

# The Case for Accessibility

# Social/Business Case

# The Social Case

# Social model of disability

- Impairment/Disability
  - Barriers in society disable people
  - Removing these barriers is the key towards removing disabilities

# Capabilities Approach

- Evaluates societies in terms of human well-being
- Emphasises that all human beings should have the capability to function in important ways if they so choose

- Life
- Bodily Health
- Senses, imagination, thought
- Emotions
- Practical Reason
- Affiliation

# Policy Applications

- Basic dignity to the disabled
- Opportunities for education
- Accommodation for care-givers

# The Business Case



# The Business Case

*...ka-ching!*

- Building accessible websites makes good business sense
- Benefits both for users with impairments and for those without

- Impaired visitors may be more likely to use online services - whether e-commerce or searching for information
- Your site is available to a larger audience
- Visitors less likely to go to your competitors

- Provides a better experience to mobile users
- Ensures that your site is more easily found by search engines
- Lower maintenance and bandwidth costs
- Legal liability

# A Quick Study

# Legal and General

- UK Financial Services company
- Take up of some financial products via the site increased by 300%
- Maintenance costs were reduced by 66%
- Natural search improved by 50%
- The number of complaints about the inaccessibility of the web site fell to zero.

## HOTELS - THE LEELA PALACE KEMPINSKI BANGALORE

[LEELA HOME](#)

- MUMBAI

- BANGALORE

- Accommodation
- The Royal Club
- Dining
- Special Offer
- Rates & Reservations
- Meetings & Events
- Services & Facilities
- Photo Gallery
- Getting Here
- Reach Us
- Know Bangalore

- GOA

- KOVALAM

- UPCOMING HOTELS



Enconced in 9 acres of tranquility that includes an azure lagoon, The Leela Palace mirrors the lushness of the Garden City. Harking back to the royal heritage of the Vijaynagar Dynasty, our hotel earns it name by showcasing gold leaf domes, ornate ceiling and grand arches.

Located a mere mile from the Kempegowda International and domestic airports.

A<sup>+</sup> A<sup>+</sup>

print



mail



bookmark



feedback

## Special Weekend Offer





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### Heading level one

Recent job listings plus "Job Perks" feature

### Heading level two

tide three September two thousand seven tide Shane Lennon, SVP, Strategy and Marketing at Link GyPSii , posted a freelance listing at Authentic Jobs recently and within a few days was all set colon Block quote start We have gotten over twenty plus responses and more than enough capable candidates. Great site and very impressed with the broad range of skills and expertise from people who applied. Block quote end Full dash time job listings continue to prove successful for employers, but the responses are typically less in number and take longer than freelance listings to accumulate, given the tight job market we're in with record unemployment lows in the industry. This is because the candidate you want is likely already employed happily elsewhere. In talking with employers who've used other job sites, it's apparent this is the norm across the board. To address this, a few weeks ago we rolled out a new feature called Job Perks colon Graphic Screen grab showing Job Perks Job Perks is a simple feature that provides employers with an additional field to really sell their position left paren and company right paren . If I could, I'd encourage every employer to post their listing like Link this one . Alas, I believe being forthright about the benefits of the opportunity is the next best thing. Naturally, employers could include perks in the description about the position, but few do. Job Perks gives them an explicit reason to do so. left paren Incidentally, fellow job site provider thirty-seven signals wrote about Link writing better help wanted ads just last week. right paren Enough talk. Some recent listings are highlighted below. Full dash time left paren International right paren List of two items bullet London, UK Link Interaction Developer at Addison Corporate Marketing bullet Anywhere Link Talented CSS Web Designer at RocketTheme List end Full dash time left paren U.S. right paren List of nine items bullet Cupertino, CA Link Senior Visual Designer, Pro Applications at Apple Inc. bullet San Francisco, CA Link Senior User Interface slash Experience Designer at Big Tent Design bullet Tallahassee, FL Link Web Developer slash Programmer at Taproot Creative bullet Ithaca, NY Link Interface Designer slash Front End Developer at Cornell University bullet New York, NY Link Front dash end Designer slash Developer at Boom Design Group bullet New York, NY Link Advanced JavaScript Developer at KickApps bullet New York, NY Link Amazing User Interface Designer slash Engineer at First Look bullet Greenville, SC Link Interactiv Designer slash Art Director at Erwin dash Penland Interactiv bullet Greenville, SC Link PHP Developer at Erwin dash Penland Interactiv List end Freelance List of five items bullet Link Flash Developer at Estee Lauder Online bullet Link Flash Component Developer at Web Media bullet Link ASP Developer at newmediablends.com bullet Link Drupal Developer at Sideshow bullet Link Web designer at dietOut List end

### Heading level five

Link Archived article Link three comments

### Heading level one

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# Techniques for Making Webpages Accessible

# Impairments

- Visual
  - Completely Blind
  - Partial/Poor sight
  - Colour Blindness
- Motor/Mobility
  - Keyboard/Voice Users
- Seizures/Epileptic
- Auditory
  - Hard of Hearing
  - Completely Hearing Impaired
- Cognitive/Intellectual
  - Jargon
  - Non-native English Speakers

# Assistive Technology

- Screen readers (visual impairments)
- Large variety/range of devices (motor/mobility)
- Captioning (auditory)
- Simpler text (cognitive)

# List of Techniques

- Structural markup
- Using tables appropriately
- ALT Text
- Using Colour
- Source Ordering
- Skip Links
- Forms and Buttons



# Structural Markup

# Structural Markup

*...say what?*

- HTML is primarily a descriptive language
- Using appropriate tags can ‘add meaning’, or semantic value to web pages

# Some HTML tags

- Header tags (h1, h2, ..., h6)
- Quotation tag (blockquote)
- Emphasis (em)
- Strong (strong)
- Lists (ul/ol/dl)
- ...many more.

- Using appropriate HTML elements allows user agents to treat different groups of text...*differently*

# Headings

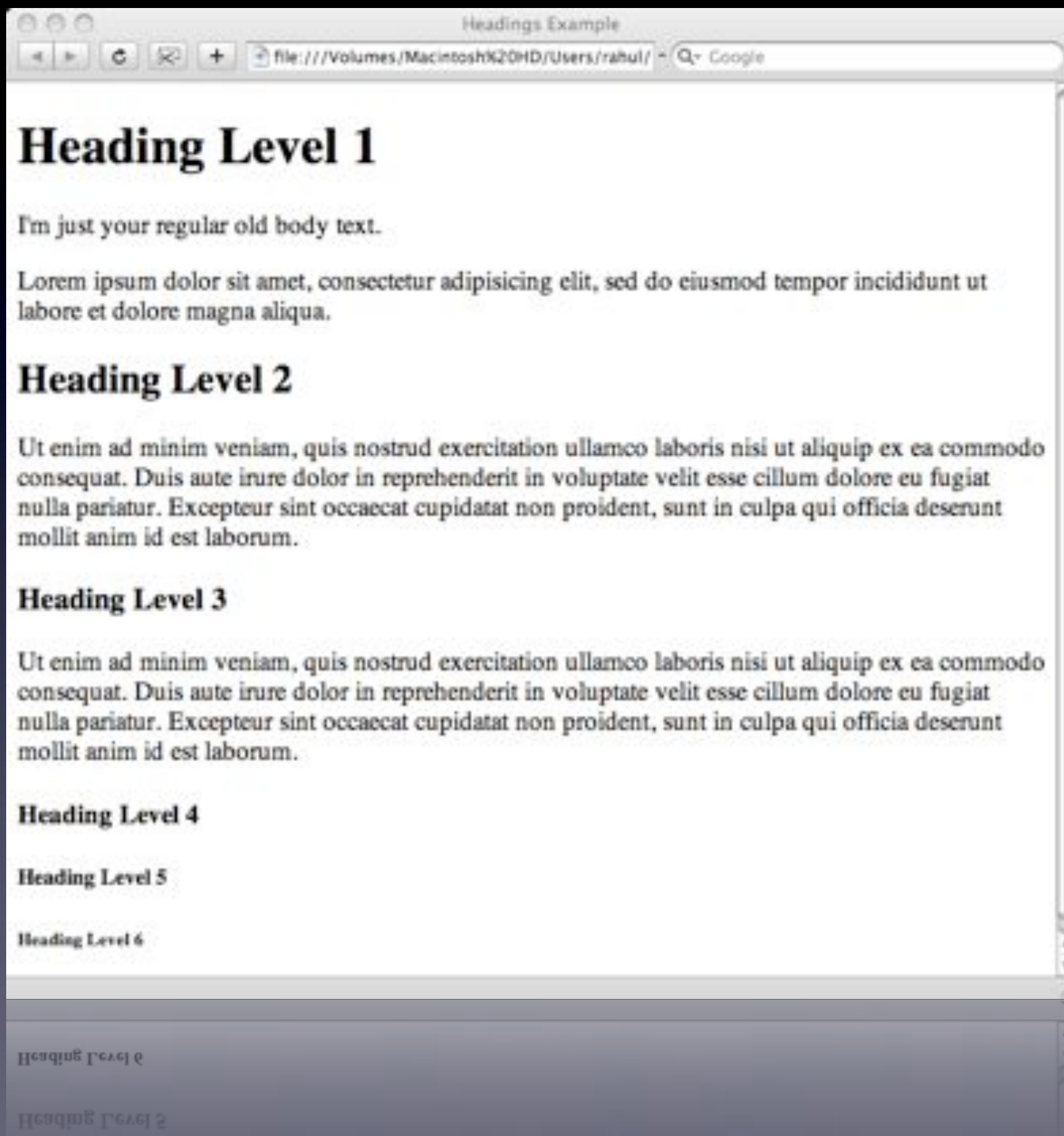
`<h1>Heading Level 1</h1>`

`<p>I'm just your regular old body text.</p>`

`<h2>Heading Level 2</h2>`

`<h3>Headings Level 3</h3>`

*...etc.*



# An Unordered List

<ul>

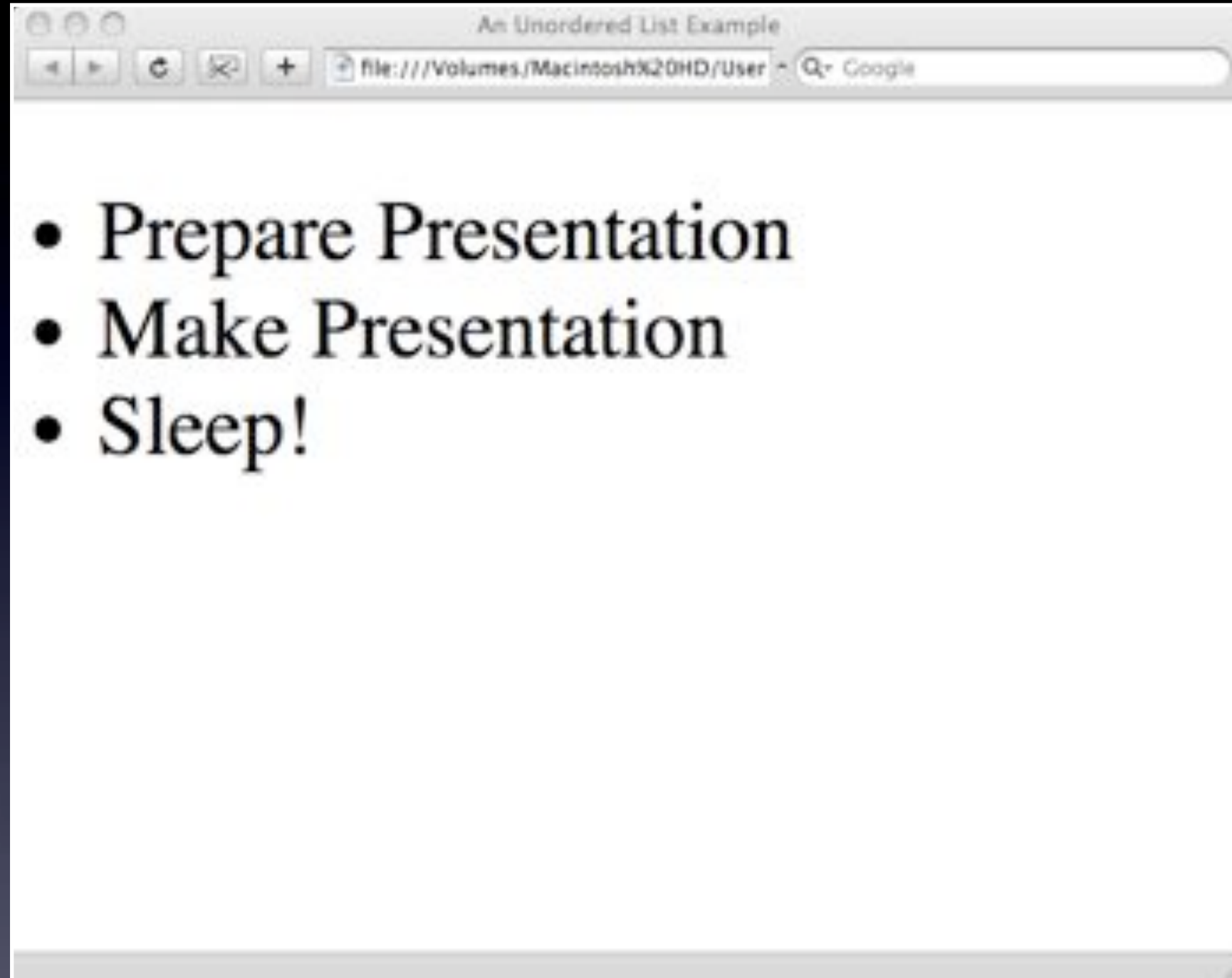
<li>Prepare Presentation</li>

<li>Make Presentation</li>

<li>Sleep!</li>

</ul>





- Prepare Presentation
- Make Presentation
- Sleep!

- Screen readers can ‘summarise’ a page, by reading out all the headings on the page
- JAWS, a popular screen-reader, announces when quotations, marked up with the `<blockquote>` tag are entered and exited
- Data tables, lists, headings - all treated differently from body text

# Being Well Marked Up

- Use appropriate HTML elements for different content
- Headings, lists, paragraphs, quotations, tables, emphasis



TAKE  
YOUR  
FORK  
IN  
YOUR  
LEFT  
HAND



TAKE  
YOUR  
KNIFE  
IN  
YOUR  
RIGHT  
HAND



# Table Manners



- HTML originated in the scientific community
- Intended for displaying and sharing scientific papers

- Data tables were misused, to 'lay out' webpages

A butterfly's relatively enormous compound eyes are made up of thousands of ommatidia each of which senses light and images.



## Larva



The head has a pair of very short antennae, mouthparts (upper lip, mandibles, and lower lip), and six pairs of very simple eyes, called ocelli.

## Adult larva



ommatidia ocelli



1

A butterfly's relatively enormous compound eyes are made up of thousands of ommatidia each of which senses light and images.

2 Larva

3



4



5 Adult

6

The head has a pair of very short antennae, mouthparts (upper lip, mandibles, and lower lip), and six pairs of very simple eyes, called ocelli.

7

2 pupa

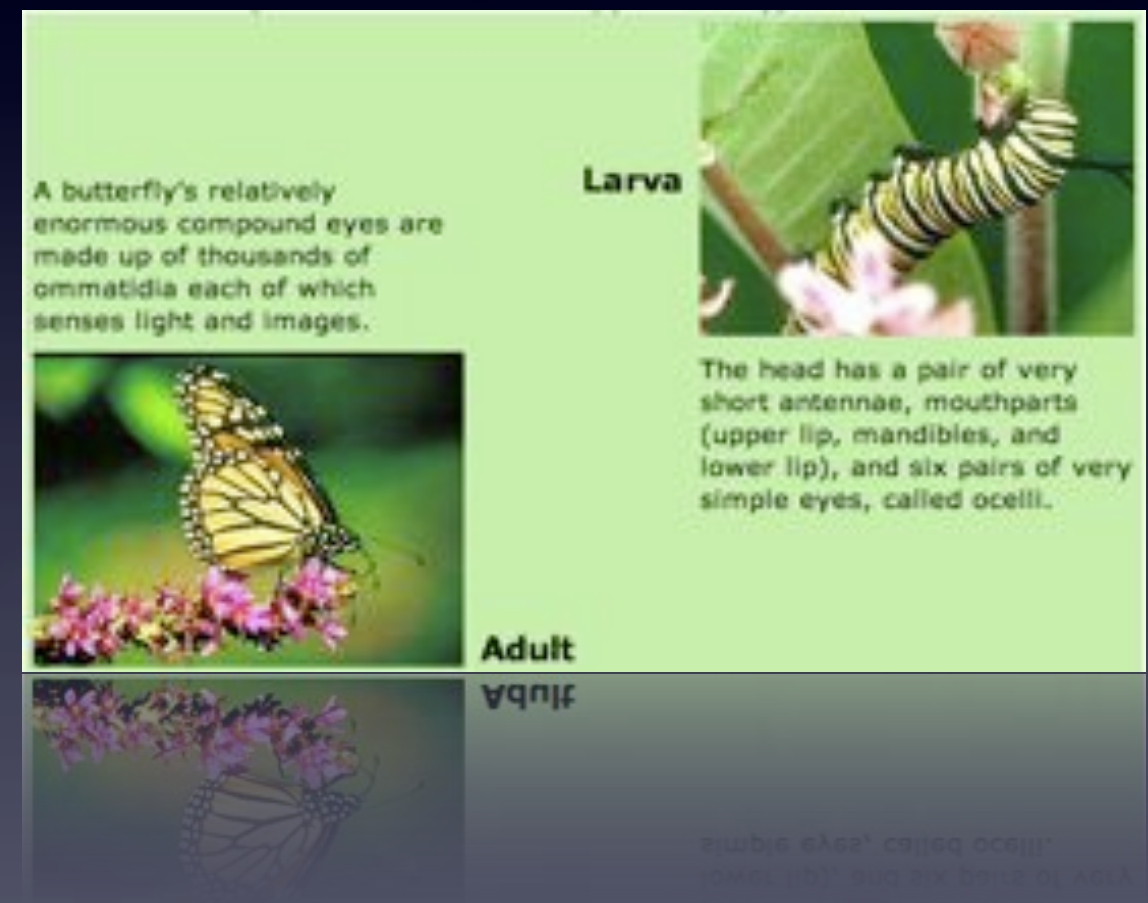
1



αἰσθητικὴ ἐλέγχ' ὁππότε οὐρα  
τοῦτο ἐπὶ τῇ αὐτῇ τῇ αὐτῇ τῇ αὐτῇ

- When linearised, table contents may not be read by assistive technology devices in an order that makes sense.

- 1 - A butterfly's relatively enormous compound eyes are made up of thousands of ommatidia each of which senses light and images.
- 2 - Larva
- 3 - Monarch Butterfly Larva
- 4 - Monarch Butterfly
- 5 - Adult
- 6 - The head has a pair of very short antennae, mouthparts (upper lip, mandibles, and lower lip), and six pairs of very simple eyes, called ocelli.



## Balance Sheet

US-GAAP

	A	B	C	D	E	F	
1	Assets	Q1	Q2	Q3	Q4		
2	<b>Current Assets</b>	7422363	283712837	238718	128378		
3	Cash	R\$ 12,37,12,487	R\$ 21,48,74,78,18	R\$ 1,28,47,81,748	R\$ 28,47,81,274		
4	Accounts Receivable	R\$ 1,23,86,778	R\$ 12,84,78,127	R\$ 1,82,74,82,174	R\$ 28,14,791		
5	-Doubtful Accounts	R\$ 8,124	R\$ 2,47,18,274	R\$ 4,81,27,487	R\$ 18,47,82,174		
6	Inventory	R\$ 12,43,87,12,48	R\$ 18,24,78,21,78	R\$ 28,74,81,274	R\$ 1,28,47,21,487		
7	Temporary Investments	R\$ 1,24,87,12,847	R\$ 1,28,74,12,847	R\$ 1,28,47,28,147	R\$ 1,28,47,18,247		
8	Prepaid Expenses	R\$ 2,14,72,148	R\$ 1,28,47,81,274	R\$ 2,18,47,28,174	R\$ 2,18,47,214		
9	Other Current Assets	R\$ 34,78,247	R\$ 1,24,87,12,874	R\$ 1,24,87,821	R\$ 21,84,71,23,88		
10	<b>Total Current Assets</b>	R\$ 12,45,28,88,38	R\$ 43,70,84,88,28	R\$ 8,82,88,18,828	R\$ 24,81,87,89,08	R\$ 0	
11							
12	<b>Fixed Assets</b>						
13	Long Term Investments						
14	Land						
15	Buildings						
16	-Accumulated Depreciation						
17	Property, Plant and Equipment						
18	-Accumulated Depreciation						
19	<b>Total Net Fixed Assets</b>	R\$ 0	R\$ 0	R\$ 0	R\$ 0	R\$ 0	
20							
21	<b>Total Assets</b>	R\$ 12,45,28,88,38	R\$ 43,70,84,88,28	R\$ 8,82,88,18,828	R\$ 24,81,87,89,08	R\$ 0	

Liabilities and Shareholders' Equity	Q1	Q2	Q3	Q4
<b>Current Liabilities</b>				
Accounts Payable				
Short Term Notes				
Current Portion of Long Term Notes				
Interest Payable				
Taxes Payable				
Accrued Payroll				
Other Current Liabilities				

Other Current Liabilities  
 Accounts Payable  
 Taxes Payable  
 Interest Payable  
 Current Portion of Long Term Notes  
 Accrued Payroll  
 Other Current Liabilities

# How to use tables

- Avoid the use of tables as a layout mechanism
- Ensure that when linearised, tables read correctly
- Use HTML elements to make complex tables accessible to all visitors

ALT Text

*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*

# Non-text content

- Images
- Videos
- Sounds



# Image Accessibility

- WCAG guidelines specify that all images **MUST** have a text equivalent
- “ALT” text
- “LONGDESC”

# What you SHOULD do

- Ensure that all images have a text equivalent
- Ensure that audio files/videos have captions for the hearing impaired



# Colour and Meaning



- Colour is a means of conveying meaning
- Visited/Unvisited links
- Document hierarchy
- Feedback

- Colour blindness affects approximately 4-8% of the male population
- Most common forms:
  - Protanopia
  - Deuteranopia
  - Tritanopia

*If I confuse this item with something else, will I make a mistake? Will I be unable to do what I want?*

- Links
- State changes
- Highlighting Information



# Things to remember

- Care must be taken, while choosing colour combinations
- Avoid merely using colour to indicate an item
- Ensure that there is sufficient contrast between foreground and background colours

# Source Ordering

- The WCAG 2.0 Guideline 3.2 specifies that web pages should “*appear and operate in predictable ways*”

- All internet users rely on preconceived notions of how webpages operate
- Especially true for visually impaired users
- Non-visual user agents parse webpages in a linear manner

- Modern design techniques allow the visual position of content to be different from the position of the content within the source code
- Present different experiences to different users



## Centre For Learning

CFL is an alternative school started by a group interested in the educational philosophy of J. Krishnamurti. As a community of teachers, parents and children, we are concerned with learning. This learning involves not only academics and other life skills, but also a deeper learning about ourselves, our relationships and the way we respond to the challenges of life.

*"Surely, education has no meaning unless it helps you to understand*

*respond to the challenges of life.*

*deeper learning about ourselves, our relationships and the way we*

## News!

### Conference, December 2006



We are happy to share with you a brief account of our December 2006 conference, Educating for a Sane Society. Our aim was to gather a

large number of teachers and educators from all over India (and abroad) in order to dialogue about some crucial areas of concern in education today. [Read More](#)

concern in education today. [Read More](#)



- Screen reader users may be given “body content” first, and “navigational content” second

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"Surely, education has no meaning unless it helps you to understand the vast expanse of life with all its subtleties, with its extraordinary beauty, its sorrows and its joys."

- J. Krishnamurti

## More About

- [Centre For Learning |](#)
- [J. Krishnamurti |](#)
- [CFL Education](#)
- [Staff |](#)
- [The Campus |](#)
- [A Day at CFL |](#)
- [Getting Here](#)

## News!

### [Conference, December 2006](#)

Our mela this year is on astronomy. As usual, we have undertaken many different kinds of activities: experimentation, mapping, navigation, art, craft and drama. And, of course, watching the night sky. [Read More](#)

### [Walk to School, August 2006](#)

Walk to CFL

The Walk To School on the 12th of August was a great success! Students, teachers, Parents and many visitors, walked distances of upto 35 km on that day. Great weather, great spirits! At the end of the day, many felt, "We should do this again!" [Read More](#)

- [Home](#)
- [About](#)
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  - [J. Krishnamurti](#)
  - [Staff](#)
  - [Campus](#)
  - [A Day at CFL](#)
  - [Parents Role](#)

- [Parents Role](#)
- [A Day at CFL](#)

# Source-ry

- There is considerable debate over this technique
- Significant research is needed to identify discernible patterns of interaction and to build towards those

# Skip Links

- WCAG Guideline 2.4.1 specifies that blocks of content which are repeated over multiple web pages be bypass-able

- Sites often have “repeating blocks of content”, such as navigation menus
- Screen-reader users have to listen to these repeated on each page



- “Skip links” are intra-document navigation devices that allow users to skip past repeated blocks of content

# To skip, or not to skip...

- Screen readers and assistive technology devices have built in intra-document navigation features
- However, knowledge of these features is often limited to more experienced users
- Skip links can be a useful tool for keyboard and visually impaired visitors

# Forms and Buttons

- Presentation of buttons and forms on the web are, by default, *ugly*
- Designers often use images to replace buttons on the web

- Forms which don't have labels associated with them, are extremely confusing, when linearised

Buttons and Forms

file:///Volumes/MacintoshX20HD/Users/rahu/ - Q- Google

<input type="text"/>	First Name
<input type="text"/>	Last Name
<input type="text"/>	Title
<input type="text"/>	Sex



- Using the <label> tag:
  - "Edit: First Name"
  - "Edit: Middle Name"
  - "Edit: Last Name"
  - "Edit: Title"
  - "Edit: Sex"

- Without the `<label>` tag:
  - "Edit"
  - "Edit"
  - "Edit"
  - "Edit"
  - "Edit"

# Online Access Legislation

# India and the UN

- India is now a signatory to the UN Convention on the Rights of Persons with Disabilities

# Article 9

*To promote access for persons with disabilities to new information and communications technologies and systems, including the Internet*

# Article 21

- *Urging private entities that provide services to the general public, including through the Internet, to provide information and services in accessible and usable formats for persons with disabilities*
- *Encouraging the mass media, including providers of information through the Internet, to make their services accessible to persons with disabilities*

# Comparable Legislation

- Section 508 (*amendment to the Rehabilitation Act, 1978*), United States of America
- Common Look and Feel Standards, Canada
- Publicly Available Specification No. 78 - Guide to Good Practice in Commissioning Accessible Websites, United Kingdom



Where hence?

RahulGonsalves.com