

College of Information Studies

University of Maryland Hornbake Library Building College Park, MD 20742-4345

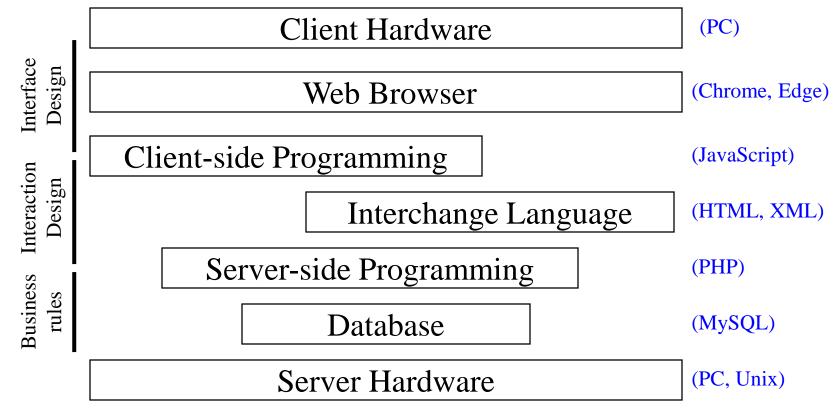
Information Architecture

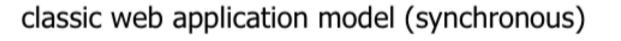
Session 33 INST 346 Technologies, Infrastructure and Architecture

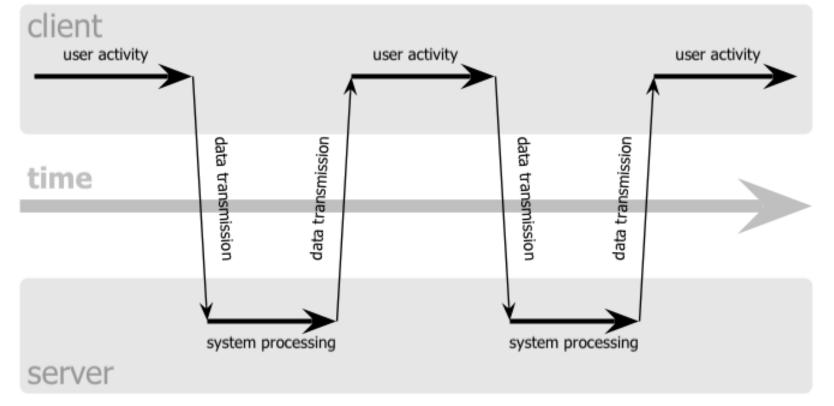
Content Management Systems

- Database to store content
 - Also stores access control data and parameters
- PHP to control user experience
 - Reads database, generates HTML
 - "Canned" settings provide standard behaviors
- HTML to convey user experience

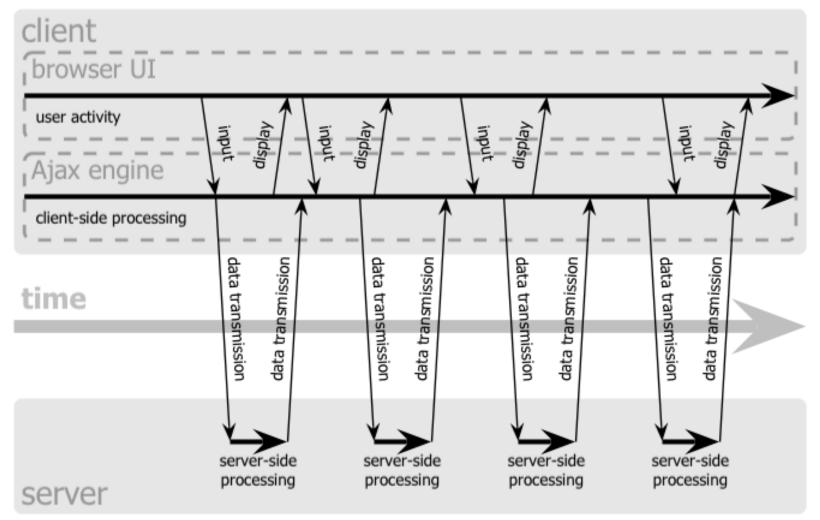








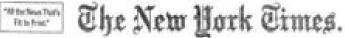
Ajax web application model (asynchronous)



Information Architecture

• The structural design of an "information space" to facilitate access to content

- Two components:
 - Static design
 - Interaction design



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The New York Times Late Edition "All the News That's Fit to Print"

VOL. CLXII . . No. 56.024 NEW YORK, TUESDAY, JANUARY 22, 2013

OBAMA OFFERS LIBERAL VISION: 'WE MUST ACT'

Speech Gives **Climate Goals** Center Stage

By RICHARD W. STEVENSON and JOHN M. BRODER WASHINGTON - Presiden ama made addres sing clinis Obana made addressing clinate change the inset promisent pol-icy vow of his second Inangural Address, sotting in motion what Democratis say will be a deliber atch pueed bat aggressive cam-pings built around the use of his executive powers to sidesep Congressional opposition. "We will respond to the threat of clinate theme, howing the limate change, knowle are to do so would betr varie the en and future generations biens said on Monday

adgment of science, but nor an avoid the devastating impaof raging fires, and crippling insight, and more powerful dorms." The central place he gave to

the subject seemed to answer the question of whether he consid-ered it a realistic second-term priority. He devoted scant atten-tion to it in the campaign and has delivered a privat-assist ance since the election Mr. Oluma is heading into the fort having extensively studied he lessons from his first term, when he failed to win passage of constribution for serial atom to re-such a fight and initial Jouss on what is can do administratively to reduce emissions from power parts, increases the efficiency of home appliances and have the federal government inself produce him carbon polation. Mr. Obsensively and the study in his warning is a case study in his warning is a case study in his evolving sense of the hindu of his next to work around investo con-servation sensition rather than

ative opposition rather than compromise. After coming ffice four years ago on a dedge to heal the planet and the suck the rise of the seas, he is

Even if It Enrages Your Boss,

Social Net Speech Is Protected

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INTERNATIONAL Coup la Said to Fail in Eritrea ent troops quelled a rebeilton inous soldiers stormed the In CISENESS DAY BLG

Rethinking a Tax Edge INTERNATIONAL A4-10 The private equity industry hopes to hold down higher federal taxes. PAGE BI French Airstrikes Successful

rench and Malun troops pushed Is-NEW YORK A23-23, 26 sens in central Mail that they had hele Storm's Punch, 3 Months Later or a week. Above, the town of Diabaly the barries were stored with

Algeria Defends Tough Response to Hostage Crisis as Toll Rises By ADAM NOSSITER and ERIC SCHMPTT

A Diverse Crowd Celebrates

mutachi performeri front Traus to soversi d'degant Alricus American women, the faces of finauguration Day were the faces of finase once left behind, by SHERYL GAY STOLBERG, PAGE AU

A Moment in History

From the musiciant who re-

NATIONAL A16-18 Cardinal Tied to Cover-Up The ex-archlishop of Los Angele other officials worked to keep exis

SPORTSTUESDAY 82.12

Training on Religious Liberty Stantined Lane School has opened the m ion's only clinic devoted to a cuted on religious freedom. PACE AM

To Our Readers The Times is rolling out redesigno-tions this week, beginning today w New Orleans may not welcome Roger

David Brooks ending with A



Super Bowl Cold Shoulder

once Times, which has an array of

A First Lade Unafraid

To Look Like a Million Buck

Eaching is no longer the inchid-feet aid

Obama in the way that similar pursuits haunted Nancy Reagan, or even Jacque-line Kennedy. BY ERIC WILSON, PACE AD



"Algerians are not people why

Continued on Page A8 ARTS CI-8

Of Adultery and Apartheid "The Suit," a fahletike play set in Sout Unica in the part, opens in Brooklyn, weiew by Den Brandey. PAG

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Inaugural Stresses Theme

of Civil and Gay Rights

- Safety Net Praised

By PETER BAKER WASHINGTON - Barack Hussein Ohama eer mially opened his second term on Monday wit poertive Inaugural Address that offered a robus

ing that "preserving our individual freedoms uti-

ting that "proceeving our individual recolours to matchy requires collective action." On a day that echoed with refrains from the i i rights era and of them to the Kee. Dr. Martis ther King Jr., Mr. Ohama dispensed with the ge partisan appeared to Joury area ago to lay out a for hd tusion of advancing gay rights, showing more exance toward linguil mengingmats, preserving social welfare safety net and acting to step clim change.

At times he used his speech, differend West Front of the Capital, to reprise argument the fall campaign, reburning the notion expre-censervative apponents that America rinks ing "a native of takers" and extending the proactive government in society. Instead of mg the end of "perty garvaneses," as he did the outh as the 44th president in 2009, he ch

Republicans to step back from their staanch op tion to his agenda.

representation of the "Progress does not ecomple in the notice of the rese of debates about the nole of government for all time — but it does require us to all our time; but said in the lA-minute address. "For now decisions are opon us, and wo cannot afford debag. We cannot missake absolutions for principle or substitute spec-tacle for policies or trust name-cantiling as reasoned debate. We must are: but the same are but the interodem. Bible, as but the operation of the same has the la-minute addred the inter-

be did forr years ago, but this time added by. King' be did forr years ago, but this time added by. King' Bible as well to mark the holiday honoring the civil rights leader. Ite became the first president ever to metricon the word "gay" in an Imaginaria Address as he equated the drive for same-sex marriage to the

Be defined in the strey set senses. The set of the set

ago. If the day felt rentrained compared with the his toric mood the last time, it reflected a more re strained moment in the lde of the country. Th

strained remement in the life of the country. The hopes and expressions that loomed a large with Mc. Obsami's taking the offices is 2000 even and ble country is the second parent alternative yellow and reflective. When the re-entered the Capitol at the conclusion of the core parent alternative yellow and reflective. When the re-entered the Capitol at the conclusion of the core monty he stopped that contrains the second second the "Town growth and with the second second second second the town be also been ble autom."

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Continued on Page A12

M times he used his speech, delivered from t

Country Soul in Brooklyn Soil The Lone Bollow, a Brooklyn hand with a rock edge and Southe leasing its first album.

PACE AD

EDITORIAL OP.ED A24-25



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VOL. CLXII . . No. 56.024 NEW YORK, TUESDAY, JANUARY 22, 2013

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future generation said on Monday whiter, more than he devoted to withject, more than he devired to any other specific area. "Some may still deny the overwhelming judgment of science, but none can avoid the devastating impact of raging fires, and emploing disought, and more powerful science."

torms." The central place he gave stion of whether he considpestion of whether h red it a realistic ser rity. He devoted scant atten Lion to it in the campaign and has delivered a mixed memage about its importance since the election. Mr. Ohama in heading into the effort having corensively studied the lossess from his first terrat, when he failed to win passage of comprehensive legislation to r-duce entissions of the gates that cases global warming. This time, the White House short to avoid tance potent warring, this tank, the White House plans to avoid such a fight and instead locus on what it can do admitistratively to reduce emissions from power plants, increase the efficiency of ances and have the government itself s carbon pollution.

Mr. Oberna's path on global Mr. Observa's path on global warming is a case study in his cooking some of the limits of his power and his increased willing-ness to work around incease con-servative upposition rather than seek compromise. After coming office four years ago on edge to-heal the planet and tur back the rise of the seas, he is back the rise of the seas, he is proceeding cautiously this time, Democratis said, intent on mak-ing stare his appenable is vehed politically, economically and tochnoiogacally to an not to risk missing what many emicoremen-al advoctores say coold he the last best chance for years to ad-

spirit of a lavorite phrase: the Rev. Dr. ess the problem Martin Lather King M's call to herd The conterpiece will be action "the flores urgency of now." This was a man cogitzant of his time left in office BY RICHARD W. STEVENSON, PAGE AR Continued on Pope All

To Leave His Mark

Observe wells

He did not say the words, but P

Even if It Enrages Your Boss, Social Net Speech Is Protected

b) THTNP-INCENTION TO BE TO By STEVEN GREENHOUSE broader debate over what constitutes appropriate discussion on Facebook and other social net-works. Schools and aniversifies have a right to dis riditions freely and y

work conditions freely and with-out fear of retribution, whether Continued on Page A3



Rethinking a Tax Edge INTERNATIONAL A4-10

The private equity industry hopes to hold down higher federal taxes. PAGE II French Airstrikes Successfu owns in central Mail that they h for a week. Above, the town of Di

NEW YORK A29-23, 26 Storm's Punch, 3 Months Later

desert. A loast some of the assistance was accepted, they said, but there were still guestions about whether Algeria had taken all available steps to avert such a bloody outcome.

NATIONAL ANALIS.

Cardinal Tied to Cover-Up

The ex-archhistop of Los Angeles and other officials worked to keep evidence

Training on Religious Liberty

Stattlind Law School has opened the na tion's only clinic devoted to causes In-

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SPORTSTUESDAY 87-12

Super Bowl Cold Shoulder

records filed in a lawnuit show. PAGE AM

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experts said they

To Our Readers

would have taken a more cau-tious approach, using detailed surveillance to gain an informa-

WASHINGTON - Baraki Husein Ohama cer-ensmally opened his second term on Monday such an assertive Insugural Address that offered a robust atticulation of modern bloradism in America, argu-ing that "preserving our infinithal freedoms till-methol semismidentic semiser" ing this providing too institution incomes too On aday that echode with refaints from the civ-el eights era and tributes to the Rec. Dr. Martin Law fore King *I*, *N*. Ohanna dispessed with the pest-partisen appeals of Jour years ago to lay out a force-throuse discharging any rights, showing more thi-erance toward. Illegial intrangatate, preserving the occide wither study yest and acting to step elimate occide wither study yest and acting to step elimate

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By PETER BAKER

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The New York Times

Vatican Tackles Logistics of Pope's Exit 8:44 AM ET Pope Was Fitted With Heart Pacemaker 7:14 AM ET for converse: The Catholic Church's Southward Shift

Airline Industry at Its Safest Since Dawn of Jet Age

By JAD MOUAWAD and CHRISTOPHER DREW Four years without a fatal crash is an American record unmatched since propeller planes gave way to the jet. Boeing Battery Maker's Bind is Mirrored by Japanese TV Show

Thousands of Afghans have built homes and careers on an influx of foreign money and are

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its matchmaking algorithm can help people find their soul mates was criticized by academics, offers a defense

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"The Suit," a fablicitie play set in South Africa in the part, opens in Brooklyn, A review by Ben Brandey. PAGE C PAGE CI

Country Soul in Brooklyn Soil

he Lone Bollow, a Brooklyn Bo rock edge and Southern roots using its first album. EDITORIAL OP-ED A24-25

David Brooks PACE AT



Alerts Beta 620 Mobile Movie Tickets Learning Network Neusletters NYT Events NYT Store

Photography Video By JACKIE CALMES TOOL 8 & MORE Corrections

"Strong" Over Time

Test Role of a

As the president readies his State of the Union address, many associates say he is exhibiting an assertiveness in contrast to the caution he showed in his first term. How the Union's State Got So

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Fears of the Future Haunt Budding Afghan Strivers By GRAHAM BOWLEY

Straining to Hear and Fend Off Dementia There is no clear



Booming:













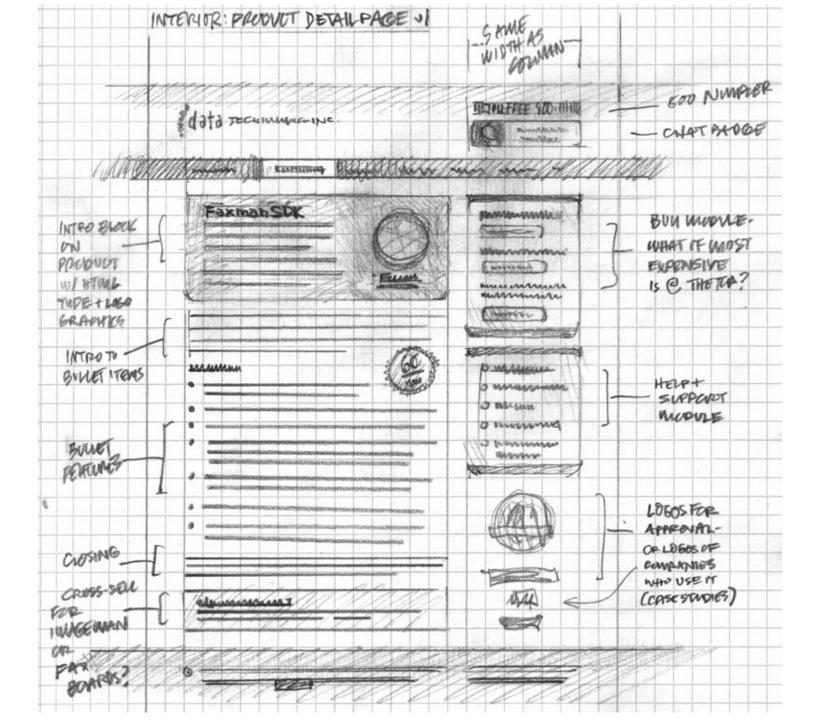
Patterns for Web Design

- Posture genre, type, purpose
 - Commercial, informative, social, creative, combo
 - The *posture* of the site it becomes clearer what kinds of experiences to design
- Experience
 - User tasks and goals within the realm of the posture
 - High-level tasks & goals
 - Primary & secondary level experiences
- Task
 - Specific solutions and strategies for creating experiences
 - Can be drawn as wireframes or sketches
- Action
 - Low-level widgets & features that contribute to task performance



- Design, brainstorming technique
 - Highly conceptual
 - Low-fi
 - Low risk, low cost
 - Rapid
- Incorporates three elements of Web design:
 - Information design. Which information will go where?
 - Navigation design. How will users get around?
 - Interface design. What kinds of elements convey functionality?

GORMLESS THE FIRST (00) gamless "my story" "millined" 0 6-TEN #1 INTRO TEXT BUTTON HZ BUTTON #1 ME AT THE LOCAL SWIMMING POOL More ... Gallen Giles Gellery \$2 #1 LATEST VDED MORE CALL TO ACTION MOR FOOTER



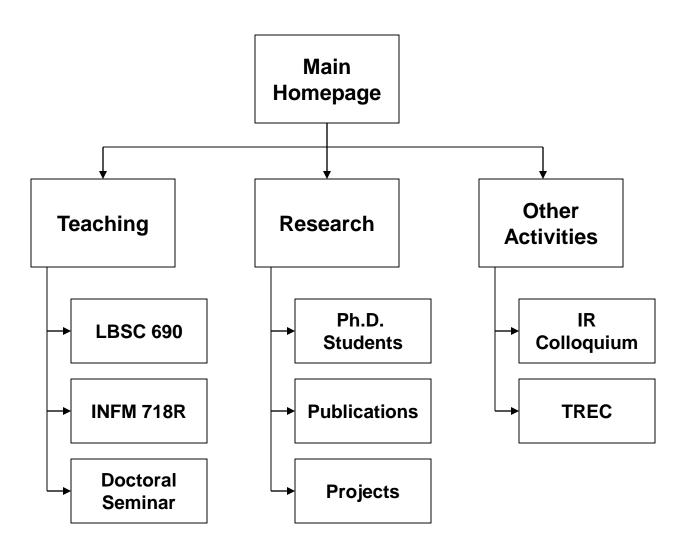
Static Design

- Organizing principles
 - Logical:
 - Functional:
 - Demographic:
- e.g., chronological, alphabetical by task by user

- Metaphors
 - Organizational:
 - Physical:
 - Functional:
 - Visual:

- e.g., e-government
- e.g., online grocery store
- e.g., cut, paste
- e.g., octagon for stop

"Site Blueprint"

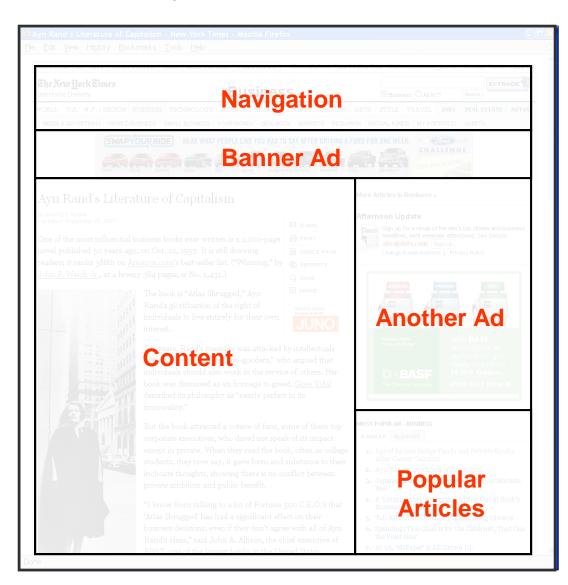


Grid Layout: NY Times

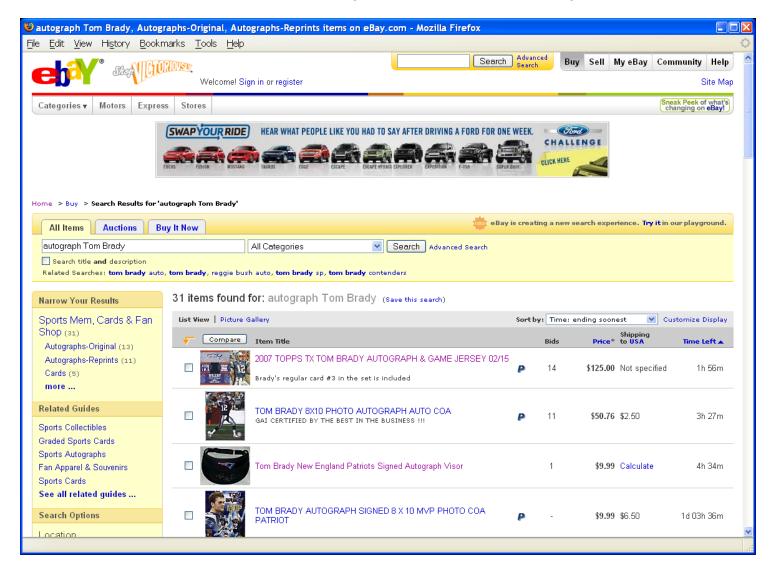


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Grid Layout: NY Times



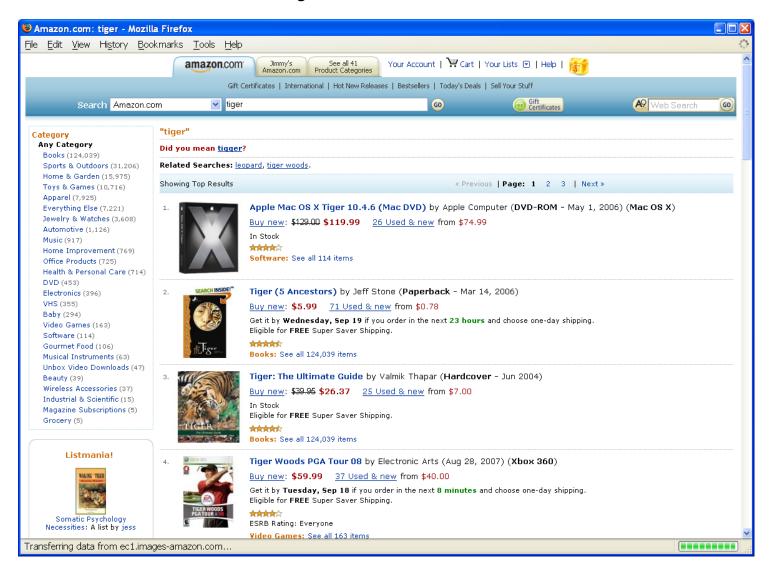
Grid Layout: ebay



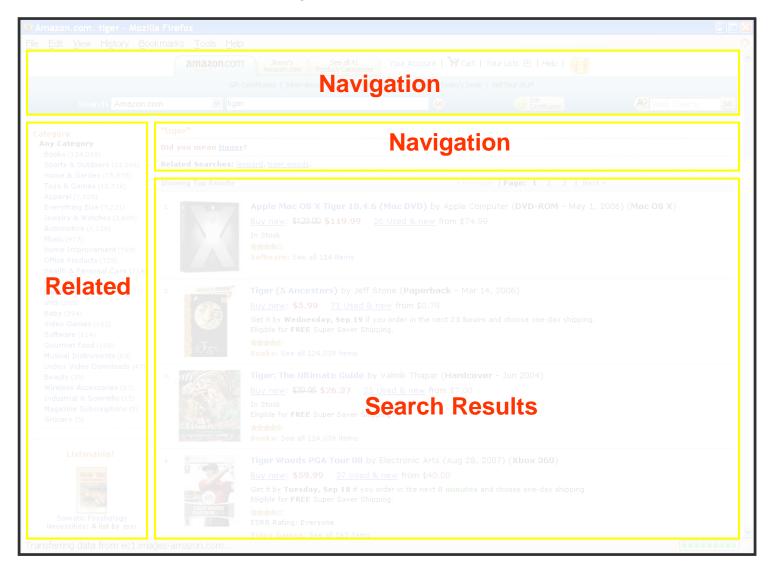
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Grid Layout: Amazon

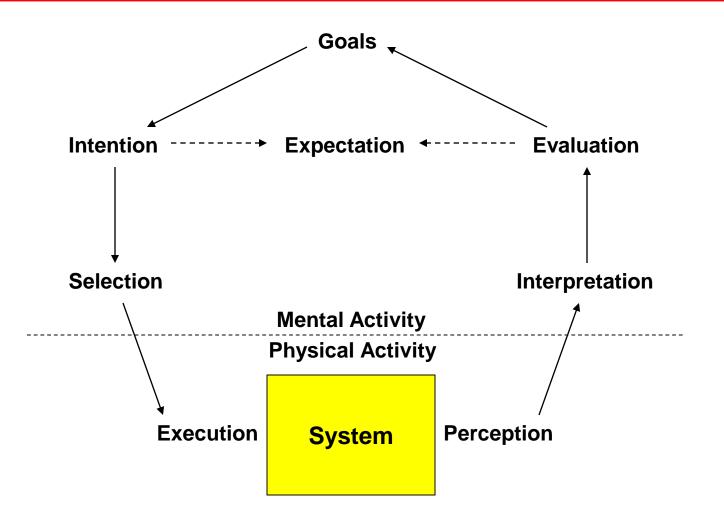


Some Layout Guidelines

- <u>C</u>ontrast: make different things different
 - to bring out dominant elements
 - to create dynamism
- Repetition: reuse design throughout the interface
 to achieve consistency
- <u>A</u>lignment: visually connect elements
 to create flow
- Proximity: make effective use of spacing
 - to group related and separate unrelated elements



Stages of Interaction





- How the user <u>thinks</u> the machine works
 - What actions can be taken?
 - What results are expected from an action?
 - How should system output be interpreted?

- Mental models exist at many levels
 - Hardware, operating system, and network
 - Application programs
 - Information resources

Interaction Design

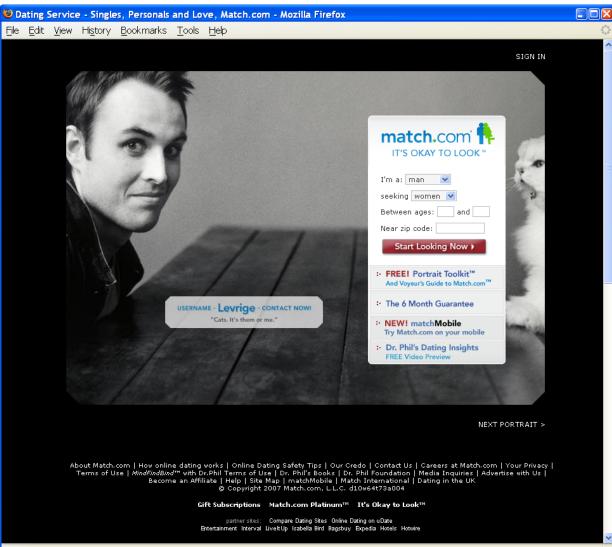
- Chess analogy: a few simple rules that disguise an infinitely complex game
- The three-part structure
 - Openings: many strategies, lots of books about this
 - End game: well-defined, well-understood
 - Middle game: nebulous, hard to describe
- Information navigation has a similar structure!
 - Middle game is underserved



Opening Moves

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Opening Moves

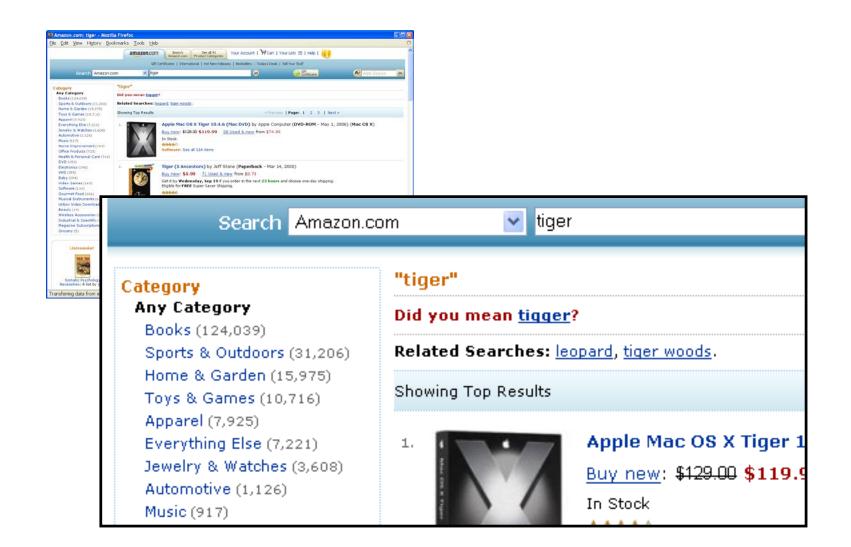


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Opening Moves



Middle Game



Middle Game

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Cards (5)	Brady's regular card #3 in the set is included			
more				
Related Guides	TOM BRADY 8X10 PHOTO AUTOGRAPH AUTO COA			
Sports Collectibles	GAI CERTIFIED BT THE BEST IN THE BUSINESS !!!			
Graded Sports Cards Sports Autographs				

Navigation Patterns

- Drive to content
- Drive to advertisement
- Move up a level
- Move to next in sequence
- Jump to related