The design of visual information

Anthony Hornof

October, 2003
February, 2011
October, 2014
Three main points on the design of visual information

- Make sure the information that the user will need is readily available.
- Organize the information so that it is presented in a manner that is easy for the user to access (given fundamental perceptual-cognitive-motor abilities).
- Always keep in mind what is the user’s task, and how it will unfold over time.
Is this a good interface?
The task is to click on the CIS link or search the catalog.
Support the user’s task at the perceptual level. Make necessary visual information visible.
Make necessary information visible.

Make task-relevant text readable.
1214 Amsterdam Avenue, New York, NY 10027-7003
Telephone (212) 939-7000, Fax (212) 666-0140

We are looking for faculty to join our department!

Directions to the Department, Departmental Contacts, University-Wide Links, Computer Science Colloquiums, Central Research Facilities (CRF), CS Newsgroups, FTP Site, Creating Web pages, CA certificate for our secure servers

Programs of Study, Spring 1998 Courses, Courses, Registration and Grades, Teaching Assistant Positions, Information for Doctoral Students Academic Policies

Research Groups, Technical Report Archive, Faculty Research Guide, Research Interests, Related Departments and Research Centers

Faculty, Staff, Ph.D. Students, M.S. Students, Undergraduates, Affiliates, Ph.D. Alumni, Graduating Ph.D. Students, Alumni, Search, List by User ID

Undergraduate, M.S., Professional, Ph.D.
Editing the CIS web pages in DreamWeaver
Compare the two files currently loaded in the editor.
This is my label.
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Proximity
Alignment
Repetition
Contrast

Group related items and give them headings.
Use perceptual groupings.
Use a grid.
Use a grid.

Sony and AOL Join Forces on the Video Game Front
By JOHN MARKOFF
Sony Computer Entertainment and America Online, seeking a strategic alliance against Microsoft, plan to announce a new relationship intended to blend the video-game and online Internet experience.

Review of Revised Internet Names Contract
By SUSAN STELLIN
YeriSign and the Internet Corporation for Assigned Names and Numbers will review an agreement that would change the contract that governs YeriSign’s control over the Internet address system.

Loss of Internet Provider Has Businesses Searching for a Link
By JAYSON BLAIR
Hundreds of New York small business owners still struggle to replace the DSL service they lost when Internet service provider NorthPoint Communications declared bankruptcy last month and shut down its network.

Advanced Micro Unveils New Chip
By CHRIS GAITHER
Advanced Micro Devices introduced a new line of mobile microprocessors in an effort to re-establish a presence in laptop computers.

The Green Revolution Yields to the Bottom Line
By ANDREW FOLLACK
Agricultural research -- once the realm of public institutions like land-grant colleges -- is increasingly being controlled by private companies.

High Bail Is Ordered in Trade-Secret Case
By THE NEW YORK TIMES
A federal magistrate ordered that bail be set at $900,000 each for the three men accused of conspiring to steal trade secrets from Lucent Technologies.

An Audio Spotlight Creates a Personal Wall of Sound
By JENNIFER S. LEE
A 28-year-old graduate student has invented a device that projects a discrete beam of sound in much the same way a spotlight projects a beam of light.
Use a grid system.

Proximity
Alignment
Repetition
Contrast
The Human-Computer Interaction Lab (HCIL) at the University of Maryland has a mission to design, implement, and evaluate new interface technologies that are development of user interfaces and research. Projects include information visualization, digital...

Category: Computers > Human-Computer Interaction

Human-Computer Interaction Resources on the Net

By Mikael Ericsson. This is a collection... Description: a collection of information related to Human-Computer Interaction (HCI) by Mikael Ericsson

Category: Computers > Human-Computer Interaction

HCI Bibliography: Human-Computer Interaction Publications and ... Description: The HCI Bibliography (HCIBIB) is a list of publications and resources on human-computer interaction

Category: Computers > Human-Computer Interaction
Peripherally-salient primary visual features such as color, size, and orientation appear to “pop-out.” Use these features to distinguish the target item.
Find the red target.
Find the horizontal target.
Find the horizontal red.

11 distractors
With more distractors.

21 distractors
Task: find the file entitled “Present. Slides”.
iOS 6 vs iOS 7 icons

http://applenapps.com/feature/ios-7-vs-ios-6-comparing-the-homescreen-stock-app-icons
iOS 6 vs iOS 7. The new icons better emphasize the primary visual features of color, shape, and size, and are thus easier to distinguish in the near periphery. Hold your gaze on the crosshairs and try to describe each icon.

(Figure from Kieras & Hornof, 2014)
Task: Get to the basement parking at the Riverbend Hospital.
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Task: Get to the basement parking at the Riverbend Hospital.

The lesson learned here is to remove “distractors”.
Task: Get to the basement parking at the Riverbend Hospital.
DuckWeb is an interactive web application that provides easy access to information. Be prepared to supply your nine-digit User Id and your Personal Access Code (PAC). If you are a student, this is the same PAC you use to access DuckCall.

For security reasons, DuckWeb requires that your browser be configured to accept cookies. For best performance, it is recommended that you use the 4.x versions (or later) of Netscape or Internet Explorer.

DuckWeb is generally available 24 hours a day. There may be occasional breaks in service when the system is down for routine maintenance, especially most Sunday evenings from 6pm to midnight.

**REMEMBER**, especially if you are using a public terminal, to press the **LOG OFF** button when you are finished. Avoid using the forward/back buttons on your browser unless specifically directed to.

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**Student Related Links**

[UO Home Page] [DuckHunt] [Registrar] [Financial Aid] [Admissions] [Career Center]

Questions or comments about DuckWeb can be directed to: gfreeman@oregon.uoregon.edu
Welcome to DuckWeb!

DuckWeb is unavailable Friday evenings from 7pm to 9pm for routine maintenance.

To Login: Enter your UO ID number (do not enter dashes) and your Personal Access Code (PAC), then click on the Login button.

First-time Users: Use the UO ID and initial PAC provided to you by the University of Oregon. Once you log in, for security reasons, DuckWeb will display that your PAC has expired and you will be prompted to change your PAC and to activate a security question which will help you manage your account. Click on the HELP button above for more information about your initial PAC.

Don't know your Personal Access Code (PAC)? Don't guess! Enter your UO ID number (no dashes) and click the "Forgot PAC?" button. Follow the steps on the next page.

Forgot your Personal Access Code (PAC)? Don't guess! You can reset your own Personal Access Code (PAC). Enter your UO ID number (no dashes) and then click on the "Forgot PAC?" button. Follow the steps on the next page.

UO ID: 

PAC: 

Login  Forgot PAC?

REMEMBER, especially if you are using a public computer, to Log Off by clicking EXIT and then close your browser when you are finished. Avoid using the forward/back buttons on your browser unless specifically directed to do so. For security reasons, DuckWeb requires that your browser be configured to accept cookies.

Comments? registrar@uoregon.edu
User Login

Info: Please enter your UO Id number and your personal access code (PAC) for access to University Of Oregon's DuckWeb Information System. When finished press the Login button.

The first time you login, you will be asked to activate a security question which will help you manage your DuckWeb account. Login now, then follow the three easy steps on the next page.

UO Id: .......... PAC: 

Login  Forgot PAC?
Task: find the right arrows.

(Qdea Synchronize!)
Task: find the right arrows.

(Qdea Synchronize!)
Task: Find the travel forms.
A. Common Errors
Clutter and visual noise, as opposed to reducing a design to its essence.
Using explicit structure as a crutch
Excessive detail and embellishment
Gratuitous dimensionality
Arbitrary component positions and dimensions
Inconsistent visual language
Information Design Problems Persist - OmniFocus v1
Information Design Problems Persist - OmniFocus v2
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Task: Put a textbook on reserve. Fill out all the red blanks.

University of Oregon Library System

Reserve Orders

UO Faculty and GTFs: If the library does not own an item you need for your course reserves one will be ordered for you from the information using the following form. Books will be rush-ordered, but please plan on 60-90 days for delivery.

The Library does not add course textbooks to the Library Collection. If you'd like to place a copy of your course textbook on reserve you may personal copy.

Notes:

- If you are requesting a videocassette or film, please use the Acquisition Request Form for Videos or Films.
- Please contact Leslie Bennett, liebbennet@oregon.uoregon.edu, (541)346-1930 for requests to purchase music or materials for the Dance Room, and Christine Sundt, csundt@oregon.uoregon.edu, (541)346-2209 to obtain slides for use in the image reserve at the Visual Collection.

Order one item per form. Items shown below in red font are required. Items listed in black font will help us process your order more quickly.

Instructor: Anthony Hornof

Office phone: 346-1372

Email address:

Dept/Course: CIS 443/543 User Interfaces

Term/Year: Fall 2001

Course title:

# students: 30

Location for this reserve material: Science Library

Loan Period: 4 Hour

Title: A Guide to usability: human factors in computing

Author/Editor: Jenny Preece

Publisher:

(C & date & location):

If you are ordering from a catalog, please provide the name and date of the catalog. Please include the catalog item number.

Catalog: Item #:

To send your request click the "submit" button below. To make another request after submitting the first, return to this page, click the "clear form" button and use this form to provide information for the next order request.

Submit Clear Form
Thank you

Your email address or comments appear to be blank, and thus were not sent to knires@uoregon.uoregon.edu. Please re-enter your comments. You can return to the form using your browser's BACK command or button (or return to http://libweb.uoregon.edu/acs_svc/reserveorders.html if you want.).
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Order one item per form. Items shown below in red font are required. Items listed in black font will help us process your order more quickly.

Instructor:  
Email address:  
Dept/Course:  
Course title:  
Location for this reserve material: Select from this list of reserve units:  
Loan Period: 2 Hour

Title:  
Author/Editor:  
Publisher:  
Series:  
ISBN/ISSN/Music#:  
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