CSE 440: Introduction to HCI

User Interface Design, Prototyping, and Evaluation

Lecture 14:

Patterns

James Fogarty

Alex Fiannaca

Lauren Milne

Saba Kawas

Kelsey Munsell



Tuesday/Thursday

12:00 to 1:20

Today

Course Progress

Mockups Due Friday

Exam Tuesday

Report, Website, Presentations After Break

Reading 5 Posted

Patterns

Peer Critique of Usability Testing Results



Limitations of Testing

Drives hill-climbing, but not overall design

A design may be better, but is it good?

Impossible for new designs to compete

Can be difficult to scale to many features

How about we step through a larger example















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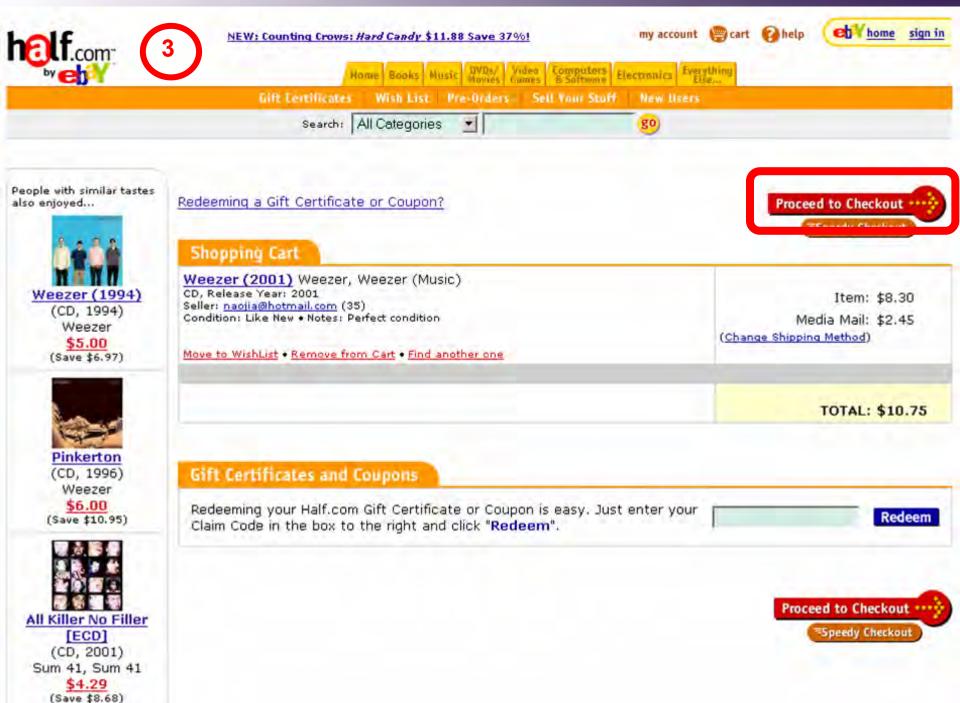
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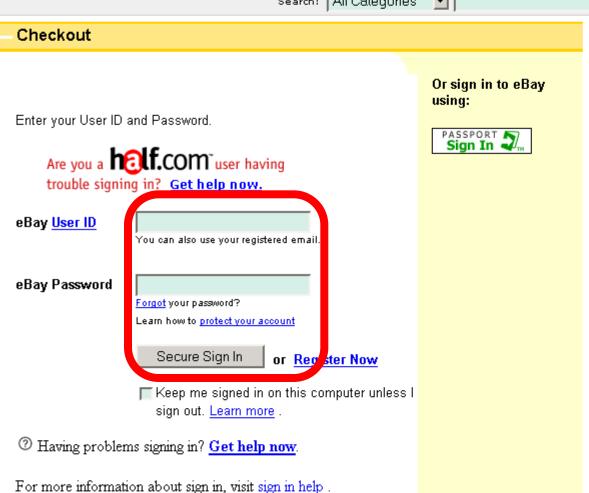




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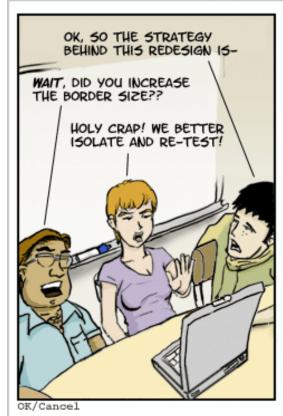
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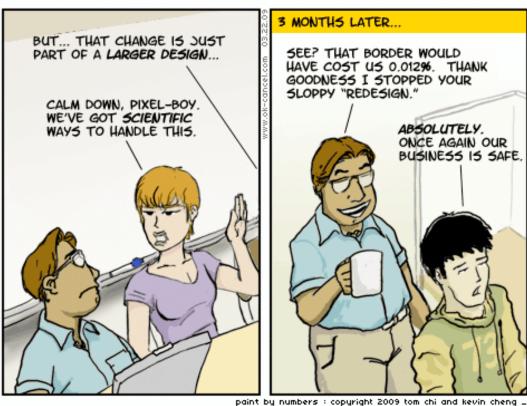
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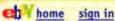


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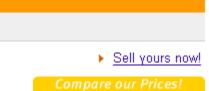
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- 5. Crab
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- 7. Smile
- Simple Pages
- 9. Glorious Days
- 10. O Girlfriend

Album Credits

Ken Allerdyce, Engineer Ric Ocasek, Producer

Impulse buy

- PESONALIZED RECOMMENDATIONS
- About this album
- Lots of unused space
- Still more info below...

Album Notes



Weezer: Rivers Cuomo (vocals, guitar); Brian Bell (guitar); Matt Sharp (bass); Patrick Wilson (drums). Recorded at Cello Studios, Los Angeles, California in December 2000. In 1994 Weezer burst onto the music scene, reaching platinum status with their debut, and in the process proving that there was still room in an airbrushed MTV world for unrepentant power pop played by decidedly non-airbrushed guys. Following a brief sojourn into semi-deconstructionism, 1997's PINKERTON, the four men who make up Weezer serve up a third offering, WEEZER 2001, returning to the sound and producer of their successful debut. Nowhere does producer Ric Ocasek define his trademark refined power pop style more than with Weezer. Unlike the immediate, obvious pop hooks of the string of singles on the first album, though, the songs on WEEZER 2001 may take a few listens to settle in. However, once the subtle-yet-undeniable refrains of such tracks as "Crab," "Don't Let Go," and first single "Hash Pipe" make their way into your skull, they're there to stay, as furious, fuzzy, layered guitars compliment Rivers Cuomo's raw, vulnerable vocals. While this disc clocks in at less than a half-hour long, it packs more hooky wallop than many double live albums.

Product Reviews

Editorial Reviews

Spin (01/01/2002)

Ranked #9 in Spin's Albums of the Year 2 Ranked #13 in AP's 25 Best Albums of 20 beast...Rolling Stone (6/7/01, p.110) - 4 excellent tunes in less than half an hour Rivers Cuomo's shrink another hot tub...C observed power pop of their '94 debut, a

Customer Reviews

Rated 4.3 out of 5.0 by 29 raters.

- » Read Customer Reviews
- » Rate this item

Is this product any good?

- Editorial reviews
- Customer reviews
- RECOMMENDATION COMMUNITY

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sign in

Movies Games & Software Electronics Everything

Pre-Orders

Sell Your Stuff

New Users

Search: All Categories

go

People with similar tastes also enjoyed...



Weezer (1994)

(CD, 1994) Weezer

\$5.00 (Save \$6.97)



Pinkerton (CD, 1996) Weezer

\$6.00 (Save \$10.95)

All Killer No Filler

[ECD] (CD, 2001)

Sum 41, Sum 41

\$4.29 (Save \$8.68) Redeeming a Gift Certificate or Coupon?



Shopping Cart

Weezer (2001) Weezer, Weezer (Music)

CD, Release Year: 2001

Seller: naojia@hotmail.com (35)

Condition: Like New . Notes: Perfect condition

Move to WishList . Remove from Cart . Find another one

Item: \$8.30

Media Mail: \$2.45

(Change Shipping Method)

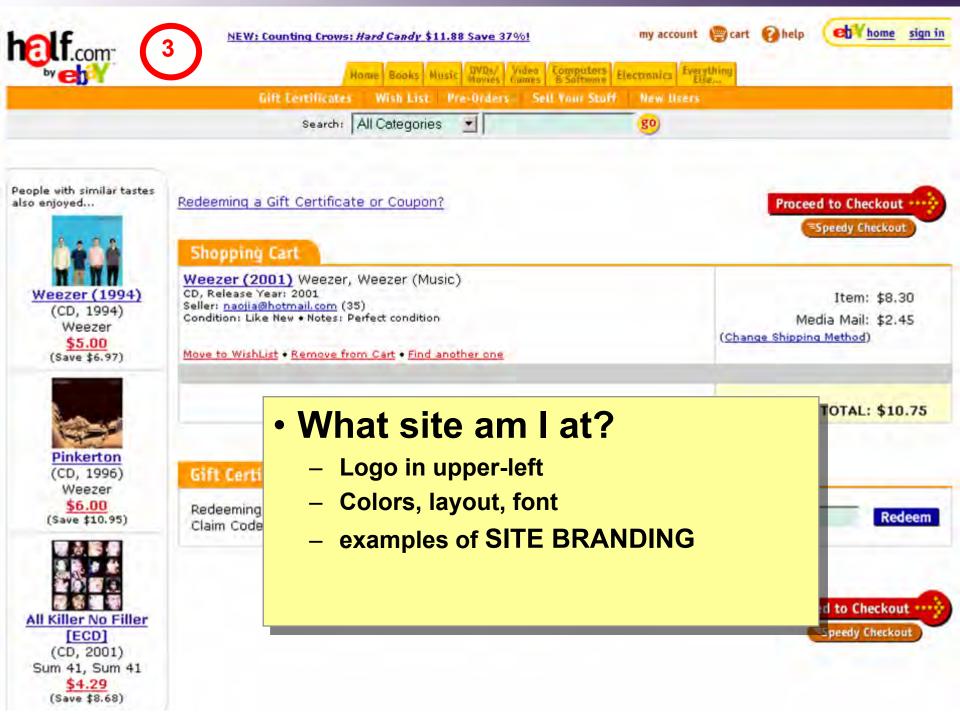
TOTAL: \$10.75

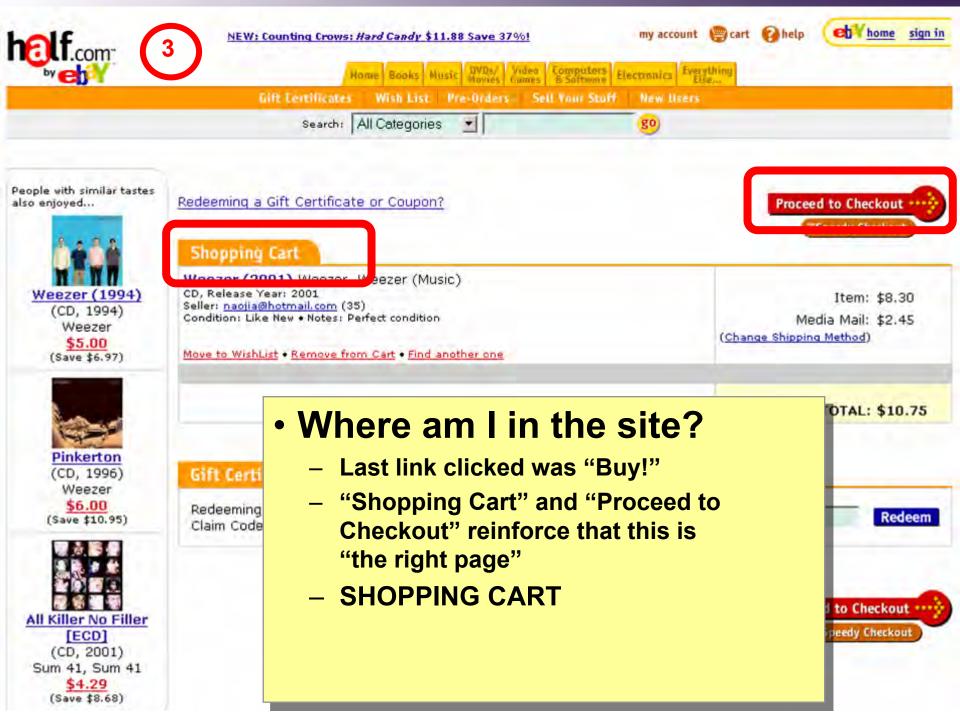
Gift Certificates and Coupons

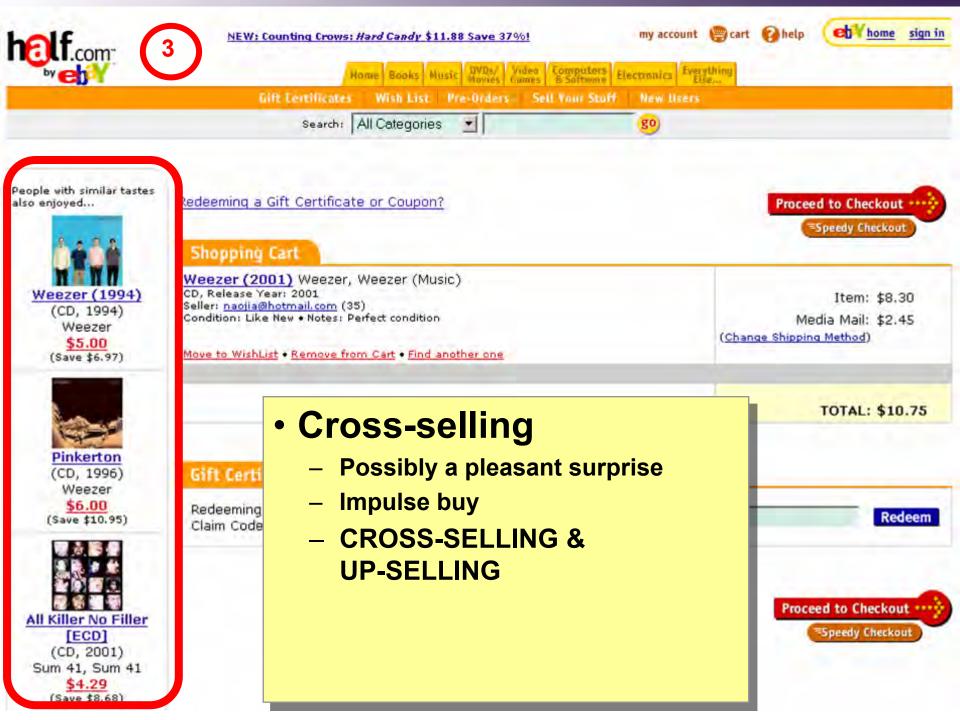
Redeeming your Half.com Gift Certificate or Coupon is easy. Just enter your Claim Code in the box to the right and click "Redeem".

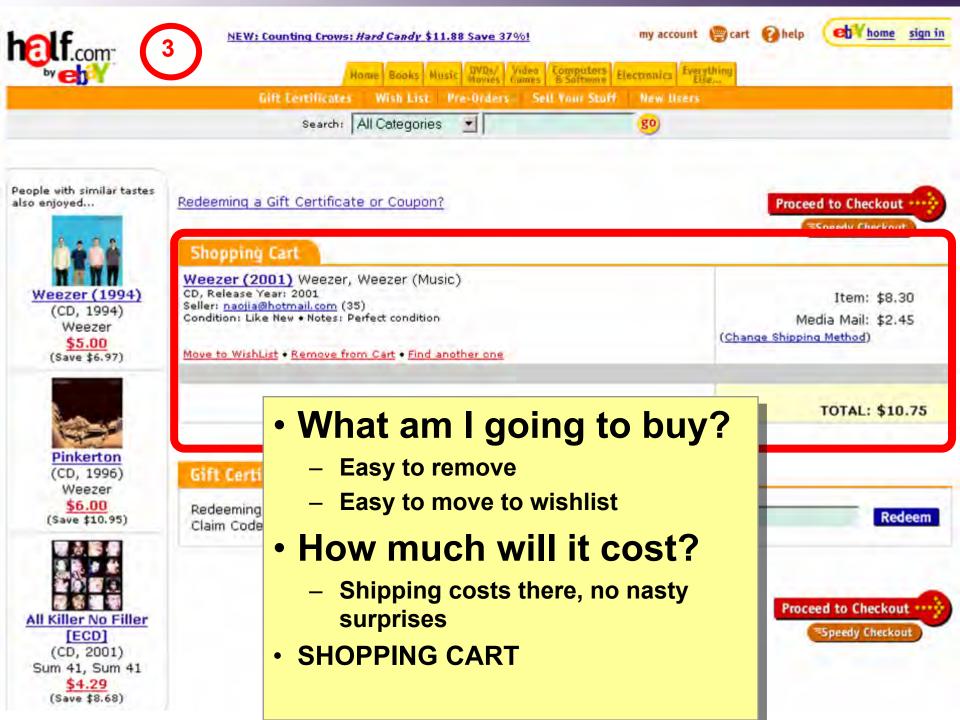
Redeem

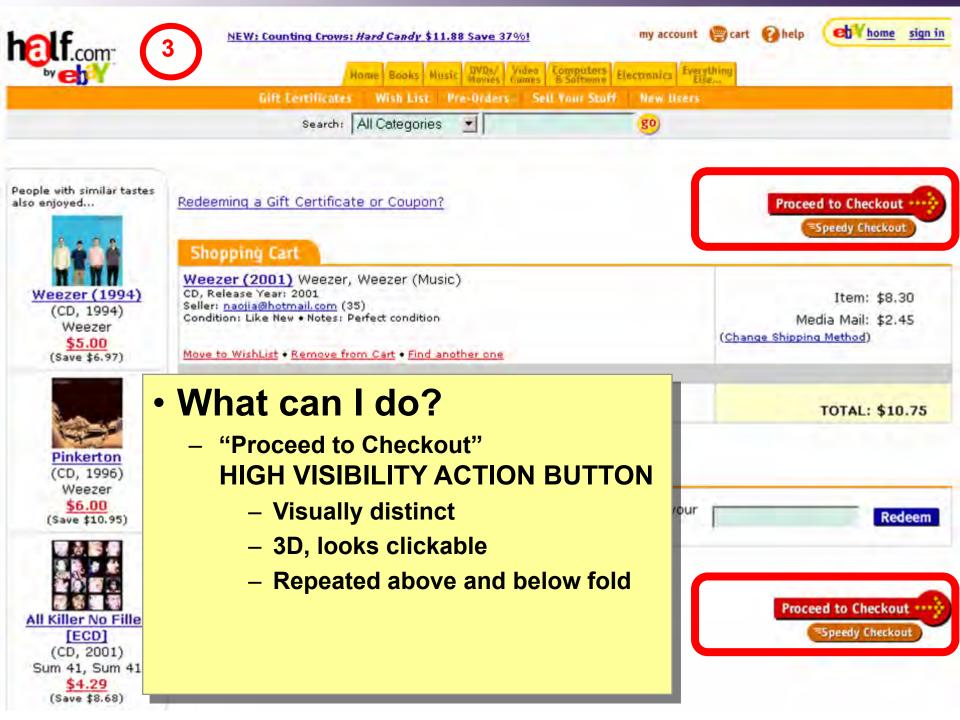






















Computers Electronics Everything Else...

Gift Certificates

Wish List Pre-Orders Sell Your Stuff

New Users

go

Search: All Categories

Checkout

Enter your User ID and Password.

Are you a **half.com** user having trouble signing in? Get help now.

eBay User ID

You can also use your registered email.

eBay Password

Forgot your password?

Learn how to protect your account

Secure Sign In

or Register Now

Keep me signed in on this computer unless I sign out. Learn more .

② Having problems signing in? Get help now.

For more information about sign in, visit sign in help.

Or sign in to eBay using:

Sign In







M help



Home Books Music DVDs/ Video Computers & Software Electronics Exercising Gift Certificates Wish List Pre-Orders Sell Your Stuff **New Users**

Search: All Categories

go

Checkout

Enter your User ID and Password.

Are you a **half.com** user having trouble signing in? Get help now.

eBay User ID

You can also use your registered email.

eBay Password

Forgot your password? Learn now to protect your account

Secure Sign In

Register Now

Keep me signed in on this computer unless I sign out. Learn more .

② Having problems signing in Get help now.

For more information about sign in, visit sign in help.

Or sign in to eBay using:



- What if I don't have a User ID?
- What if I forgot my password?
- SIGN-IN/NEW ACCOUNT options



Checkout

4 Shipping



Step 1 - Choose Shipping Address

Ship my order to:

Jason Hong 387 Soda Hall Computer Science UC Berkeley Berkeley, CA 94720

OR

Enter a new shipping address:

Name		
Street addres	5	
City		
	If U.S. Military, enter APO/FPO for City,	
State	Select State •	
	If U.S. Military, select AE, AP or AA from bottom of list for State.	
ZIP code		
Country	USA	
	Save Changes	





1 Shipping 2 3

Step 1 - Choose Shipping Address

Ship my order to:

Jason Hong 387 Soda Hall Computer Science UC Berkeley Berkeley, CA 94720

OR

Enter a new shipping address:

Name	
Street addres	is
City	
	If U.S. Military, enter APO/FPO for City,
State	Select State
	If U.S. Military, select AE, AP or AA from bottom of
ZIP code	
Country	USA
	Save Changes

What site?

Logo, layout, color, fonts

Where in site?

- Checkout, step 1 of 3
- "Choose shipping address"
- QUICK-FLOW CHECKOUT



Step 1 - Choose Shipping Address

Ship my order to:

half.com

Jason Hong **Use This Address** 387 Soda Hall Computer Science UC Berkeley Berkeley, CA 94720 OR

Enter a new shipping address:

Name	
Street address	
City	
	If U.S. Military, enter APO/FPO for City,
State	Select State
	If U.S. Military, select AE, AP or AA from botton
ZIP code	
Country	USA

Note what's different

- No tab rows
- No impulse buys
- Only navigation on page takes you to next step

• This is a process funnel

 Extraneous info and links removed to focus customers





2 militarina — C

3 Place Order





Order Summary

Weezer (2001) Weezer, Weezer (Music)
Seller: naojia@hotmail.com (35)
Condition: Like New • Notes: Perfect condition

Item: \$8.30

Media Mail: \$2,45

Subtotal: \$10.75

Total Merchandise: \$8,30 Total Shipping: \$2,45

TOTAL: \$10.75

Snip to

Jason Hong

387 Soda Hall Computer Science UC Berkeley Berkeley, CA 94720

Edit / Change Shipping Address

Bill to

MasterCard ending with 0155

Expires 11/2003 Zipcode: 94709

Edit / Change Billing

Use this shipping and billing information as my Speedy Checkout settings.







Checkeut

1 - Hippin - 2 - 3 Place Order

Seison

Seison



Order Summary

Weezer (2001) Weezer, Weezer (Music)
Seller: naojia@hotmail.com (35)
Condition: Like New • Notes: Perfect condition

Snip to

Jason Hong 387 Soda Hal

387 Soda Hall Computer Science UC Berkeley Berkeley, CA 94720

Edit / Change Shipping Address

- Last step of process
 - Step 3, "Place Order"
 - "Place my order" button
- Two High-visibility Action Buttons for fold

Use this shipping and Place my order!





Checkent

Relace Order



No nasty surprises

- Can see order
- Total price is same as shopping cart
- ORDER SUMMARY

Media Mail: \$2,45 Subtotal: \$10.75

Item: \$8.30

Total Merchandise: \$8,30 Total Shipping: \$2,45

TOTAL: \$10.75

Simp to

Jason Hong

387 Soda Hall Computer Science UC Berkeley Berkeley, CA 94720

Edit / Change Shipping Address

MasterCard ending with 0155

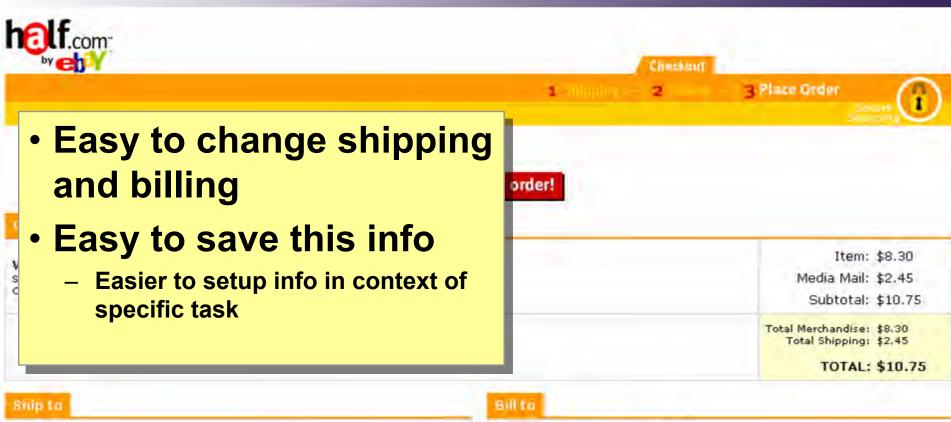
Expires 11/2003 Zipcode: 94709

order!

Edit / Change Billing

Use this shipping and billing information as my Speedy Checkout settings.







Use this shipping and billing information as my Speedy Checkout settings.



Design equals Solutions

Design is about finding solutions

Designers often reinvent

Hard to know how things were done before

Why things were done a certain way

How to reuse solutions



Design Patterns

Design patterns communicate common design problems and solutions

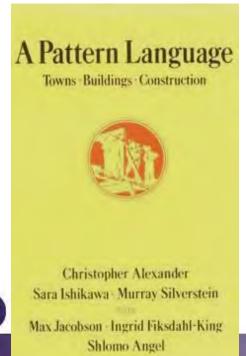


Design Patterns

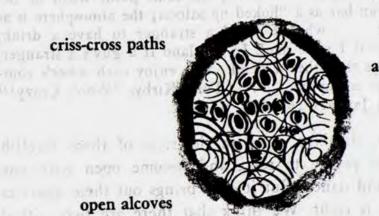
Design patterns communicate common design problems and solutions

First used in architecture [Alexander]

How to create a beer hall where people socialize?



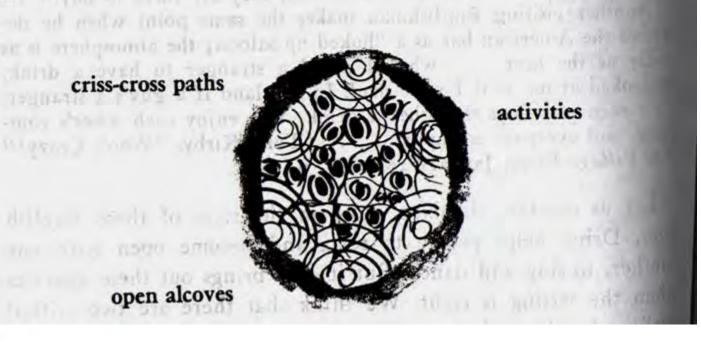
University of Washington Somewhere in the community at least one big place where a few hundred people can gather, with beer and wine, music, and perhaps a half-dozen activities, so that people are continuously criss-crossing from one to another.



activities

Design Patterns

Somewhere in the community at least one big place where a few hundred people can gather, with beer and wine, music, and perhaps a half-dozen activities, so that people are continuously criss-crossing from one to another.





Using Design Patterns

Not too general and not too specific

use a solution "a million times over, without ever doing it the same way twice"

Design patterns are a shared language

for "building and planning towns, neighborhoods, houses, gardens, and rooms"

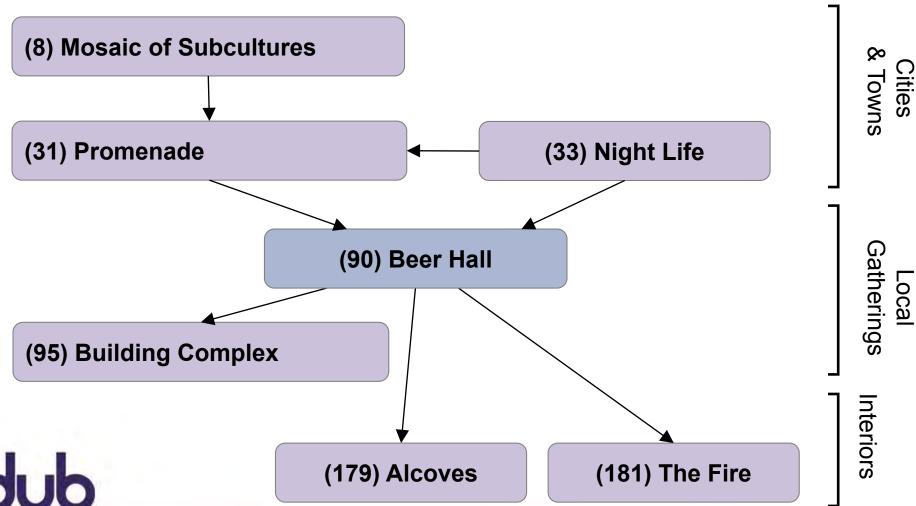
Beer hall is part of a center for public life

Beer hall needs spaces for groups to be alone ALCOVES



A Web of Design Patterns





University of Washington

Web Design Patterns

Communicate design problems & solutions

how to create navigation bars for finding relevant content

how to create a shopping cart that suports check out

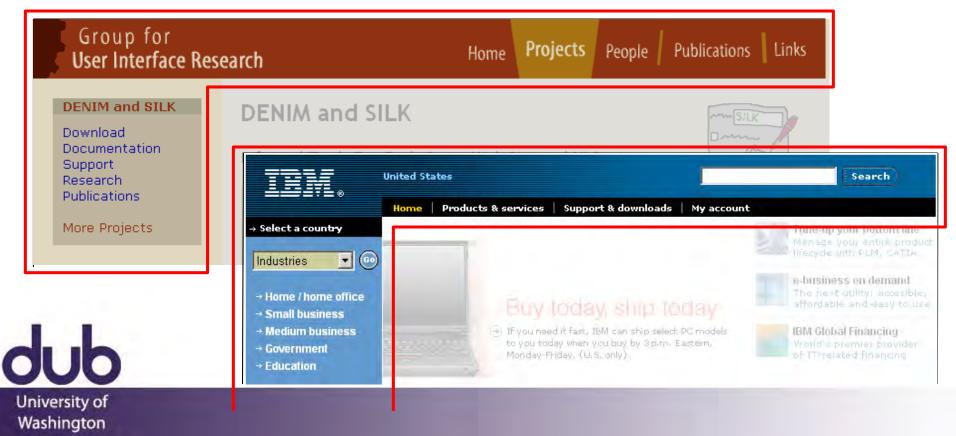
how to make e-commerce sites where people return & buy





NAVIGATION BAR (K2)

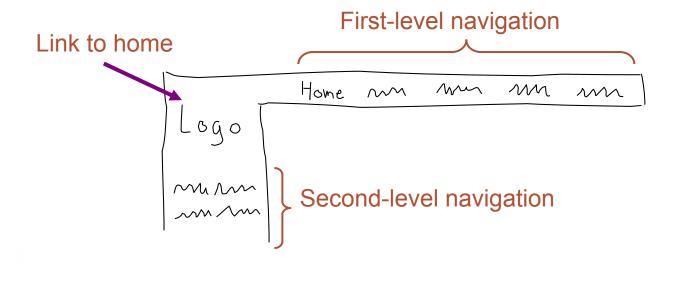
Problem: Customers need a structured, organized way of finding the most important parts of your Web site



NAVIGATION BAR (K2)

Solution diagram

Captures essence on how to solve problem





Pattern Groups

Patterns organized by group

- A Site genres
- Navigational framework
- Home page
- Content management
- Trust and credibility
- Basic ecommerce

- Advanced ecommerce
- Completing tasks
- Page layouts
- Search
- Page-level navigation
- Speed
- The mobile web



Washington

PROCESS FUNNEL (H1)

Problem:

Need a way to help people complete highly specific stepwise tasks

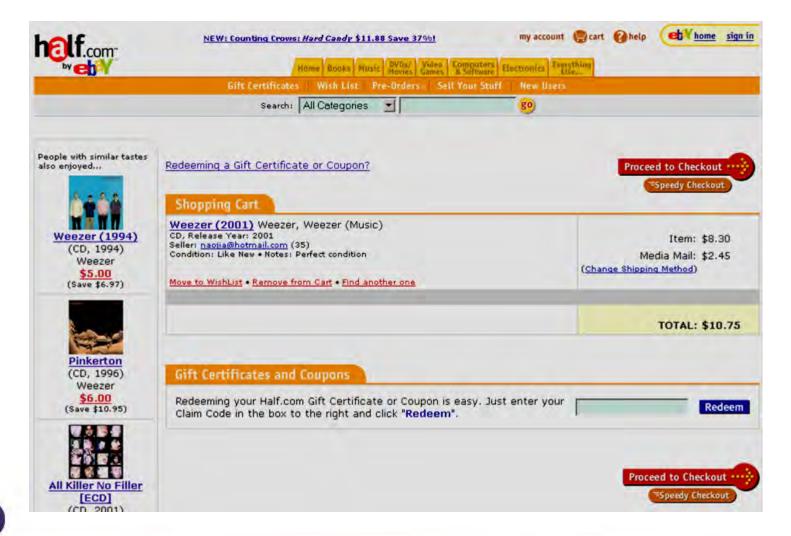
Ex. Create a new account

Ex. Fill out survey forms

Ex. Check out



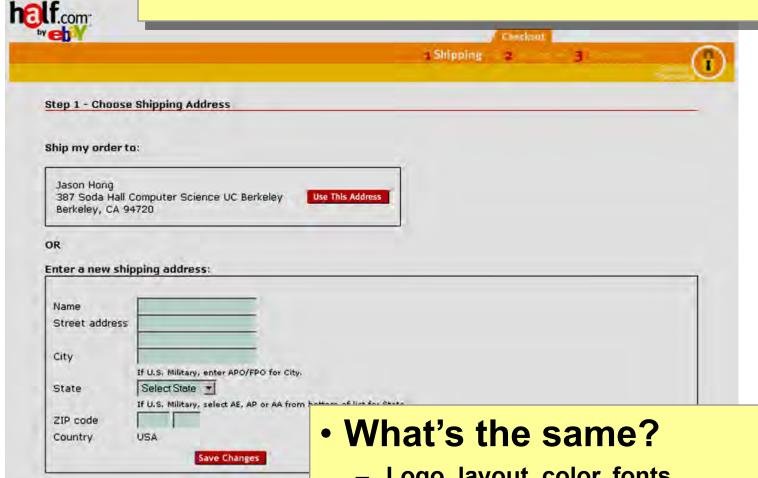
PROCESS FUNNEL (H1)





PROCESS

- What's different?
 - No tab rows
 - No impulse buys
 - Only navigation on page takes you to next step





Logo, layout, color, fonts

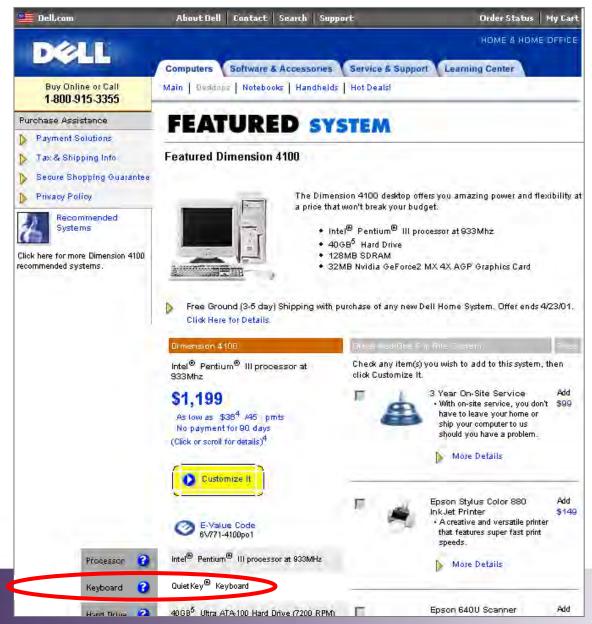
PROCESS FUNNEL (H1)

Problem:

What if users need extra help?

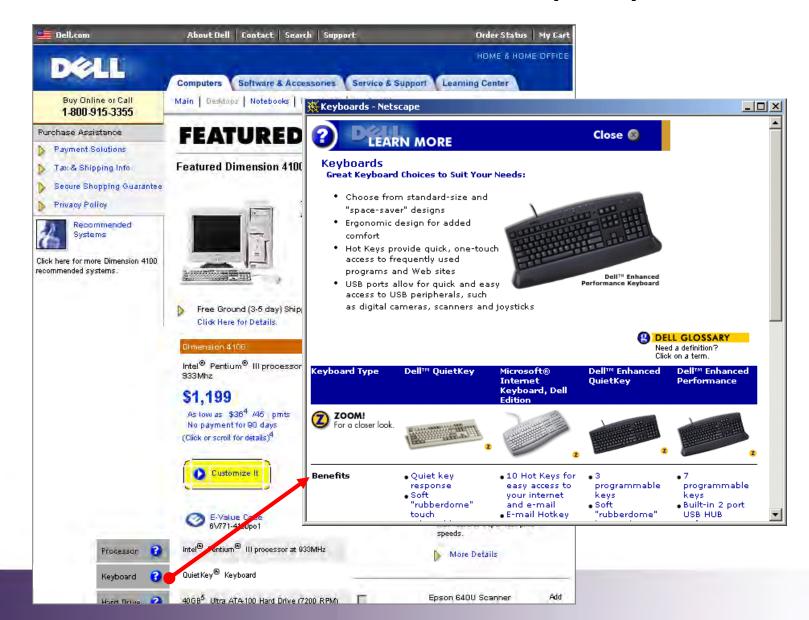


PROCESS FUNNEL (H1)





CONTEXT-SENSITIVE HELP (H8)



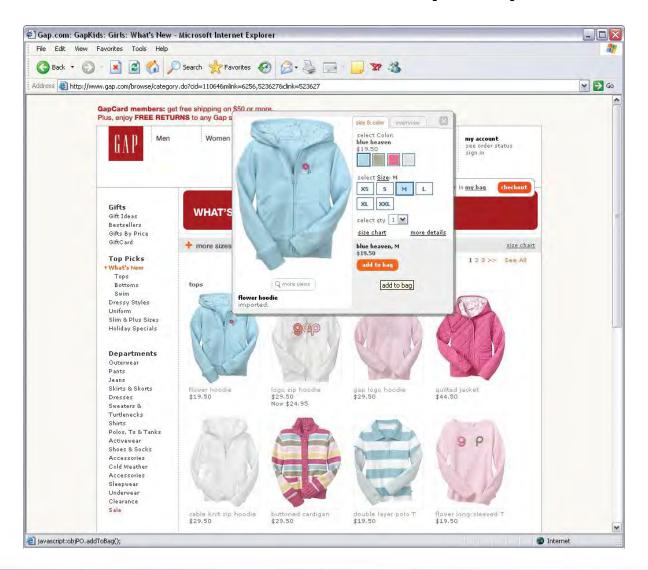


FLOATING WINDOWS (H6)





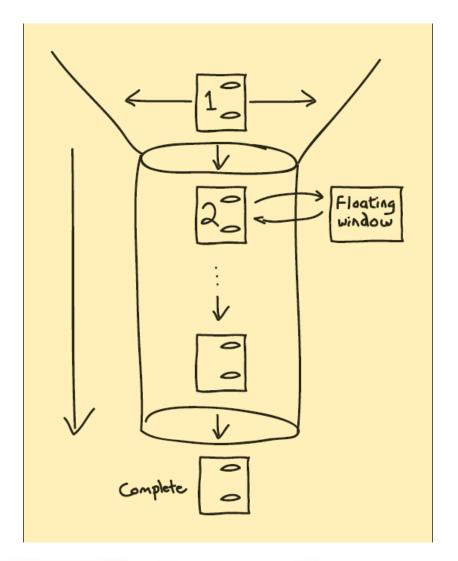
FLOATING WINDOWS (H6)





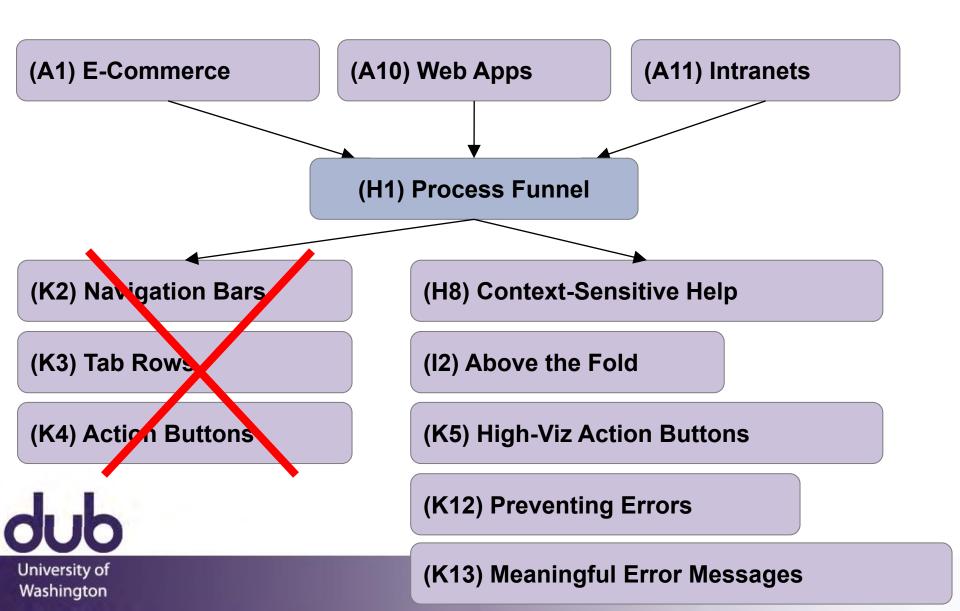
PROCESS FUNNEL (H1)

Solution Diagram





Related Patterns



Patterns Support Creativity

Patterns come from successful examples

sites that are so successful that lots of people are familiar with their paradigms

interaction techniques/metaphors that work well across many sites (e.g., shopping carts)

Not too general and not too specific

you need to specialize to your needs

Patterns let you focus on the hard, unique problems of your design situation



Principles, Guidelines, Templates

Patterns help design without over-constraining

unlike principles, patterns are not too general

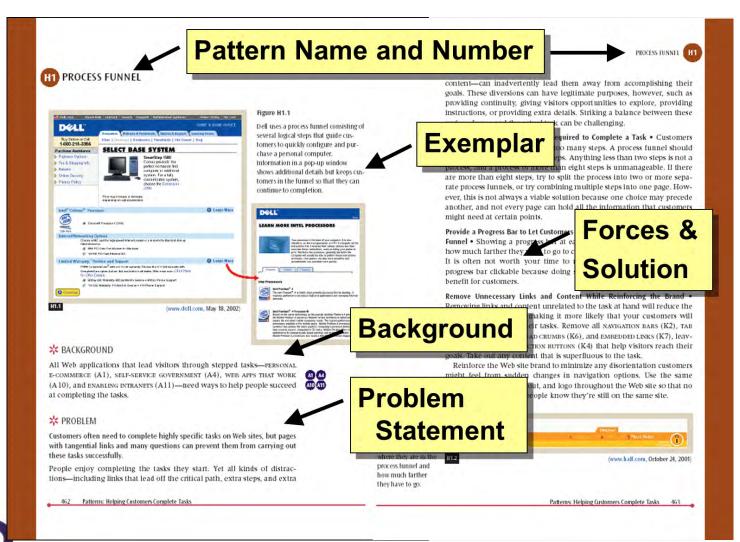
unlike guidelines, patterns discuss tradeoffs, show good examples, and tie to other patterns

unlike style guides, patterns not too specific, can be specialized to a design

unlike templates, patterns illustrate flows and relationships among different pages



Web Design Patterns





Web Design Patterns



PROCESS FUNNEL | H1 **Bus Stops** Solution Figure H1.3 Diagram A process funnel lets people complete their goals by breaking down complicated tasks into a small number of steps, using pop-up windows for detailed Related information, and reducing the number of links to only the critical ones, so that **Patterns** people are never distracted. X CONSIDER THESE OTHER PATTERNS Many kinds of Web sites use process lunnels, including sites for PERSONAL E-COMMERCE (A1), SELF-SERVICE GOVERNMENT (A4), WEB APPS THAT WORK (A10), and enabling intranets (A11). Customers use process funnels when they finalize purchases through QUICK-FLOW CHECKOUT (F1), when they create new accounts through sign-in/new account (H2), and when they post new messages to a RECOMMENDATION COMMUNITY (G4), to name Remove NAVIGATION BARS (K2), TAB ROWS (K3), irrelevant action But-TONS (K4), LOCATION BREAD CRUMBS (K6), and EMBEDDED LINKS (K7) to ensure that customers stay on their paths. However, keep strong srre BRANDING (E1) so that customers still know where they are. Design process funnels to prevent errors (K12), and provide MEANING-FUL ERROR MESSAGES (K13) when errors do occur. Track your customers through persistent customer sessions (H5) to avoid problems with the Back button, and to save customer-entered Move extra content, such as CONTEXT-SENSITIVE HELP (H8) and PREQUENTLY ASKED QUESTIONS (H7), to POP-UP WINDOWS (H6) to keep the main task page on the screen. Make the next action visible by keeping it above the FOLD (12) and by using HIGH-VISIBILITY ACTION BUTTONS (K5). Patterns: Helping Customers Complete Tasks 465

464 Patterns: Helping Customers Complete Tasks

Pre-Patterns

Patterns require broad adoption and examples

Many version of the same basic idea

Shown successful in many contexts

That is what makes them patterns

This is challenging in novel domains

Pre-patterns are based in weaker evidence

Can help speed diffusion of techniques and results

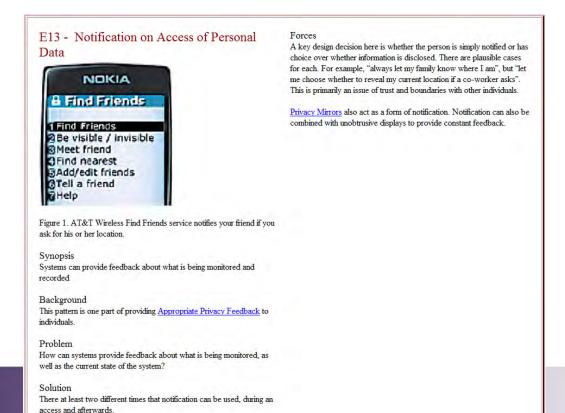
Can help see relationships among ideas



UbiComp Pre-Patterns

Literature review

Button-up card sorting of lessons from literature Cut down based on critique by other researchers





UbiComp Pre-Patterns

B6 • FIND A FRIEND



Figure 1. AT&T Wireless' mMode service allows customers to add friends to a friend list, find out who is nearby, and call or send messages to them. Users can make themselves invisible whenever they want.

BACKGROUND

This pattern discusses services that allow people to find where their friends are while allowing those friends some level of privacy. This pattern is useful for GUIDES FOR EXPLORATION AND NAVIGATION (A5).

PROBLEM

People would like to know where their friends are, for impromptu communication and gatherings. At the same time, those people may not always want to be tracked.

Displaying people's location • There are several different ways of displaying a person's location. A straightforward approach is to simply show the location in text, for example "near corner of Euclid Ave and Hearst Ave" or "in Soda Hall". Another approach is to show the data on a map, or possibly even an ACTIVE MAP (B1) that is constantly updated.



Figure 2. UC San Diego's ActiveCampus project shows your friends' location in real time. While useful, this visualization raises many privacy concerns.

Managing privacy concerns • There are many privacy concerns about find-a-friend applications due to the potential for abuse. This is not just the fear of "Big Brother," but also so-



UbiComp Pre-Patterns

A – Ubiquitous Computing Genres	B – Physical-Virtual Spaces	C – Developing Successful Privacy	D – Designing Fluid Interactions
Describes broad classes of emerging applications, providing many examples and ideas	Associating physical objects and spaces with information and meaning; location-based services; helping users navigate such spaces	Policy, systems, and interaction issues in designing privacysensitive systems	How to design for interactions involving dozens or even hundreds of sensors and devices while making users feel like they are in control
Upfront Value Proposition (A1) Personal Ubiquitous Computing (A2) Ubiquitous Computing for Groups (A3) Ubiquitous Computing for Places (A4) Guides for Exploration and Navigation (A5) Enhanced Emergency Response (A6) Personal Memory Aids (A7) Smart Homes (A8) Enhanced Educational Experiences (A9) Augmented Reality Games (A10) Streamlining Business Operations (A11) Enabling Mobile Commerce (A12)	Active Map (B1) Topical Information (B2) Successful Experience Capture (B3) User-Created Content (B4) Find a Place (B5) Find a Friend (B6) Notifier (B7)	Fair Information Practices (C1) Respecting Social Organizations (C2) Building Trust and Credibility (C3) Reasonable Level of Control (C4) Appropriate Privacy Feedback (C5) Privacy-Sensitive Architectures (C6) Partial Identification (C7) Physical Privacy Zones (C8) Blurred Personal Data (C9) Limited Access to Personal Data (C10) Invisible Mode (C11) Limited Data Retention (C12) Notification on Access of Personal Data (C13) Privacy Mirrors (C14) Keeping Personal Data on Personal Devices (C15)	Scale of Interaction (D1) Sensemaking of Services and Devices (D2) Streamlining Repetitive Tasks (D3) Keeping Users in Control (D4) Serendipity in Exploration (D5) Context-Sensitive I/O (D6) Active Teaching (D7) Resolving Ambiguity (D8) Ambient Displays (D9) Follow-me Displays (D10) Pick and Drop (D11)



Patterns

When you see advice, consider its depth

Result of an individual study

Pre-pattern based on some meta-analysis

Established pattern

Be aware of misapplying patterns

And be aware of anti-patterns

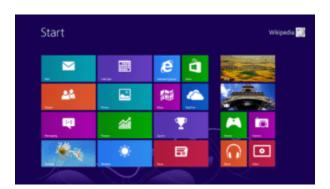


Touch and Microsoft Windows











2012



Consistency vs. Specialization

Beware of simply copying a design language

Consistency is your friend until is it not your friend

Not limited to platform-level decisions

One "look" for your app

Or targeted at each device



Dark Patterns

A Dark Pattern is an interface that has been carefully crafted to trick people into doing things, such as buying insurance with their purchase or signing up for recurring bills.

Disguised Ads

Ads that are disguised as other kinds of content or navigation, in order to get users to click on them



Dark Patterns

A Dark Pattern is an interface that has been carefully crafted to trick people into doing things, such as buying insurance with their purchase or signing up for recurring bills.

Friend Spam

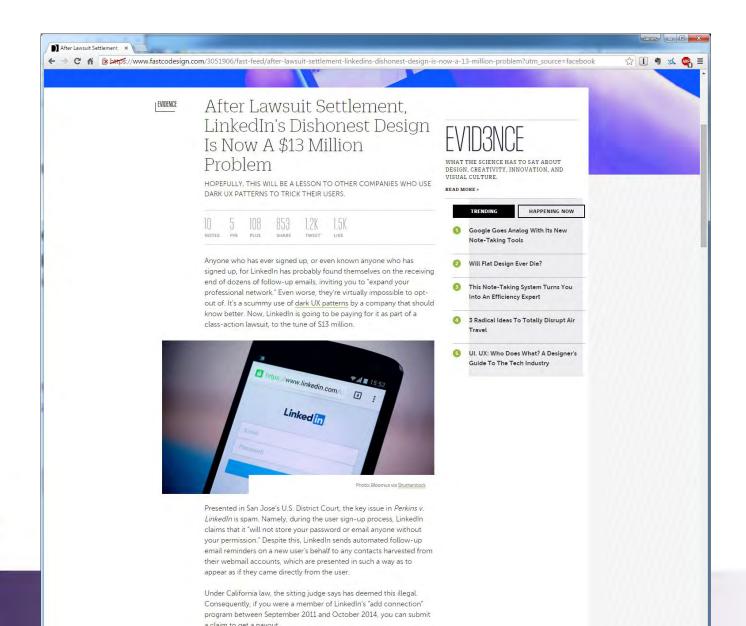
A site or game asks for your credentials, then goes on to publish content or send out bulk messages



Dark Patterns

University of

Washington



CSE 440: Introduction to HCI

User Interface Design, Prototyping, and Evaluation

Lecture 14:

Patterns

James Fogarty

Alex Fiannaca

Lauren Milne

Saba Kawas

Kelsey Munsell



Tuesday/Thursday

12:00 to 1:20