



College of Information Studies

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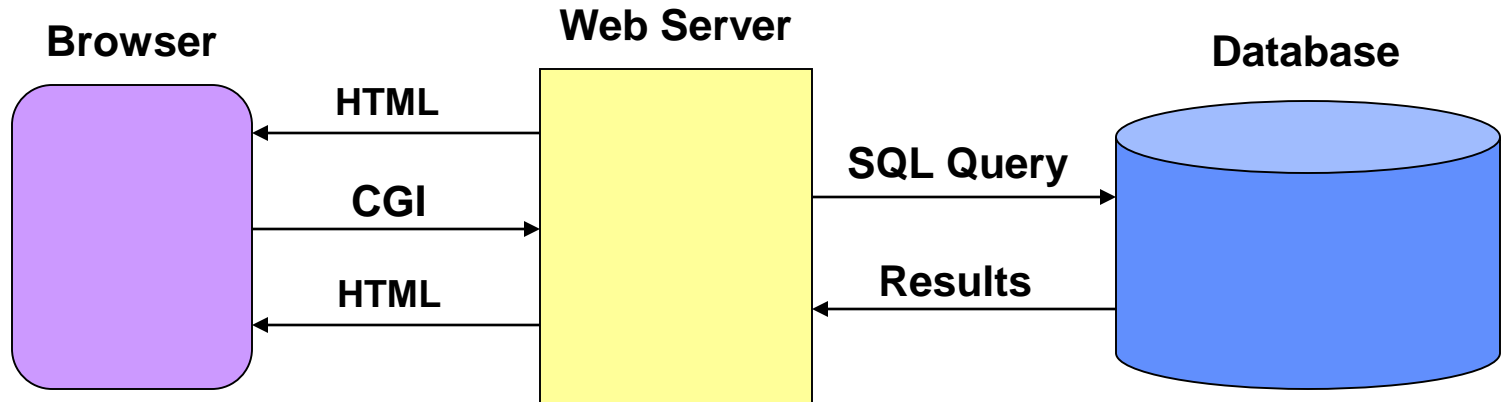
Content Management Systems

Session 15

INST 301

Introduction to Information Science

Putting the Pieces Together



Why Database-Generated Pages?

- Remote access to a database
 - Client does not need the database software
- Serve rapidly changing information
 - e.g., Airline reservation systems
- Provide multiple “access points”
 - By subject, by date, by author, ...
- Record user responses in the database

Why Content Management Systems?

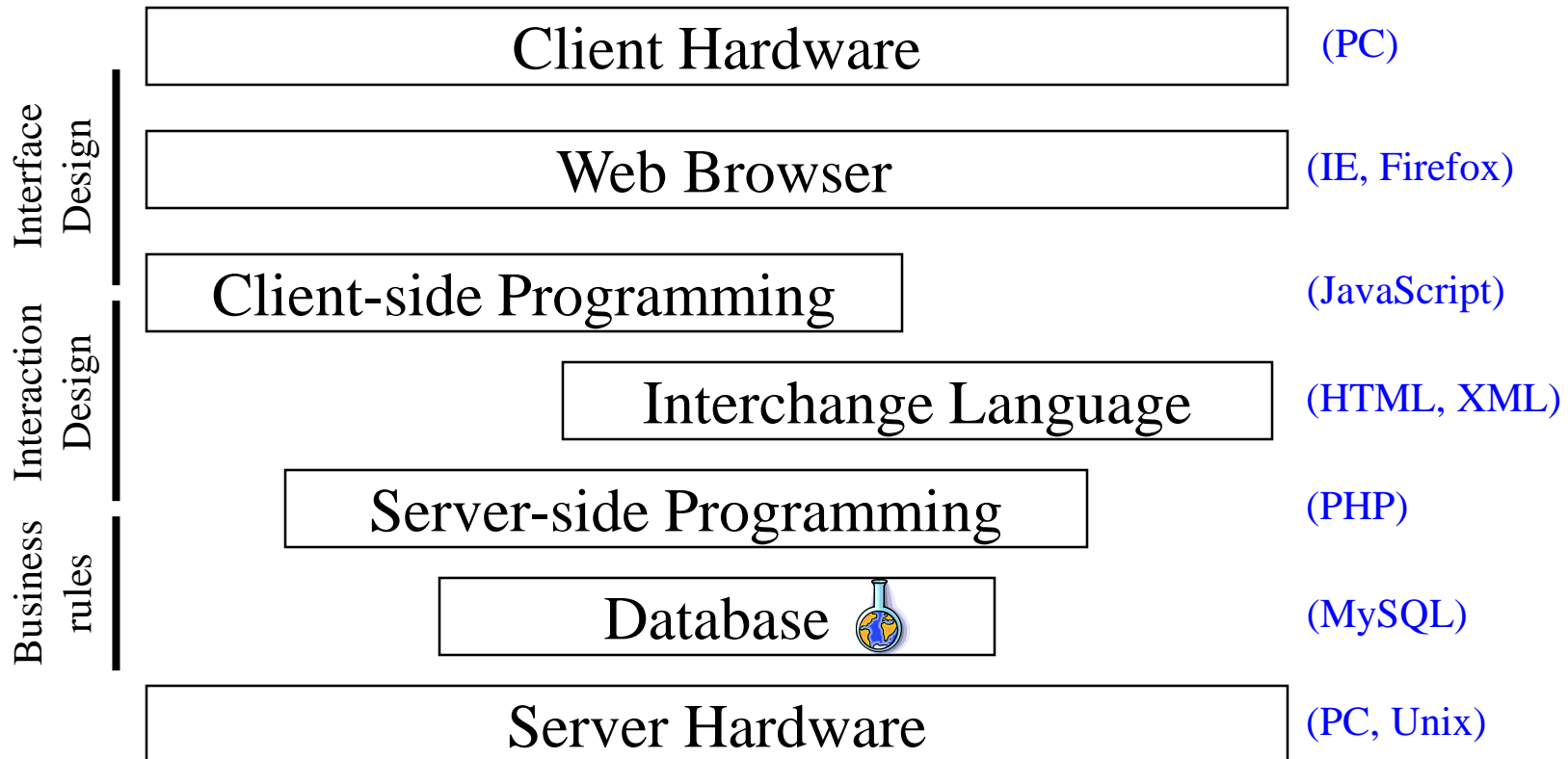
- Separation of content and appearance
- Separation of roles
- Standardization of common “design patterns”
 - Login and password recovery
 - Headlines and drill-down
 - Site map
 - Search
 - Shopping cart

Content Management Systems

- WordPress
 - <http://wordpress.org>
- Joomla
 - <http://www.joomla.org>
- Drupal
 - <https://drupal.org>

Roles

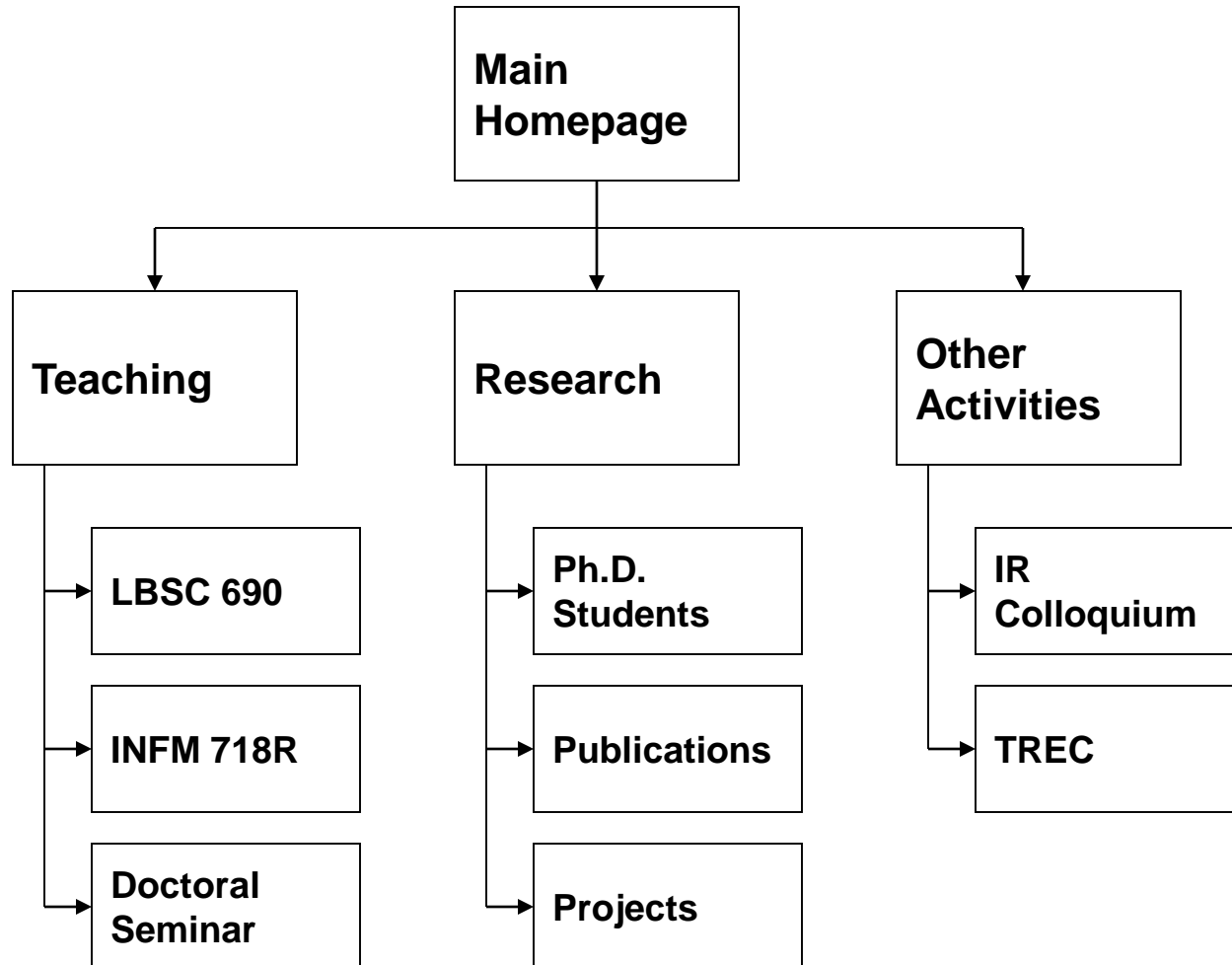
- Information architecture design
- Task assignment
- Content generation and modification
- Approval for “publication”
- Publication
- Error correction
- Tracking task progress



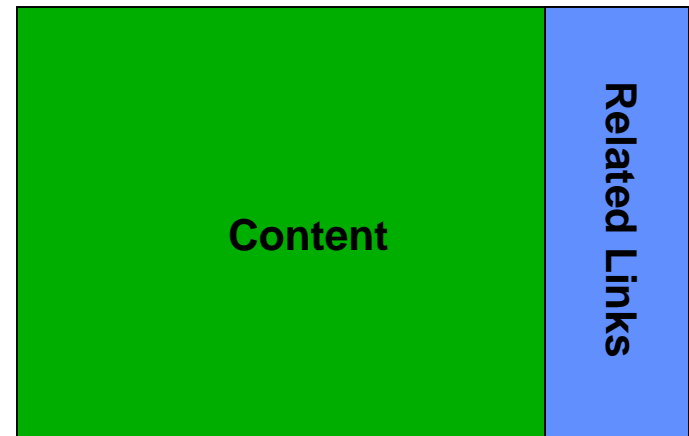
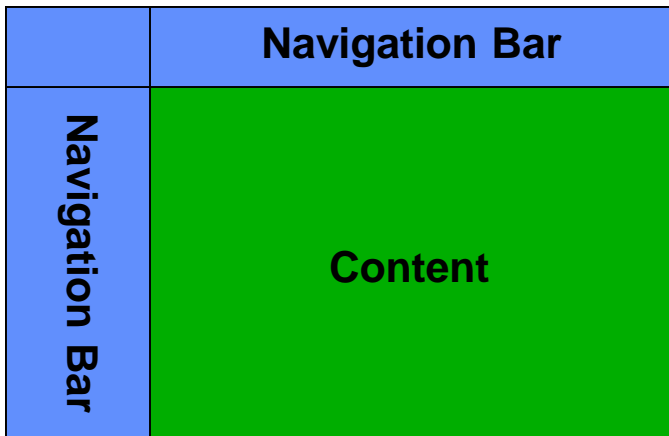
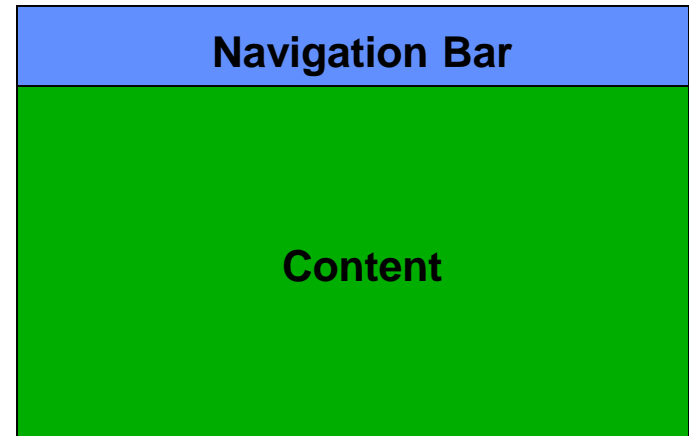
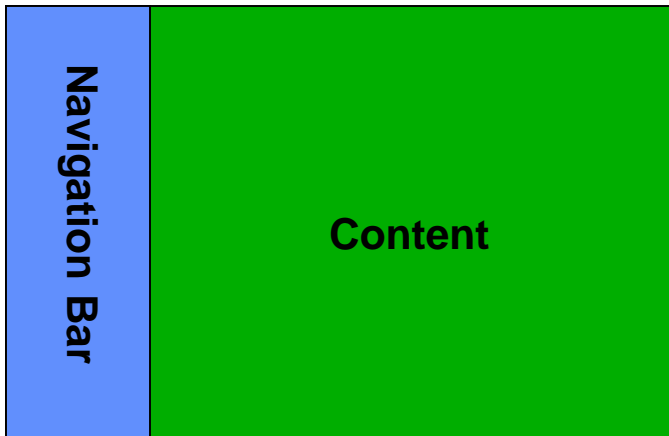
Content Management System Structure

- Database stores the content
 - And access control data and parameters
- Server scripting controls the user experience
 - PHP reads database, generates HTML
- HTML conveys the user experience
- User-side scripting enhances interactivity
 - JavaScript may be used for form validation

“Site Blueprint”



Grid Layouts



Grid Layout: NY Times

Ayn Rand's Literature of Capitalism - New York Times - Mozilla Firefox

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SWAP YOUR RIDE HEAR WHAT PEOPLE LIKE YOU HAD TO SAY AFTER DRIVING A FORD FOR ONE WEEK. Ford CHALLENGE

CLICK HERE TO EXPAND

Ayn Rand's Literature of Capitalism

By HARRIET RUBIN
Published: September 16, 2007

One of the most influential business books ever written is a 1,200-page novel published 50 years ago, on Oct. 12, 1957. It is still drawing readers; it ranks 388th on [Amazon.com's](#) best-seller list. ("Winning," by [John F. Welch Jr.](#), at a breezy 384 pages, is No. 1,431.)

The book is "Atlas Shrugged," Ayn Rand's glorification of the right of individuals to live entirely for their own interest.

For years, Rand's message was attacked by intellectuals whom her circle labeled "do-gooders," who argued that individuals should also work in the service of others. Her book was dismissed as an homage to greed. [Gore Vidal](#) described its philosophy as "nearly perfect in its immorality."

But the book attracted a coterie of fans, some of them top corporate executives, who dared not speak of its impact except in private. When they read the book, often as college students, they now say, it gave form and substance to their inchoate thoughts, showing there is no conflict between private ambition and public benefit.

"I know from talking to a lot of Fortune 500 C.E.O.'s that 'Atlas Shrugged' has had a significant effect on their business decisions, even if they don't agree with all of Ayn Rand's ideas," said John A. Allison, the chief executive of BB&T, one of the largest banks in the United States.

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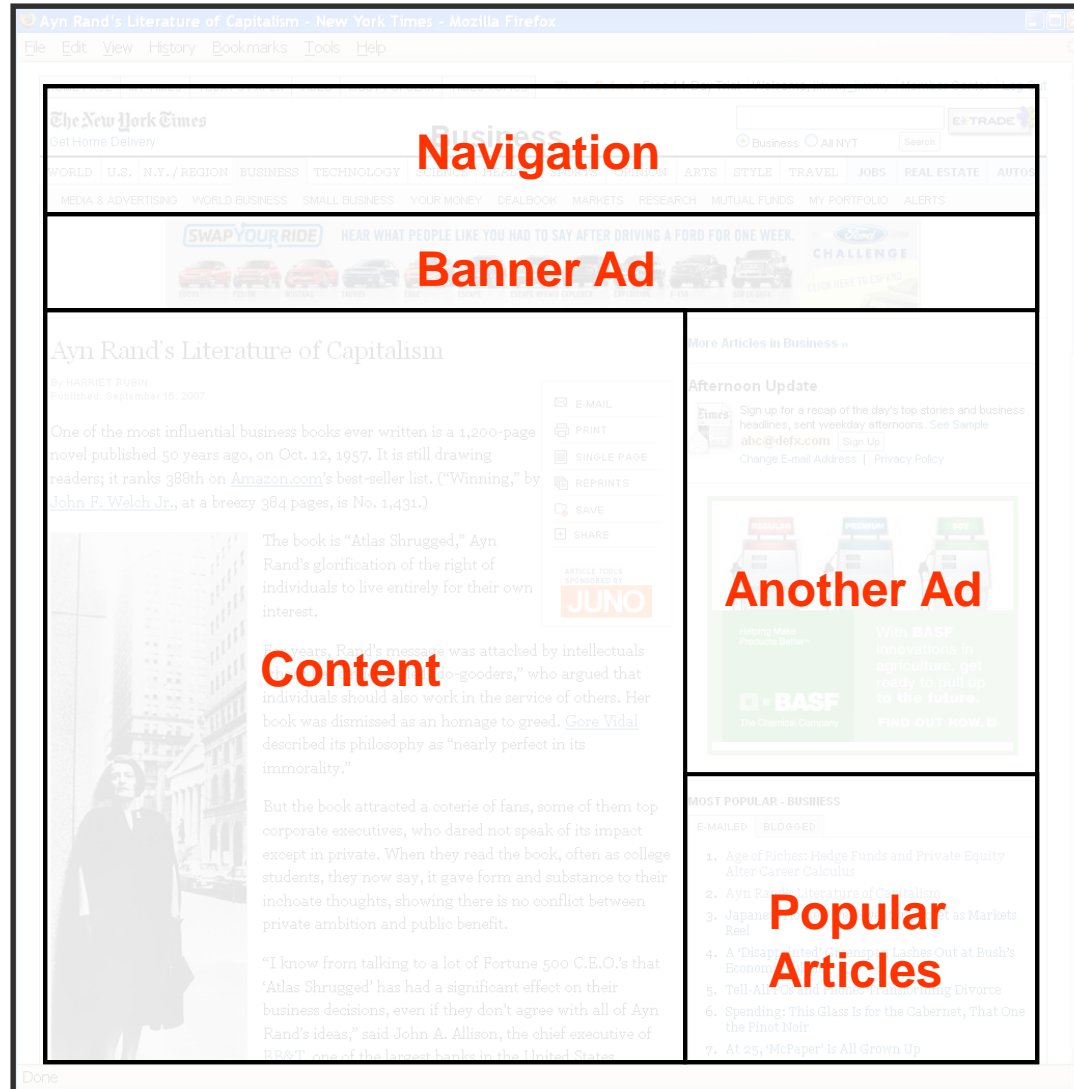
MOST POPULAR - BUSINESS

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2. Ayn Rand's Literature of Capitalism
3. Japanese Housewives Sweat in Secret as Markets Reel
4. A 'Disappointed' Greenspan Lashes Out at Bush's Economic Policies
5. Tell-All PCs and Phones Transforming Divorce
6. Spending: This Glass Is for the Cabernet, That One the Pinot Noir
7. At 25, 'McPaper' Is All Grown Up

Done

Grid Layout: NY Times



Grid Layout: ebay

autograph Tom Brady, Autographs-Original, Autographs-Reprints items on eBay.com - Mozilla Firefox

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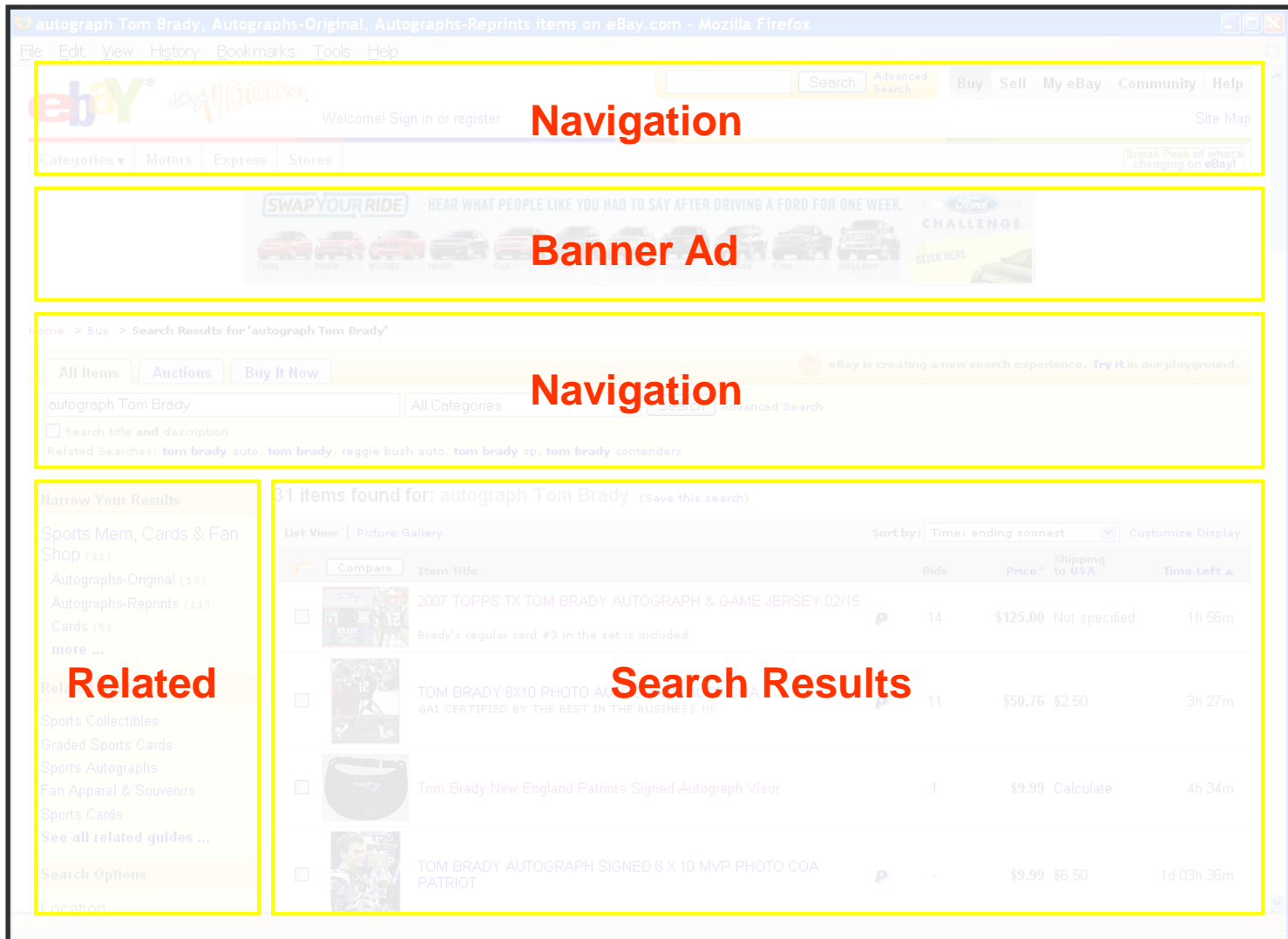
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<input type="checkbox"/>	Tom Brady New England Patriots Signed Autograph Visor	1	\$9.99	Calculate	4h 34m
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Grid Layout: ebay



Grid Layout: Amazon

Amazon.com: tiger - Mozilla Firefox

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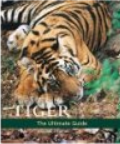

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- Apparel (7,925)
- Everything Else (7,221)
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- Grocery (5)

"tiger"


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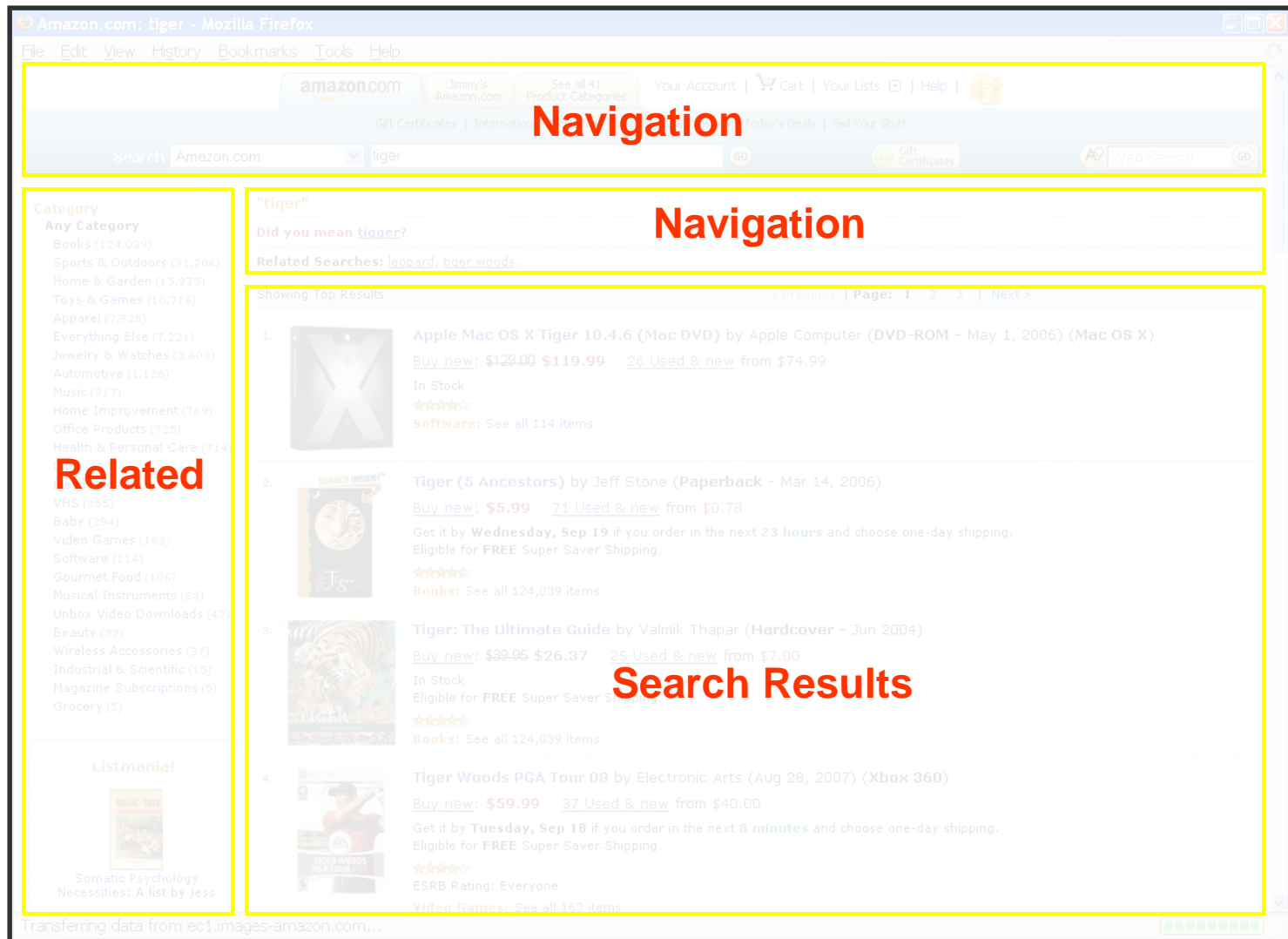
Listmania!



Somatic Psychology
Necessities: A list by jess

Transferring data from ec1.images-amazon.com...

Grid Layout: Amazon



Drupal Structure

- Front end
 - The Web site
- Back end
 - Where the Web site is defined

Drupal Structure

- Regions
 - Header, left sidebar, content, right sidebar, footer
 - Structure->Blocks->Demonstrate Blocks Region
- Blocks
 - Navigation, login, Drupal, help, content, search
 - Optional: who's online, recent comments, ...
- Menus
 - Main, navigation, user

Drupal Content (“Nodes”)

- Basic Page
- Article
 - By default allows comments
- Blog entry
- Forum topic

Optional Drupal Modules

- Aggregator
- Blog
- Forum
- Book
- Contact form
- Poll
- Search
- Statistics
- Trigger
- Translation

Some Downloadable Modules

- Content Construction Kit
- Views
- OpenLayer
- Dynamic Display Block
- Embedded Media
- Image Cache
- Calendar
- Share

Installing Drupal

- Download and install XAMPP
 - Add `c:\xampp\mysql\bin` to your path
- Download and install Drupal
 - Configure for local use (“first time user guide”)
 - Ignore SMTP error messages
- Configure your site
 - Add some “splash page” content
 - Set user permissions

Drupal's Use of MySQL

```
USE drupal;
```

```
SHOW TABLES;
```

```
SELECT * FROM users;
```

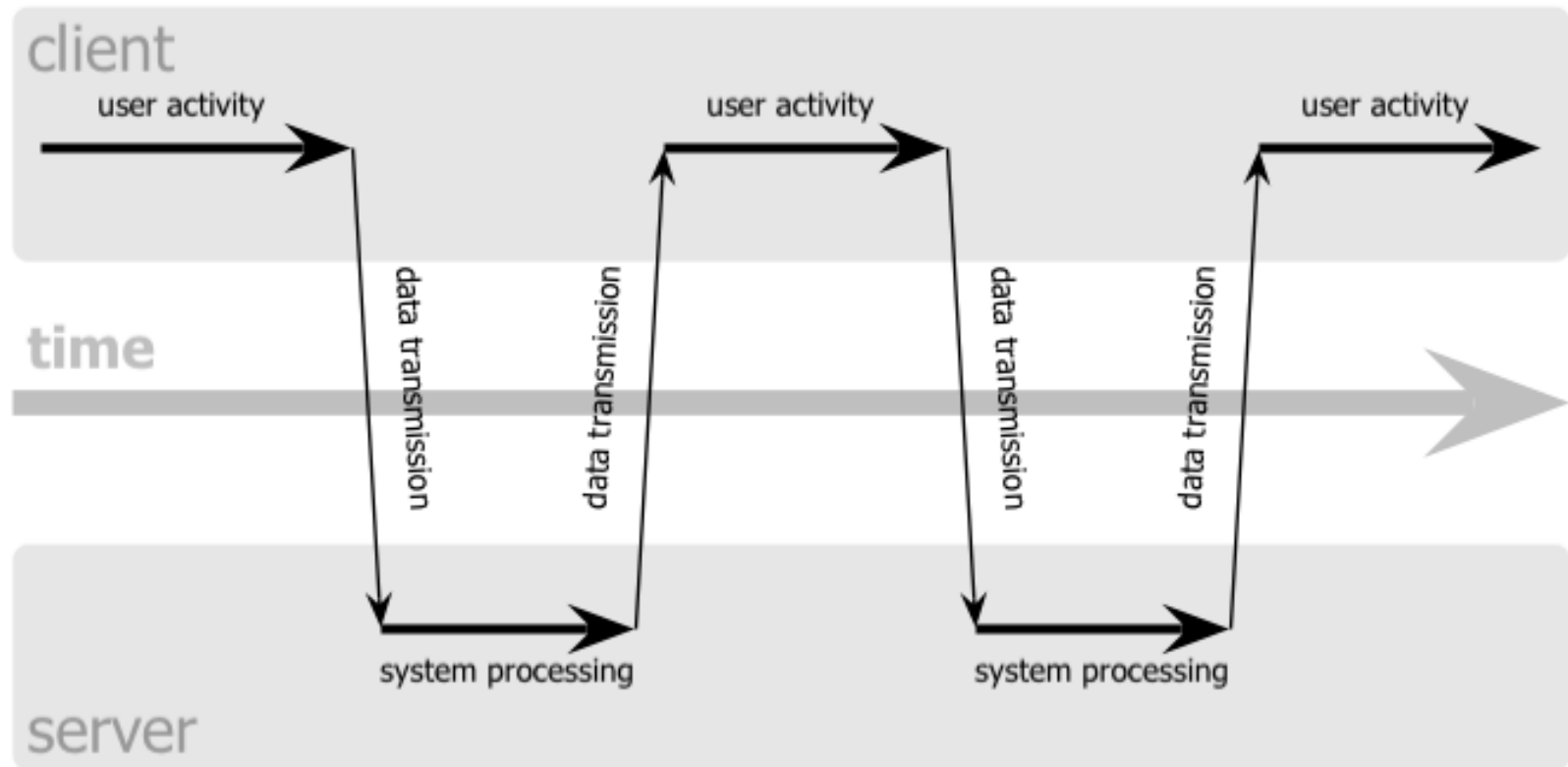
```
SELECT * FROM nodes;
```

```
SELECT * FROM node_revisions;
```

Ajax Applications

- Google Maps
 - <http://maps.google.com>
- Google Suggest
 - <http://www.google.com/webhp?complete=1&hl=en>
- Sajax Tables
 - <http://labs.revision10.com/?p=5>
- Sajax
 - <http://www.modernmethod.com/sajax/>

classic web application model (synchronous)



Ajax web application model (asynchronous)

