Accessibility, WCAG 2.0 and YOU

Where to begin?

Disability Discrimination Act 1992: Equal Access by Law

CONTEXT – Equal Access to All

- Buildings these days must be designed to allow access to all people e.g. wheel chair ramps etc
- This is governed and regulated by councils and planning bodies.
- Plans would NOT be approved unless there is wheelchair access, appropriate bathrooms and internal facilities etc.

CONTEXT – Equal Access to All

- Websites can be designed and built without ‘prior planning’ permission so issues may only be discovered after they go live.
- Often unknowingly, these sites are designed in such a way that they are not accessible to all people.
- People use and access websites in a number of differing ways.

But it is not just the law…

- Community Responsibility – the right thing to do
- Minimise Legal Risk – the smart thing to do
- Access Hidden Markets – untapped markets

Who are we talking about?

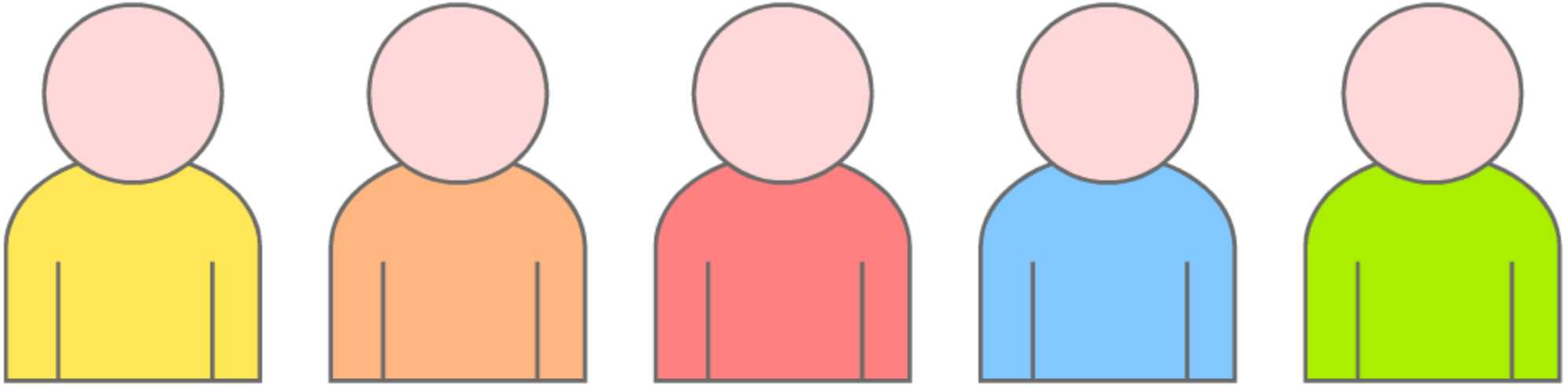
Visual Impairment	This covers people who are completely or partially blind, have poor eye-sight, or suffer from colour blindness
Physical Impairment	This covers people who are missing limbs, have reduced control of their limbs, or suffer from dexterity problems or epilepsy.
Hearing Impairment	This covers people who are completely or partially deaf.
Cognitive Impairment	This covers people who have difficulties in learning

How many?

- Over 4 million Australians have a disability.
- 2.1 million Australian of working age (15 – 64) have a disability.
- 1 in 6 Australians are affected by hearing loss.
- Approximately 30,000 with total hearing loss.
- Vision Australia estimates there are currently 357,000 people in Australia who are blind or have low vision.
- Over 700,000 Australians have an intellectual impairment.

Source: http://and.org.au/pages/disability-statistics.html

How people with disabilities use websites.



Physically Impaired

Keyboard usage
Speech control

Hearing Impaired

Important audio?

Partial Visual Impairment

Use of colour?
Text size?

Full Visual Impairment

Screen readers
List of links
List of headings
List of fields
Next heading etc

Mental Disabilities

Overall complexity

Physically Impaired

- Keyboard Only usage – No mouse
- Speech control – e.g. Dragon Naturally Speaking

Hearing Impaired

- Rely on text representation of sound.
- Captions
- Important Audio e.g. smashing glass

Partial Visual Impairment

- Use of colour – changing onscreen text and background combinations to make them more visible.
- Text Resizing – using a zoom function to increase the size of the text.

Full Visual Impairment

- Use of screen reader technology – reads the website content to the user.
- Navigate using basic keyboard keys, and by structural markers provided in the web code e.g. generation of lists of headings, links or form elements.
- Consistent clean code is vital.

JAWS

NVDA

Window Eyes

Apple Voice Over

Mental Disabilities

- Overall complexity – user may have trouble understanding concepts
- Widely recognised that there is a lack of understanding of solutions for the needs of people with cognitive disabilities.
- Text Only mode – graphics too confusing.
- Bottom line - if it is too complex or hard to understand then it is inaccessible to that user.

What are the drivers?

- National Transition Strategy:
  WCAG 2.0 Level AA Compliant by 2014 - Government

- Disability Discrimination Act 1992: Equal Access by Law

WCAG 2.0 – The Guidelines

Web Content Accessibility Guidelines (WCAG) 2.0

W3C Recommendation 11 December 2008

This version:
http://www.w3.org/TR/2008/REC-WCAG20-20081211/

Latest version:
http://www.w3.org/TR/WCAG20/

Previous version:
http://www.w3.org/TR/2008/PR-WCAG20-20081103/

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61 ‘Success’ Criteria

How ‘compliant’ is your site?

WCAG 2.0 Compliance Report

#	Critera - Level A	Status	Code Issues	Conditional	Review Issues
1.1.1	Non-text Content	Non Compliant	54	5	
1.2.1	Audio-only and Video-only (Prerecorded)	Compliant	0	0	
1.2.2	Captions (Prerecorded)	Compliant	0	0	
1.2.3	Audio Description or Media Alternative (Prerecorded)	Compliant	0	0	
1.3.1	Info and Relationships	Non Compliant	67	0	
1.3.2	Meaningful Sequence	Compliant	0	0	
1.3.3	Sensory Characteristics	Compliant	0	0	
1.4.1	Use of Colour	Compliant	0	0	
1.4.2	Audio Control	Compliant	0	0	
2.1.1	Keyboard	Compliant	0	0	
2.1.2	No Keyboard Trap	Compliant	0	0	
2.2.1	Timing Adjustable	Compliant	0	0	
2.2.2	Pause, Stop, Hide	Compliant	0	0	
2.3.1	Three Flashes or Below Threshold	Compliant	0	0	
2.4.1	Bypass Blocks	Non Compliant	53	0	
2.4.2	Page Titled	Non Compliant	2	2	
2.4.3	Focus Order	Compliant	0	0	
2.4.4	Link Purpose (In Context)	Non Compliant	24	0	
3.1.1	Language of Page	Non Compliant	4	0	
3.2.1	On Focus	Compliant	0	0	
3.2.2	On Input	Compliant	0	0	
3.3.1	Error Identification	Compliant	0	0	
3.3.2	Labels or Instructions	Compliant	0	0	

Are you really providing equal access?

Common Myths

- I can use a tool to check my accessibility automatically
- I must comply to ALL WCAG 2.0 success criteria
- If I check my website against the WCAG 2.0 criteria it will be accessible
- My customer can call our call centre so I do not need to worry about accessibility

I can use a tool to check my accessibility automatically

a. No alternative text

<img width="475" height="475" src="/media/7230950/IMG-475px.jpg">

Screen Reader says – "graphic 7230950/IMG-475px.jpg

b. Decoration only

<img width="475" height="475" alt="" src="/media/7230950/guide-dog-in-training-475px.jpg">

Screen Reader says – Ignored by screen reader

c. Inappropriate description

<img width="475" height="475" alt="Alsatian" src="/media/7230950/guide-dog-in-training-475px.jpg">

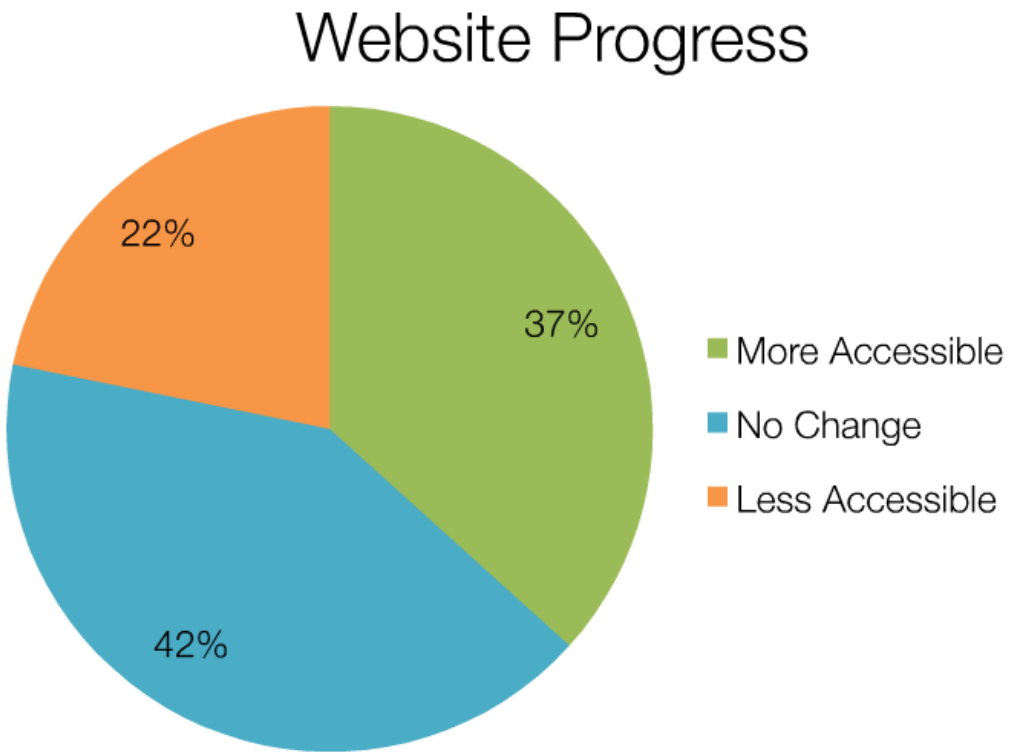
Screen Reader says – 'graphic Alsatian'

d. Actual Code

<img width="475" height="475" alt="Guide Dog In Training" src="/media/7230950/guide-dog-in-training-475px.jpg">

Screen Reader says – 'graphic Guide Dog in Training'

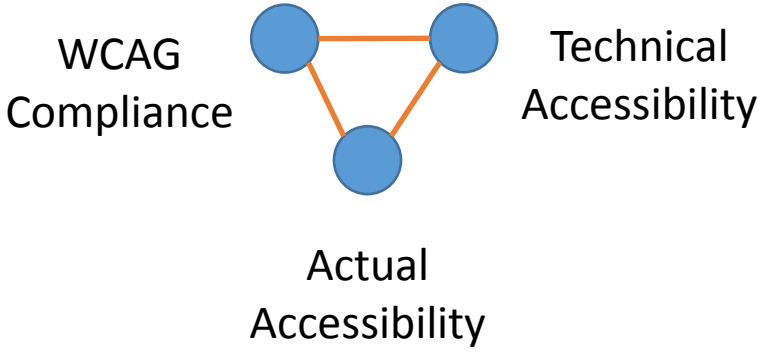
So how is it going? Ask the users.



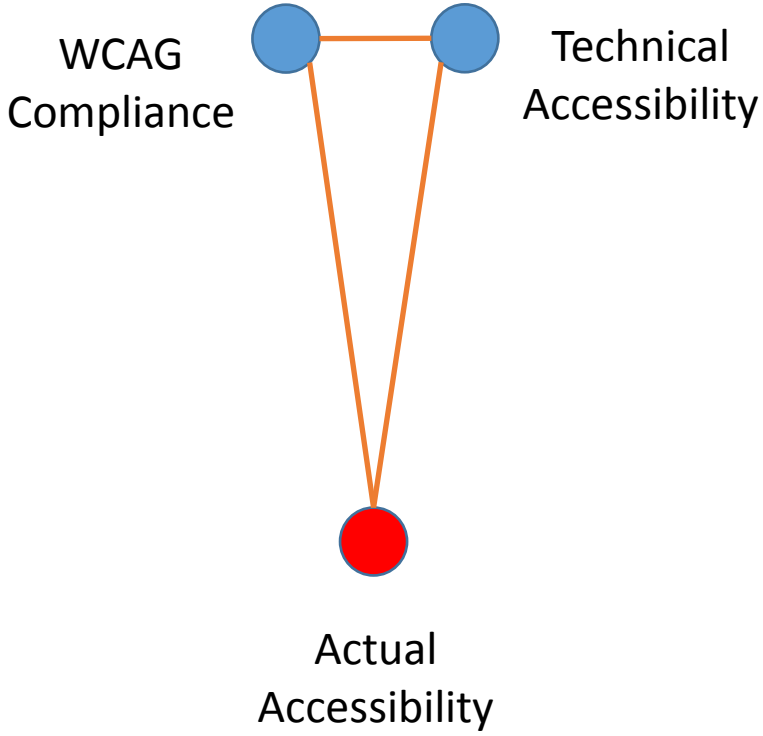
http://webaim.org/projects/screenreadersurvey5/

WCAG 2.0 then and now

2008



TODAY



Human Rights Commission acknowledges the gap

‘It should be emphasised, however, that accessibility of web content cannot always be achieved solely through compliance with WCAG 2.0. In addition to these Guidelines, web designers and authors will need to make themselves familiar with a range of tools, resources, and emerging best-practice solutions, as they meet their accessibility goals and responsibilities under the DDA and the Convention.’

Source - section 3.1 of World Wide Web Access: Disability Discrimination Act Advisory Notes version 4.0 (2010)

So how do we close the gap to genuinely help people with disabilities AND minimise risk?

Does this sound familiar?

‘Accessibility is not simply an extra requirement that can be added to the web development lifecycle. In order to show significant conformance results, accessibility must be incorporated in each existing link of the web production chain. The only way to successfully accomplish accessibility is to be able to plan it from the very start, and that means assigning responsibility to the various stakeholders and share the tasks in order to produce accessible content.’

Source - http://www.w3.org/community/wai-engage/wiki/Accessibility_Responsibility_Breakdown

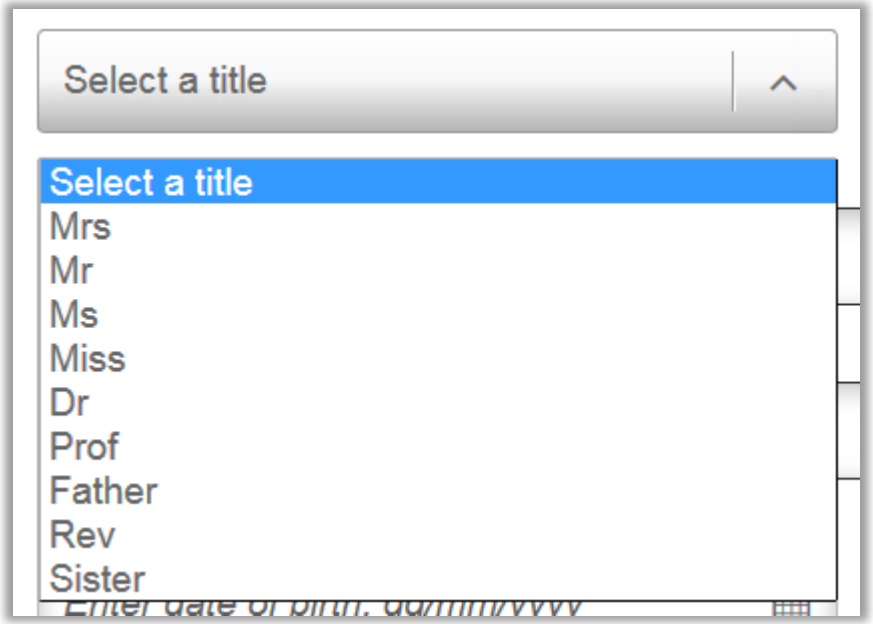
Testing for Accessibility

- Simulate disabilities across a range of browsers and devices.
- Use the tools that people with disabilities use every day

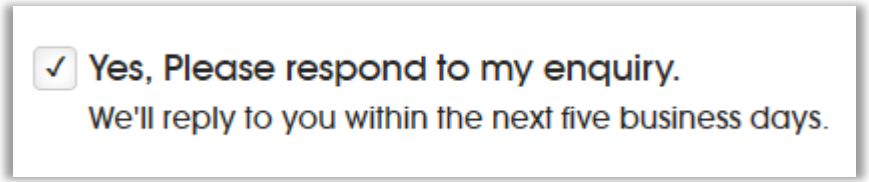
Keyboard Only Checks

- Tab and Shift-Tab – navigate forwards and backwards
- Enter and Space Bar – activate item

- Up and down arrows – moves page up and down, toggles radio buttons or selects items in drop down list



- Space bar – checks check boxes



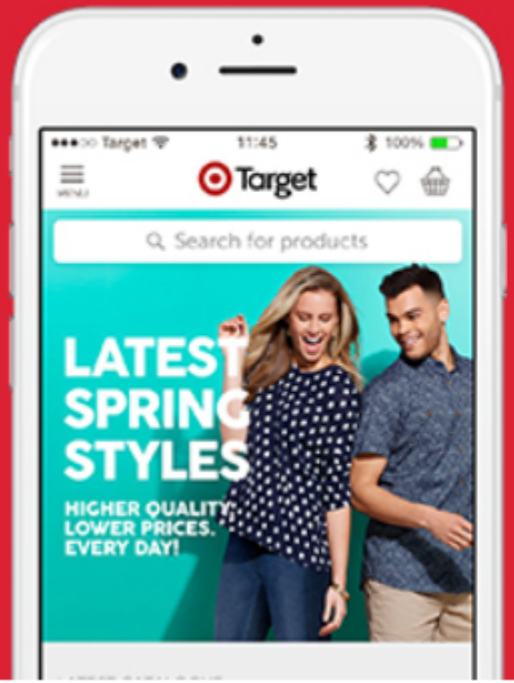
Target

Search...

Stores | Company | Catalogues | Sign In

WOMEN BABY KIDS MEN HOME TOYS ENTERTAINMENT BEAUTY LIFESTYLE CLEARANCE

FREE CLICK + COLLECT - orders over $19* **FREE HOME DELIVERY** - orders over $75* **FREE RETURNS** in store or via post*



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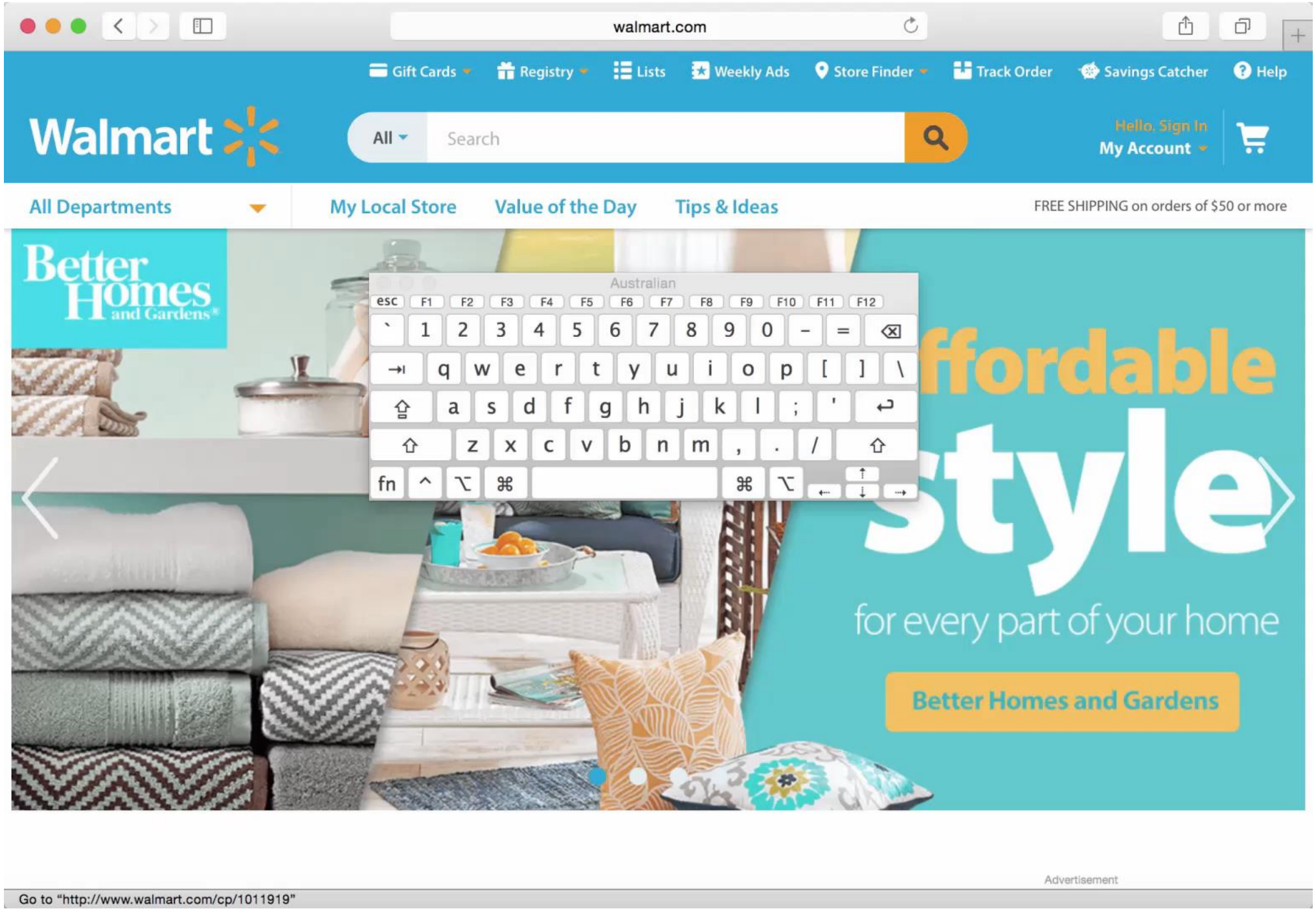
Keyboard – Focus Order and Visible Focus



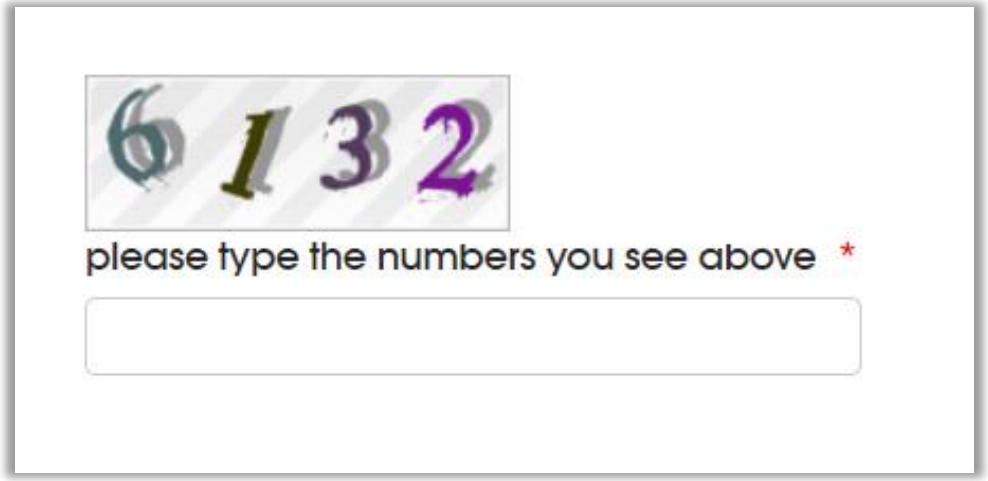
Auto Captions

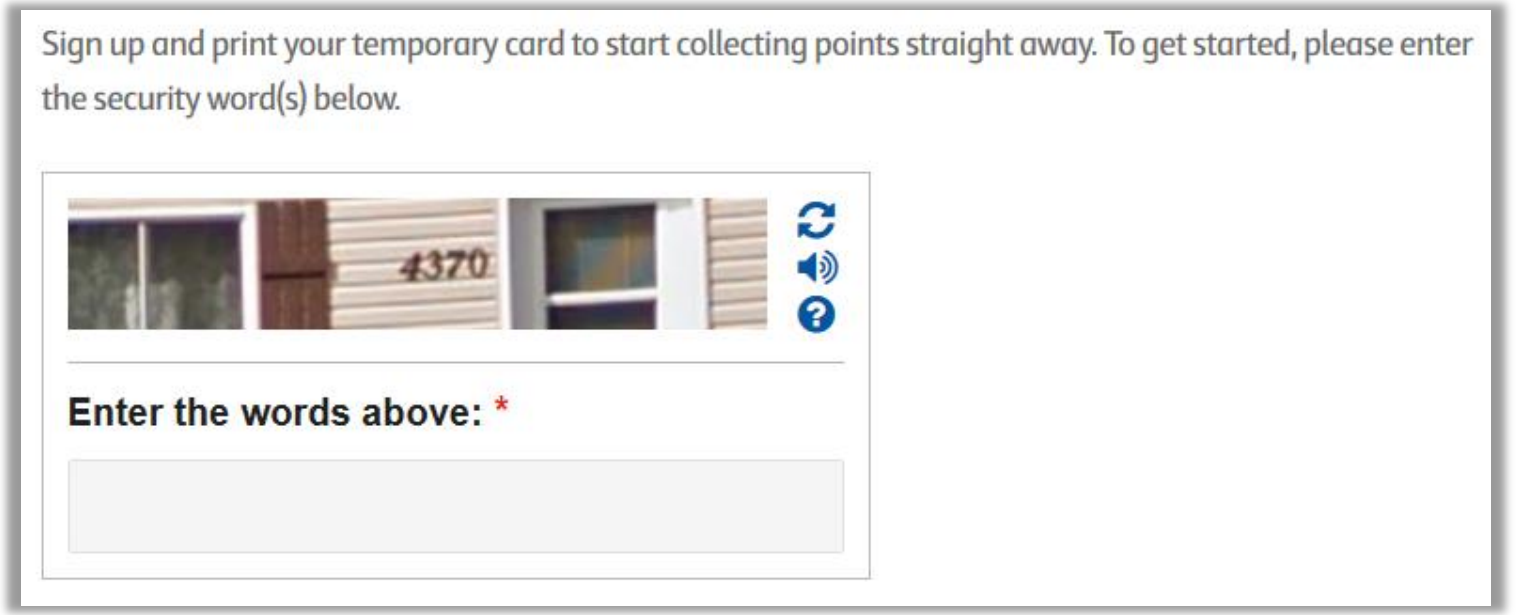
How to make a seafood platter with Curtis Stone - Coles
DAY Before
2PM
assault on the sofa okay see just tough sledding
1:10 / 4:31

can help you say boorda and money you
most likely to fondle ordinator at the

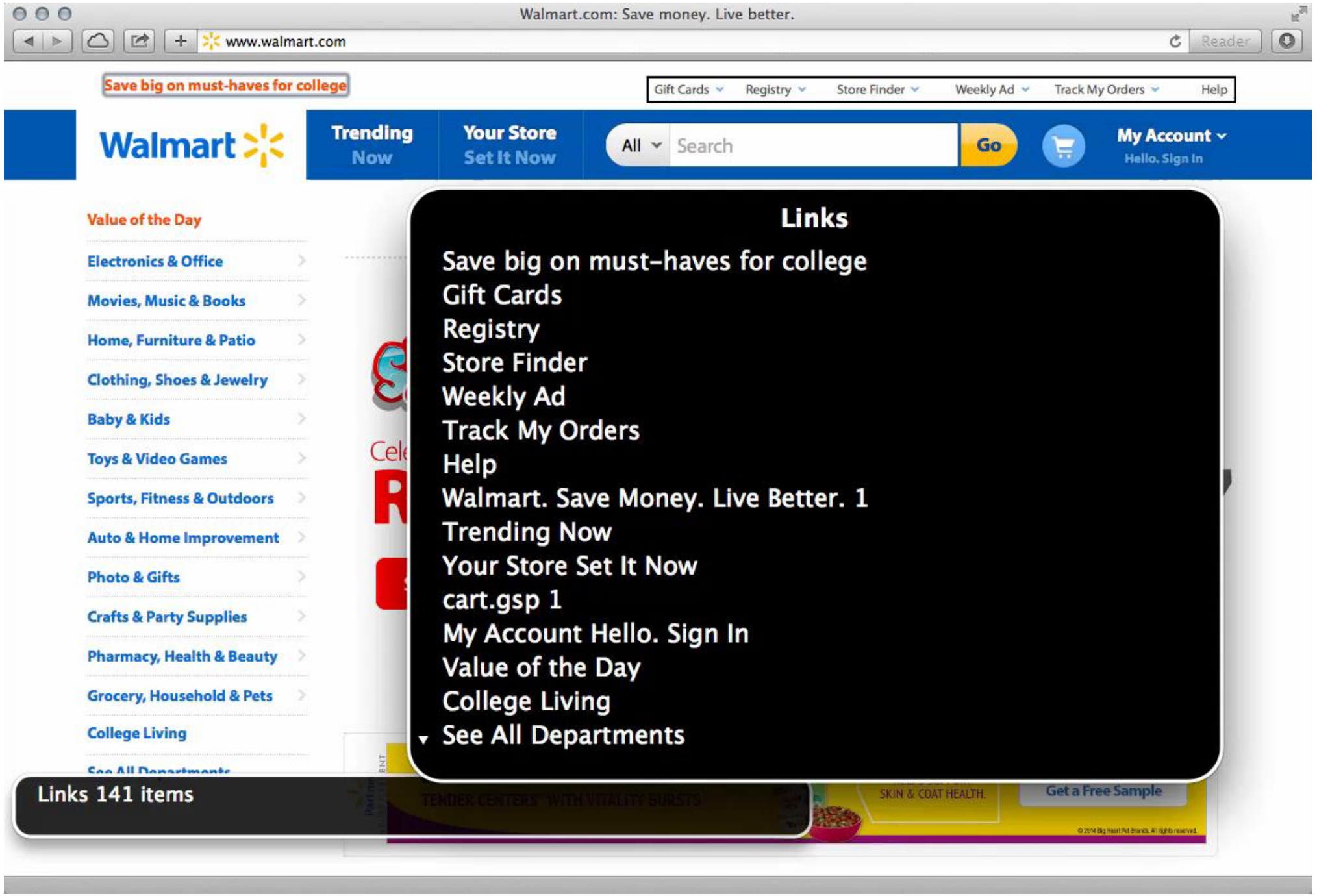
Colour (WCAG 1.4.3)

CAPTCHA

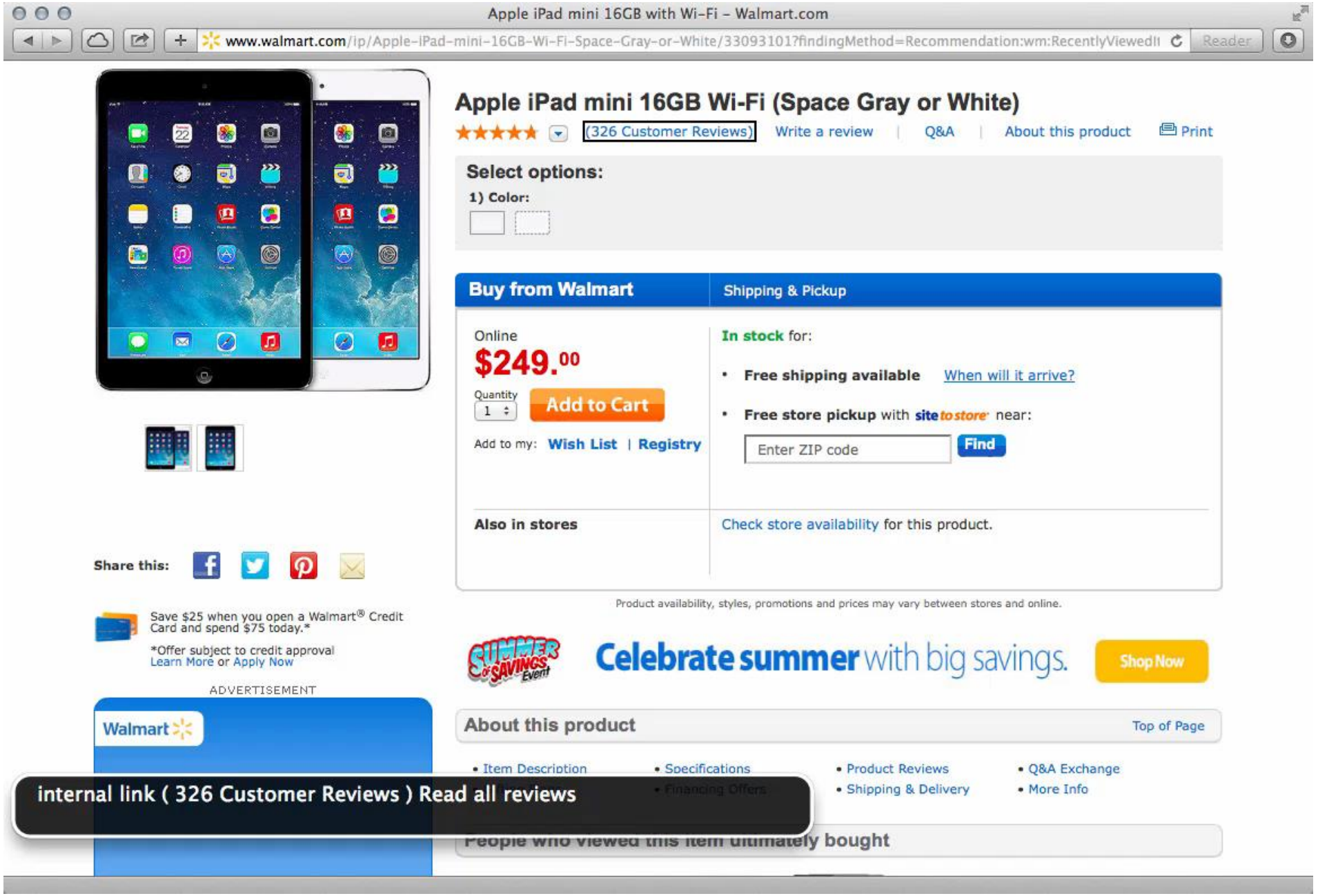

6132
please type the numbers you see above *


Sign up and print your temporary card to start collecting points straight away. To get started, please enter the security word(s) below.
4370
Enter the words above: *

Screen Reader – Link Purpose



Screen Reader – User not advised of change



Any Questions?