

Web Accessibility Recognition Scheme 2013-14

Office of the Government Chief Information Officer
Digital Inclusion Division
10 October 2013



Web Accessibility Recognition Scheme



Agenda

- Web Accessibility Campaign
- Highlights of Web Accessibility Recognition Scheme 2013-14
- How to meet the Judging Criteria of the Website Stream?
- How to meet the Judging Criteria of the Mobile Application Stream?
- Demonstration by Hong Kong Blind Union

Web Accessibility Recognition Scheme



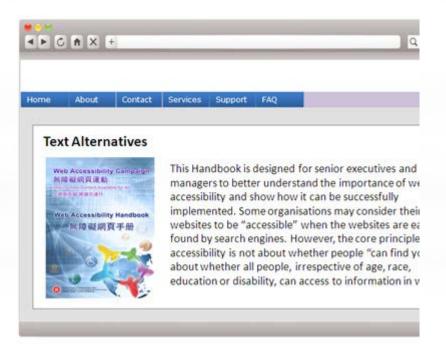
Testing Steps

- Code Scanning (編碼掃描) /Code Review (編碼檢查)
- Visual Review (目視檢查)
- Manual Testing with Screen Reader (使用讀屏軟件進行手動檢測)
- Testing with Other Tools (使用其他檢測工具)
- Human Testing (使用者測試)

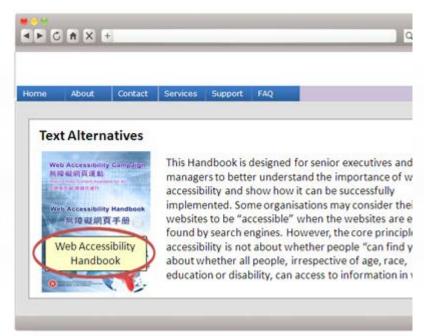
1. Meaningful Text Alternative



 All non-text contents, such as icons, photos, pictures, images, banners and maps, should have a text alternative



Screen reader cannot read the picture



A text description that can be read by the screen reader

1. Meaningful Alternative Text Description



Testing: Code Review, Manual Testing with Screen Reader



alt="Web Accessibility Campaign - Making Web Content Available for All"

Press F12 in browser software to view the code



Source: www.webforall.gov.hk/en

2. Flash / Animated Content



Provide accessible Flash/Animated content or allow skip function



Flash content blocks the user from getting to main content

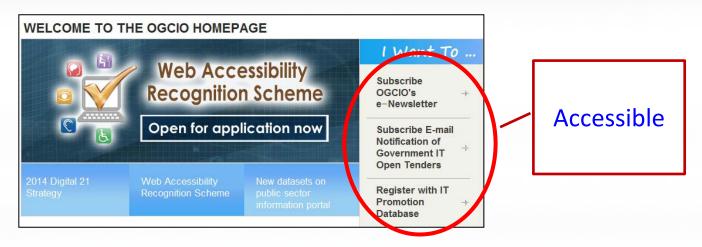
Include accessible "Skip" option allow user to skip Flash content

2. Flash / Animated Content



Testing: Visual Review, Manual Testing with Screen Reader

e.g. 1



e.g. 2



Source: www.webforall.gov.hk/en

3. Keyboard Interface



 All functions on a webpage are operable through a keyboard interface; the operation shall not enforce a time limit for individual keystrokes



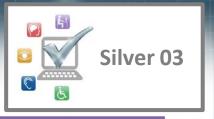
```
<img src="question.gif" alt="Question"
onclick="openPop();" />
```

People using a keyboard interface may not be able to navigate to the help function provided

```
<img src="auestion.gif" alt="Ouestion" onclick="openPop();"
onkeypress="openPop();" tabindex="0"/>
```

Allow users to access all content and functions with a keyboard interface

3. Keyboard Interface



Testing: Code Review, Manual Testing with Screen Reader



Press F12 in Browser software to view the code

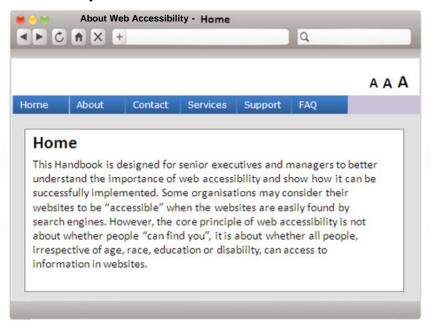
onkeypress="if(this.value==Enter search keyword(s))this.value=""

Source: www.webforall.gov.hk/en

4. Background Sound



 If any audio on a webpage plays automatically for more than 3 seconds, either a function is available to pause or stop the audio





The background sound will begin playing automatically in five seconds

Include a link to turn off the background sound at the beginning of the webpage

4. Background Sound



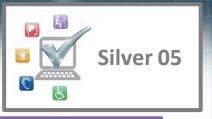
Testing: Visual Review, Manual Testing with Screen Reader

Turn off background sound option



Source: http://s1.ecard.gov.hk/ecard/main

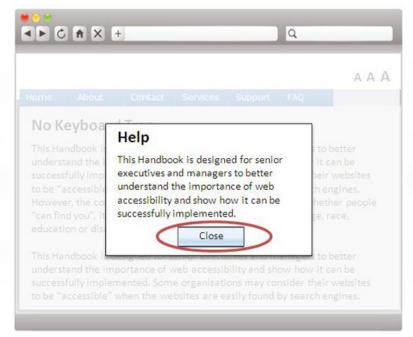
5. Popup Windows



 A close button shall be included to allow closing the popup window through keyboard interfaces



No ways to close the popup window using a keyboard



Include a Close button to close the popup window

5. Popup Windows



Testing: Visual Review, Manual Testing with Screen Reader

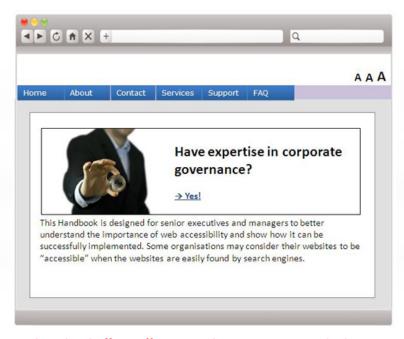


Source: www.gov.hk

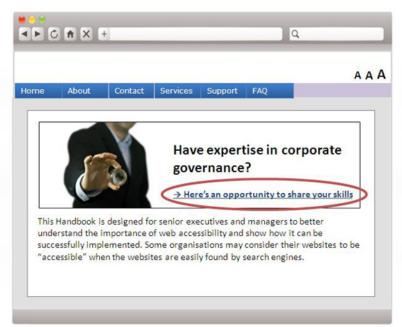
6. Links



 either the link text alone or the text preceding the link is clear and meaningful in order to help users navigate



The link "Yes" is ambiguous and does not really convey much meaning



Link labels should be more descriptive and self-explanatory

6. Links



Testing: Visual Review, Manual Testing with Screen Reader



Source: www.webforall.gov.hk/en

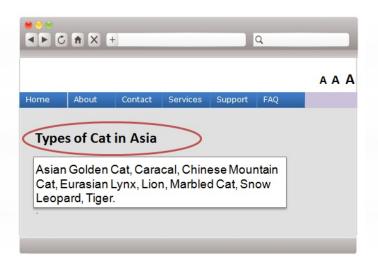
7. Headings/Labels



 To help users understand what information is contained in the webpage and how information is organised, use clear and appropriate headings and labels



Heading does not accurately describe the purpose of the content

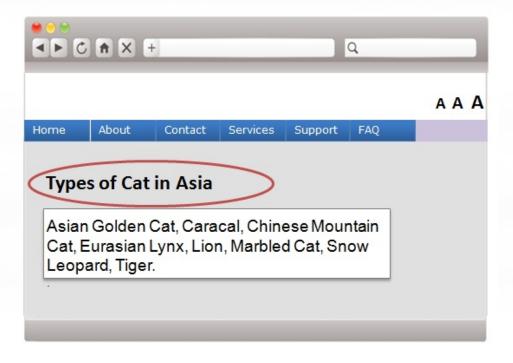


Detailed heading that accurately describes the content





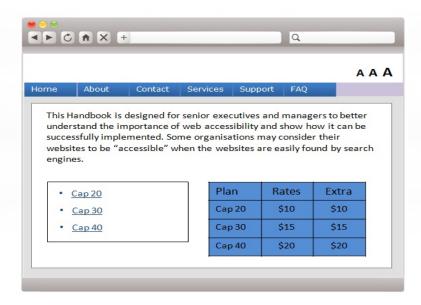
Testing: Visual Review and Human Testing



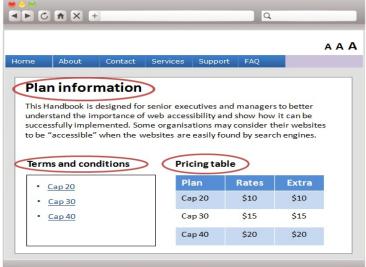
8. Website Structure and Content



 Use heading mark-up (h1..h6) to identify headings in the content. Heading mark-up allows assistive technologies to present the heading status of text to users



Missing heading structure



Provide semantic code for headings (h1,h2,h3) in the content

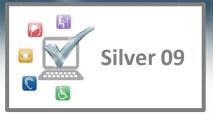
8. Website Structure and Content



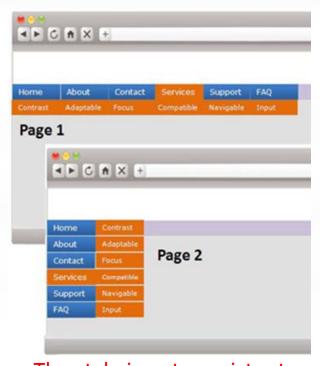
Testing: Code Review, Manual Testing with Screen Reader

```
mation for Residents
in <div class="sidebar" id="homepage" sizset="0" sizcache05498842022675241="455">
   - <div id="main" sizset="0" sizcache05498842022675241="455">
           «my id="feature" هندي "0" jQuery172006505273126399763="54" sizcache05498842022675241="50">
           in <h2 class="access">
              <div class="flex liewport" style="position; relative; overflow; hidden;">
          in 
           ii <div class="flex-pauseplay" sizset="0" sizcache05498842022675241="50">
       iii. <h2 class="access">
           --- 文字 - Main Content
          <a name="content" id="content"/>
       - <div id="mvgovhkBadge">
           - <h2 class="access">
               ····· 文字 - MyGoyHK
          id="mygovhkBadgeHeader">
           in <div id="mvgovhkBadgeFooter">
       in. «div id="whatsNew" sizset="0" iOuerv172006505273126399763="58" sizcache05498842022675241="455">
           in <h2 title="Check it Out!">
          in <div class="flex-viewport" style="position; relative; overflow; hidden;">
           in 
          i-<div class="flex-pauseplay" sizset="0" sizcache05498842022675241="455">
       - <div id="citizenRelated" sizset="5" sizcache05498842022675241="6">
           - <div id="clusters" sizset="5" sizcache05498842022675241="6">
              in <div id="lookingFor">
              - <div id="cluster1st" sizset="5" sizcache05498842022675241="6">
                             s="clusterItem" sizset="5" sizcache05498842022675241="6">
                      🖶 <h3 class="communication">
                                                 ms & Technology" class="clusterLink" href="/en/residents/communication/" jQuery172006505273126399763="43">
                     ii <div class="clusterTooltipContainer" sizset="5" sizcache05498842022675241="6">
                  - "div class="clusterItem" sizset="6" sizcache05498842022675241="6">
                     iii <h3 class="culture">
                         in a title="Culture, Leisure & Sports" class="clusterLink" href="/en/residents/culture/" jOuery172006505273126399763="44">
                          .....文字 - 空白的文字節點
                     iii - <diy class="clusterTooltipContainer" sizset="6" sizcache05498842022675241="6">
                         iii <div class="clusterTooltip" sizset="6" sizcache05498842022675241="6">
```

9. Consistent Navigation Mechanism



Navigational mechanisms should be consistent

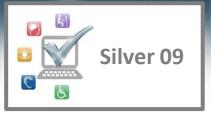


The style is not consistent across multiple webpages

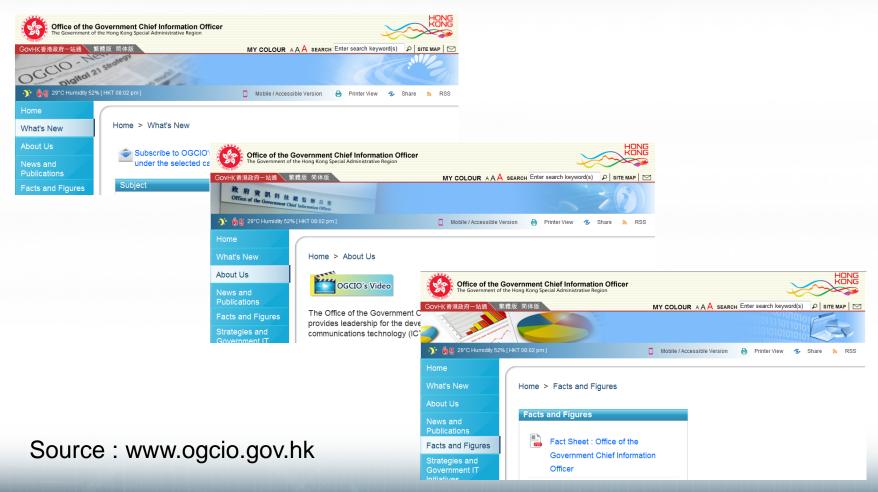


Ensure the navigation is consistent across multiple webpages

9. Consistent Navigation Mechanism



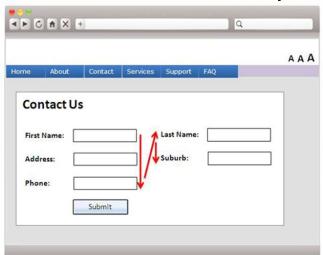
Testing: Visual Review



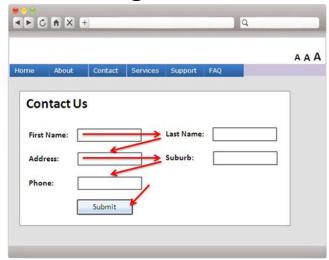
10. Meaningful Sequence



- If webpage content needs to be read in a certain order to make sense, webpage shall be written/coded in a way which indicates this order
- Webpage, especially web form, shall be coded in a logical manner when read by assistive technologies



Focus order not intuitive to user



Focus order in logical manner

10. Meaningful Sequence



Testing: Manual Testing with Screen Reader

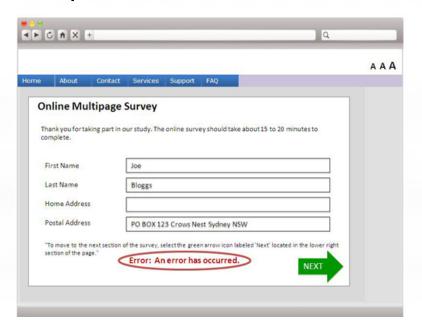
Use a screen reader to read or press the "Tab" key to go through the input fields

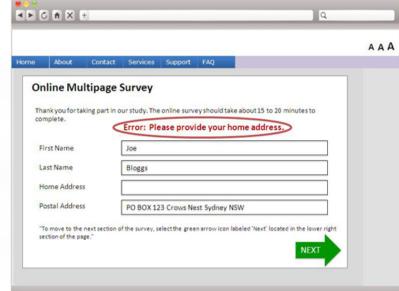
Customer Database			
First Name:		Last Name:	
Address:		Email:	
Phone:			
	Submit		

11. Input Assistance



 Provide input assistance such as proper labels for user input, error identification, description and suggestions etc.





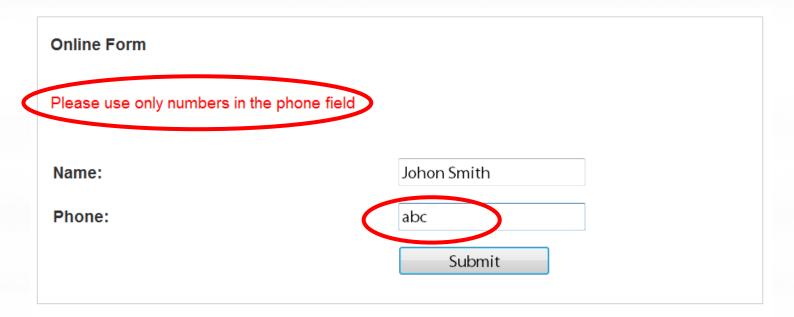
The error message is located at the bottom of the webpage and does not provide an adequate description of what needs to be corrected

The error message is located at the top of the webpage and provides a good explanation of what needs to be corrected

11. Input Assistance



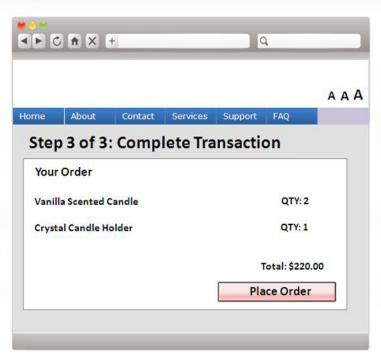
Testing: Manual Testing with Screen Reader

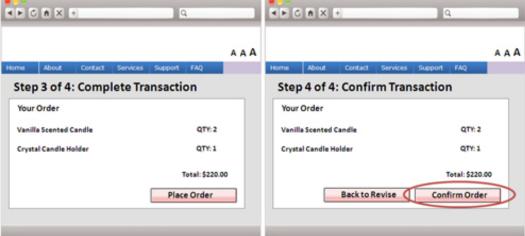


12. Error Prevention



Provide error prevention for transactions





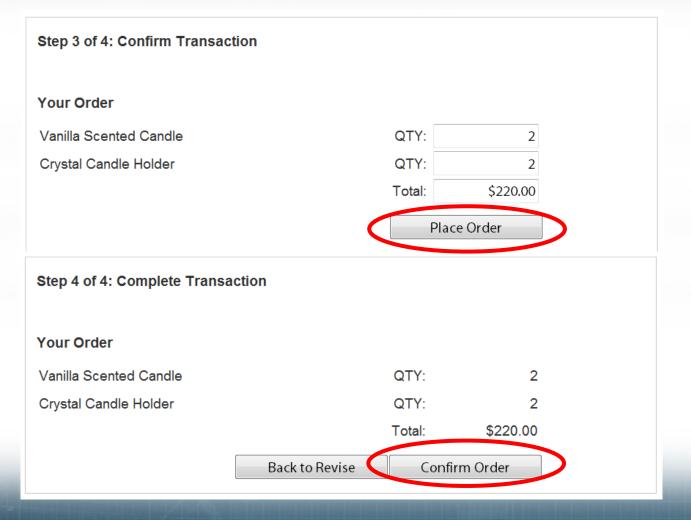
User is forced to place the order without a confirmation process

Allow the user to first confirm and give him/her the option to change any of the details before the final submission

12. Error Prevention



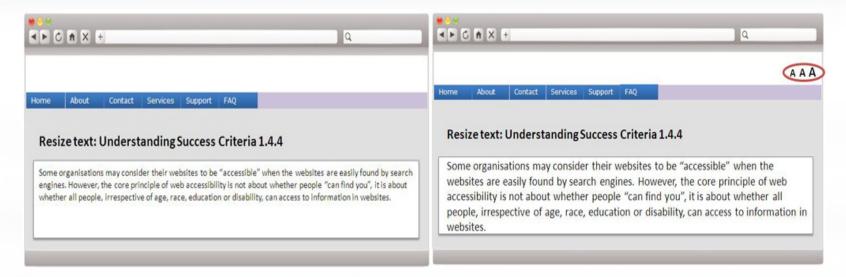
Testing: Manual Testing with Screen Reader



13. Text Resize



Text can be resized up to 200 % without loss of content



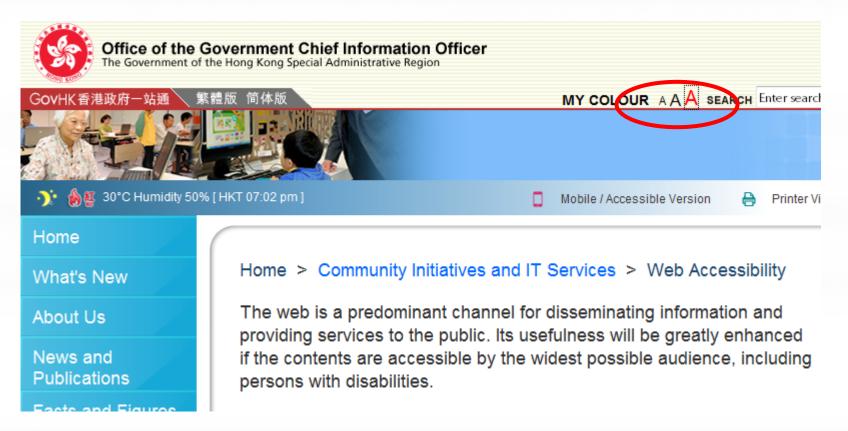
No text-resize function

Text-resize function is available

13. Text Resize



Testing: Visual Review and Human Testing

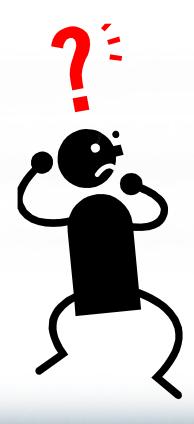


Source: www.ogcio.gov.hk

14. Accessibility Statement



 Provide an accessibility statement with contact points for users when they encounter accessibility problems



14. Accessibility Statement



Testing: Visual Review

Accessibility Statement

This website (or Some webpages of this website) adopts web accessibility design and meets the Gold (or Silver) Award Criteria of Web Accessibility Recognition Scheme. Should you have any enquiries or comments on its accessibility, please contact us by phone or email.

Telephone number: xxxx xxxx [please provide the telephone number].

Email address: xxx@xxx.xxx [please provide the email address].

無障礙聲明

Ų

本網站(或本網站部分網頁) 採用無障礙網頁設計,並符合「無障礙網頁嘉許計劃」金(或銀)獎準則。 如對本網站在使用上有任何查詢或意見,請致電或發送電郵與我們聯絡。

電話號碼:·xxxx·xxxx·[請提供電話號碼]°↓ 電郵地址:xxx@xxx.xxx·[請提供電郵地址]↓

15. Accessible PDFs



Provide accessible PDFs

Affected Group; All Persons with Disabilities

PDF documents should only be used for certain situations. This is generally when you have a piece of content that you would like people to download and read offline. In this way, PDF documents can be helpful for persons with disabilities because they can download and read them with the

We have to ensure that PDF documents are accessible to assistive from a text-based source document so that it is readable by Braille devices TIF files produced by scanning, should be converted into text-based documents with Optical Character Recognition (OCR) software prior to

Scanned Image not accessible

Affected Group: All Persons with Disabilities

PDF documents should only be used for certain situations. This is generally when you have a piece of content that you would like people to download and read offline. In this way, PDF documents can be helpful for persons with disabilities because they can download and read them with the assistive functions built into PDF reading software.

We have to ensure that PDF documents are accessible to assistive technologies, such as screen readers. We should produce a PDF document from a text-based source document so that it is readable by Braille devices used by persons with visual impairments. Image-based documents, such as TIF files produced by scanning, should be converted into text-based documents with Optical Character Recognition (OCR) software prior to producing the PDF document.

Text-based accessible PDF

15. Accessible PDFs



Testing: Manual Testing with Screen Reader

- PDF Accessibility Checker (Free) http://www.access-for-all.ch/en/pdf-lab/pdf-accessibility-checker-pac.html
- Adobe Acrobat Accessibility Check (version 7.0 or above)
 (Paid)

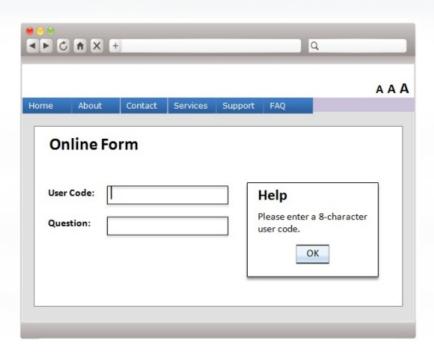
http://www.adobe.com/accessibility.html

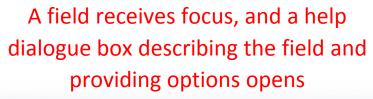
 Sortsite (Paid) http://www.powermapper.com/products/sortsite/pro.htm

16. Predictable Operations



Build webpages with predictable operations





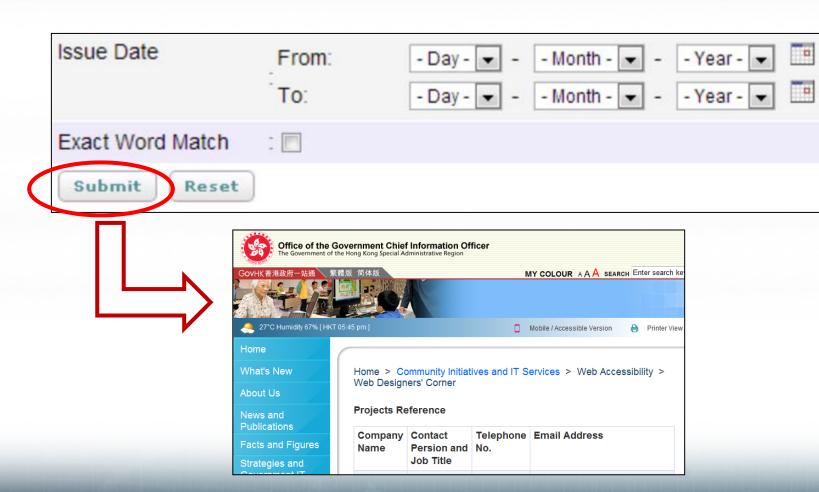


Allow the user to activate "Help" only at their choice

16. Predictable Operations



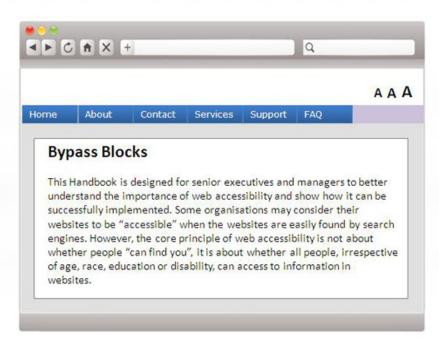
Testing: Visual Review and Manual Testing with Screen Reader



17. Skip Repetitive Blocks



 Ensure users have the ability to skip past repetitive blocks of content (e.g. the navigation at the top of the webpage)



People using screen readers need to read all the navigation information before getting to the target content

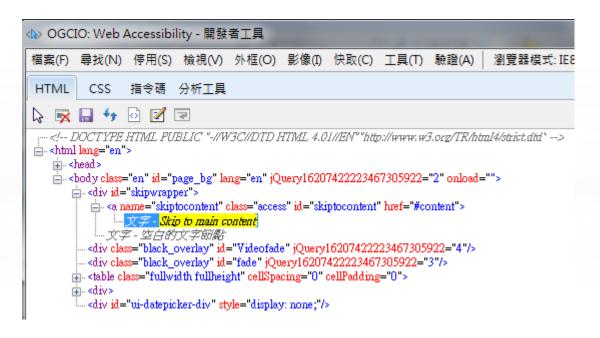


Add a "Skip to content" link at the top of each webpage





<u>Testing</u>: Visual & Code Review, Manual Testing with Screen Reader



18. Multiple Ways



 Provide more than one way to access a webpage such as using a search function, site map, standard navigation, etc.



The only way to navigate around website is through the main navigation

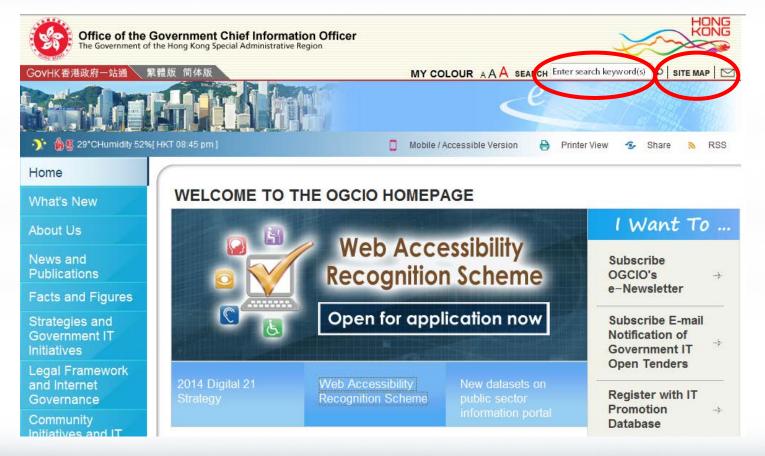


More than one way to navigate around website

18. Multiple Ways



Testing: Visual Review



Source: www.ogcio.gov.hk

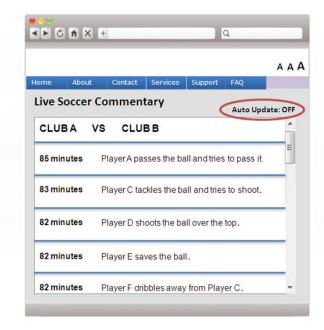
19. User-initiated Auto-updating



 Allow the user to pause, stop or hide any moving information that starts automatically and lasts more than five seconds



Update automatically as content changes

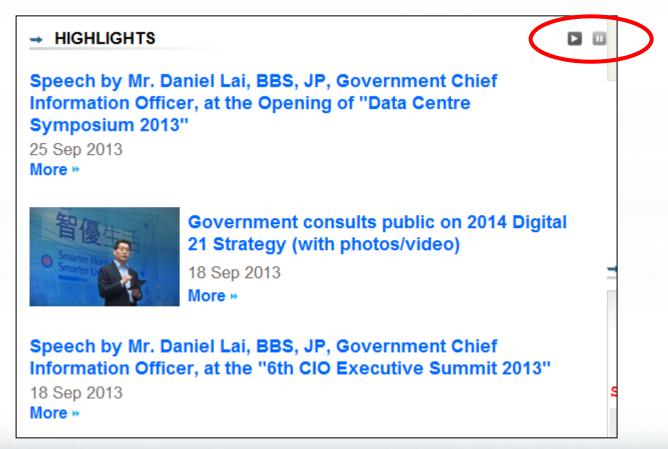


Provide a function to turn off the auto updating

19. User-initiated Auto-updating



Testing: Visual Review, Manual Testing with Screen Reader

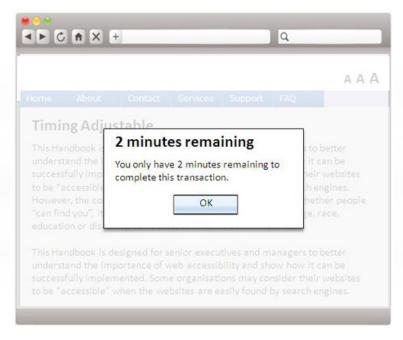


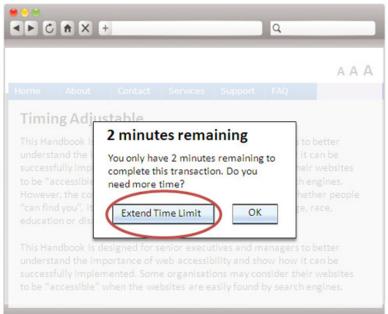
Source: www.ogcio.gov.hk/en/news_and_publications/press_releases/

20. Time-limited Function



 Provide users enough time to read the content or operate the function





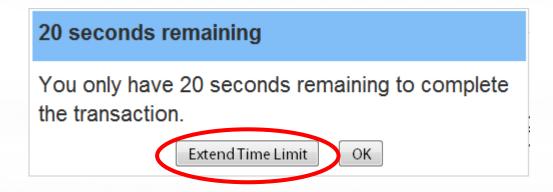
Warn the user that time is about to expire

Allow the user to extend the time

20. Time-limited Function



Testing: Visual Review, Manual Testing with Screen Reader



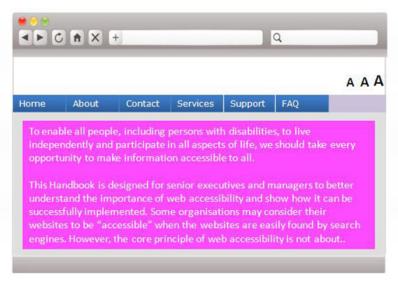
Source:

http://www.ogcio.gov.hk/en/community/web_accessibility/handbook/live_example/web_access_wcag_221.htm

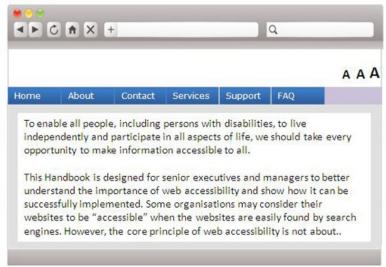
21. Sufficient Colour Contrast



 The visual presentation of text and images of text has a contrast ratio of at least 4.5:1. Logo or brand name is exempted



Poor background contrast



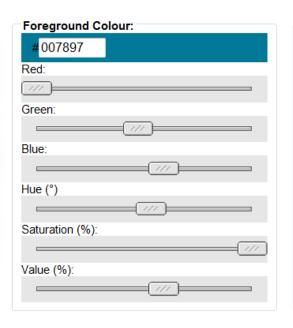
Easier to read with higher contrast

21. Sufficient Colour Contrast



Testing: Colour contrast check

http://snook.ca/technical/colour_contrast/colour.html



Background Colour:
#F1F1F1
Red:
Green:
Blue:
Hue (°):
///
Saturation (%):
///
Value (%):
///

Results		
This is example text. Some of it bolded. Some of it italicized.		
Brightness Difference: (>= 125)	153.34	
Colour Difference: (>= 500)	452	
Are colours compliant?	sort of	
Contrast Ratio	4.5	
Contrast Ratio WCAG 2 AA Compliant	4.5 YES	
WCAG 2 AA Compliant	YES	
WCAG 2 AA Compliant WCAG 2 AA Compliant (18pt+)	YES	

21. Sufficient Colour Contrast



Testing: Colour blind check

http://www.vischeck.com/vischeck/



www.ogcio.gov.hk

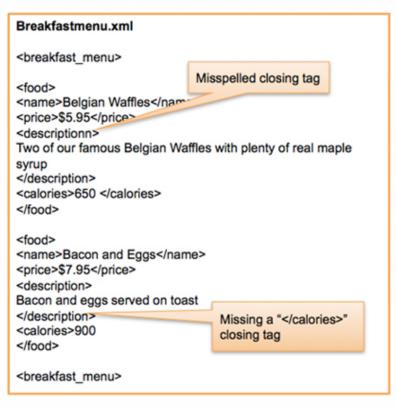


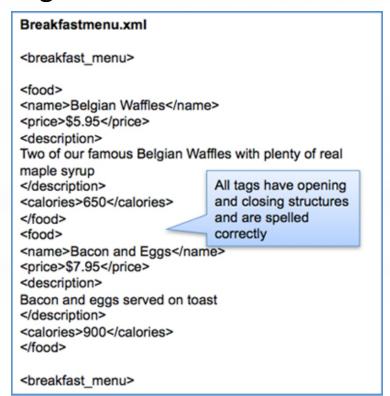
How the webpage looks to a person with a red/green color deficit (deuteranopia)

22. Compatibility



 Ensure correct syntax of webpages for compatibility with browsers and assistive technologies





22. Compatibility



Testing: Code scanning

e.g. Achecker - http://achecker.ca/checker/index.php

WAVE - http://wave.webaim.org/

Total Validator - http://www.totalvalidator.com/

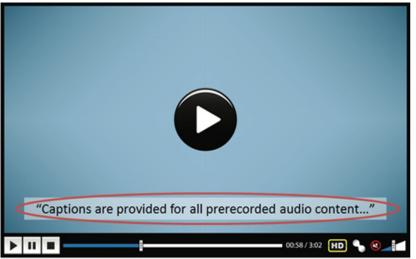
```
507  E042 Bad character(s) found
E860 [WCAG 2.0 1.1.1 (A)] When the start of the st
```

23. Video



 Provide captions or sign language for 30% of pre-recorded videos and audio content published in the recent 2 years (base on full website)





Missing captions

Provide captions

23. Video



Testing: Visual Review



Source:

http://www.ogcio.gov.hk/en/community/web_accessibility/recognition_s cheme/video_gallery/

24. Table Header and Data



 Provide meaningful title, summary or description for table header as well as data

		Monday to Friday
General Enquiry	2582 4606	8:45 am to 12:45 pm 1:45 pm to 5:45 pm
Web Accessibility	2582 6079	9:00 am to 1:00 pm 2:00 pm to 5:30 pm

No header and title for the table

Enquiry Information

Hotline	Telephone	Office Hours
General Enquiry	2582 4606	8:45 am to 12:45 pm 1:45 pm to 5:45 pm
Web Accessibility	2582 6079	9:00 am to 1:00 pm 2:00 pm to 5:30 pm

Provide meaningful header and column title for the table

24. Table Header and Data



Testing: Visual Review, Manual Testing with Screen Reader

Timeline

Key Tasks	Period
Application	2 September 2013 - 31 December 2013
Assessment and Enhancement Upon Advice	2 September 2013 - 30 January 2014
Technical Workshops	11 September 2013 - 30 January 2014
Re-assessment	31 January 2014 - 21 March 2014
Voting for "Most Favourite Websites"*	24 February 2014 - 21 March 2014



Thank you!