Errors	No. of occurrences
PERCEIVABLE		
E	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	30
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	41
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	8



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	41
E	SC 1.4.3 - 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	18
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	108
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	42
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	22
UNDERSTANDABLE		
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	8
OPERABLE		
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	31
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	31
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	48
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
ROBUST		
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	8



PAGES EVALUATION

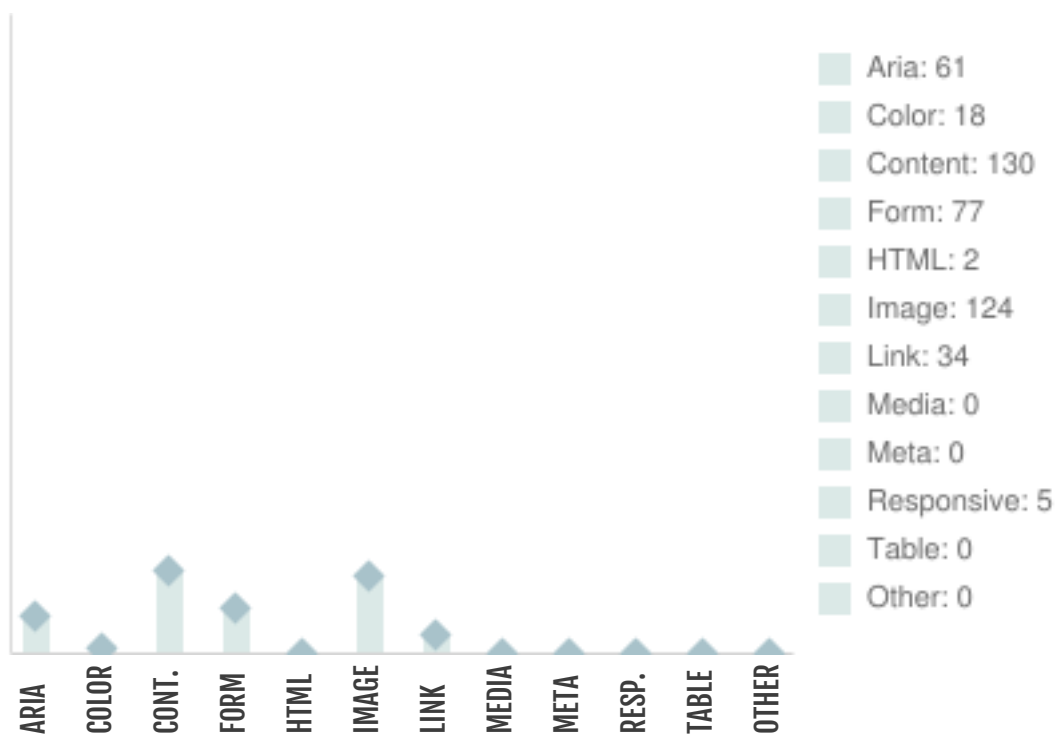
E/W	Errors	No. of occurrences
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/?area=182>

ERRORS GROUPED BY CATEGORIES



E/W	Errors	No. of occurrences
ARIA		
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	1
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	48
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5



PAGES EVALUATION

E/W	Errors	No. of occurrences
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
COLOR		
E	SC 1.4.3 - 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	18
CONTENT		
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	108
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	22
FORM		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
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.	8
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	31
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	31
HTML		
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
IMG		
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	41
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	41
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	42



PAGES EVALUATION

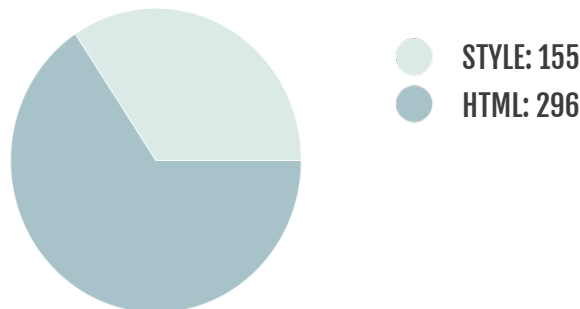
E/W	Errors	No. of occurrences
LINK		
E	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	30
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
RESPONSIVE		
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/?area=182>

ERRORS GROUPED BY HTML VS STYLE



E/W	Errors	No. of occurrences
STYLE		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1
E	SC 1.4.3 - 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	18
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	108
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	22
HTML		
E	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	30
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	41
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
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.	8
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	41
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	31
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	31
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	48
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	42
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7

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.

Via G.Moruzzi 1

56124 Pisa Italy

Room: Building B - Entrance 17 - II Floor

<http://hiis.isti.cnr.it/lab/home>

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

7 ALLEGATO: Report di dettaglio pagina “Segnalazione”



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".



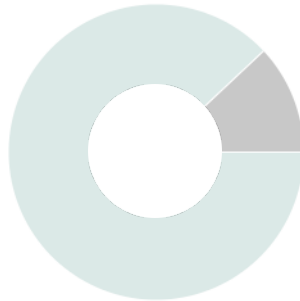
EVALUATION OVERVIEW

BASE URL	https://segnalazioni.cittametropolitana.genova.it/sensor/posts/10148
CRAWLING PARAMETERS	
Number of pages	1
Depth	1
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	Dec 29, 2023
EVALUATION TIME	, 8:03

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.

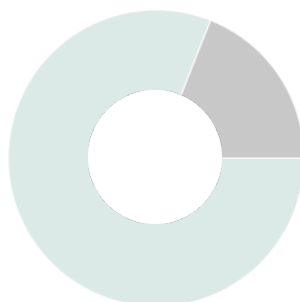
88%



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.

81%





EVALUATION OVERVIEW

TOTAL ERRORS

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

17

TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

179

TOTAL ERROR OCCURENCIES FOUND

179

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.

8

TOTAL CHECKPOINT TYPES WITH RESULT "WARNING"

289

TOTAL WARNINGS OCCURENCIES FOUND

289

AVERAGE WARNING OCCURENCIES PER PAGE



EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneous pages of the website, according to the occurrences of errors found in each evaluated page.

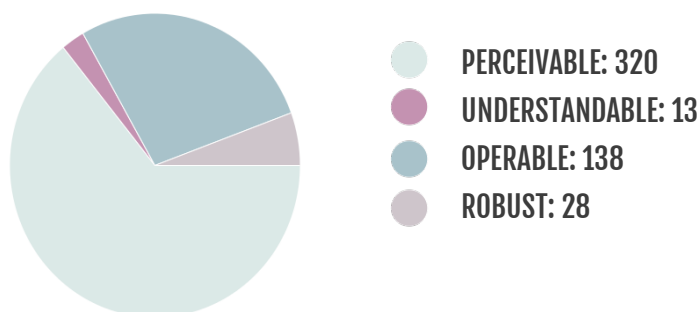
1. <https://segnalazioni.cittametropolitana.genova.it/sensor/posts/10148>



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/posts/10148>

ERRORS GROUPED BY PRINCIPLES



E/W	Errors	No. of occurrences
PERCEIVABLE		
E	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	32
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	12
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	4
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	1
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	12
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	2



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	12
E	SC 1.4.3 - 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	19
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	152
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	13
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	14
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	35
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.	12
OPERABLE		
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	33
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	33
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	62
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
ROBUST		
E	SC 4.1.1 - Tech H93 Ensuring that id attributes are unique on a webpage	5
E	SC 4.1.1 - Tech F77 Failure of Success Criterion 4.1.1 due to duplicate values of type ID	5



PAGES EVALUATION

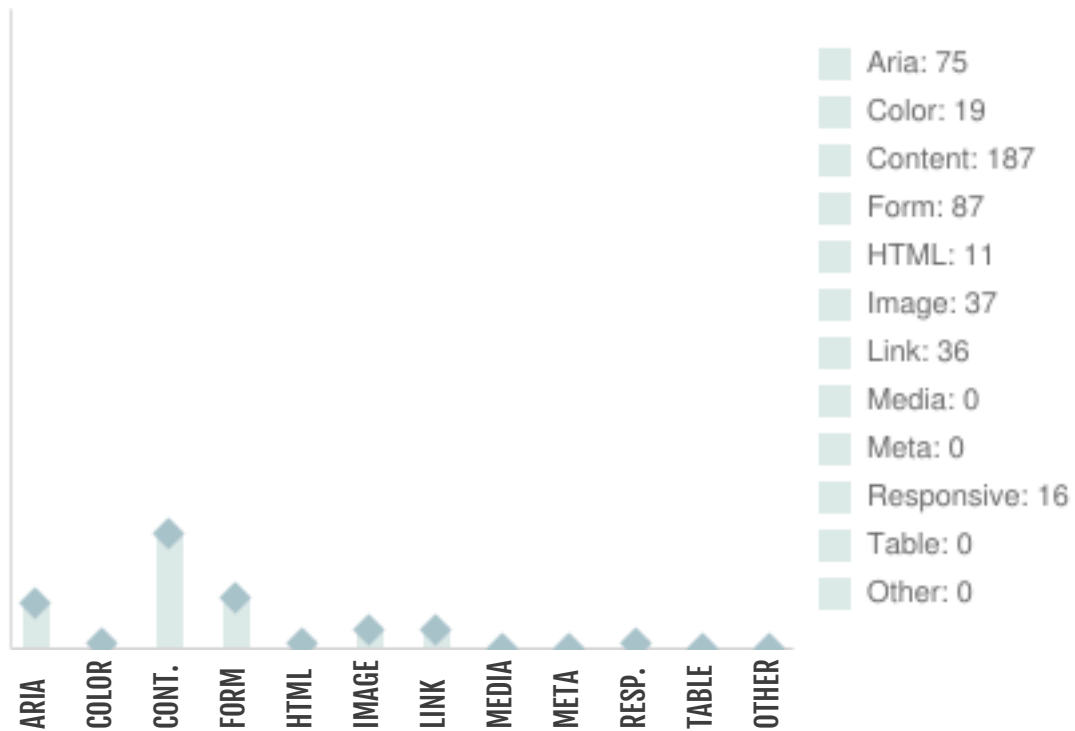
E/W	Errors	No. of occurrences
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	12
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/posts/10148>

ERRORS GROUPED BY CATEGORIES



E/W	Errors	No. of occurrences
ARIA		
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	62
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7



PAGES EVALUATION

E/W	Errors	No. of occurrences
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1
COLOR		
E	SC 1.4.3 - 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	19
CONTENT		
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	152
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	35
FORM		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	4
E	SC 3.2.2 - Tech H32 Providing submit buttons	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
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.	12
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	33
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	33
HTML		
E	SC 4.1.1 - Tech H93 Ensuring that id attributes are unique on a webpage	5
E	SC 4.1.1 - Tech F77 Failure of Success Criterion 4.1.1 due to duplicate values of type ID	5
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	1
IMG		



PAGES EVALUATION

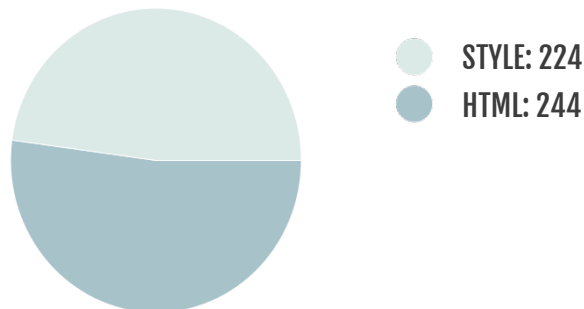
E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	12
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	12
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	13
LINK		
E	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	32
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
RESPONSIVE		
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	2
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	14



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/posts/10148>

ERRORS GROUPED BY HTML VS STYLE



E/W	Errors	No. of occurrences
STYLE		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	2
E	SC 1.4.3 - 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	19
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	152
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	14
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	35
HTML		
E	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	32
E	SC 4.1.1 - Tech H93 Ensuring that id attributes are unique on a webpage	5



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	12
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	4
E	SC 3.2.2 - Tech H32 Providing submit buttons	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 4.1.1 - Tech F77 Failure of Success Criterion 4.1.1 due to duplicate values of type ID	5
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	1
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.	12
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	12
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	33
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	33
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	62
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	13
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1

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.

Via G.Moruzzi 1

56124 Pisa Italy

Room: Building B - Entrance 17 - II Floor

<http://hiis.isti.cnr.it/lab/home>

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

8 ALLEGATO: Report di dettaglio pagina “Segnalazioni”



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”.



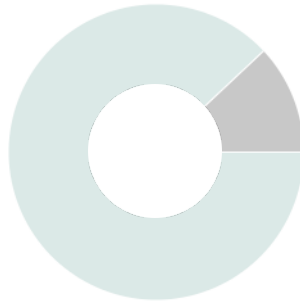
EVALUATION OVERVIEW

BASE URL	https://segnalazioni.cittametropolitana.genova.it/sensor/posts
CRAWLING PARAMETERS	
Number of pages	1
Depth	1
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	Dec 29, 2023
EVALUATION TIME	, 8:06

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.

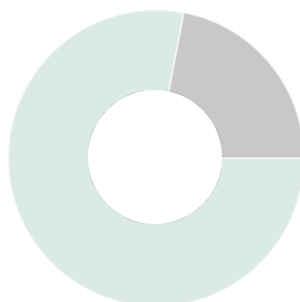
88%



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.

78%





EVALUATION OVERVIEW

TOTAL ERRORS

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

16

TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

298

TOTAL ERROR OCCURENCIES FOUND

298

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.

9

TOTAL CHECKPOINT TYPES WITH RESULT "WARNING"

565

TOTAL WARNINGS OCCURENCIES FOUND

565

AVERAGE WARNING OCCURENCIES PER PAGE



EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneous pages of the website, according to the occurrences of errors found in each evaluated page.

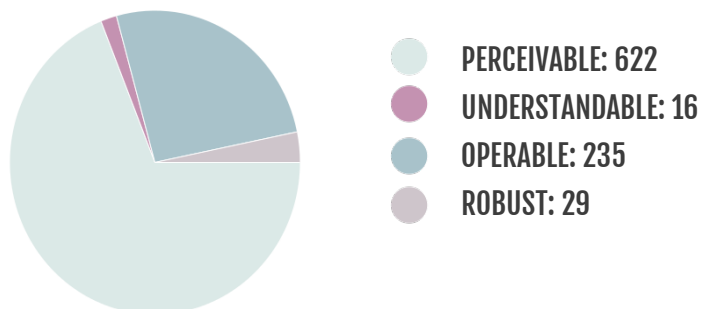
1. <https://segnalazioni.cittametropolitana.genova.it/sensor/posts>



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/posts>

ERRORS GROUPED BY PRINCIPLES



E/W	Errors	No. of occurrences
PERCEIVABLE		
E	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	38
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	30
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	4
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	9
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	4
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	16
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	30
E	SC 1.4.3 - 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	48
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	1
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	330
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	31
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	9
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	59
UNDERSTANDABLE		
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	16
OPERABLE		
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	7
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	53
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	53
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	115
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7



PAGES EVALUATION

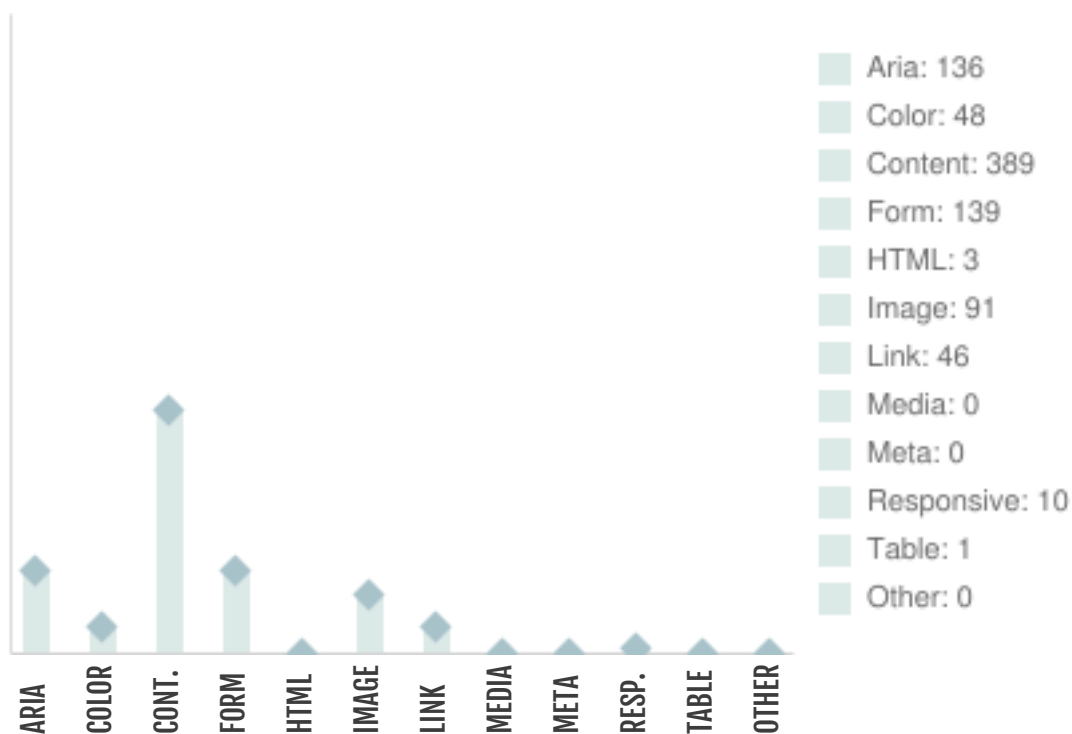
E/W	Errors	No. of occurrences
ROBUST		
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	16
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	11
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	2



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/posts>

ERRORS GROUPED BY CATEGORIES



E/W	Errors	No. of occurrences
ARIA		
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	1
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	115
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	11



PAGES EVALUATION

E/W	Errors	No. of occurrences
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	2
COLOR		
E	SC 1.4.3 - 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	48
CONTENT		
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	330
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	59
FORM		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	4
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	9
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	4
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.	16
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	53
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	53
HTML		
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
IMG		
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	30



PAGES EVALUATION

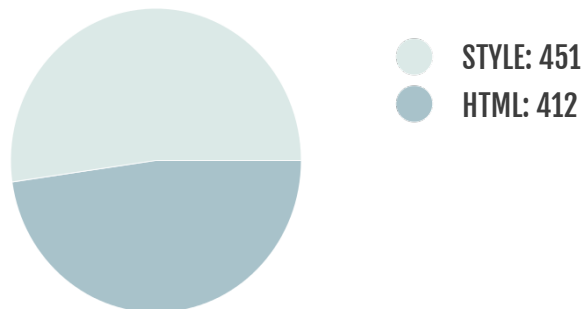
E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	30
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	31
LINK		
E	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	38
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	7
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
RESPONSIVE		
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	9
TABLE		
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/posts>

ERRORS GROUPED BY HTML VS STYLE



E/W	Errors	No. of occurrences
STYLE		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	4
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1
E	SC 1.4.3 - 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	48
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	330
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	9
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	59
HTML		
E	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	38
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	7



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	30
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	9
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	4
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
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.	16
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	30
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	53
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	1
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	53
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	115
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	11
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	31
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	2

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.

Via G.Moruzzi 1

56124 Pisa Italy

Room: Building B - Entrance 17 - II Floor

<http://hiis.isti.cnr.it/lab/home>

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

9 ALLEGATO: Report di dettaglio pagina “Le mie attività”



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".



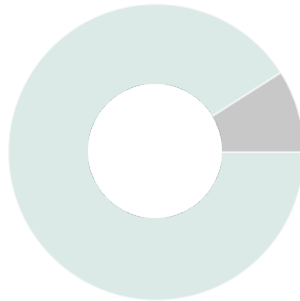
EVALUATION OVERVIEW

BASE URL	https://segnalazioni.cittametropolitana.genova.it/sensor/dashboard
CRAWLING PARAMETERS	
Number of pages	1
Depth	1
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	Dec 29, 2023
EVALUATION TIME	, 7:51

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.

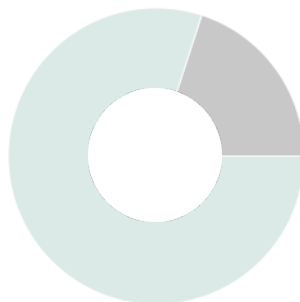
91%



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.

80%





EVALUATION OVERVIEW

TOTAL ERRORS

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

15

TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

200

TOTAL ERROR OCCURENCIES FOUND

200

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.

9

TOTAL CHECKPOINT TYPES WITH RESULT "WARNING"

435

TOTAL WARNINGS OCCURENCIES FOUND

435

AVERAGE WARNING OCCURENCIES PER PAGE



EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneous pages of the website, according to the occurrences of errors found in each evaluated page.

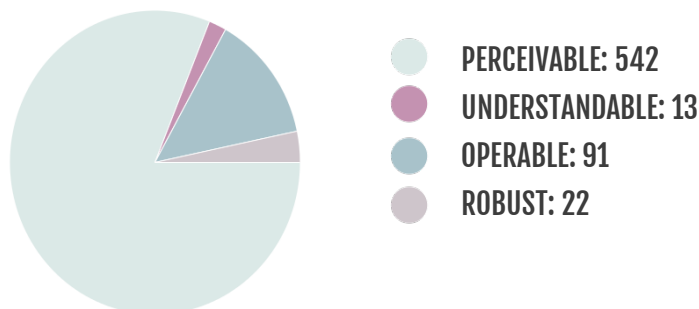
1. <https://segnalazioni.cittametropolitana.genova.it/sensor/dashboard>



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/dashboard>

ERRORS GROUPED BY PRINCIPLES



E/W	Errors	No. of occurrences
PERCEIVABLE		
E	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
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	4
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	8
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	4
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	13



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	2
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
E	SC 1.4.3 - 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	65
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	346
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	41
UNDERSTANDABLE		
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	13
OPERABLE		
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	28
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	28
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	25
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
ROBUST		



PAGES EVALUATION

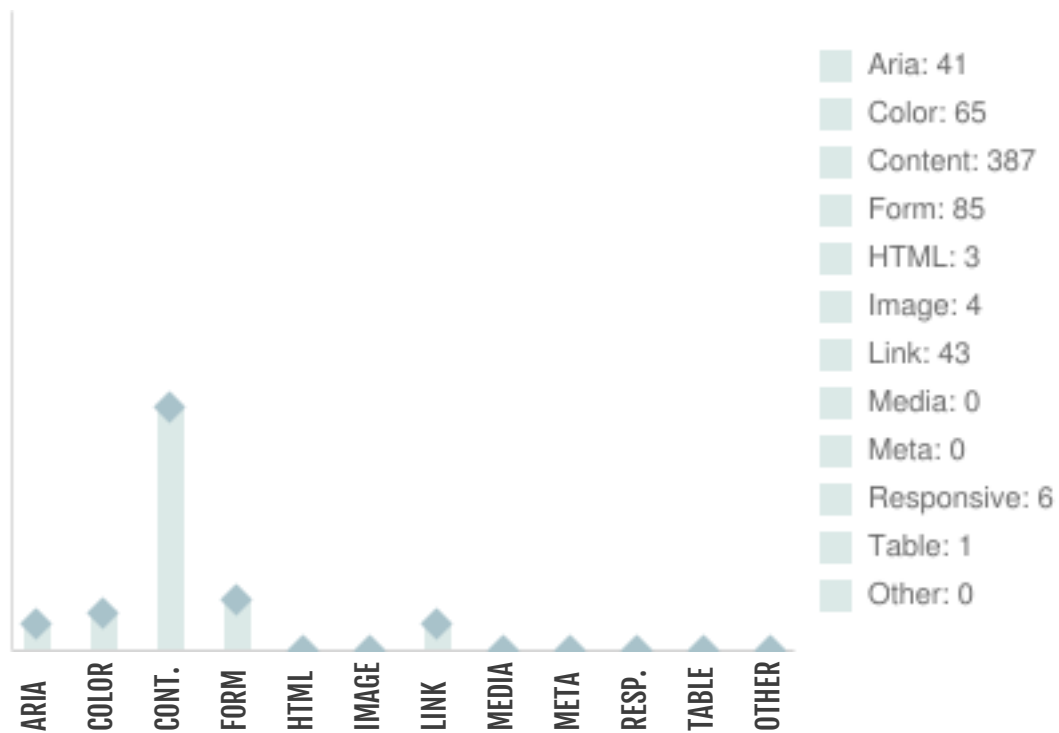
E/W	Errors	No. of occurrences
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	13
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	8
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/dashboard>

ERRORS GROUPED BY CATEGORIES



E/W	Errors	No. of occurrences
ARIA		
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	25
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	8
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7



PAGES EVALUATION

E/W	Errors	No. of occurrences
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1
COLOR		
E	SC 1.4.3 - 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	65
CONTENT		
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	346
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	41
FORM		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	4
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	8
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	4
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.	13
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	28
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	28
HTML		
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
IMG		
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1



PAGES EVALUATION

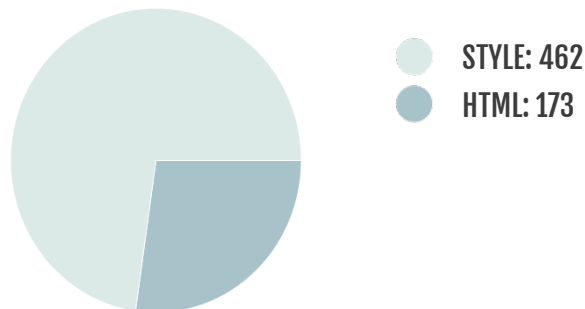
E/W	Errors	No. of occurrences
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
LINK		
E	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	39
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
RESPONSIVE		
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	2
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
TABLE		
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/dashboard>

ERRORS GROUPED BY HTML VS STYLE



E/W	Errors	No. of occurrences
STYLE		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	4
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	2
E	SC 1.4.3 - 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	65
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	346
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	41
HTML		
E	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
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	8
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	4
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
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.	13
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	28
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	28
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	25
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	8
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1

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.

Via G.Moruzzi 1

56124 Pisa Italy

Room: Building B - Entrance 17 - II Floor

<http://hiis.isti.cnr.it/lab/home>

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

10 ALLEGATO: Report di dettaglio pagina “Profilo utente”



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".



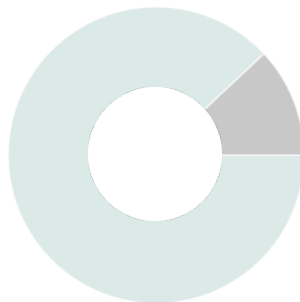
EVALUATION OVERVIEW

BASE URL	https://segnalazioni.cittametropolitana.genova.it/user/edit
CRAWLING PARAMETERS	
Number of pages	1
Depth	1
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	Dec 29, 2023
EVALUATION TIME	, 8:13

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.

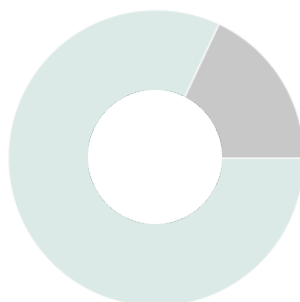
88%



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.

82%





EVALUATION OVERVIEW

TOTAL ERRORS

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

13

TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

118

TOTAL ERROR OCCURENCIES FOUND

118

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.

8

TOTAL CHECKPOINT TYPES WITH RESULT "WARNING"

167

TOTAL WARNINGS OCCURENCIES FOUND

167

AVERAGE WARNING OCCURENCIES PER PAGE



EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneous pages of the website, according to the occurrences of errors found in each evaluated page.

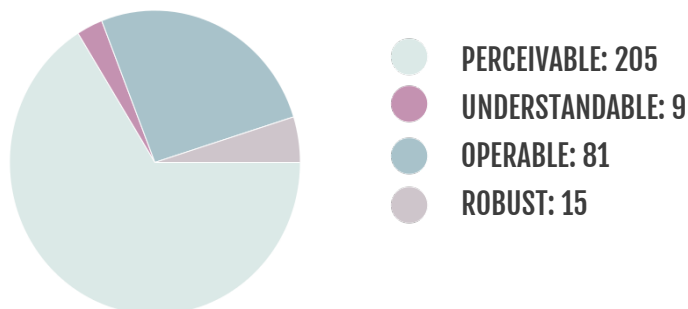
1. <https://segnalazioni.cittametropolitana.genova.it/user/edit>



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/user/edit>

ERRORS GROUPED BY PRINCIPLES



E/W	Errors	No. of occurrences
PERCEIVABLE		
E	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	25
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	4
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	9
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1



PAGES EVALUATION

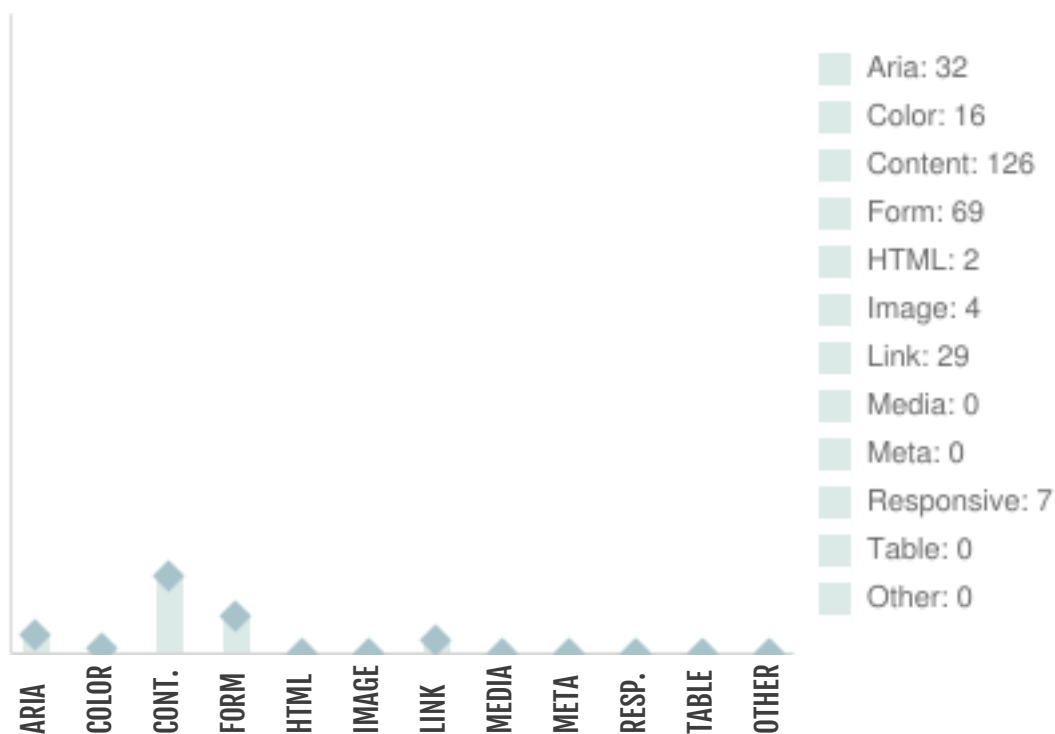
E/W	Errors	No. of occurrences
E	SC 1.4.3 - Tech G18 Ensuring that a contrast ratio of at least 4.5:1 exists between text (and images of text) and background behind the text	16
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	106
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	7
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	20
UNDERSTANDABLE		
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	9
OPERABLE		
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	26
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	26
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	19
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
ROBUST		
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	9
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/user/edit>

ERRORS GROUPED BY CATEGORIES



E/W	Errors	No. of occurrences
ARIA		
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	19
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7



PAGES EVALUATION

E/W	Errors	No. of occurrences
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1
COLOR		
E	SC 1.4.3 - 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	16
CONTENT		
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	106
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	20
FORM		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	4
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
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.	9
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	26
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	26
HTML		
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
IMG		
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2



PAGES EVALUATION

E/W	Errors	No. of occurrences
LINK		
E	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	25
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
RESPONSIVE		
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	7



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/user/edit>

ERRORS GROUPED BY HTML VS STYLE



E/W	Errors	No. of occurrences
STYLE		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.4.3 - 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	16
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	106
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	7
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	20
HTML		
E	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	25
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	4
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
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.	9
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	26
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	26
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	19
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1

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.

Via G.Moruzzi 1

56124 Pisa Italy

Room: Building B - Entrance 17 - II Floor

<http://hiis.isti.cnr.it/lab/home>

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

11 ALLEGATO: Report di dettaglio pagina “Impostazione delle notifiche”



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".



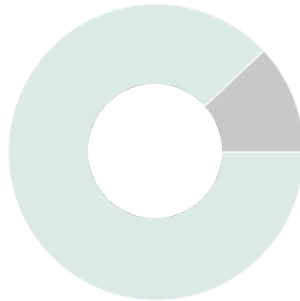
EVALUATION OVERVIEW

BASE URL	https://segnalazioni.cittametropolitana.genova.it/notification/settings
CRAWLING PARAMETERS	
Number of pages	1
Depth	1
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	Dec 29, 2023
EVALUATION TIME	, 8:15

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.

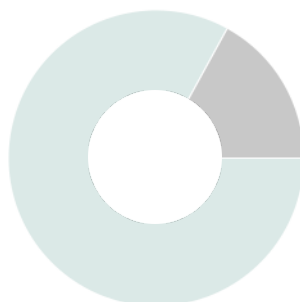
88%



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.

83%





EVALUATION OVERVIEW

TOTAL ERRORS

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

14

TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

124

TOTAL ERROR OCCURENCIES FOUND

124

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.

11

TOTAL CHECKPOINT TYPES WITH RESULT "WARNING"

173

TOTAL WARNINGS OCCURENCIES FOUND

173

AVERAGE WARNING OCCURENCIES PER PAGE



EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneous pages of the website, according to the occurrences of errors found in each evaluated page.

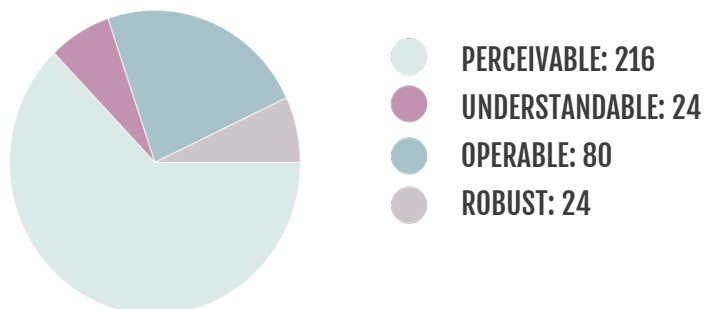
1. <https://segnalazioni.cittametropolitana.genova.it/notification/settings>



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/notification/settings>

ERRORS GROUPED BY PRINCIPLES



E/W	Errors	No. of occurrences
PERCEIVABLE		
E	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	24
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	16
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
E	SC 1.4.3 - 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	16
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	106
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1
W	SC 1.3.1 - Tech G162 Positioning labels to maximize predictability of relationships	8
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	19
UNDERSTANDABLE		
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	16
W	SC 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	8
OPERABLE		
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	26
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	26
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	18
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7



PAGES EVALUATION

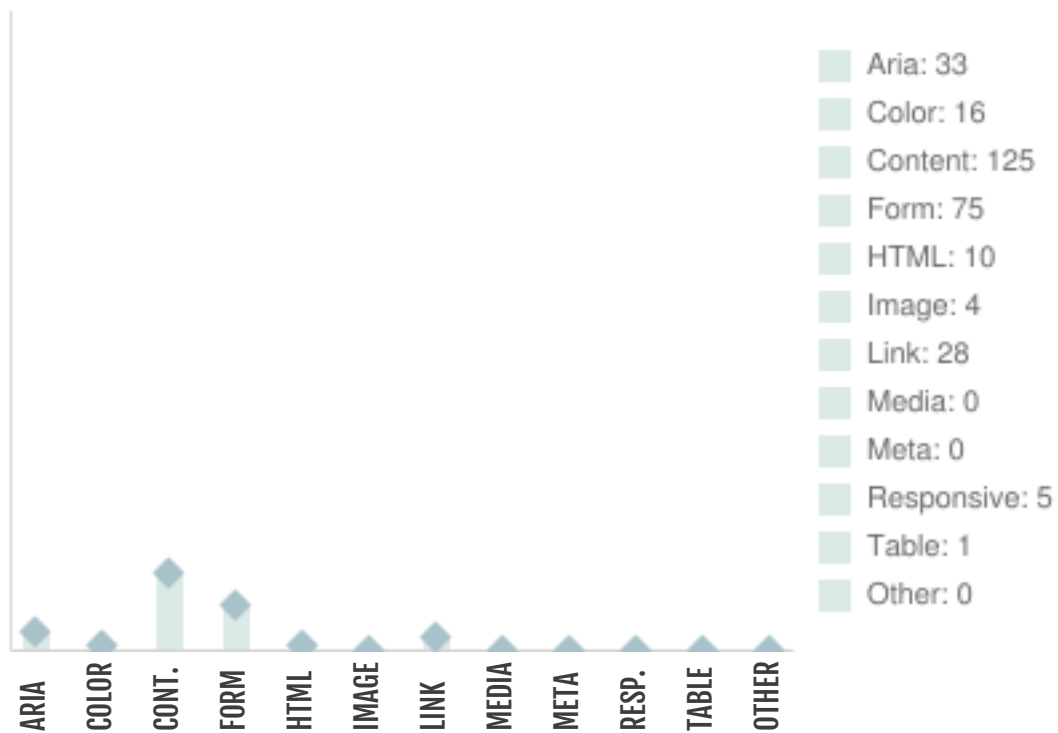
E/W	Errors	No. of occurrences
ROBUST		
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	16
W	SC 4.1.3 - Tech ARIA19 Use role=alert or aria-live=assertive attribute in order to inject the error message inside these containers and notify the Assistive Technologies	2
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/notification/settings>

ERRORS GROUPED BY CATEGORIES



E/W	Errors	No. of occurrences
ARIA		
W	SC 4.1.3 - Tech ARIA19 Use role=alert or aria-live=assertive attribute in order to inject the error message inside these containers and notify the Assistive Technologies	2
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	18
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5



PAGES EVALUATION

E/W	Errors	No. of occurrences
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1
COLOR		
E	SC 1.4.3 - 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	16
CONTENT		
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	106
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	19
FORM		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
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.	16
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	26
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	26
HTML		
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
W	SC 1.3.1 - 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	8
IMG		
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1



PAGES EVALUATION

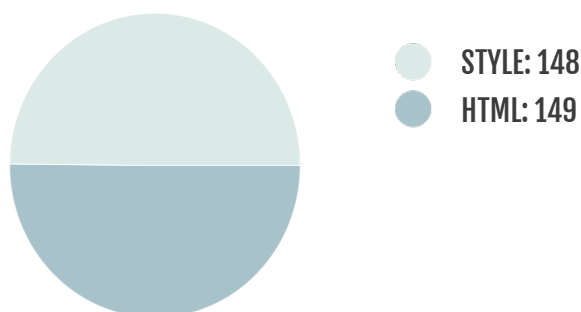
E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
LINK		
E	SC 1.4.1 - Tech F73 Failure of Success Criterion 1.4.1 due to creating links that are not visually evident without color vision	24
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
RESPONSIVE		
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
TABLE		
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/notification/settings>

ERRORS GROUPED BY HTML VS STYLE



E/W	Errors	No. of occurrences
STYLE		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.4.10 - Tech C38 Using CSS width, max-width and flexbox to fit labels and inputs	1
E	SC 1.4.3 - 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	16
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	106
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	4
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	19
HTML		
E	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	24
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
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.	16
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	26
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	26
W	SC 4.1.3 - Tech ARIA19 Use role=alert or aria-live=assertive attribute in order to inject the error message inside these containers and notify the Assistive Technologies	2
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	18
W	SC 1.3.1 - Tech H73 Using the summary attribute of the table element to give an overview of data tables	1
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	5
W	SC 1.3.1 - 3.3.2 - Tech G162 Positioning labels to maximize predictability of relationships	8
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	7
W	SC 4.1.3 - Tech G199 Use role=status attribute in order to notify the Assistive Technologies that the submission was successful	1

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.

Via G.Moruzzi 1

56124 Pisa Italy

Room: Building B - Entrance 17 - II Floor

<http://hiis.isti.cnr.it/lab/home>

PIANO NAZIONALE DI RIPRESA E RESILIENZA

Missione 1 - Componente 1 - Asse 1

Sub-Investimento 1.4.2 “Citizen inclusion – miglioramento dell’accessibilità dei servizi pubblici digitali”

12 ALLEGATO: Report di dettaglio pagina “Statistiche”



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".



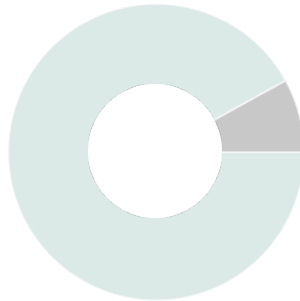
EVALUATION OVERVIEW

BASE URL	https://segnalazioni.cittametropolitana.genova.it/sensor/stat
CRAWLING PARAMETERS	
Number of pages	1
Depth	1
NUMBER OF EVALUATED WEB PAGES	1
EVALUATION DATE	Dec 29, 2023
EVALUATION TIME	, 8:17

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.

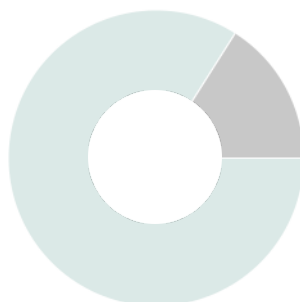
92%



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.

84%





EVALUATION OVERVIEW

TOTAL ERRORS

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

15

TOTAL CHECKPOINT TYPES WITH RESULT "ERROR"

146

TOTAL ERROR OCCURENCIES FOUND

146

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"

277

TOTAL WARNINGS OCCURENCIES FOUND

277

AVERAGE WARNING OCCURENCIES PER PAGE



EVALUATION OVERVIEW

MOST ERRONEUS PAGES

We compute a rank of the most erroneous pages of the website, according to the occurrences of errors found in each evaluated page.

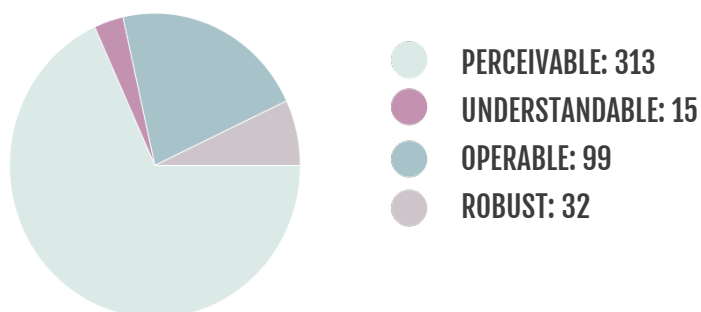
1. <https://segnalazioni.cittametropolitana.genova.it/sensor/stat>



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/stat>

ERRORS GROUPED BY PRINCIPLES



E/W	Errors	No. of occurrences
PERCEIVABLE		
E	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	27
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	10
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	2
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.1.1 - 1.3.1 - Tech H44 Using label elements to associate text labels with form controls.	15
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
E	SC 1.4.3 - 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	21
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	168
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	5
W	SC 1.3.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	6
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	47
UNDERSTANDABLE		
E	SC 3.3.2 - Tech H44 Using label elements to associate text labels with form controls.	15
OPERABLE		
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	29
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	29
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	32
W	SC 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	6
ROBUST		
E	SC 4.1.2 - Tech H44 Using label elements to associate text labels with form controls.	15



PAGES EVALUATION

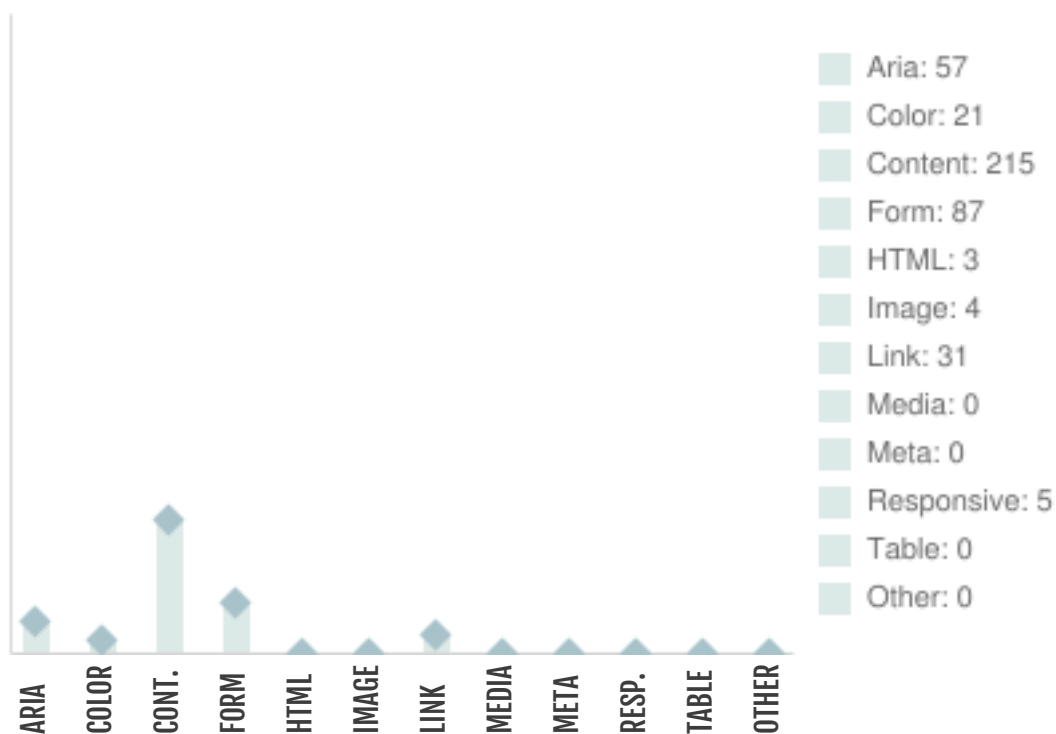
E/W	Errors	No. of occurrences
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	17



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/stat>

ERRORS GROUPED BY CATEGORIES



E/W	Errors	No. of occurrences
ARIA		
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	2
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	32
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	17



PAGES EVALUATION

E/W	Errors	No. of occurrences
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	6
COLOR		
E	SC 1.4.3 - 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	21
CONTENT		
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	168
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	47
FORM		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	10
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
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.	15
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	29
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	29
HTML		
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
IMG		
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1



PAGES EVALUATION

E/W	Errors	No. of occurrences
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
LINK		
E	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	27
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
RESPONSIVE		
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	5



PAGES EVALUATION

PAGE URL: <https://segnalazioni.cittametropolitana.genova.it/sensor/stat>

ERRORS GROUPED BY HTML VS STYLE



E/W	Errors	No. of occurrences
STYLE		
E	SC 1.4.11 - Tech F78 Using an author-supplied, highly visible focus indicator	2
E	SC 1.4.3 - 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	21
W	SC 1.4.12 - Tech C21 Specifying line spacing in CSS	168
W	SC 1.4.4 - 1.4.12 - Tech C28 Specifying the size of text containers using em units	5
W	SC 1.4.4 - 1.4.5 - Tech C12-13-14 Using percent, em units or named font sizes	47
HTML		
E	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	27
E	SC 2.4.4 - Tech H30 Providing link text that describes the purpose of a link for anchor elements	3
E	SC 1.1.1 - Tech F65 Failure of Success Criterion 1.1.1 due to omitting the alt attribute on img elements, area elements, and input elements of type image	1



PAGES EVALUATION

E/W	Errors	No. of occurrences
E	SC 1.3.5 - Tech H98 Identify the purpose of inputs using the autocomplete value	10
E	SC 1.3.1 - 1.4.5 - Tech G140 Separating information and structure from presentation to enable different presentations	1
E	SC 1.4.11 - Tech G195 Using an author-supplied, highly visible focus indicator	2
E	SC 1.3.1 - Tech H42 Using h1-h6 to identify headings	2
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.	15
E	SC 1.1.1 - Tech H37 Using alt attributes on img elements	1
E	SC 2.4.7 - Tech F78-2.4.7 Using an author-supplied, highly visible focus indicator	29
E	SC 1.1.1 - Tech H30-1.1.1 Providing link text that describes the purpose of a link for anchor elements	1
E	SC 1.1.1 - Tech ARIA6 Using aria-label to provide labels for objects	2
E	SC 2.4.7 - Tech G195-2.4.7 Using an author-supplied, highly visible focus indicator	29
W	SC 2.5.3 - Tech F96 If on the page are present the tags aria-label or aria-labelledby, check that their content matches the visible name.	32
W	SC 4.1.2 - Tech ARIA5 Using WAI-ARIA state and property attributes to expose the state of a user interface component	17
W	SC 1.1.1 - Tech H67 Using null alt text and no title attribute on img elements for images that AT should ignore	2
W	SC 1.3.1 - 2.4.1 - Tech ARIA11 Using ARIA landmarks to identify regions of a page	6

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.

Via G.Moruzzi 1

56124 Pisa Italy

Room: Building B - Entrance 17 - II Floor

<http://hiis.isti.cnr.it/lab/home>