

# DESIGN PATTERNS

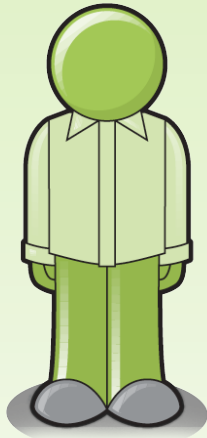
## DEFINING AND SHARING WEB DESIGN LANGUAGES

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LUKE WROBLEWSKI  
SOUTH BY SOUTHWEST, 2007



# Luke Wroblewski



## Yahoo! Inc.

- Principal Designer, Social Media

## LukeW Interface Designs

- Principal & Founder
- Product design & strategy services

## Author

- Site-Seeing: A Visual Approach to Web Usability (Wiley & Sons)
- Functioning Form: Web applications, product strategy, & interface design articles

## Previously

- eBay Inc., Lead Designer
- University of Illinois, Instructor
- NCSA, Senior Designer

<http://www.lukew.com>



**WHY DESIGN  
PATTERNS?**

**SHARED LANGUAGE  
PATTERN  
RECOGNITION**

# Design Patterns Conversation



<http://www.lukew.com/ff/entry.asp?347>



**Bill Scott**

Former Curator, Yahoo!  
Design Pattern Library



**Jenifer Tidwell**

Author, Designing Interfaces  
Curator, UI Patterns and  
Techniques



**Martijn van Welie**

Curator, Patterns in  
Interaction Design



**James Reffell**

Former Curator, eBay  
Pattern Engine



**Luke Wroblewski**

Architect, eBay Pattern  
Engine

<http://developer.yahoo.com/ypatterns/>



[Developer Network Home](#) [Help](#)

**YAHOO!** DEVELOPER NETWORK

Design Pattern Library

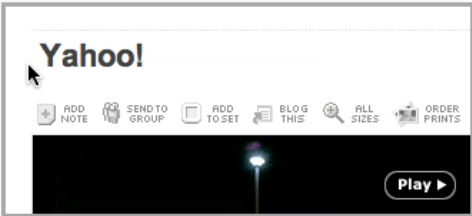
[Yahoo! Developer Network](#) > [Design Pattern Library](#) > [Invitation](#) > Tool Tip Invitation

## Tool Tip Invitation

### Problem Summary

Designer needs to cue the user about what will happen if they click the mouse on the hovered object.

EXAMPLE:



*Showing insertion cursor to invite user to edit photo title in [flickr](#)*

### Use When

- You want to invite the user to click or interact with the object being hovered over.
- You want to make it clear that something will happen when the user clicks on the object being hovered over.
- The user is interacting directly with the object (e.g., inline editing).
- You need a textual description to make it explicit what will happen when the user interacts with the object.
- You want to entice the user to interact with the feature.

### Solution

- Provide a tool tip when the mouse is over the target area that calls the user to action.
- Show the tooltip within a very short amount of time (< .25 second) or immediately when the mouse hovers over the interaction area.
- Keep the tooltip visible the whole time the user has the mouse over the interaction area.
- Remove the tooltip when the mouse leaves the interaction area.
- Provide a short phrase that calls the user to action.

#### QUICK JUMP

- [Solution](#)
- [Rationale](#)
- [Accessibility](#)

#### RELATED PATTERNS

- [Invitation](#)
- [Cursor Invitation](#)
- [Drop Invitation](#)
- [Hover Invitation](#)


#### AS USED ON YAHOO!

- [flickr](#)

#### BLOG

- [Blog Article](#)

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<http://designinginterfaces.com/>



# Designing Interfaces

*Patterns for Effective Interaction Design*

## Overview

- About the Book
- Introduction
- About Patterns

## Organizing the Content

- Two-Panel Selector
- One-Window Drilldown
- Wizard
- Extras On Demand
- Intriguing Branches

## Getting Around

- Clear Entry Points
- Global Navigation
- Color-Coded Sections
- Animated Transition

## Organizing the Page

- Visual Framework
- Center Stage
- Titled Sections
- Card Stack
- Closable Panels
- Movable Panels
- Diagonal Balance
- Responsive Disclosure
- Responsive Enabling
- Liquid Layout

## Commands and Actions

- Action Panel
- Smart Menu Items
- Progress Indicator
- Multi-Level Undo
- Command History

## Showing Complex Data

- Overview Plus Detail
- Row Stripping
- Sortable Table
- Jump to Item
- Cascading Lists
- Tree-Table

## Getting Input From Users

- Forgiving Format
- Fill-in-the-Blanks
- Input Hints
- Input Prompt
- Dropdown Chooser
- Illustrated Choices
- Good Defaults

## Builders and Editors

- Edit-in-Place
- Smart Selection
- Composite Selection
- One-Off Mode
- Constrained Resize

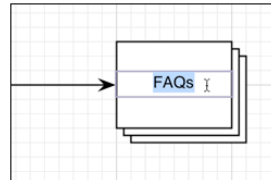
## Making It Look Good

- Deep Background
- Few Hues Many Values
- Corner Treatments



Excerpts from the O'Reilly book,  
public discussion, and new patterns.  
[Buy the book](#)

## Edit-in-Place



OmniGraffle label edited in place

**What:** Use a small, dynamic text editor to let the user change text "in place": position the editor directly over the original text, rather than using a separate panel or dialog box.

**Use when:** The builder UI contains text that the user may want to change sometimes. The names of objects, text elements in a graphic layout, labels, and even property values are good candidates.

**Why:** Making the user go somewhere else — a place far away spatially, or disconnected from the original text, in another window — usually isn't a good idea. The user may not find the editor, for one thing. It also takes time to switch one's attention from one place to another, and the perceived complexity of the interface is increased.

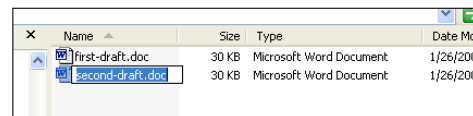
That said, an alternative to this pattern is to edit the text in a separate panel, such as a **Property Sheet** (see Chapter 4) or in a dialog box. You should do this only if Edit-in-Place is too technically difficult, or if the text in question is so long and complex that it deserves specialized editing and formatting tools — fonts, text sizes, the kinds of things you'd find on text editors' toolbars.

**How:** When the user clicks or, more typically, double-clicks on the text to be edited, simply replace it with an editable text field containing the string. Anything the user types is then entered into the text field. End the edit session when the user clicks somewhere else.

Make sure the text field appears in precisely the same apparent location as the original non-editable string. If it seems to jump when editing starts, it may irritate users. (This situation doesn't seem like a big deal, but it can be.) Also, retain the same typeface as the original text, if you can. In short, make it as WYSIWYG as possible.

Usually a border appears around the text when the editor is invoked, indicating to the user that editing has begun. That may not even be necessary, though. Other cues may suffice: a text-entry cursor should appear (often blinking), and if a common user task is to replace the original string entirely, then the whole original string should be automatically selected when the editor appears.

## Examples:



From Windows Explorer

Windows Explorer is where many people see Edit-in-Place for the first time. Explorer isn't an editor, but it established a precedent for how one interacts with Edit-in-Place. Explorer differs from most editors because you invoke Edit-in-Place via a "slow" double-click (not always easy to do, and not recommended), whereas most editors use an ordinary single or double click. But the rest is the same. The previous text is automatically selected, a box is drawn around the text, and a blinking text-entry cursor appears.



<http://www.welie.com/patterns/>



[back to index](#)

### Constraint Input

Location: Paris (M) - City Map

start date: 26

end date: 29

From [www.easycar.com](http://www.easycar.com)

**Problem** The user needs to supply the application with data but may be unfamiliar with which data is required or what syntax to use.

**Use when** Any system where structured data must be entered. Data such as dates, room numbers, social security numbers or serial numbers are usually structured. The exact syntax used for such data may vary per country or product. When the data is entered using an unexpected syntax, the data cannot be used by the application. The user may be familiar with the data but may not know the exact required syntax. The user strives for entry speed but also wants it to be entered correctly. Cultural conventions determine what the user expects the syntax to be. For example, dd/mm/yy is usual in Europe while mm/dd/yy is used in the United States.

**Solution** Only allow the user to enter data in the correct syntax.

Present the user with fields for each data element of the structure. Label each field with the name of the data unit if there can be doubt about the semantics of the field. The field does not allow incorrect data to be entered. Avoid fields where users can type free text. Additionally, explain the syntax with an example or a description of the format. Provide sound defaults for required fields, fields that are not required should be avoided or otherwise marked as optional. When optional fields are used, the consequences for the user must be explained.

**Why** The main idea is avoid entering incorrect data by not making it possible to enter wrong data. By showing the required format the chances of errors are reduced because the user is given complete knowledge. However, because the user now has to give multiple data inputs instead of one, more time is needed to enter the data. The solution reduces the number of errors and increases satisfaction but the performance time may go down.

**More Examples** This snapshot is from the date selection at Expedia.com. Entering the date is split up in three input areas. Each of the input fields allows only valid entries. Entering an invalid date becomes impossible.

# eBay Pattern Engine





## Pattern [engine]

[Pattern Engine Home](#)  
Powered by UED

### Hide/Show Elements

**Section title** [Show](#)

**Section title** [Hide](#)

Section Content displayed here.

**Section title** [Show](#)

Sectional overview text can go here.

**Section title** [Hide](#)

Section Content displayed here.

Standard & my eBay (bottom) visual designs.

 [EML code & description](#)

Related Design Patterns	
Frameworks	Components
	Section Title

#### Overview

Hide/show elements expand and collapse sections of content.

**Why**  
Hide/show elements allow users to control the amount of content visible on a page.

**Use When**  
Hide/show elements can be used whenever users may want to minimize non-critical content and/or actions. The customize layout component should be used in place of hide/show elements when content appears within an application framework that supports customization (i.e. My eBay). The customize layout component applies only to [containers](#).

**How**  
Use table or section titles with in-line actions labeled Hide & Show. The collapsed state of a hide/show element needs to retain the title in addition to a visible Show action. You may also include a section overview within the header. The sectional overview should not be displayed when the section is open to avoid confusion about whether it's already open or not. A different visual design is required for hide/show elements within the My eBay framework.

#### Support

##### Examples

Optional Feature Flag

Sectional overview text can go here.

**Section title** [Show](#)

**Section title** [Hide](#)

Section Content displayed here.

[eBay Fees](#)

[my eBay Account Preferences](#)

#### Contacts

[DL-eBay-UED-PCPS](#), UI Platform team

Powered by UED Base. Please contact [DL-eBay-UED-PCPS](#) with any questions or comments.





## WHAT ARE DESIGN PATTERNS?

- Repeatable design solutions to common problems
- Work “positively” for specific problems in specific contexts
- Capture best practices that solve real user needs
- Between principles & guidelines
- A design vocabulary

Drag and Drop. Drag and Drop Modules. In Page Editing. In Page Custom Editing. Direct State Editing. Grid Cell Editing. Inline Custom Editing. Inline Tag Editing. Popup Custom Editing. Slide-out Custom Editing. Inline Text Editing. Persistent Portals. Inline Reordering. Indication. Busy Indication. Cursor Busy. In Context Busy. In Context Progress. Inline Status. Auto Complete. Balloon Error Tip. Deferred Content Loading. Dynamic Goal. Narrowing Choices. Refining Search. Live Search. Dynamic Filter. Invitation. Cursor Invitation. Drop Invitation. Tool Tip Invitation. Hover Invitation. Detail Zoom. Opacity Focus. Configurable Module - Faceplate. Configurable Module - Flip It. Configurable Module - Inline Configure. Configurable Module - Slide Out Drawer. Slide Out. Flip. Opacity Fade. Endless Scrolling. Expandable Paging Boundary. Fresh Content. Hover Detail. In Place Drill Down. Inline Assistant. Inline Validation. Validate Then Suggest. On Demand Refresh. Periodic Refresh. Resizable Modules. Scrolling Modules. Auto Save. In Context Tools. Remembered Collection. Remembered Preferences. Auto Form Fill. Rating an Object. Transition. Brighten Transition. Cross Fade Transition. Dim Transition. Expand Transition. Fade In Transition. Fade Out Transition. Flip Transition. Move Transition. Self-Healing Transition. Collapse Transition. Slide Transition. Rich Internet Object. Available. Selected.

Category: **Web** | [Images](#) | [Video](#) | [Local](#) | [News](#) | [Shopping](#)

Search:

Yahoo! Search

[Advanced](#)  
[My Web](#)

See the most popular vehicles on Yahoo! Autos

[+ Add Content](#)
[↑ Change Layout](#)
[☑ Change Colors](#)

Select Page: [My Front Page](#)

▼ **Weather** edit ✕

Dallas, TX

80...100 F

Denton, TX

78...101 F

Sunnyvale, CA

57...79 F

Boulder Creek, CA

53...80 F

Gilroy, CA

56...86 F

San Jose, CA

59...82 F

Search

search by Zip Code or City

678

Your Credit Score - \$0

▼ **Scoreboard** edit ✕

TODAY

▼ [MLB](#)

Texas vs. Minnesota

10 2

E

YESTERDAY

▼ [MLB](#)

Texas vs. Minnesota

9 0

E

[Y! Fantasy Football '06. Where Fantasy Rules. Sign up now!](#)

▼ **Message Center** edit ✕

[Check Email](#)

[Launch Messenger](#) 41 friends on

▼ **Maps** edit ✕

Select From My Locations or Recently Used [clear recent](#)

----- My Locations -----

▼

Or Map a New Address:

Street Address [or Airport Code](#)

City, State or a Postal Code

▼ **eHub** edit ✕

[MODx](#) - 1 day ago

[Olor](#) - 1 day ago

[Moodle](#) - 2 days ago

[Krugle](#) - 2 days ago

[Kartoo](#) - 2 days ago

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▼ **Personal Technology News** edit ✕

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[Review: Episodic video games can be fun](#) - 3 hours ago

[Google strikes advertising deal with XM Satellite](#) - 5 hours ago

[Google to Serve Ads to XM Radio](#) - 6 hours ago

▼ **Travelocity - SFO-DFW** edit ✕

[\\$193+ Flights From San Francisco to Dallas/Fort Worth - Save 50%\\*](#) - one hour ago

▼ **Travelocity - SJC - DFW, HNL, LAX, SAN** edit ✕

[\\$263+ Flights From San Jose to Dallas/Fort Worth - Save 30%\\*](#) - 2 hours ago

[\\$103+ Flights From San Jose to Los Angeles - Save 50%\\*](#) - 2 hours ago

[\\$378+ Flights From San Jose to Honolulu - Save 25%\\*](#) - 2 hours ago

▼ **Best Fare Tracker** edit ✕

Depart: Wichita, KS

San Francisco, CA

\$256.00

San Jose, CA

\$254.00

Depart: Kansas City, MO

San Francisco, CA

\$241.00









Depart: San Francisco, CA

BILL SCOTT, DESIGNING FOR AJAX


To:  [Show BCC](#)

Cc:

Subject:  [Plain Text](#)

Times New Roman  12  **B** *I* U        

## Find a domain name:

www.    
(ex. widgetdesigns.com)

[Search](#)

## Top Stories

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- [Insurgents Thwarting Iraq Reconstruction](#) AP - 48 minutes ago
- [House Clears Budget-Cut Bill for Bush](#) AP - 50 minutes ago
- [Police Apologize, Drop Charge Vs. Sheehan](#) AP - 50 minutes ago
- ['Commander in Chief' Takes Six-Week Break](#) AP - 53 minutes ago

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Recommend It:



Average (63 votes)



282

diggs

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#### [Fixing the Mighty Mouse](#)



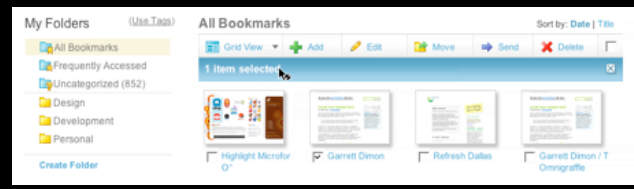
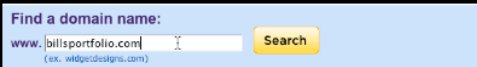
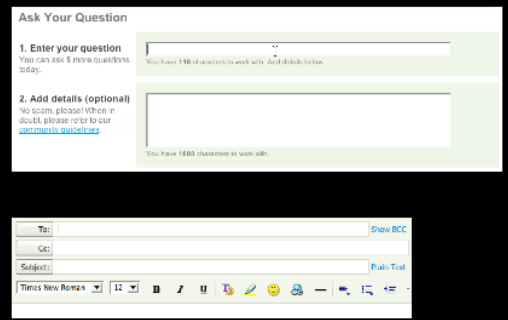
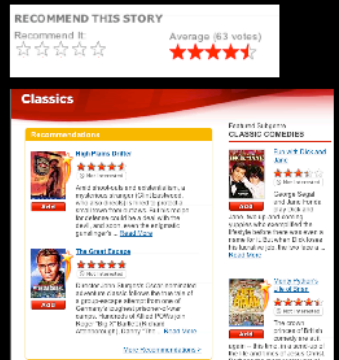
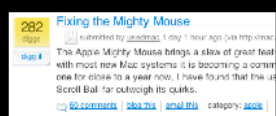
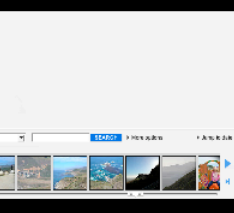
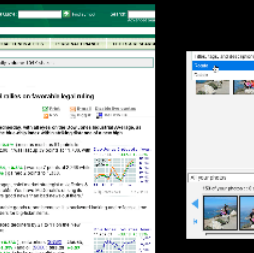
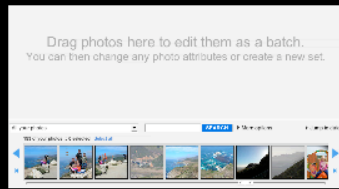
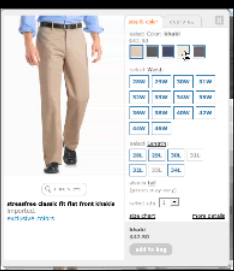
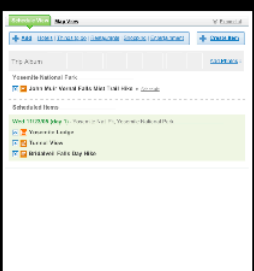
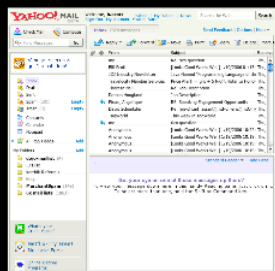
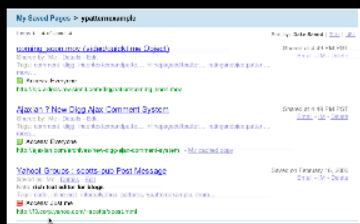
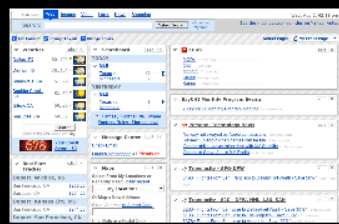
submitted by [usedmac](#) 1 day 1 hour ago (via [http://mac](#))

The Apple Mighty Mouse brings a slew of great features with most new Mac systems it is becoming a common one for close to a year now, I have found that the use of the Scroll Ball far outweighs its quirks.

[60 comments](#) | [blog this](#) | [email this](#) | category: [apple](#) |

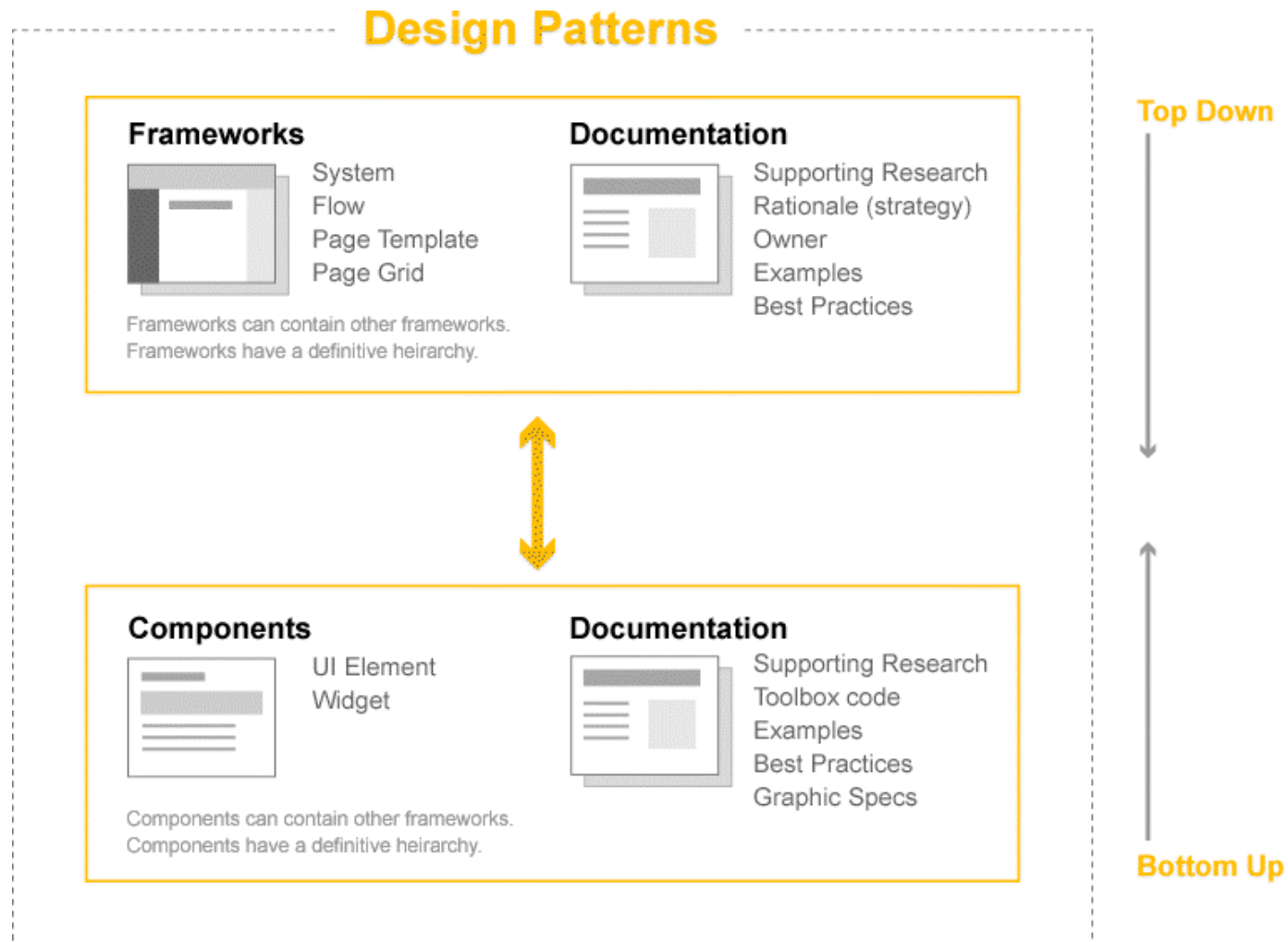
#### Pick Up at the Store

- ☐ Milk
- ☐ Orange Juice
- ☐ Tomatoes
- ☐ Lettuce
- ☐ Bread
- ☐ Chips



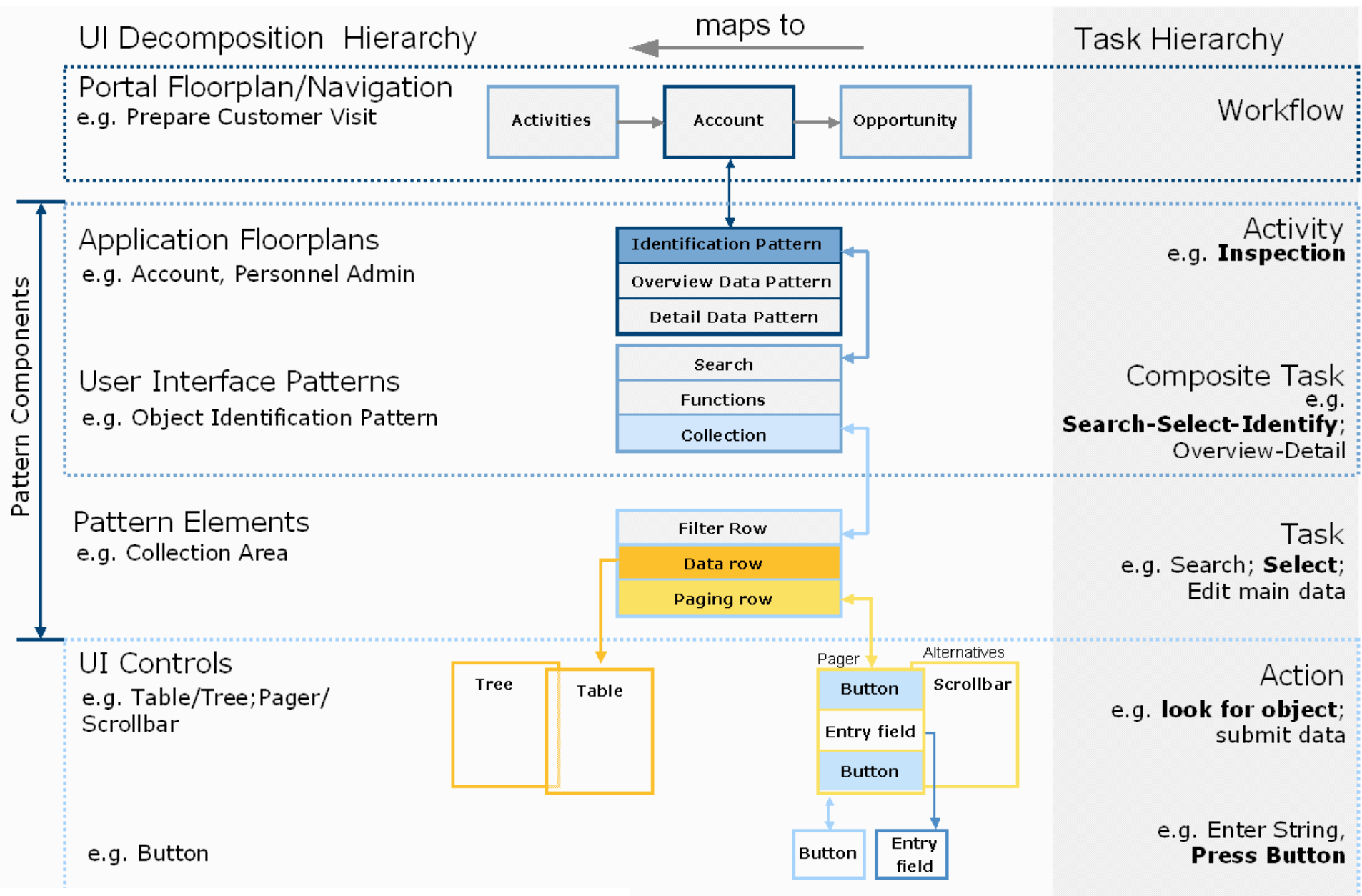
BILL SCOTT, DESIGNING FOR AJAX

# SCOPE OF DESIGN PATTERNS





# SAP PATTERN CONCEPT





# YAHOO! DEVELOPER NETWORK

## Design Pattern Library

Yahoo! Developer Network > Design Pattern Library > Breadcrumbs

### Breadcrumbs

#### Problem Summary

The user needs to be able to navigate up (towards the root page) and have an understanding of where she is in relation to the rest of the site.

#### EXAMPLE:



Breadcrumb showing the Things To Do page for Boston, MA in [Yahoo! Travel's](#) travel guide

#### Use When

- The page displayed is within a hierarchy of pages and is not the topmost page.
- The user cannot easily navigate through the hierarchy via other local navigation methods. For example, if the page is fairly deep in a hierarchy, the breadcrumb may be the simplest way to provide navigation.
- The page may be arrived at from an external source (e.g., a search results page) and the user will need a sense of context.

#### Solution

- Display a horizontal list of labels starting with the topmost page and continuing down the site's hierarchy to the current page.

#### Labels

- Where possible, labels should match the title of their corresponding page.
- Use the rules of title capitalization for labels in the breadcrumb.
- Separate each label with a greater-than sign ( > ).
- Include the title of the current page as the last label in the breadcrumb.
- Do not use the label "Home" for the topmost page. Instead use the specific name for the

#### QUICK JUMP

- [Solution](#)
- [Rationale](#)
- [Accessibility](#)

#### RELATED PATTERNS

- [Browsing](#)
- [Narrowing History](#)
- [Fly-out Menu](#)
- [Horizontal Bar](#)
- [Hub and Spoke](#)
- [Left Navigation](#)
- [Module Tabs](#)
- [Navigation Tabs](#)

#### AS USED ON YAHOO!

- [Yahoo! Travel](#)
- [Yahoo! Directories](#)

#### BLOG

- [Blog Article](#)

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# YAHOO! DEVELOPER NETWORK

## Design Pattern Library

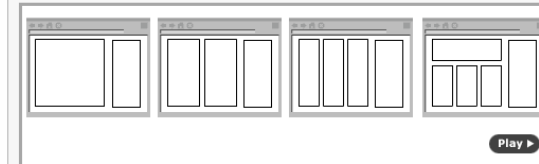
Yahoo! Developer Network > Design Pattern Library > Page Grids

### Page Grids

#### Problem Summary

Web sites have a need for consistency amongst common page elements, page width, division of space, ad usage and code base.

#### EXAMPLE:



Example of how a grid may be sub-divided. Example: [Yahoo! CSS Page Grids](#)

#### Use When

- Creating/managing a large quantity of web pages.
- Web pages are created by different groups and individuals.

#### Solution

Successful web page design often leverages methods rooted in print design by utilizing an underlying grid system. First, establish a grid, or system of grids, that take into account advertising needs, dynamic elements, etc. Next, create templates and code to support designers and developers:

- For designers, create templates authored in commonly used applications such as Adobe Photoshop and Illustrator. These templates should include details like column and gutter widths.
- For developers, create a single CSS code template that accommodates page variations (such as number of columns.) Templates should also reflect details such as the gutter widths defined by designers.  
Example: [Yahoo! CSS Page Grids](#)

#### QUICK JUMP

- [Solution](#)
- [Rationale](#)
- [Accessibility](#)

#### AS USED ON YAHOO!

- [Yahoo! Games](#)
- [Yahoo! Finance](#)

#### Y! UI CODE EXAMPLES

- [CSS Grid Kit](#)
- [L-160](#)
- [L-180](#)
- [L-300](#)
- [R-180](#)
- [R-250](#)
- [R-300](#)
- [Main block only](#)

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## WHAT'S IN A DESIGN PATTERN?

- Title
- Problem (situation)
- Use When (constraints)
- Solution
- Why (rationale)
- How (to apply)
- Examples
- Related Patterns
- Accessibility
- Code Samples

Gathered from a survey of popular Web design pattern resources: Van Duyne, Landay, Welie, Tidwell, Lasko



**HOW ARE DESIGN  
PATTERNS USED?**

**STYLE GUIDE  
REPLACEMENTS**

**SHARING BEST  
PRACTICES**

# WEB STYLE GUIDES






# Pattern (engine)

## Welcome to UED's Design Patterns

Site-wide Frameworks	Site-wide Components
<p>Site-wide frameworks establish global patterns within which specific product requirements can be addressed.</p> <p><b>Creative</b></p> <ul style="list-style-type: none"> <li>Colors</li> <li>Typography</li> <li>Photos</li> <li>Icons</li> </ul> <p><b>Emails</b></p> <ul style="list-style-type: none"> <li>Transaction Emails</li> <li>Promotional Emails</li> </ul> <p><b>Information Architecture</b></p> <ul style="list-style-type: none"> <li>Site Overview</li> </ul> <p><b>Navigation</b></p> <ul style="list-style-type: none"> <li>Global Navigation (header)</li> <li>Area Navigation</li> <li>Local Navigation</li> <li><a href="#">Supportive Navigation</a> (footer)</li> <li>Actions (primary, secondary)</li> </ul> <p><b>Page Types</b> (CMUP)</p> <ul style="list-style-type: none"> <li><a href="#">Lead</a></li> <li><a href="#">Hub</a> (content column)</li> <li><a href="#">Suite</a> (navigation column)</li> <li><a href="#">Suite 2 column</a> (navigation &amp; content columns)</li> </ul> <p><b>Technology</b></p> <ul style="list-style-type: none"> <li><a href="#">Browser Support</a></li> <li>Pop-up Windows</li> <li>CSS Support</li> </ul>	<p>Site-wide components are used to consist across the site to establish a seamless experience.</p> <p><b>Actions</b></p> <ul style="list-style-type: none"> <li>Buttons</li> <li><a href="#">Links</a> (active, visited)</li> <li><a href="#">Related Links</a> (see all)</li> <li><a href="#">Learn More</a></li> <li><a href="#">End of Flow Actions</a></li> <li>Committal Actions (bid, etc.)</li> <li>Title Actions (in page, section, etc. titles)</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>Lists</li> <li>Paragraphs</li> <li>Italics</li> <li><a href="#">Bold/Emphasis</a></li> <li>Date/Time Format</li> <li>User IDs</li> <li>Trust Marketing</li> <li>Item Numbers</li> </ul> <p><b>Customization</b></p> <ul style="list-style-type: none"> <li><a href="#">Personalized Content</a></li> <li><a href="#">Hide/Show Elements</a></li> <li>Customize Display</li> </ul> <p><b>Help</b></p> <ul style="list-style-type: none"> <li>Contextual Help</li> <li>Help frame (Pilot)</li> <li>Help pages</li> <li>Help text</li> <li>Tutorials</li> <li>Screen Shots</li> </ul>




Pattern (engine)

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# Page Types (CMLP)




Leaf

Bulle (content column)




Suite (navigation column)

Bulle 2 column

## Overview

The Page Type framework (formerly know as Consistent Marketing & Landing Pages (CMLP)) outlines standard page templates for the eBay site.

### Why

Standard page templates provide a consistent user experience through:

- Standard navigational elements that give users orientation; let them know where they are, where they've been and where they're going.
- Consistent layouts eliminate the need to relearn page elements and placements.
- Consistent visual cues reinforce our brand.
- Maintenance of consistent elements is easier.
- Standard content areas make for easier refreshes and rotations.

### Use When

Use the Page Type framework to design the structure of all pages on the eBay site and to determine where common types of information should be located within each page.

- Use a **Leaf** layout when you need to present content and actions for a specific topic that are distributed across the site.
- Use a **Bulle** layout when you need to present content and actions for a specific topic that are distributed across the site AND personal or promotional content exists that may help users with the topic.
- Use a **Bulle** layout when you need to group several pages of related information about a topic.
- Use a **Bulle 2 column** layout when you need to group several pages of related information AND promotions for a topic.

### Support

**Information Architecture Research Report** (July, 2003, Google Consulting)  
**CMLP: What, What and How?** (April, 2004, Luke Wroblewski, Kate Armstrong)

### Examples






1 column (About eBay)

2 column (Sell Help)

Suite (New to eBay)

Bulle 2 column (Recent Finds)

### Contact

OL eBay UED-PPPS, UE Platform team

Powered by UED-Base. Please contact OL eBay UED-PPPS with any questions or comments.


Patten Engine Home

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# Pattern[engine]

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## Bold/Color Use on China Site

<b>Bold example</b>  这是加粗黑体	<b>Overview</b>  Bold is a method of distinguishing content. On the current China site, Bold is being used in the same way as U.S. Site. However, we noticed that bolding Chinese characters makes it hard to read due to the complicated strokes of the Chinese characters.  <b>Why</b> There are 2 types of Chinese characters: Simplified Chinese (just on China site) and Traditional Chinese (just on Taiwan site). Simplified Chinese has few strokes than Traditional Chinese. When bolding the characters, traditional Chinese is even harder to read due to the number of strokes each character has. Unlike English fonts, there are only 2 types of Chinese fonts that can be rendered on the browser.  <b>Use When</b> <ul style="list-style-type: none"> <li>It is OK to use Bold on China site. However, we should consider increasing spacing between each character when using bold. This should be handled in CSS stylesheet.</li> <li>Define letter spacing when using bold, for example: {letter-spacing: 1px}.</li> <li>Use line height to add space vertically, for example: {line-height: 1.2px}.</li> </ul>
<b>Bold and color example:</b>  中国历史  秦始皇 汉武帝 唐太宗 宋太祖  明成祖 清高宗 宣统帝 袁世凯 蒋介石 毛泽东 邓小平 江泽民 胡锦涛 习近平	<ul style="list-style-type: none"> <li>Use of color in addition to bolding the characters is another option to clarify the hierarchy of the content. However, we should NOT replace the current bold characters by only using color. A better alternative will be a combination of using color and bold at the same time and apply them in a flexible manner.</li> <li>An example is to apply both color and bold on a list of categories in order to distinguish the hierarchy.</li> </ul>

### China site CSS stylesheet

Related Design Patterns	
<b>Framework</b>	<b>Components</b>
Content Style Guide	Typography Detail

**Support Contacts**  
[US office: USD PQPS](#), US Platform team

Powered by UED Team. Please contact [US office: USD PQPS](#) with any questions or comments.

TOO MUCH?

ORACLE  
TECHNOLOGY NETWORK

PRODUCTS

Downloads

Documentation

Forums

Articles

Sample Code

Tutorials

PRODUCTS

Middleware

Developer Tools

Enterprise Management

Applications Technology

Extensions and Plugins

Products A-Z

TECHNOLOGIES

BI & Data Warehousing

Java

Linux

MySQL

Oracle

PHP

Security

Service-Oriented Architectures

XML

Web Services

Web System

Technology A-Z

COMMUNITY

Ask the Experts

Oracle A-Z

Regional Directories

Blogs

Partners

Technical Newsletter

Oracle Magazine

Oracle ID Books

Conferences

User Groups

Partner White Papers

SELECT COUNTRY

secure search

Technology Network

Page Footer

Link Options (Active State)

General Description

A page footer encloses the entire contents of an application page. A page footer is used to visually close the contents of a page, but also serves as an interactive high-level navigation. Table 1 Tab Bar and Global navigation, as well as give copyright information, application version information, and privacy statement link. The different page footer options are:

- Page Footer with Links of Table in Tab Bar, Global Buttons and Copyright and Privacy Information
- Page Footer with Links of Table in Tab Bar, Global Buttons and Copyright and Privacy Information
- Page Footer with Links of Table in Tab Bar, Global Buttons, Copyright Information and Application Version Information
- Page Footer with Links of Table in Tab Bar, Global Buttons and Copyright, Privacy Information and Application Version Information

Below is the contents of this guideline:

- General Footer Principles
- Specific Usage Recommendations for Each Footer Option
- Visual Specifications

Guideline Attributes

Spec Version # 3.1

Spec Contributors : Satya Bhat, Lisa Surface

UI Models : models

Example Products : all products

Related Guidelines : Page Templates, HTML, Frame Options, Intro-Application Navigation, Table (Level 1), Buttons (Global)

Privacy Statement, About Application

Interaction and Usage Specifications

General Footer Principles

- A footer is used to visually close or "contain" the contents of the entire application page.
- A footer must contain copyright information. The copyright should bear the date that the material was first created (or date of publication) – the date the material is first made available for distribution) and if the work is revised then the revision date too. For full details regarding copyright information and exact verbiage, see Oracle Legal Risk Site.
- A footer may contain a link to a privacy statement depending on the type of application that is being developed.
- A privacy statement is required for applications which are hosted by Oracle (such as Oracle Exchange or Oracle Sales Online). Typically, these internal applications allow anyone to enter data and request more information or services. Since Oracle needs to be informed of the user, Oracle legal department requires a privacy statement. The statement states the use of Oracle's position regarding privacy policies on gathering and using data.
- For internal applications, we tell to customers, and are configured with their own identity (many times hosted on their own site), a privacy statement link is not required as a default. Most likely, the customer who is hosting the site will provide their own privacy statement through their legal department. (Oracle does not provide the content for the statement).
- For external applications, the option for the customer to configure the footer to allow for a privacy statement may be applicable, but as a default, the privacy statement is not required.
- For Oracle's privacy statement content, each statement is written specifically for each product. For more details regarding privacy content relating to internal development purposes, contact Oracle Legal Department.

- If the footer does include the Privacy and About Application page links, then these links are persistent throughout all the page footers of the entire application.
- The footer has repeated links in Table in Tab Bar and Global Button navigation links ONLY. Because footer links are used to visually close the page, when a user has accessibility needs set to use a screen reader, the page footer links the table in the tab bar plus the global button navigation links will be removed. This way, the navigation will not be duplicated on each page by a screen reader.
- Page footer links only show from one line to many global buttons and the width of footer links exceed the width of the browser page.
- Page footer links are repeated in the footer to ensure the maximum spacing as specified in the Accessibility and Global Buttons guidelines.
- A tab or global button link in the footer is in "active" state (shown in bold) within the tab or global button's default page. I.e., the first page displayed when the tab or global button is clicked.

Specific Usage Recommendations for Each Footer Option

- Page Footer with Links of Table in Tab Bar and Global Button Navigation, and Copyright/Privacy Information
  - Use in applications that uses Table Level 1, Level 2, Level 3, and with all combinations
  - Good for long scrolling pages to denote bottom of page, as well as provide navigation links for high-level content or functional areas of application.

Visual Specifications

Below are image examples of the footer options available.

- Page Footer with Text Links of Table in Tab Bar and Global Button Navigation
  - Enabled Links of table and global buttons
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Regular
    - Font Size = 10pt CSS
    - Font Color = link brown: #800000 - underline of link is visible.
  - Available only in table and global buttons
    - This text style is displayed when the active page is either one of the table or a global area.
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Bold
    - Font Size = 10pt CSS
    - Font Color = black, #000000 - (The text should be a link)
  - Disabled text of table and global buttons
    - This text style is repeated with the tab or a global area is disabled.
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Regular
    - Font Size = 10pt CSS
    - Font Color = medium accent (gray): #999999
  - Separator Between Links of Footer
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Regular
    - Font Size = 10pt CSS
    - Character style: Hyphen = -
    - Font Color = black, #000000
    - Spacing Between Link and Separator Character = 2 spaces
- Copyright/Privacy Information/About Application Version
  - Copyright Information
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Regular
    - Font Size = 8pt CSS
    - Font Color = black, #000000 - this is not a link.
  - Privacy Statement link
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Regular
    - Font Size = 8pt CSS
    - Font Color = link brown: #800000 - underline of link is visible.
  - Privacy Statement (Active State)
    - Below is the style that should be used when a user is viewing the Privacy Statement page.
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Bold
    - Font Size = 10pt CSS
    - Font Color = black, #000000 - this is not a link.
  - About Application Version link
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Regular
    - Font Size = 8pt CSS
    - Font Color = link brown: #800000 - underline of link is visible.
  - About Application Version (Active State)
    - Below is the style that should be used when a user is viewing the About Application Version page.
    - Font Face = Arial, Helvetica, Sans Serif
    - Font Style = Bold
    - Font Size = 10pt CSS
    - Font Color = black, #000000 - this is not a link.
- Alignment
  - The line of footer links (tab and global button links) should be centered based on the browser window width.
  - Below the footer tab and global button links are the Copyright and Privacy Statement links. Copyright is left aligned and Privacy Statement is right aligned on the same line.
  - About Application Version is left aligned below the Copyright information.

Example of Page Footer with Copyright Information, About Application and Privacy Page Links

Home | Table Link 1 | Table Link 2 | Table Link 3 | Return to Footer | Legal | Preferences | Help

Copyright 2002 Oracle Corporation. All rights reserved.

About Product Name version 3.0.0

about application

copyright information - justified left

table footer - centered

2 spaces/2 2 spaces

privacy link - justified right

Example of Page Footer with Disabled Links

Home | Table Link 1 | Table Link 2 | Table Link 3 | Return to Footer | Legal | Preferences | Help

Copyright 2002 Oracle Corporation. All rights reserved.

About Product Name version 3.0.0

Example of Page Footer with only Copyright Information

Home | Table Link 1 | Table Link 2 | Table Link 3 | Return to Footer | Legal | Preferences | Help

Copyright 2002 Oracle Corporation. All rights reserved.

Example of Page Footer when Viewing Privacy Page: Privacy Statement is Active

Home | Table Link 1 | Table Link 2 | Table Link 3 | Table Link 4 | Table Link 5 | Table Link 6 | Table Link 7 | Table Link 8

Return to Footer | Legal | Preferences | Help

Privacy Statement

Copyright 2002 Oracle Corporation. All rights reserved.

About Product Name version 3.0.0

Note: This example shows individual button footer links wrapping to 2 lines. Footer links wrapping is based on browser window width.

Example of Page Footer with Copyright Information and About Application Version Link

Home | Table Link 1 | Table Link 2 | Table Link 3 | Return to Footer | Legal | Preferences | Help

Copyright 2002 Oracle Corporation. All rights reserved.

About Product Name version 3.0.0

Open/Closed Issues

Open Issues

None

Closed Issues

11:00 - repeated links are removed in accessibility mode.

15:00 - graphical footer has been phased out.

05:27:00 - text footer should be used for all applications that have level 1 tabs.

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**DOES IT WORK  
FOR CLIENTS?**

**FOCUS ON  
SOLUTIONS NOT  
RULES**

**ENCOURAGES GOOD  
BEHAVIOR**

**REUSABLE**



# SHARING BEST PRACTICES

Web Design patterns	
<b>Site Types</b> <ul style="list-style-type: none"> <li>• <a href="#">Artist Site</a></li> <li>• <a href="#">Automotive Site</a></li> <li>• <a href="#">Branded Promo Site</a></li> <li>• <a href="#">Campaign Site</a></li> <li>• <a href="#">Commerce Site</a></li> <li>• <a href="#">Community Site</a></li> <li>• <a href="#">Corporate Site</a></li> <li>• <a href="#">Multinational Site</a></li> <li>• <a href="#">Museum Site</a></li> <li>• <a href="#">My Site</a></li> <li>• <a href="#">News Site</a></li> <li>• <a href="#">Portal</a></li> <li>• <a href="#">Web-based Application</a></li> </ul>	<b>User Experiences</b> <ul style="list-style-type: none"> <li>• <a href="#">Community Building</a></li> <li>• <a href="#">Fun</a></li> <li>• <a href="#">Information Seeking</a></li> <li>• <a href="#">Learning</a></li> <li>• <a href="#">Shopping</a></li> </ul>
<b>Navigation</b> <ul style="list-style-type: none"> <li>• <a href="#">Bread crumbs</a></li> <li>• <a href="#">Directory</a></li> <li>• <a href="#">Doormat Navigation</a></li> <li>• <a href="#">Double tab</a></li> <li>• <a href="#">Faceted Navigation</a></li> <li>• <a href="#">Fly-out Menu</a></li> <li>• <a href="#">Header-less Menu</a></li> <li>• <a href="#">Icon Menu</a></li> <li>• <a href="#">Image Browser</a></li> <li>• <a href="#">Main Navigation</a></li> <li>• <a href="#">Map Navigator</a></li> <li>• <a href="#">Meta Navigation</a></li> <li>• <a href="#">Minesweeping</a></li> <li>• <a href="#">Overlay Menu</a></li> <li>• <a href="#">Repeated Menu</a></li> <li>• <a href="#">Retractable Menu</a></li> <li>• <a href="#">Scrolling Menu</a></li> <li>• <a href="#">Shortcut Box</a></li> <li>• <a href="#">Split Navigation</a></li> <li>• <a href="#">Teaser Menu</a></li> <li>• <a href="#">Trail Menu</a></li> </ul>	<b>Searching</b> <ul style="list-style-type: none"> <li>• <a href="#">Advanced Search</a></li> <li>• <a href="#">FAQ</a></li> <li>• <a href="#">Help Wizard</a></li> <li>• <a href="#">Search Area</a></li> <li>• <a href="#">Search Tips</a></li> <li>• <a href="#">Search Results</a></li> <li>• <a href="#">Simple Search</a></li> <li>• <a href="#">Site Index</a></li> <li>• <a href="#">Site Map</a></li> <li>• <a href="#">Topic Pages</a></li> </ul>
<b>Managing Collections</b> <ul style="list-style-type: none"> <li>• <a href="#">Collector</a></li> <li>• <a href="#">In-place Replacement</a></li> <li>• <a href="#">List builder</a></li> <li>• <a href="#">List Sorter</a></li> <li>• <a href="#">Overview by Detail</a></li> <li>• <a href="#">Parts Selector</a></li> <li>• <a href="#">Table Filter</a></li> <li>• <a href="#">Table Sorter</a></li> <li>• <a href="#">View</a></li> </ul>	<b>Page Elements</b> <ul style="list-style-type: none"> <li>• <a href="#">Customizable Window</a></li> <li>• <a href="#">Constrained Input</a></li> <li>• <a href="#">Country Selector</a></li> <li>• <a href="#">Date Selector</a></li> <li>• <a href="#">Details on Demand</a></li> <li>• <a href="#">Footer Bar</a></li> <li>• <a href="#">Forum</a></li> <li>• <a href="#">Home Link</a></li> <li>• <a href="#">Hotlist</a></li> <li>• <a href="#">Language Selector</a></li> <li>• <a href="#">Message Ratings</a></li> <li>• <a href="#">News box</a></li> <li>• <a href="#">News ticker</a></li> <li>• <a href="#">Outgoing Links</a></li> <li>• <a href="#">Poll</a></li> <li>• <a href="#">Send-a-Friend Link</a></li> <li>• <a href="#">Thumbnail</a></li> <li>• <a href="#">To-the-top Link</a></li> </ul>

USER NEEDS TO
<b>▼ NAVIGATE</b> <ul style="list-style-type: none"> <li><a href="#">Breadcrumbs</a></li> <li>► <a href="#">Faceted Navigation</a></li> <li><a href="#">Fly-out Menus</a></li> <li><a href="#">Horizontal Bar</a></li> <li><a href="#">Hub and Spoke</a></li> <li><a href="#">Left Navigation</a></li> <li>▼ <a href="#">Links</a> <ul style="list-style-type: none"> <li><a href="#">Alphanumeric Filter Links</a></li> </ul> </li> <li>▼ <a href="#">Tabs</a> <ul style="list-style-type: none"> <li><a href="#">Module Tabs</a></li> <li><a href="#">Navigation Tabs</a></li> </ul> </li> <li>▼ <b>EXPLORE DATA</b> <ul style="list-style-type: none"> <li><a href="#">Auto Complete</a></li> <li><a href="#">Calendar Picker</a></li> </ul> </li> <li>▼ <a href="#">Pagination</a> <ul style="list-style-type: none"> <li><a href="#">Item Pagination</a></li> <li><a href="#">Search Pagination</a></li> </ul> </li> <li>► <b>ORGANIZE DATA</b></li> <li>▼ <b>GIVE FEEDBACK</b> <ul style="list-style-type: none"> <li>▼ <a href="#">Ratings &amp; Reviews</a> <ul style="list-style-type: none"> <li><a href="#">Architecture Review</a></li> <li><a href="#">Rating an Object</a></li> <li><a href="#">Writing a Review</a></li> </ul> </li> </ul> </li> <li>► <b>PERFORM ACTION</b></li> <li>▼ <b>CUSTOMIZE</b> <ul style="list-style-type: none"> <li>▼ <a href="#">Drag and Drop</a> <ul style="list-style-type: none"> <li><a href="#">Drag and Drop Modules</a></li> <li><a href="#">Drag and Drop Objects</a></li> </ul> </li> <li>► <a href="#">In Page Editing</a></li> <li><a href="#">Sliders</a></li> </ul> </li> </ul>

APPLICATION NEEDS TO
<b>▼ CALL ATTENTION</b> <ul style="list-style-type: none"> <li>► <a href="#">Help</a></li> <li>▼ <a href="#">Invitation</a> <ul style="list-style-type: none"> <li><a href="#">Cursor Invitation</a></li> <li><a href="#">Drop Invitation</a></li> <li><a href="#">Tool Tip Invitation</a></li> <li><a href="#">Hover Invitation</a></li> </ul> </li> <li><a href="#">Jump to Details</a></li> <li><a href="#">Progress Indication</a></li> <li>▼ <a href="#">Transition</a> <ul style="list-style-type: none"> <li><a href="#">Animate</a></li> <li><a href="#">Brighten</a></li> <li><a href="#">Collapse</a></li> <li><a href="#">Cross Fade</a></li> <li><a href="#">Dim</a></li> <li><a href="#">Expand</a></li> <li><a href="#">Fade In</a></li> <li><a href="#">Fade Out</a></li> <li><a href="#">Self-Healing</a></li> <li><a href="#">Slide</a></li> <li><a href="#">Spotlight</a></li> </ul> </li> <li>▼ <b>IMPROVE READABILITY</b> <ul style="list-style-type: none"> <li>▼ <a href="#">Ratings &amp; Reviews</a> <ul style="list-style-type: none"> <li><a href="#">Review Architecture</a></li> </ul> </li> </ul> </li> <li>► <b>GROUP RELATED ITEMS</b></li> <li>▼ <b>ORGANIZE SCREEN/PAGE</b> <ul style="list-style-type: none"> <li><a href="#">Page Grids</a></li> <li>► <a href="#">Interface Panes</a></li> <li><a href="#">Page Layout</a></li> </ul> </li> </ul>

## Designing Interfaces

*Patterns for Effective Interaction Design*

### Overview

About the Book  
Introduction  
About Patterns

### Organizing the Content

Two-Panel Selector  
One-Window Drilldown  
Wizard  
Extras On Demand  
Intriguing Branches

### Getting Around

Clear Entry Points  
Global Navigation  
Color-Coded Sections  
Animated Transition

### Organizing the Page

Visual Framework  
Center Stage  
Titled Sections  
Card Stack  
Closable Panels  
Movable Panels  
Diagonal Balance  
Responsive Disclosure  
Responsive Enabling  
Liquid Layout

### Commands and Actions

Action Panel  
Smart Menu Items  
Progress Indicator  
Multi-Level Undo  
Command History

### Showing Complex Data

Overview Plus Detail  
Row Striping  
Sortable Table  
Jump to Item  
Cascading Lists  
Tree-Table

### Getting Input From Users

Forgiving Format  
Fill-in-the-Blanks  
Input Hints  
Input Prompt  
Dropdown Chooser  
Illustrated Choices  
Good Defaults

### Builders and Editors

Edit-in-Place  
Smart Selection  
Composite Selection  
One-Off Mode  
Constrained Resize

### Making It Look Good

Deep Background  
Few Hues Many Values  
Corner Treatments





## FINDING THE RIGHT PATTERN...

**USER-CENTERED  
GOALS**

**DESIGN  
CONSTRAINTS**

**RELATED PATTERNS**

## Interaction Patterns

### User

- + needs to navigate
- + needs to enter
- + needs to explore data that is
- + needs guidance/ feedback
- + needs to manipulate an object
- + needs to issue a command
- + needs to customize
- + needs to organize information structure
- + needs to compare data

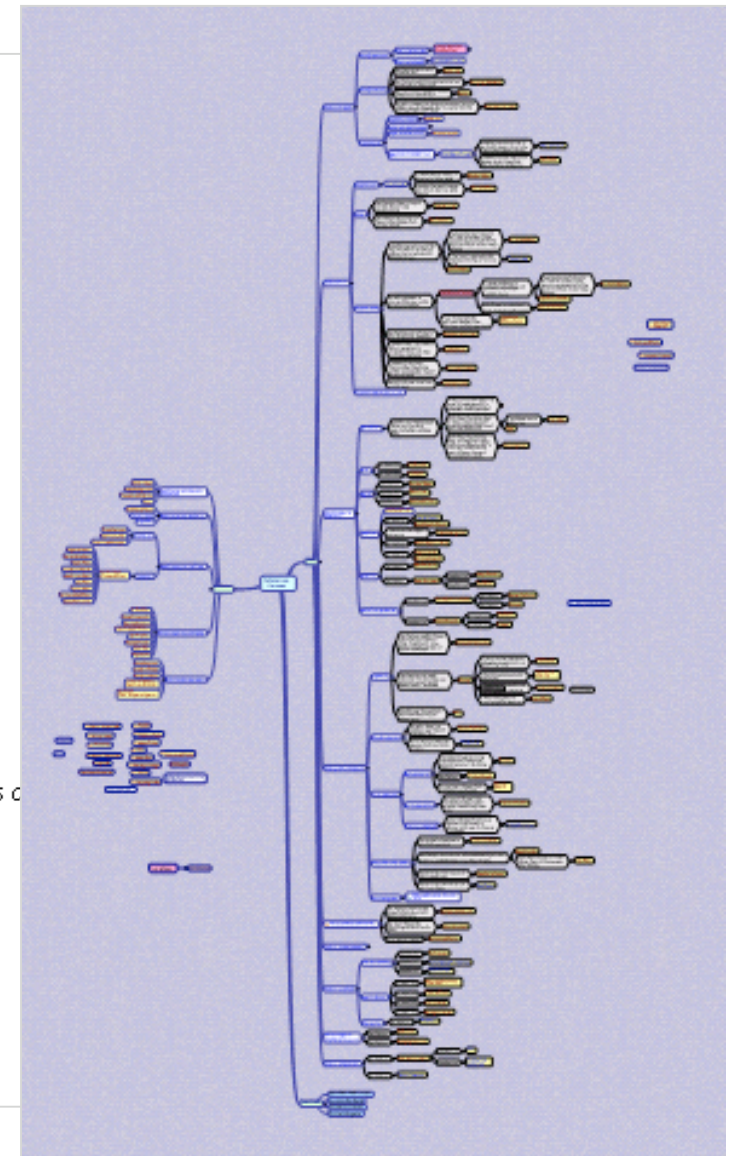
### Designer

- + needs to call out important information
- + needs to improve readability
- + needs to group related items
- + needs to organize screen/page
- + has limited screen space

## Interaction Patterns

### User

- needs to navigate
  - through a process
    - that is step-by-step
      - Process Workflow (Step-by-Step)
        - use when the steps are on different pages/screens
          - if a desktop application
            - Wizard
          - if a web site or web application
            - Process Bar
        - use when all of the steps are on a single page
          - and the steps are disclosed piece by piece
            - Progressive Disclosure
              - and all steps are shown at once on the page
                - \*List of Steps
          - use when you need to guide the user through a series of steps
            - \*Trouble Shooter
              - + that is automated
  - + through content
  - + around a site
- + needs to enter
- + needs to explore data that is
- + needs guidance/ feedback





# TOP, RIGHT or LEFT ALIGNED FORM LABELS?

# Top Aligned Labels



- When data being collected is familiar
- Minimize time to completion
- Require more vertical space
- Spacing or contrast is vital to enable efficient scanning
- Flexibility for localization and complex inputs

**Vertical Labels**

**Label**

**Longer Label**

**Even Longer Label**

**One More Label**  
☒ Value 1  
☐ Value 2


**Primary Action**

**Advantage:**  
Adjacent Label and corresponding Input field

**Advantage:**  
Rapid Processing

**Disadvantage:**  
Increased vertical space

# Top-aligned Labels

[Customer Service](#)

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## Enter Your Information (Already registered? [Sign In](#))

---

Please enter your U.S. address and email address to create your account.

**First Name**  **Last Name**

**Street Address**

**City**

**State**  **ZIP Code**  **Country or Region**  U.S. addresses only, please.

**Phone Number**  
(  )  -  ext.:  Needed if there are questions about your order.

---

A valid email address is required to communicate with you.

**Email address**

**Re-enter Email address**

**Create Password**  **How secure is your password?**   
Must be at least 6 characters, including a number or special character. Example: eXpr3\$\$ Check your password strength - the higher, the better.

**Re-enter Password**

---

By clicking "Register" you agree to eBay Express's [privacy policy](#) and [terms of use](#). You also agree to be contacted for marketing purposes, but you can change your notification preferences in your account.

---

# Right Aligned Labels



- Clear association between label and field
- Requires less vertical space
- More difficult to just scan labels due to left rag
- Fast completion times

**Right-Justified Horizontal Labels**

Label

Longer Label

Even Longer Label

One More Label ☒ Value 1  
☐ Value 2

**Primary Action**

**Disadvantage:**  
Reduced readability

**Advantage:**  
Adjacent Label and corresponding Input field

**Advantage:**  
Reduced vertical space

Label

Longer Label

Even Longer Label

One More Label ☒ Value 1  
☐ Value 2

**Primary Action**

# Right-aligned labels

This person's name will appear with their messages, comments, and files and whenever they are responsible for a to-do or milestone.

**First Name:**

**Last Name:**

**Email:**

Choose a user name and password so that this person can log in (they can change this later).

**User Name:**

**Password:**

The rest is optional, but some contact info will come in handy when you want to take your communication offline.

**Title:**

**Office #:**  **ext:**

**Mobile #:**

**Fax #:**

**Home #:**

**IM Name:**  **IM Service:**

---

[Save changes](#)

# Left Aligned Labels



- When data required is unfamiliar
- Enables label scanning
- Less clear association between label and field
- Requires less vertical space
- Changing label length may impair layout

**Left-Justified Horizontal Labels**

Label:

Longer Label:

Even Longer Label:

One More Label: ☒ Value 1 ☐ Value 2

**Primary Action**

**Disadvantage:**  
Adjacency of Label and corresponding Input field

**Advantage:**  
Easy to scan labels

Label:

Longer Label:

Even Longer Label:

One More Label: ☒ Value 1 ☐ Value 2

**Primary Action**

**Advantage:**  
Reduced vertical space



## Left-aligned labels

Edit Estimate Book

**WEVV Book Type: DMA**

Book Name

May05 EST (P)

Project Year

2005

Month

May

Enabled for

☐ Research

☐ Sales

Type

☐ 4 Bk. Avg.

☐ Custom Book

Share Book

Feb-04

Put Book

Feb-03

Index

1

Description

(Feb-04/Feb-03)

☐ Update default book formula

☐ If PAV exists, use PAV to build SHR book

☐ Delete number for Not Selected DP

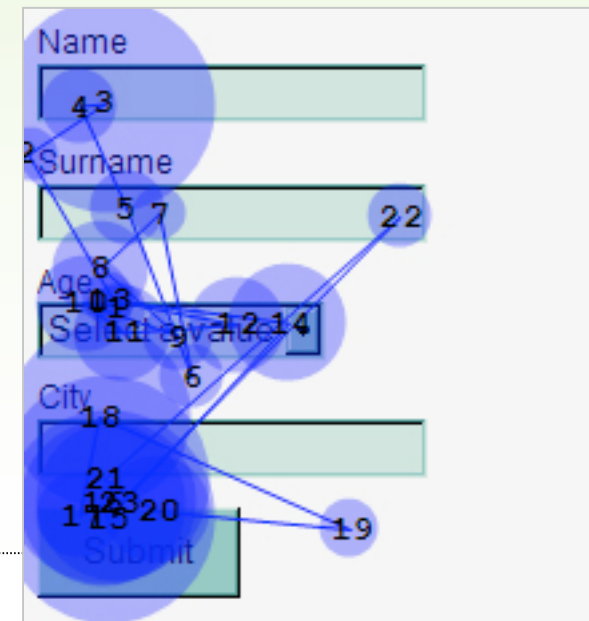
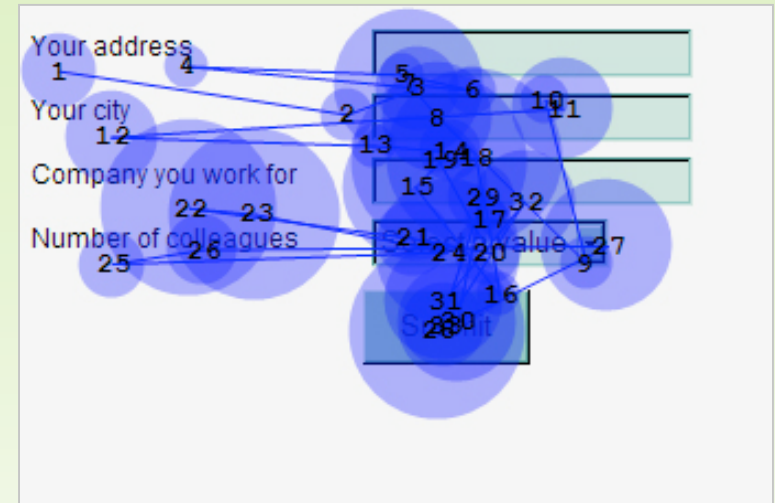
Update

Cancel

# Eye-tracking Data



- **July 2006 study by Matteo Penzo**
- **Left-aligned labels**
  - Easily associated labels with the proper input fields
  - Excessive distances between labels inputs forced users to take more time
- **Right-aligned labels**
  - Reduced overall number of fixations by nearly half
  - Form completion times were cut nearly in half
- **Top-aligned labels**
  - Permitted users to capture both labels & inputs with a single eye movement
  - Fastest completion times





## BEST PRACTICE

- For reduced completion times & familiar data input: top aligned
- When vertical screen space is a constraint: right aligned
- For unfamiliar, or advanced data entry: left aligned



## USER

- Provide Information: want to register, make a purchase, etc.
- Finish Quickly: no one likes filling in forms

## DESIGNER

- Maximize completion rates
- Gather known data: name, address, credit card
- Use a minimum amount of vertical screen real estate

**CONSIDER: RIGHT-ALIGNED LABELS**



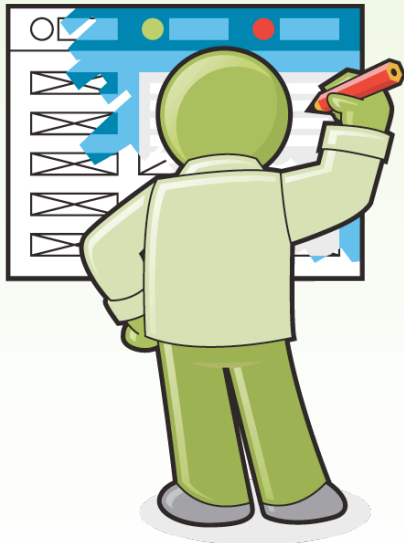
## IN THE FUTURE...

- Design Patterns as Web Services
- Design Patterns integrated into toolkits
- Design Pattern Library Integration

# For more information...



YAHOO!



- **Functioning Form**
  - [www.lukew.com/ff/](http://www.lukew.com/ff/)
- **Yahoo! Design Patterns**
  - [developer.yahoo.com/ypatterns](http://developer.yahoo.com/ypatterns)
- **Drop me a note**
  - [luke@lukew.com](mailto:luke@lukew.com)