

Web UI

17/3/2014

Outline

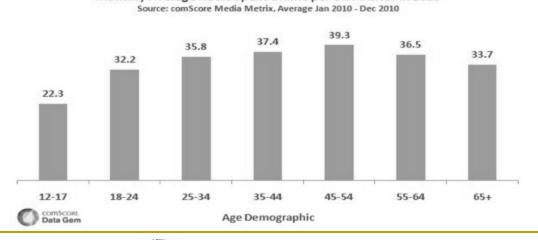


- Prevalence and importance of Web design
- Text and Hypertext
- Web Usability considerations
- Guidelines and Tips on Web UI design
- UI Hall of Fame and Shame

Prevalence of Internet

- Internet is now the dominant activity of computer users
 - In 2010, the average American spent 32 hours per month on the Internet
 - Persons aging 45-54 spent more than 39 hours online per month
 - Americans spend as much time online as they do watching their TVs

 Monthly Average Hours Spent Online per U.S. Visitor in 2010



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Importance of Web Design

- Millions of websites on Internet and it still keeps growing everyday, even faster
 - some are visited often, some to a small audience
- Purpose of websites
 - communication
 - education/information
 - e-commerce/e-business
 - entertainment
 - **...**
- Good Web site design can lead to good return on investments

Importance of Web design (cont'd)

- Two most elusive goals of effective Web design
 - user satisfaction and return on investment
- Usability is still the critical issue for Web design
 - if your site is difficult to use people leave
 - if it is not clear what is offered people leave
 - if it is hard to read people leave
 - if it is unattractive people leave
 - if it is boring people leave
 - if it doesn't work the way they are used to - they leave
 - if they get lost they leave
 - if they get frustrated they leave



Source: "User interface design and evaluation", Debbie Stone et al., 2005

Importance of Web design (cont'd)

- A story NY Times, Aug 30 1999, on IBM Web site
 - "Most popular feature was ... search ... because people couldn't figure out how to navigate the site."
 - "The second most popular feature was the help button, because the search technology was so ineffective."
- After redesign

3/9/2014

- use of the "help" button decreased 84 percent
- sales increased 400 percent

Importance of Web design (cont'd)

- \$300 million button, reported by Jared Spool
 - http://www.uie.com/articles/three_hund_million_button/



- Jakob Nielsen estimates 135% improvement for 10% budget spent on usability
 - measured in sales, site traffic, productivity, use of features

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Prevalence and importance of Web design

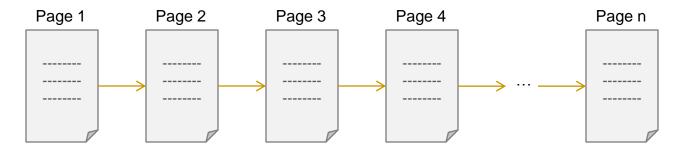


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Text and Hypertext

Text

imposes relatively strict linear regression on the reader



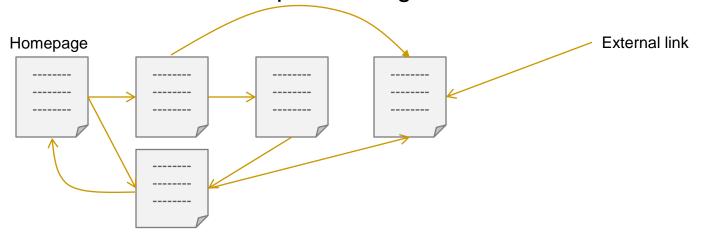
structure and order of ideas are dependent on the author

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Text and Hypertext (cont'd)

Hypertext

- a dynamic organization of information through links and connections (hyperlinks)
- non-linear structure
 - blocks of text (pages)
 - links between pages create a mesh or network
 - users follow their own path through information



Text and Hypertext (cont'd)

- Hypermedia
 - Not just text, but also includes
 - Videos
 - Photographs
 - Audios
 - Links
 - Embedded apps
 - **...**



Text and Hypertext (cont'd)

- Advantage of non-linear structure
 - very powerful
 - users follow their own path through information
- Challenges
 - hugely expanded connectivity
 - consequent loss of logical structure
 - cognition and content
 - fragmentary information no integration → confusion
 - navigation and structure
 - hyperlinks move across structure where am I?
 - □ → search and delivery methods are important

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Usability for Web Design

- Many usability principles applicable to Web UI design
 - Iterative design, user-centered design
 - Modeling approaches
 - Development principles, rules and standards
 - Information layout and perceptual factors
 - Evaluation methods
- But Web UI has restrictions different from traditional UI design

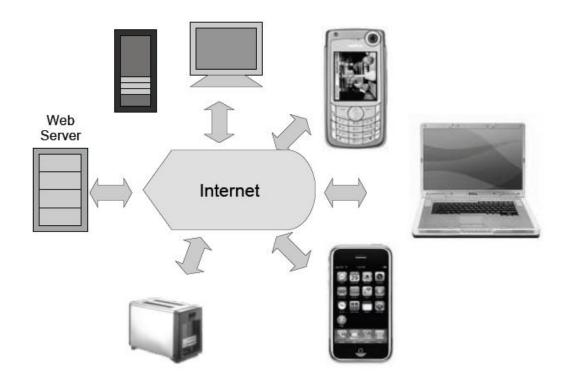
Usability for Web Design (cont'd)

Traditional Desktop-Based UI vs. Web-based UI

Traditional Desktop-Based UI	Web-based UI
Users are more loyal	You cannot control user. People will leave if your website is difficult to use
You control each pixel	You give up control to meet client/server hardware/software needs
You know for what system you are designing	Your result could appear on WebTV!
The designer can control where the user goes and when	The user has more control of their navigation, and may only stay for a few moments!
You are part of an enclosed experience	Obviously not the same for Web design!

Usability for Web Design (cont'd)

- The Web is distributed
 - Web servers, web browsers, web pages
- Diverse devices



Usability for Web Design (cont'd)

Diverse users



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"On the Internet, nobody knows you're a dog."

Specific Web Usability Considerations

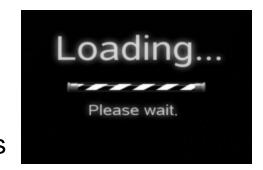
- Network issues
 - Bandwidth
 - Timing, latency
- Architectures
 - Information architecture
 - Information taxonomy
 - Content management
 - Web UI architecture
 - Task navigation
 - Appearance design

Network issues

- Bandwidth
 - how much information per second
- Latency
 - how long it takes (delay)
- Jitter
 - how consistent is the delay
- Reliability
 - some messages are lost
 - need to be resent → increases jitter
- Connection set-up
 - need to "handshake" to start

Network issues (cont'd)

- Design implications
 - Bandwidth
 - Consider download time
 - Different media qualities: different formats
 - Connection time
 - Big files vs. small multiple files
 - Latency
 - Giving feedback
 - □ E.g., using progress indicator
 - Breaking large service into small pieces



Web Development Architectures

Information Design

Information architecture
Information taxonomy
Content management

Web UI architecture
Task navigation
Appearance design

Graphics Design

Information Architecture

- Information architecture is a combination of organizing a site's content into categories and creating an interface to support those categories
- Information taxonomy is the core of information architecture
 - refers to the effective structuring of content within a defined scope to facilitate easy and accurate access

Information Architecture (cont'd)

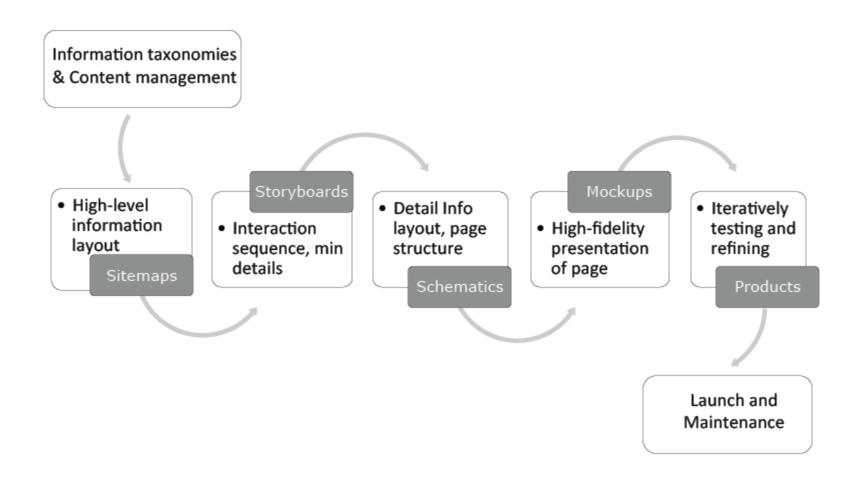
- Information taxonomy (cont'd)
 - presents Web content with logically grouped topics or categories so a site visitor can navigate and locate information easily
 - Helps better Web development
 - content management
 - design process
 - search process
 - Even the most efficient search engine cannot completely overcome problems caused by
 - poorly conceived information taxonomy
 - or completely absent information taxonomy

Information Architecture (cont'd)

Information taxonomy



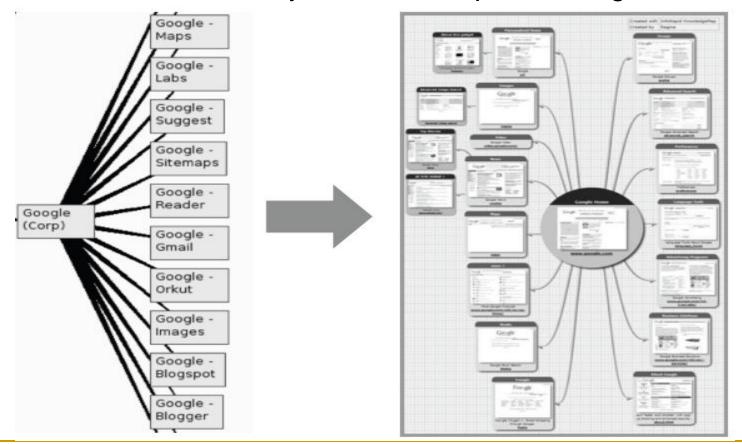
Web UI Architecture



Site Maps

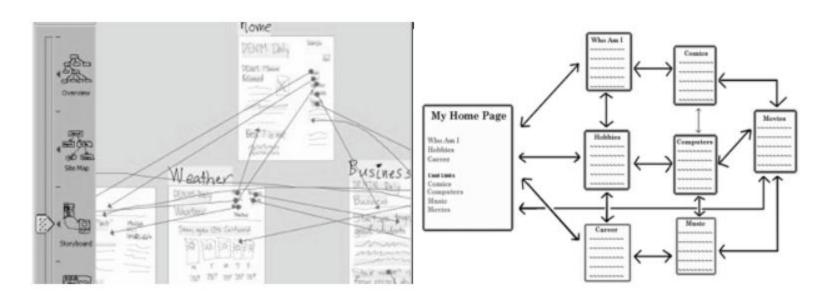
- Site maps organized hierarchically
 - used as planning tool
 - provide the designer a high-level view of entire site
- Use textural labels, diagrams, flowcharts.
- Pay special attention on the paths of navigation through the information space
- Tools used
 - Hand-drawn (small site)
 - PowerPoint
 - Visio or Illustrator

- Site Maps (cont'd)
 - Information taxonomy is used as input to design site maps



Storyboards

- Provide a concrete presentation of interaction sequence for each page, item, or subtopic
- Tools used
 - Hand-drawn (small site)
 - PowerPoint, Visio or Illustrator

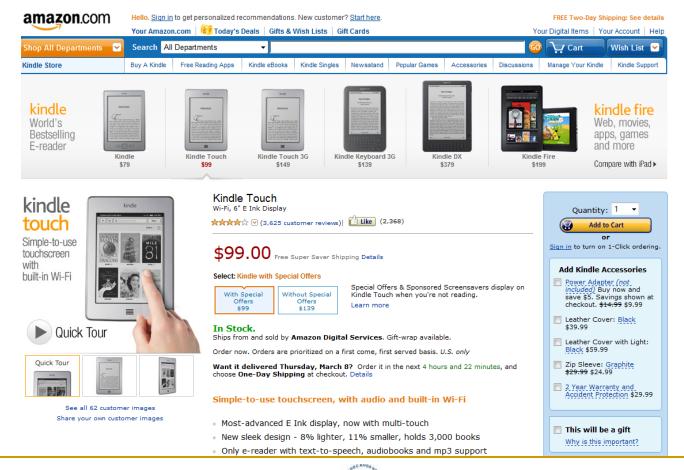


Schematics

- Provide detailed navigation content of pages, page layout and structures
- Consider graphics elements



- Mockups and products
 - Detailed and correct presentation of content



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Top 10 Mistakes in Web Design (from Jakob Nielsen, 2011)

- Bad Search
- 2. PDF Files for Online Reading
- 3. Not Changing the Color of Visited Links
- Non-Scannable Text
- Fixed Font Size
- 6. Page Titles With Low Search Engine Visibility
- 7. Anything That Looks Like an Advertisement
- 8. Violating Design Conventions
- 9. Opening New Browser Windows
- 10. Not Answering Users' Questions

Ten Good Deeds in Web Design (Jakob Nielsen)

- 1. Place the name and logo on every page and make a link
- 2. Provide search if the site has more than 100 pages
- 3. Write straightforward and simple headlines and page titles
- 4. Structure the page to facilitate scanning
- 5. Use hypertext to structure the content space into a several subtopics
- 6. Use product **photos**, but avoid cluttered and bloated pages
- 7. Use relevance-enhanced image reduction for small images
- 8. Use link titles to provide users with a preview of where will take them
- 9. Ensure all important pages are accessible for users with disabilities
- 10. Do the same as everybody else

Jakob's Law: "Users spend most of their time on other sites"

Source: http://www.useit.com/alertbox/991003.html

Some Web Design Guidelines

- Site tourists: you cannot control the user
- Loyal visitors: you almost want to say "Please bookmark me"
- Avoid frames
- People will not "hang around" if they see the site is not maintained current
- Users are impatient
- Reduce scrolling, especially at the home page
- Avoid animation unless it has a purpose, like showing how a game is played
- Don't animate forever
- Don't do "Enter Here"
- Limit the number of colors used

Some Web Design Guidelines (cont'd)

- A site needs to make clear what it is supposed to do and how it is organized
- Don't match other media, e.g. brochures, TV ad, and push that onto the web page. Do the web first
- Link wisely, not everything. Also, don't just say "click here" without a highlight or reference
- Tell people where you are. Provide navigation buttons and/or site maps.
- On-line survey & forms need smooth interaction, "clear" button, easy to back up and correct, pull down choices, etc.
- Strong metaphor can be "over cute"
- Spend a moment on URL design
- White background preferred with easy-to-read (dark) lettering

Top 10 Guidelines for Homepage

- Include a One-Sentence Tagline
- Write a Window Title with Good Visibility in Search Engines and Bookmark Lists
- 3. Group all Corporate Information in One Distinct Area
- 4. Emphasize the Site's Top High-Priority Tasks
- Include a Search Input Box
- 6. Show Examples of Real Site Content
- Begin Link Names with the Most Important Keyword
- Offer Easy Access to Recent Homepage Features
- Don't Over-Format Critical Content, Such as Navigation Areas
- 10. Use Meaningful Graphics

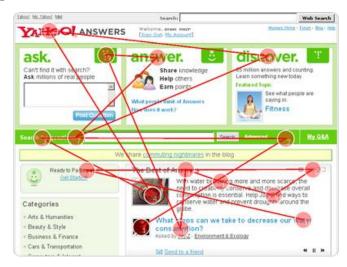
Tips on Web writing

People rarely read Web pages word by word

instead, they scan the page, picking out individual words

and sentences

- Good Web pages often employ scannable text
 - Highlight keywords
 - Use bulleted lists
 - Have one idea per paragraph



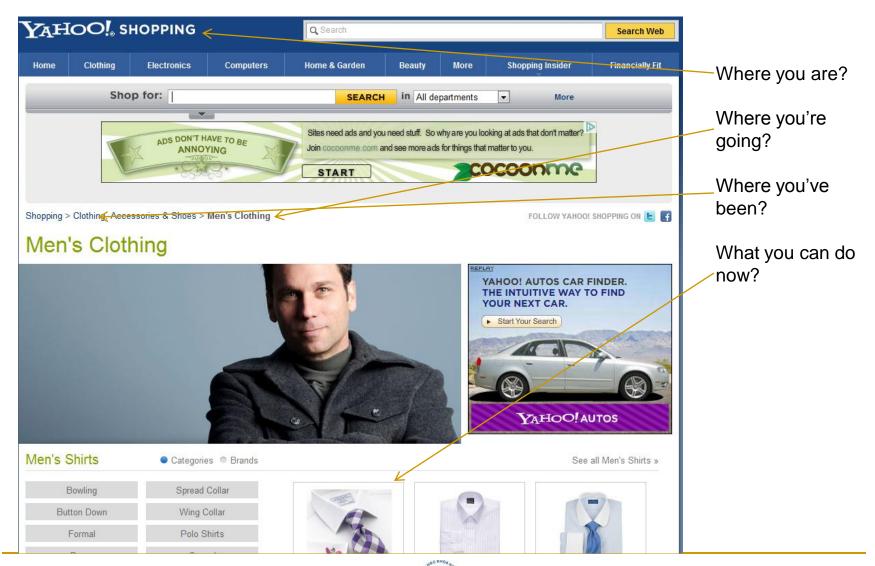
Source: http://www.feng-gui.com

Tips on Hyperlink and Navigation

Apply HCI rules

- Where & what of navigation in hyperspace
 - Where you are?
 - Where you're going (or what will happen)?
 - Where you've been (or what has been done)?
 - What you can do now?

Tips on Hyperlink and Navigation (cont'd)



Tip on link: informative title

 Basic Rule – helping users to make an informed decision before they click



Tips on graphical elements

Apply general UI principles

- Color should be used with care
 - Don't use many colors in text unless it is a link
 - Don't use non-standard link colors
 - White background preferred with easy-to-read lettering
- Font should be used carefully
 - Don't use too small fonts, non-standard, frozen size
 - Avoid clutter and low contrast and resolution
- Image/video/animation
 - Avoid "eye candy" unless it supports a message
 - Motion attracts attention. Useful if important, otherwise distracting
 - Optimize pages for loading speed

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Google

kich phu nhuan

Search

About 2,980,000 results (0.25 seconds)

Everything

Images

Maps

Videos

News

Shopping

More

All results

Related searches

More search tools

Tip: <u>Search for English results only</u>. You can specify your search language in Preferences

Chào mừng Quí vị đến với Sân khấu Kịch Phú Nhuận

www.kichhongvan.com/ - Translate this page [+1]

i. S. o. á. n. g. e. á. n. Ñ. e. å. T. h. ö. ô. û. n. g. T. h. ö. ù. c. Ñ. u. u. a. ú. n. g. G. a. ù. n. h. L. o. Ñ. i. M. a. ø. V. u. i. S. o. á. n. g. Q ...



SÂN KHẤU KỊCH HỒNG VÂN. Lưu ý : Quý khách có thể đặt vé qua ...

Thứ 6 ngày 13

Kịch Hồng Vân đang rất hy vọng vở Thứ Sáu ngày 13 (KB: Thái ...

Đặt vé

SÂN KHẦU KỊCH HỒNG VÂN. Lưu ý : Quý khách có thể đặt vé ...

Liên Hê

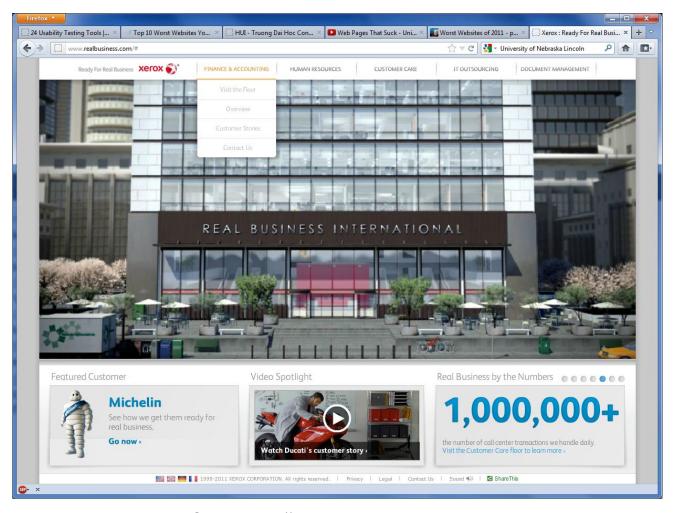
Cám ơn Quí vị đã đến với Nhà hát kich Hồng Vân. Quí vi cần trao ...

Clip

Trailer: Nước mắt người điện-Số đỗ-Làm người ai làm thế. Vơ ...

Diễn Đàn

+ Nếu đây là lần đầu tiên truy cập vào diễn đàn hãy click vào Hỏi ...



Source: http://www.webpagesthatsuck.com



Source: http://www.webpagesthatsuck.com



Source: http://www.webpagesthatsuck.com

Videos

- Ten must see usability videos
 - http://www.usefulusability.com/10-must-see-usabilityvideos/

References

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- http://www.useit.com/
- http://www.webpagesthatsuck.com/