

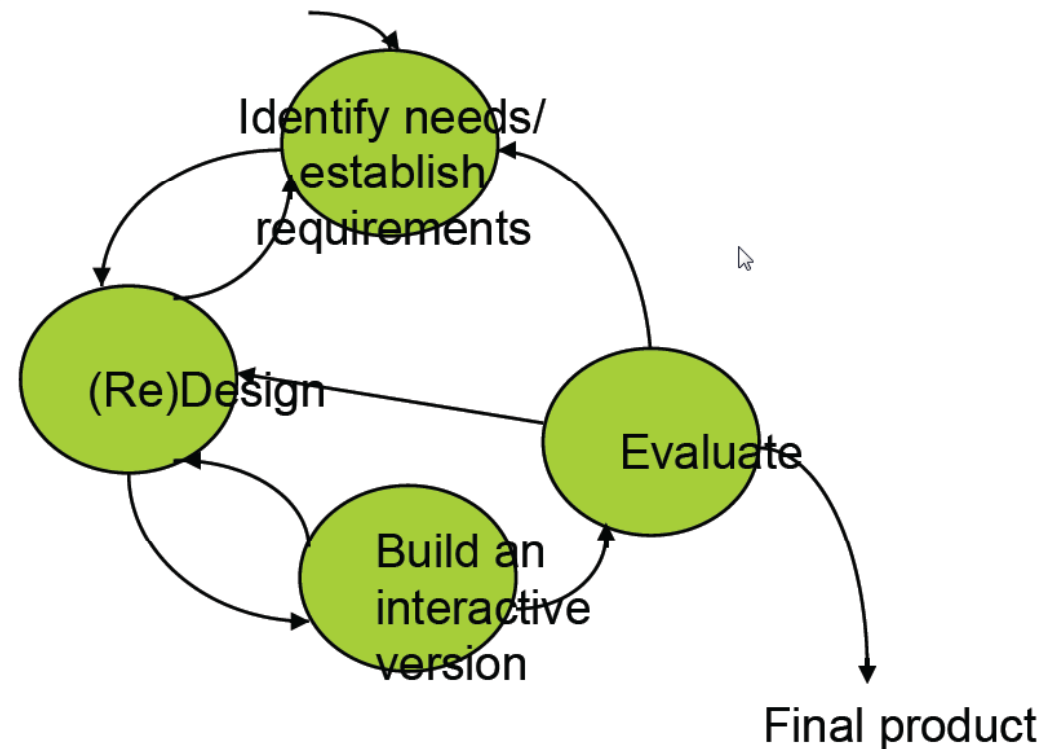


# Information Architecture

Designing .....the Content

# User-centred design process

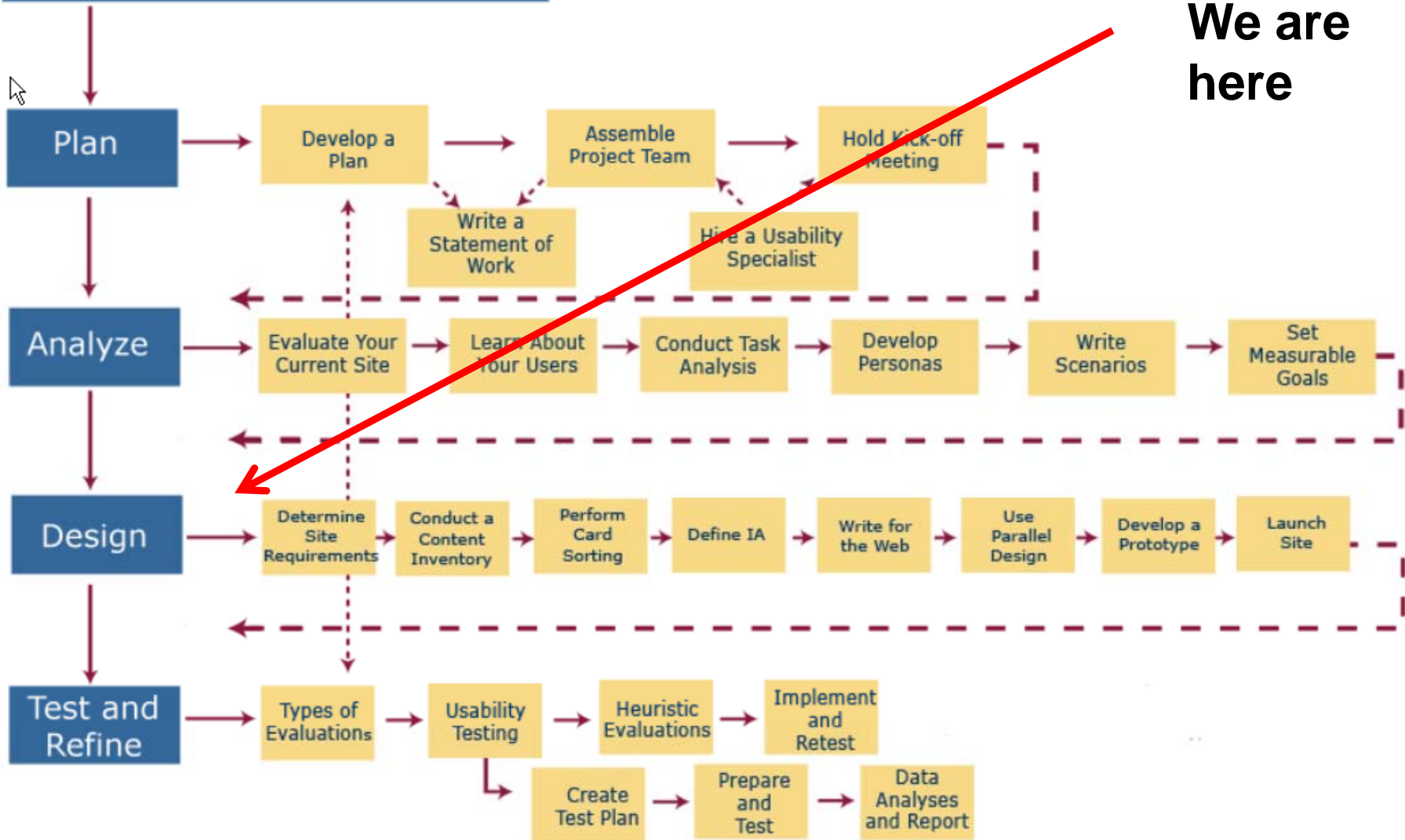
1. Identify needs and establish requirements
2. Generate alternative solutions/designs
3. Build interactive prototypes that can be communicated and assessed
4. Evaluating design



User centred design

# The UCD Methodology

## Step-by-Step Usability Guide





# Our Next Steps

## ✦ Analysis: User Requirements Analysis

- Task Analysis → Functionality
- Content requirements → Content

## ✦ Design: define Information Architecture (structure, navigation, labeling), visual design, prototypes, generate alternatives, evaluate

## ✦ Test and Refine

## ✦ Implementation

## ✦ Final Evaluation



# Information Architecture



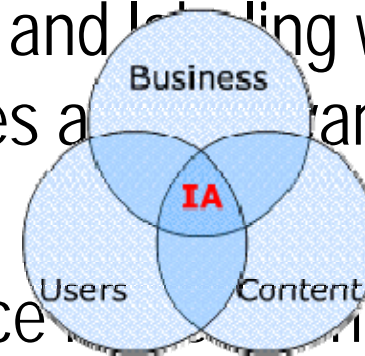
## Overview

- What is information architecture
- Information can be arranged and accessed in many ways
- Design process for information architectures
- Information architecture for interactive systems
- Information architecture for ubiquitous systems

# What information architecture is about

## ✦ Definition

1. The structural design of shared information environments.
2. The art and science of organizing and labeling web sites, intranets, online communities and software to support usability and findability.
3. An emerging community of practice bringing principles of design and architecture to the digital landscape.





# The Task of Information Architecture

- Organizing, labeling, and providing access to information is a basic IA function

- Challenges

  - Classification is based on language which is ambiguous

  - Heterogeneity

    - A collection of unrelated elements with different levels of granularity

    - Web content tends to be heterogeneous

    - Mixed content should not be at the same level of a hierarchy

  - Idiosyncrasy

    - People and have unique ways to organize information





# Organizational Schemes

- Organizational schemes define shared characteristics of content

- Influence logical groupings of content

- We routinely use a range of schemes (phone book, supermarket...)

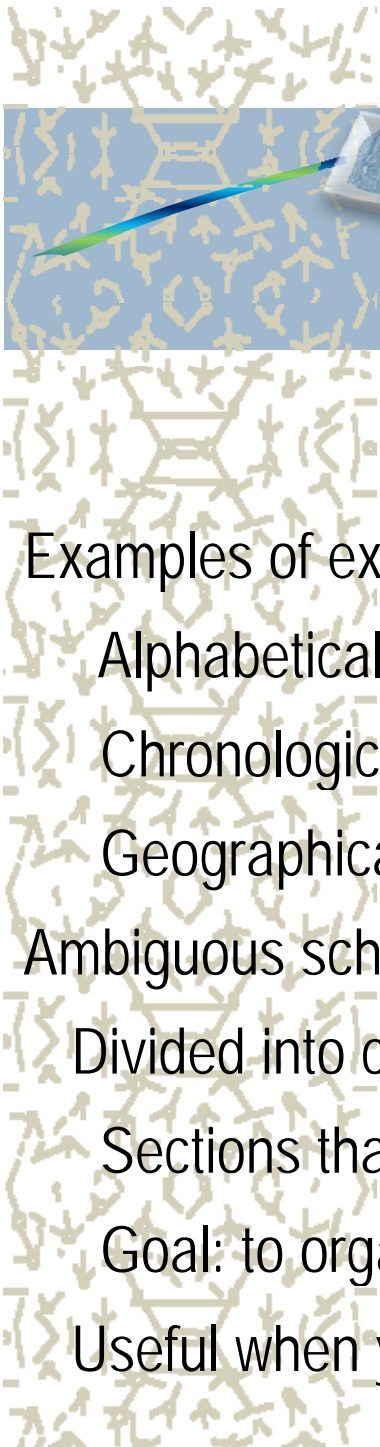
- Organizational structure is the explicit definitions of relationships among content groups

- Types of schemes

- Exact schemes

- Well defined and mutually exclusive sections

- Good for known-item searching if you are looking for the item around which the scheme is organized



Examples of exact schemes

Alphabetical

Chronological

Geographical

Ambiguous schemes

Divided into categories that are not mutually exclusive

Sections that may overlap

Goal: to organize the information in intellectually meaningful ways

Useful when you are not sure what you are looking for



## Information is arranged in many ways

- ✦ Date
- ✦ Alphabetical
- ✦ Geography
- ✦ Topic
- ✦ Hierarchy
- ✦ Faceted
- ✦ Organic
- ✦ Combination
  
- ✦ Good IA allows access to information in many ways



- May 7, 2004
- News Home
- Breaking News
- State News
- The Nation
- The World
- The Other Side
- Audio News
- Multimedia
- Cartoons
- Other Sections
- Business
- Technology
- Entertainment
- Travel
- body+soul
- People
- Horoscopes

search

The Web

Australia

Go

powered by Google

## BREAKING NEWS



### ACTU welcomes baby bonus

13:17 (AEST) THE ACTU has welcomed a Budget leak revealing the federal government's baby bonus will be scrapped.

### Hizbollah attacks Israeli positions

13:05 (AEST) HIZBOLLAH attacked Israeli army positions in the disputed Shebaa Farms area today, where the Israeli, Lebanese and Syrian borders meet.

### Brain damaged teen sues driver

12:40 (AEST) A BRAIN-damaged teenager has successfully sued a woman who was driving a car that hit him when he was two years old.

### Drug bust claims 100+ arrests

12:35 (AEST) MORE than 100 people, including members of a motorcycle gang, have been charged with drug offences following a widespread operation, Queensland police said today.

### Bail refused for HIV infector

12:25 (AEST) A SYDNEY man accused of deliberately infecting two foreign tourists with the HIV virus has been refused bail "for the protection of the community".

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or enter artist/album/song to search lyrics for:

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[FAITH EVANS](#)

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[FAITH NO MORE](#)

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# By geography

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## Destinations

1 choose a region

2 choose a country

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Where do you want to go



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[Finland](#), [France](#), [Germany](#), [Ireland](#),  
[Italy](#), [Netherlands](#), [Norway](#), [Spain](#),  
[Sweden](#), [Switzerland](#), [UK](#), [Others](#)

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- Rulings & law
- Guidelines & policies
- Tax topics explained
- Your industry type

## Welcome to the Australian Taxation Office website

-  Beware of promoters offering [early access to super](#).
-  [Details](#) on fake emails claiming to be from the Tax Office.

**Administering tax**  
[Commissioner speaks](#) on transparency, accountability and compliance. Access the [Practice Statement](#) on family trust elections. Do your BAS online and more at our new [Business Portal](#). More in our [media release](#).

**Super Co-contributions**  
[How](#) to give your super a helping hand.

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 Issues we face and [our program](#) to address them. How we are [making it easier to comply](#).
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- 中国教育合作项目

## ABOUT

- The University
- UC Brisbane Campus
- Courses
- Research
- Learning & Teaching
- News & Events

## HIGHLIGHTS

### Callista - New Student Management System - Live on 27th April 2004.

Callista hotline: ext. 5888

### Playing possum in the name of the environment.

UC's Landscape Architecture students conduct their annual Possum Art exhibition...[More](#)

### UC student propelled into epicentre of US politics.

An international exchange program takes UC's Heather Rietdyk to Washington DC.

## DIRECT LINKS

- Divisions, Schools & Centres
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### Other categorization schemes

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# Ka-Ching

Make money selling on eBay



# SociallyConstructedNavigation

IAwiki RecentChanges Site Index Backlinks Preferences Search:

*Refactored from IAwikiIA...*

Taking my cue from the [YaywastakenReferrerTracking](#) thingy, I'm developing a variation that lets any given page reveal which pages it refers to, based on referrers on the linked pages. The first step is already in place, but the interesting things happen when a given page can get to see where the pages it links to links to.

Example: say page "A" links to page "B" links to page "C", and say every visit to "C" that came from "A" via "B" is noted and available for "A" to reveal on it's own page, thus making a direct link to "C". Throw into the mix the capability for any page to also reveal the popular referrers to itself and things get more interesting.

Turns out the technical matters are pretty straightforward.

In [StevenJohnson's EmergenceBook](#), one of the fundamental principles for emergent systems is "pay attention to your neighbors". The *really* interesting thing is that if a unit modifies it's behaviour based on input from a neighbor, *then* other neighbors can also be affected even though they are not immediate neighbors of the first unit. Imagine a game of neighborhood gossip: each neighbor listening for gossip and passing on the juicier items ... the juiciest tidbits will get passed from neighbor to neighbor, like a game of chinese whispers, rippling out through the community, and travelling far from it's origin.

The really interesting stuff happens when bits of information can travel beyond their immediate loci of happenstance. Messages travel.

Ads by Google

## Javascript

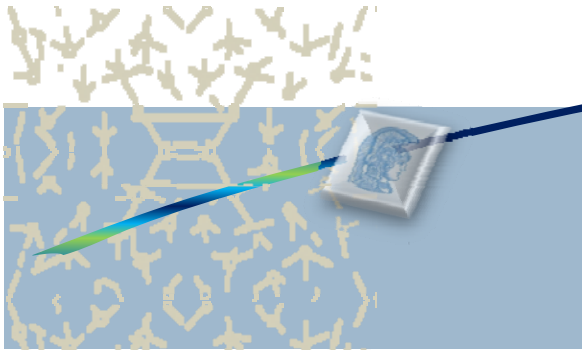
Get the facts on Windows and Linux Discover Windows Server System [www.microsoft.com/gettt](http://www.microsoft.com/gettt)

## Easy Web Log Analyzer

123LogAnalyzer offers detailed web traffic analysis and reporting tool <http://www.123loganalyz>

## Tip: Internet Monitoring

Record visited web sites, email, keyboard, passwords, chat and more [www.ActMon.com](http://www.ActMon.com)



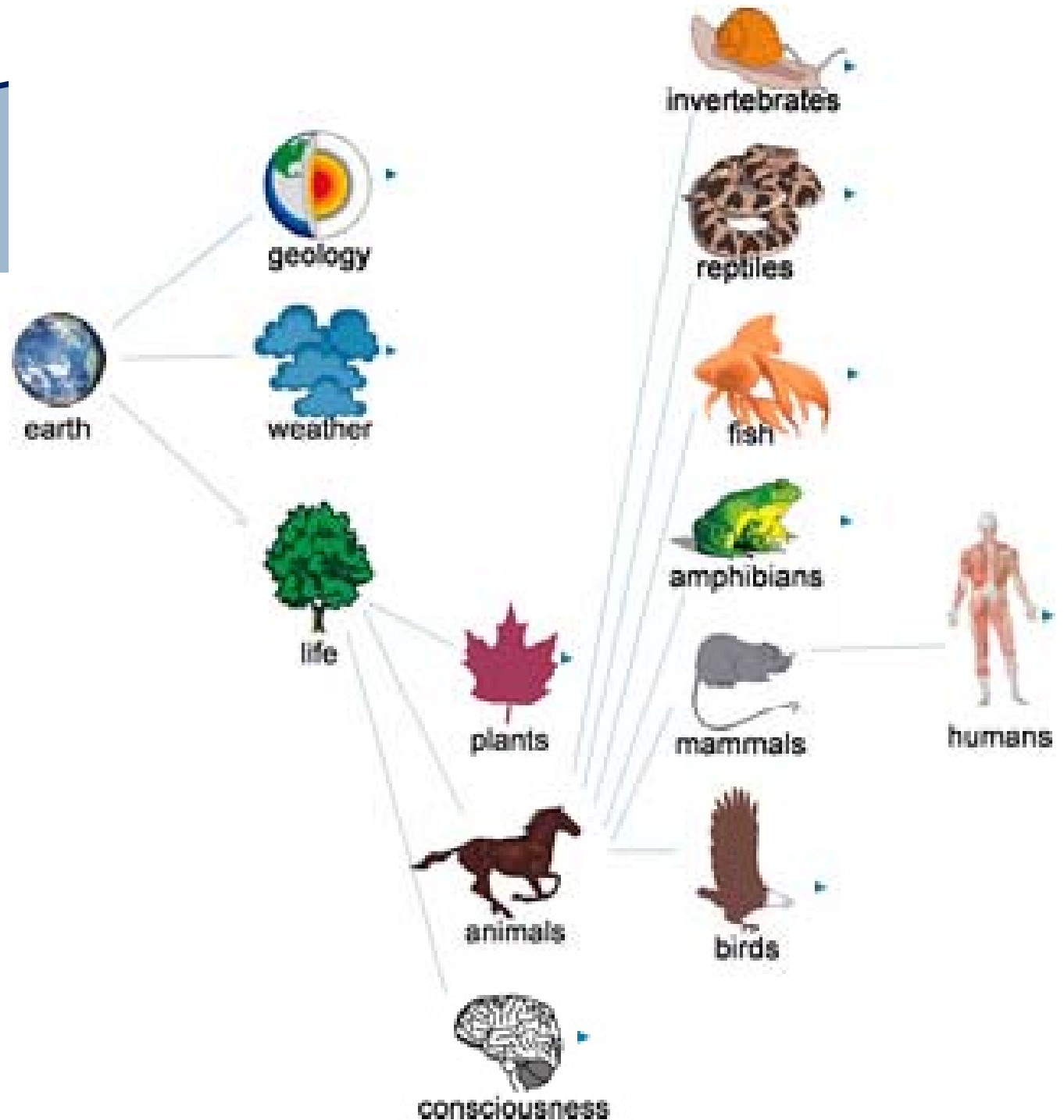
Organizational schemes

Metaphor

This is risky

Hybrids

Risky because it can be confusing



# Hierarchies

Balancing relationship between exclusivity and inclusiveness

Cross listing is possible in a "polyhierarchical taxonomy"

Listing items in more than one category

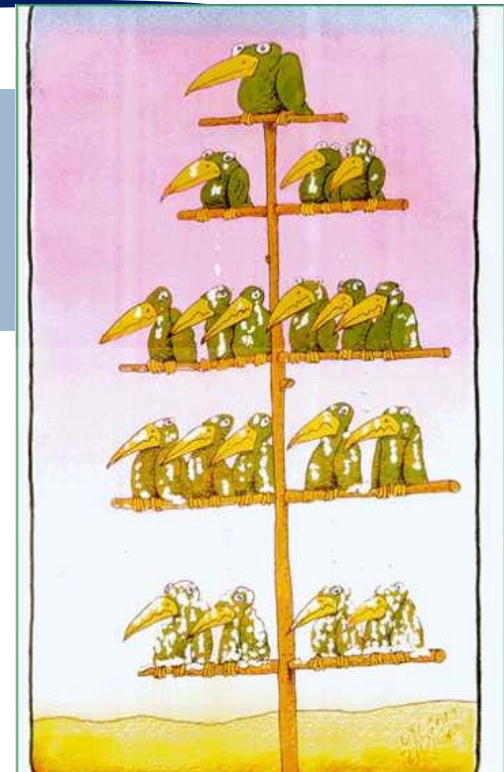
Balancing breadth and depth

Three main options

Narrow and deep

Broad and shallow

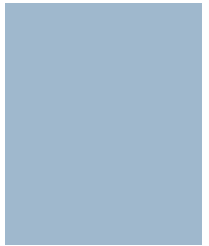
The choice should be determined by the needs of the major stakeholders





# Hierarchical: Narrow and deep

Hierarchical:  
Narrow and deep

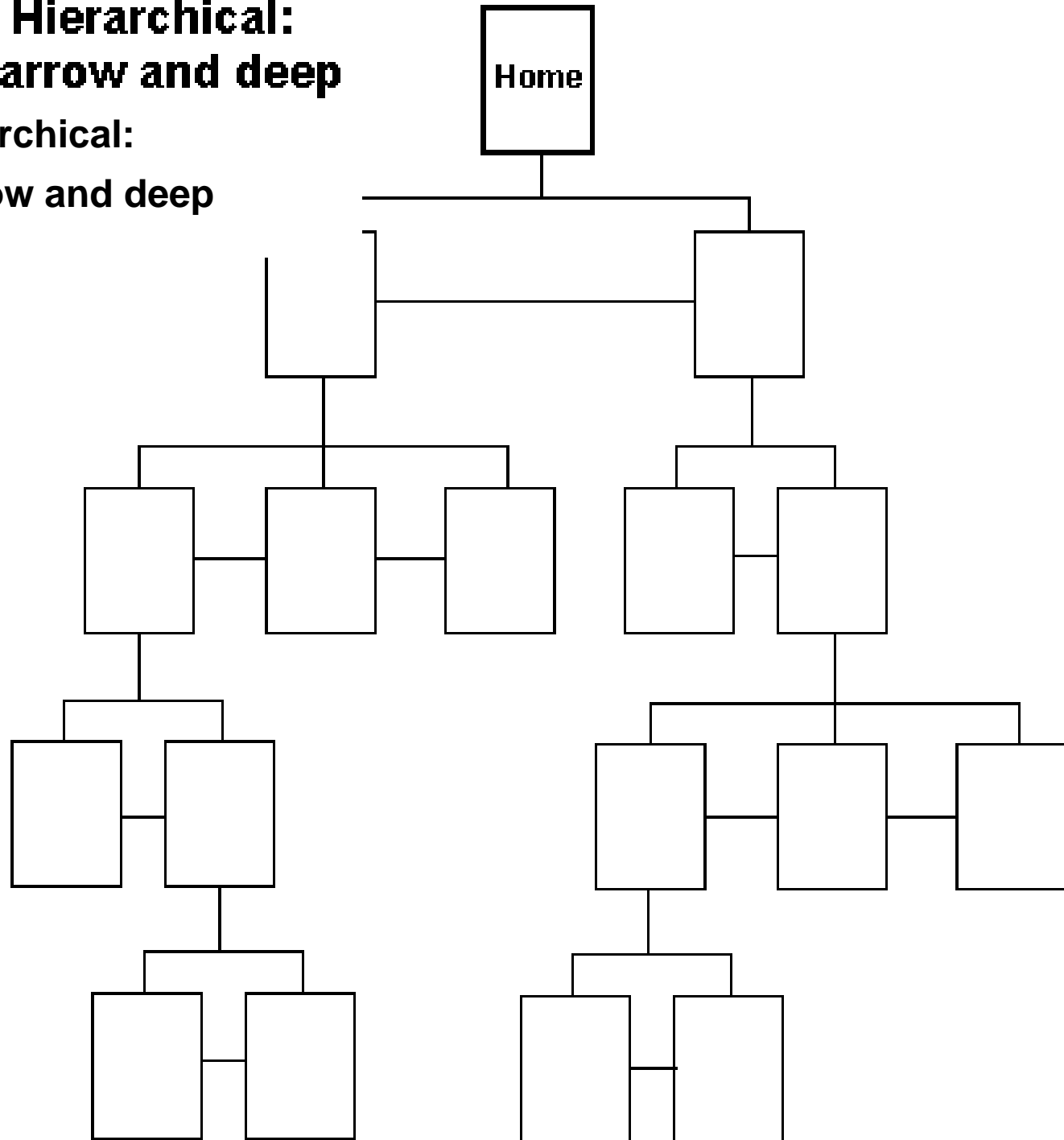


Level 1

Level 2

Level 3

Level 4

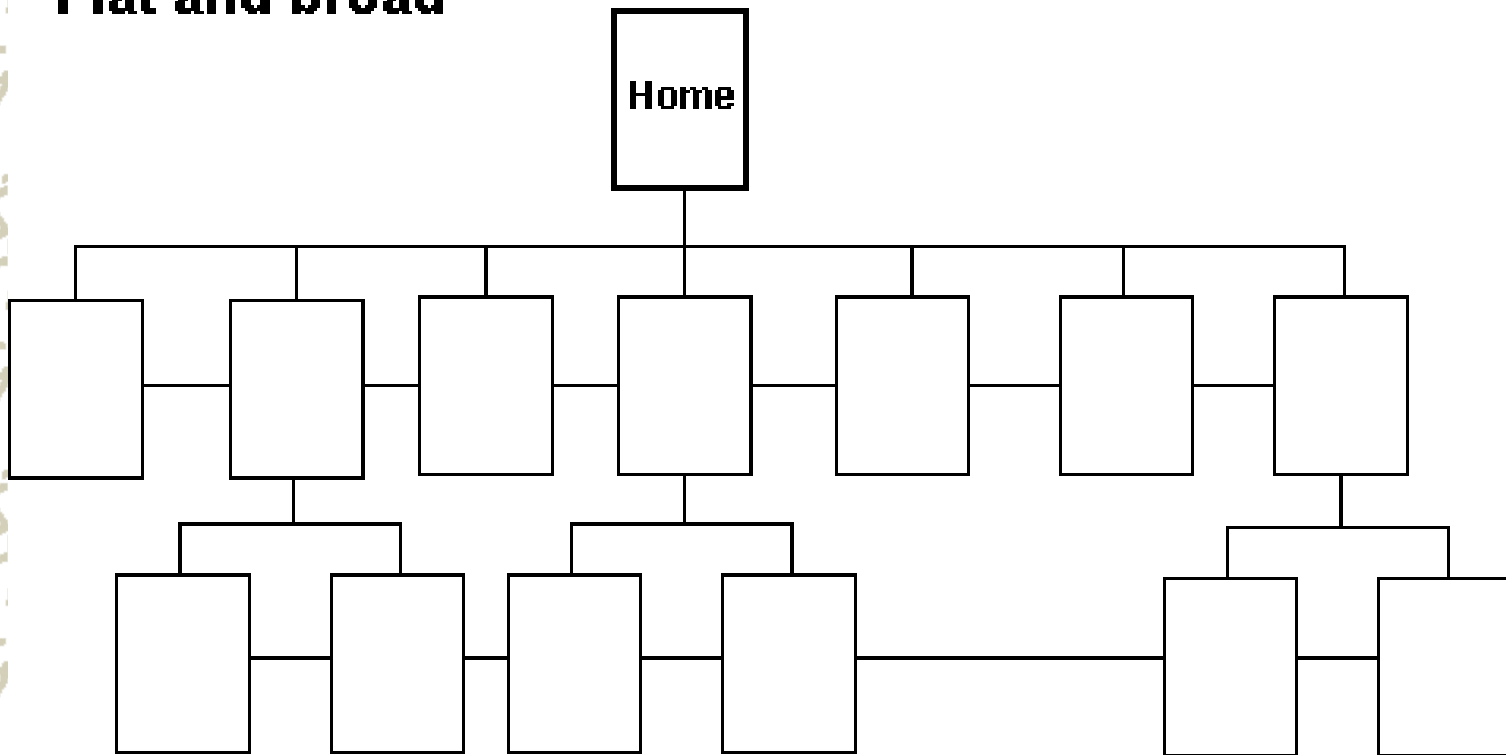




**Hierarchical:  
Broad and shallow**



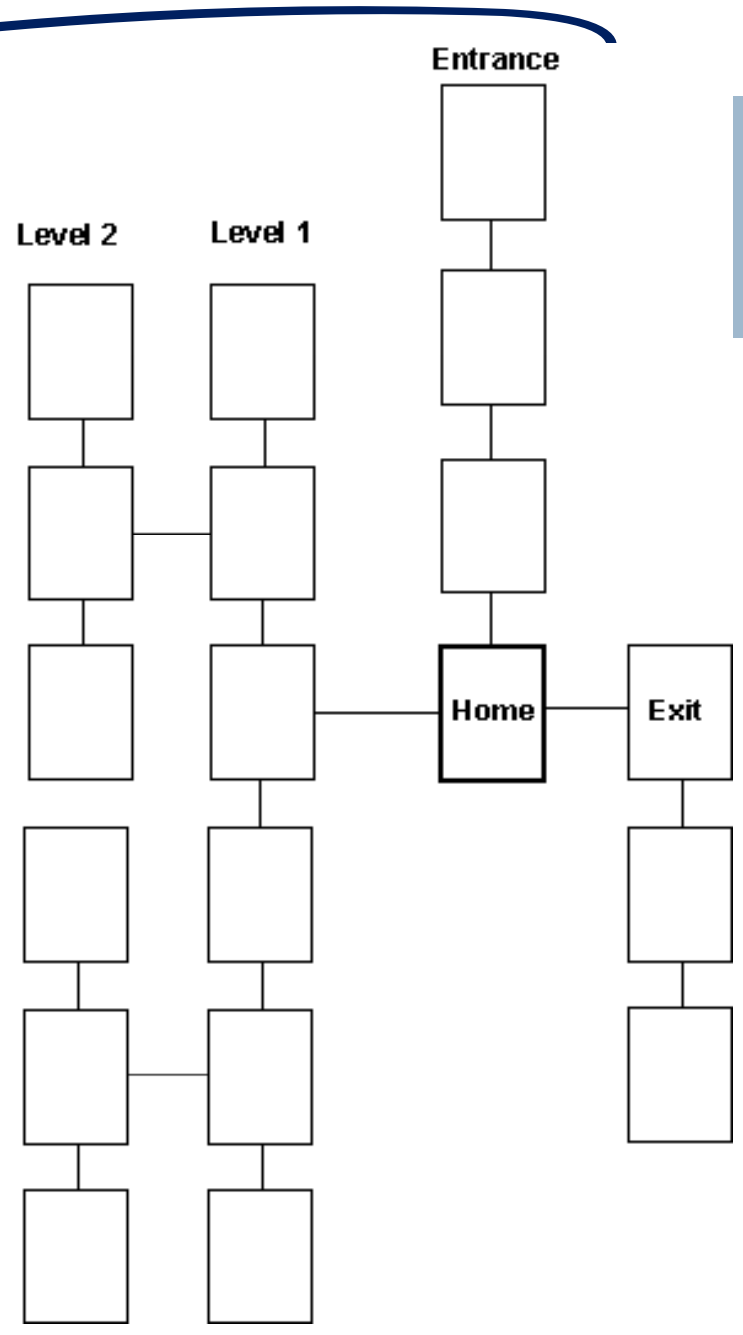
**Hierarchical:  
Flat and broad**





**Sequential:**  
**Entry way, core, exit**

**Content**





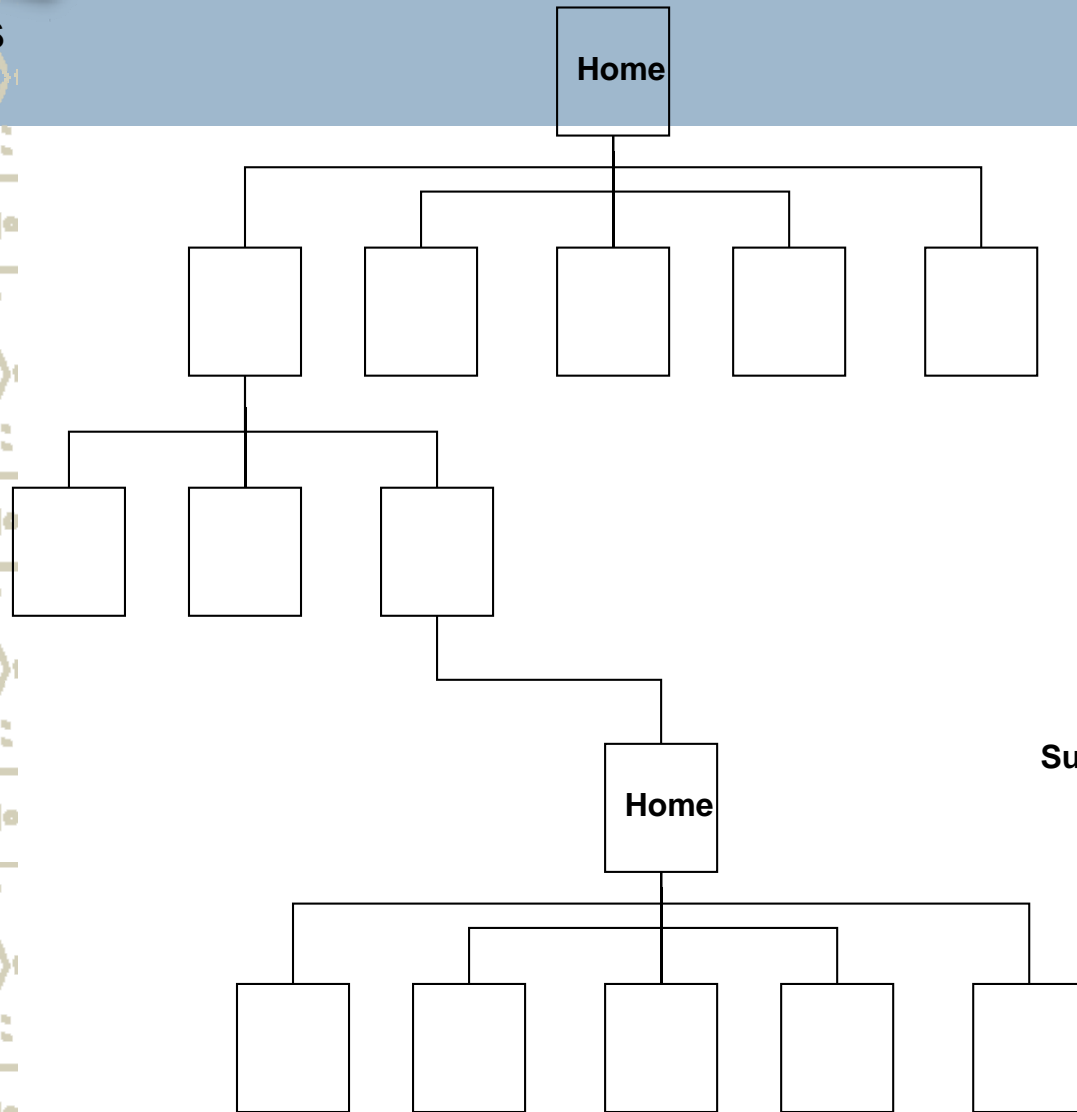
**Hyperlinked structure**

Home





**Sub sites**



**Sub site**

# About hierarchies

UC Home

Future students

Current students

Staff

Entry into UC

About UC courses

UC College

Campus life

Announcements

OSIS

Academic divisions  
& schhols

Studying at UC

Announcements

OPUS

Directories  
& maps

Academic divisions  
& schhols

# Getting around - navigation



From getting lost...



... to knowing where you are.



## Working on Navigation

We develop and use navigation tools and “wayfinding systems”

Goal: where we came from, where we are are now and where we are going

It should support the site’s organizational structure

Should support users’ information seeking behaviors

Some are “embedded”

These provide context and flexibility in the site (links)

Some are “supplemental”

These are external to the content of the site (site map)





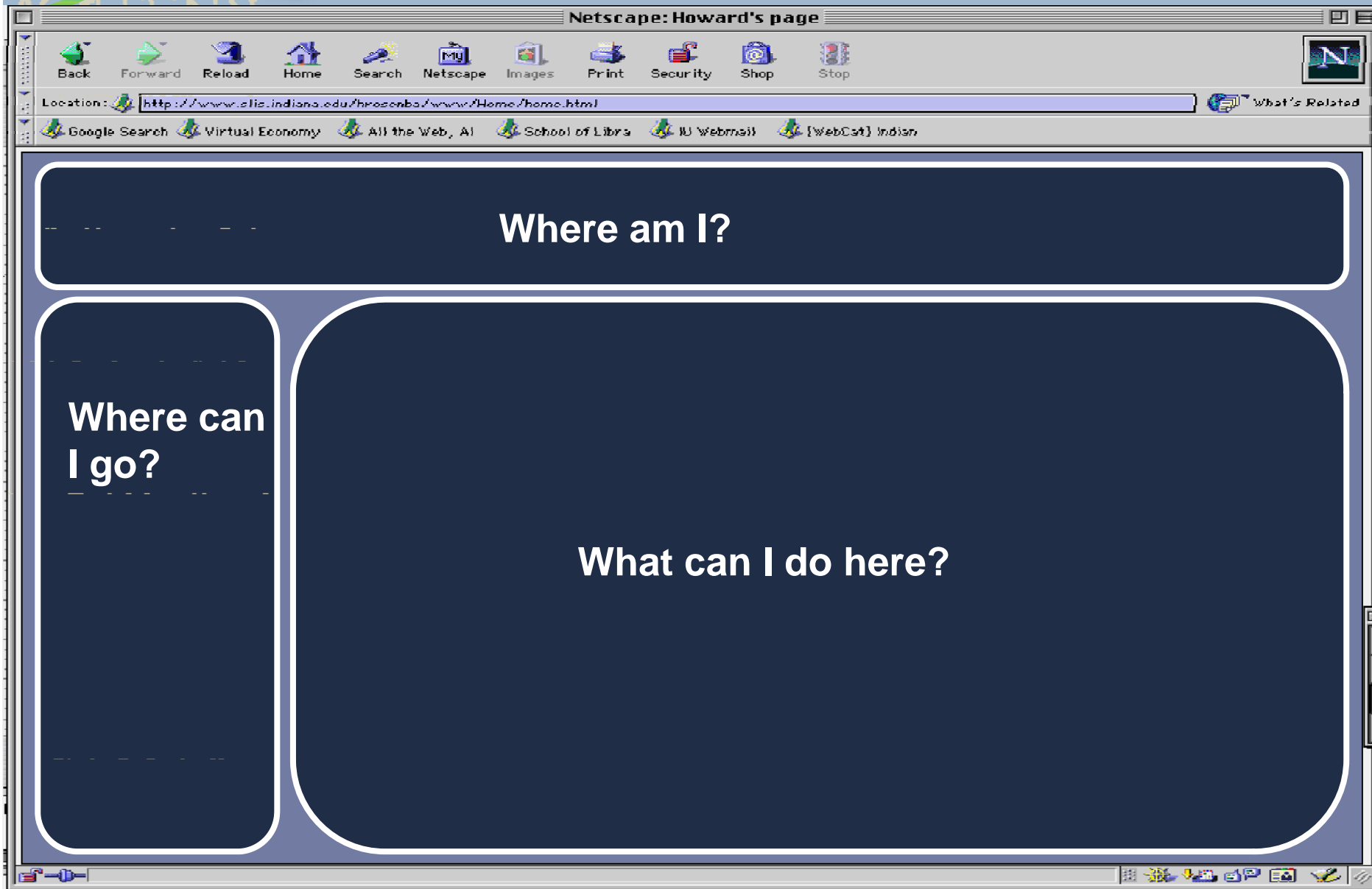
## Navigation

✿ Every page of a site should let you know:

- Where am I
- What's here
- Where can I go now
- Where have I been

✿ People don't always work from the home page – they get to a page from a link or from a search

# Location of Navigation





# Representation of Navigation

Representing navigation schemes

- Text-based links not in the body of the main text

- Embedded links in the text

- Graphical links

- Pull down menus

- Remote window menu

Navigation issues

- Location

  - Where should the links be placed on the page?

- Representing current location

- Representing location in the site

## Examples of navigation

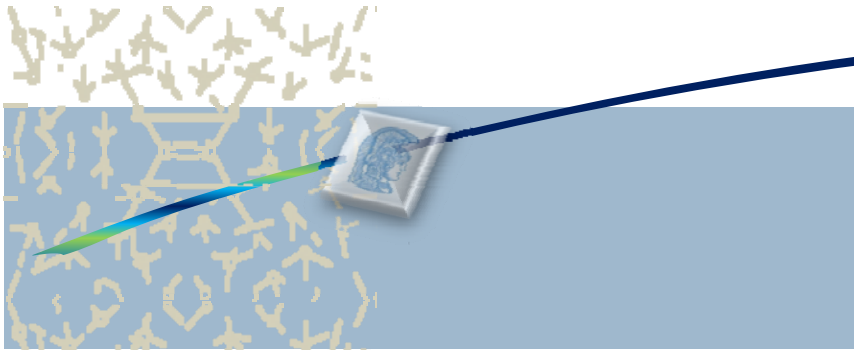
The screenshot shows a Netscape browser window displaying the Raytheon website. The browser's address bar shows the URL "http://www.raytheon.com". The website's header features the "Raytheon" logo on the left and "Level-0 Site Identity" on the right. A yellow horizontal bar spans the width of the page below the header. A yellow vertical bar is positioned on the left side of the page. Three arrows point from text labels to these yellow areas: "Global Utility Navigation" points to the horizontal bar, "Tab Navigation (Level-1)" points to the horizontal bar, and "Column Navigation (Levels 2-6)" points to the vertical bar. The browser's status bar at the bottom indicates "Document Done".

**Raytheon** Level-0 Site Identity

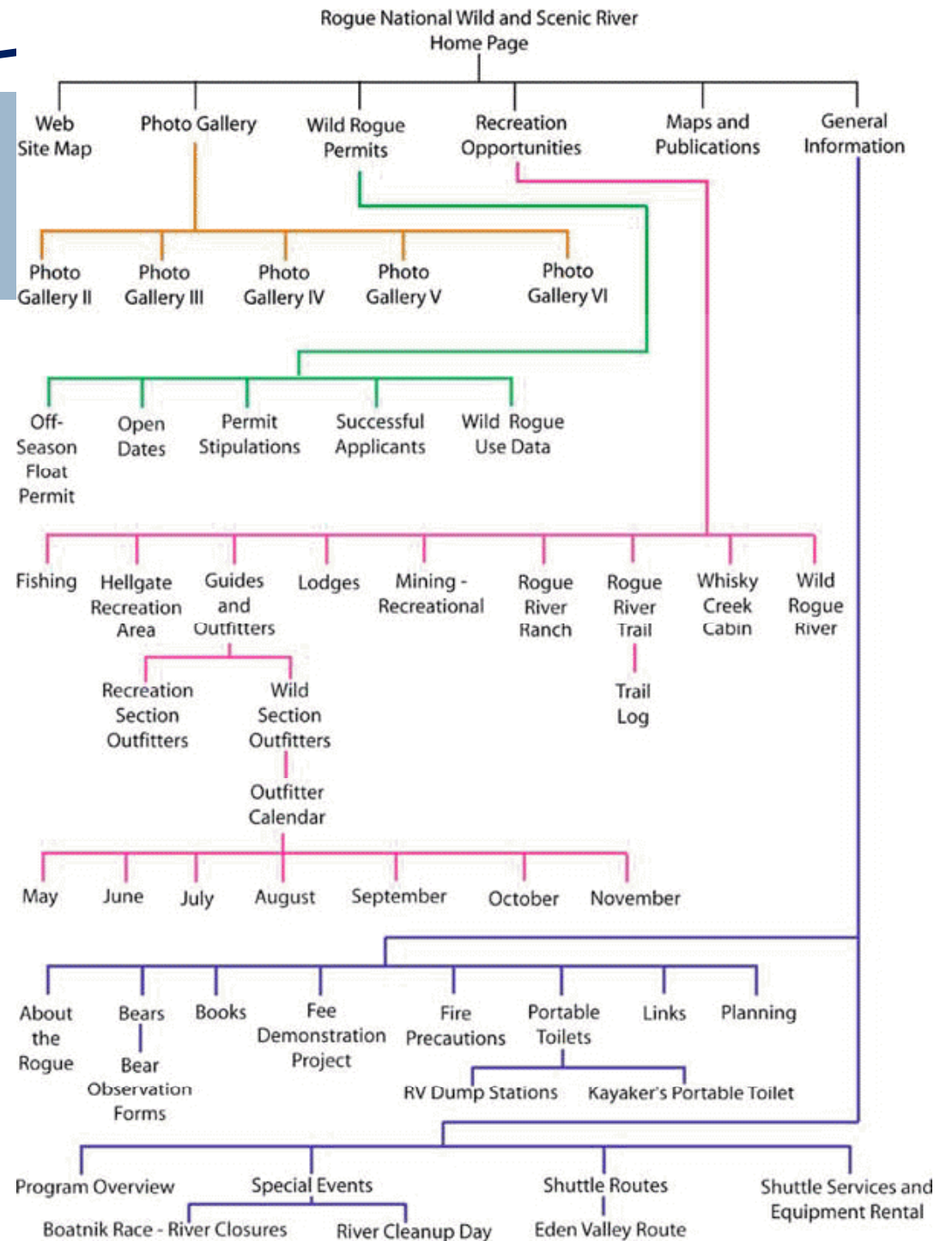
Global Utility Navigation

Tab Navigation (Level-1)

Column Navigation (Levels 2-6)



**Site map for the Rogue wild and scenic River web site**





# The design document

## 1. Goals, Mission

## 2. User Experience

### 2.1 Audience Definition, Personas

### 2.2 Scenarios, Use Cases, HTA

### 2.3 Competitive Analysis

## Summary

### Appendix A: Competitive Analysis

## 3. Site Content

### 3.1 Content Grouping and Labeling, Card Sorting

### 3.2 Functional Requirements

### Appendix B: Content Inventory

## 4. Site Structure

### 4.1 Site Structure Listing (or Summary)

### 4.2 Architectural Blueprints

### 4.3 Global and Local Navigation Systems

## 5. Visual Design

### 5.1 Layout Grids

### 5.2 Design Sketches

### 5.3 Page Mock-ups

### 5.4 Functional Prototypes

## 6. Test results, Evaluation, Redesign

## 7. Implementation, maintenance, change

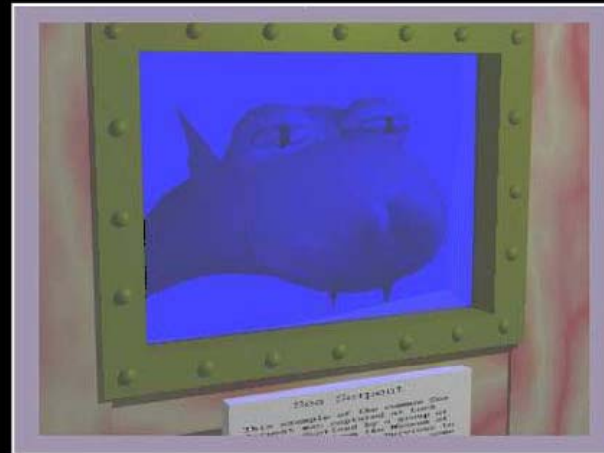


Dr. Freud would like to know what's on your mind.  
Satisfy your ego and take this quick survey!

[Click here](#)

## Cryptozoology

(Lost Worlds Exhibition)



**cryptozoology - the study or search for previously unknown or hidden animals.**

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**About the Memorial**

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**Australians at War**

**Research & Family History**

**Biographical Databases**

**Collection Databases**

**Education**

**Events & Exhibitions**

What's On

News

■ Travelling Exhibitions

Special Exhibitions

Online Exhibitions

Conferences & Seminars

**Products & Services**

**Corporate Information**

**Support the Memorial**

**Online Shop & Photo Sales**

## Travelling Exhibitions

The Australian War Memorial's collection is being made more accessible to all Australian's through a nationwide outreach program of travelling exhibitions. Funding for the program is provided by the Minister for Veterans' Affairs commemorations program.

The travelling exhibition program is committed to:

- Delivering a wide range of exhibitions meeting high artistic and creative standards which are developed to the high standards associated with the AWM;
- Ensuring exhibitions will appeal to a cross-section of the community;
- Touring at least one exhibition in every State and Territory each year; and
- Ensuring venues are of an appropriate standard for each exhibition, with particular consideration of conservation, safety and security standards.

The Australian War Memorial welcomes the opportunity to reach new audiences. If you are interested in any of the travelling exhibitions, please contact the Manager, Travelling Exhibitions on (02) 6243 4574 or on email at [travelling.exhibitions@awm.gov.au](mailto:travelling.exhibitions@awm.gov.au).

### Current Tours

- [Captured in Colour - Rare photographs from the First World War](#)
- [1918 Australians in France](#) (small modified version)
- [Stolen Years: Australian prisoners of war](#)
- [In Enemy Hands: Australian prisoners of war](#)
- [Keeping the peace: stories of Australian peacekeepers](#) (small modified version)





# Types of navigation

## ✦ Global navigation

- Persistent across a site
- Allows access to major parts of the site

## ✦ Local navigation

- Lets you move around the current 'section'

## ✦ Contextual navigation

- Inline links, to anywhere

## ✦ Supplemental navigation

- Helpers – site map, A-Z index



SUNDAY  
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[Text only](#)

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# Recipes Lifestyle Food

## Basque Squid Stew



by **Rick Stein**  
from **Fruits of the Sea**

Serves 4



**Preparation time**    **less than 30 mins**

**Cooking time**        **over 2 hours**

### Ingredients

750g/1½lb squid  
3 tbsp olive oil  
1 onion, chopped  
3 garlic cloves, finely chopped  
400g/14oz can of chopped tomatoes  
150ml/5fl oz red wine  
290ml/½ pint water  
1 tsp chopped fresh thyme  
1 tsp salt  
20 turns of the black pepper mill

### Method

1. Clean the squid. Cut the pouches into rings and separate the tentacles if large.
2. Heat the oil in a large, heavy-based pan. Add the squid and cook over a high heat, stirring from time to time, until lightly browned.

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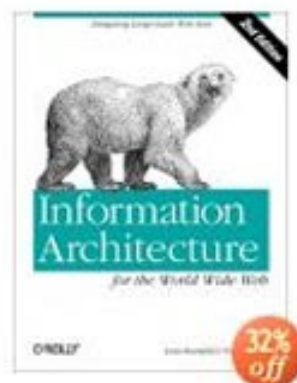
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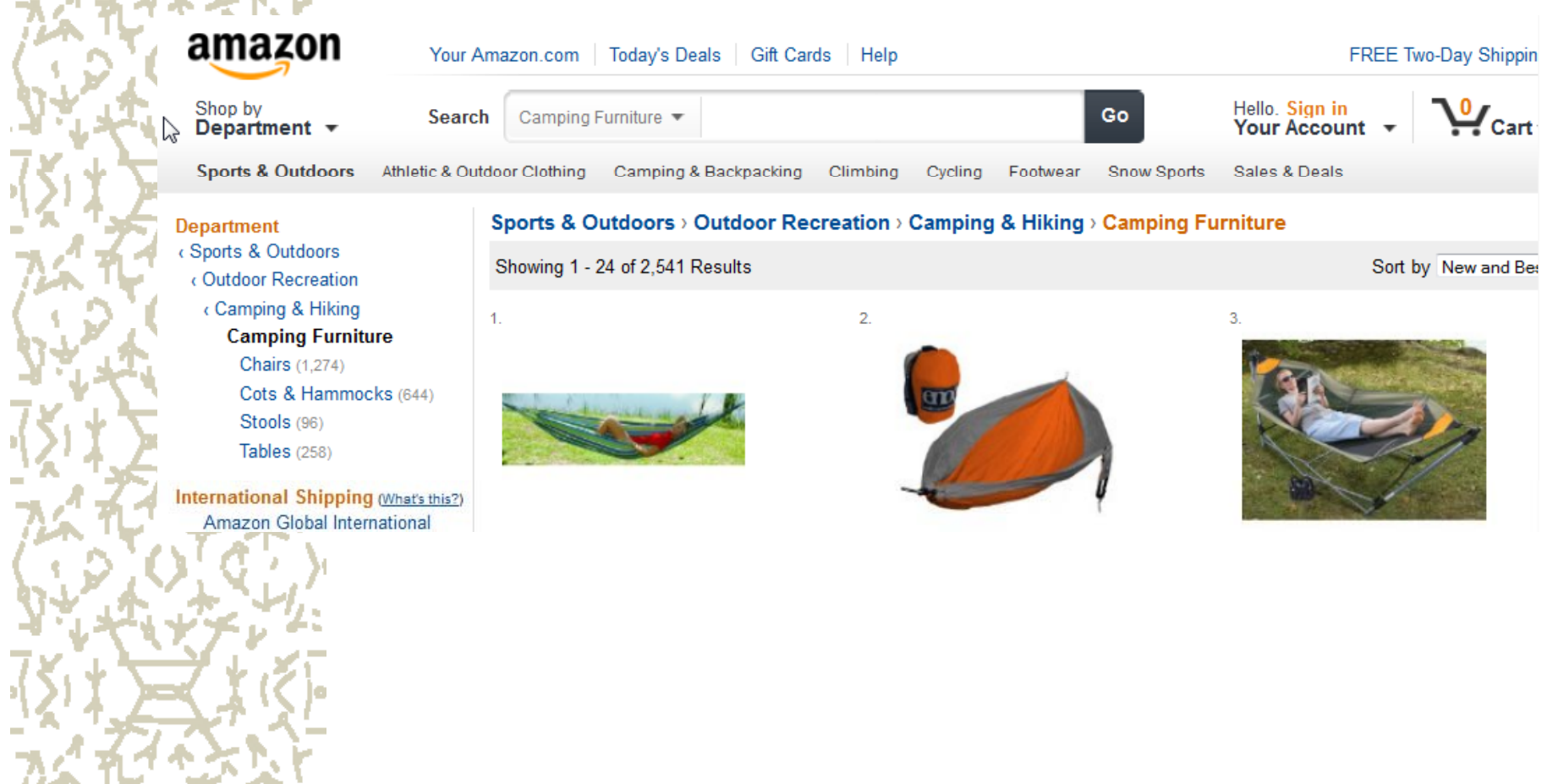
# Breadcrumbs Navigation

Where Am I?

✦ Show the user the path that was used to reach the current page being viewed.

[www.hm.edu](http://www.hm.edu)->[CampusLife](#)->[Student Activities](#)->[Leadership Program](#)

# Breadcrumbs Navigation example



The image shows a screenshot of the Amazon website's breadcrumb navigation for the 'Camping Furniture' category. A blue banner at the top contains the title 'Breadcrumb Navigation example'. The Amazon logo is in the top left. The search bar contains 'Camping Furniture'. The breadcrumb trail is: Sports & Outdoors > Outdoor Recreation > Camping & Hiking > Camping Furniture. The page shows 2,541 results, sorted by 'New and Best'. Three product images are visible: 1. A person in a red shirt lying in a green hammock. 2. An orange and grey tent with a matching bag. 3. A person lying on a folding camp cot.

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**Department**  
↳ [Sports & Outdoors](#)  
↳ [Outdoor Recreation](#)  
↳ [Camping & Hiking](#)  
**Camping Furniture**  
Chairs (1,274)  
Cots & Hammocks (644)  
Stools (96)  
Tables (258)

**International Shipping** [\(What's this?\)](#)  
[Amazon Global International](#)

**Sports & Outdoors > Outdoor Recreation > Camping & Hiking > Camping Furniture**

Showing 1 - 24 of 2,541 Results Sort by [New and Best](#)

- 
- 
- 



# Labeling

- ✦ Good labels

- Are understandable by the reader
- Are consistent within the site
- Clearly describe where you are going next

- ✦ Labeling is not easy – it is as complex as structure and navigation

- ✦ Where to get labeling ideas:

- User research
- Search terms
- Referrer terms
- Call centre/people in contact with users



## UCD Methods for defining Site Structure and Labeling

### Card sort

This is a low-tech approach to develop a taxonomy

It demonstrates how people group items

Allows you to develop structures that maximize the chances of users being able to find what they want and:

Is easy and cheap to conduct

Identifies items that can be difficult to categorize and find

Identifies terminology that is likely to be misunderstood



# Card Sorting

You have to have predefined the major categories

Label each card with a description of a potential content piece for a site

Have respondents create piles of cards that share similar relationships

Have them create a name for the content piles

Then cluster the groupings

Pay attention to items that do not have a consensus

Would re-naming the item improve the situation, or does it need to be included in more than one category?

The results indicate how users organize the content

Use the findings to the develop the site architecture





## Preparing the card sort

- Ensure that each term is clear and unambiguous
- Make sure you have included all the items you need to categorize
- Shuffle or randomize cards prior to each session
- Use the same instructions so all participants have the same understanding of the process
- Leave participants alone while they are sorting the cards, but make sure they can easily ask you questions
- Provide additional blank cards for people to write group names
- Provide rubber bands so that people can gather groups of cards together



# IA Resources

## ✦ Books

- Information Architecture for the World Wide Web – Louis Rosenfeld & Peter Morville
- Elements of user experience – Jesse James Garrett
- Information Architecture – Blueprints for the Web – Christina Wodtke
- Don't Make Me Think – Steve Krug

## ✦ Online

- Boxes and Arrows – <http://www.boxesandarrows.org/>
- IAslash - <http://www.iaslash.org/>
- IAwiki – <http://www.iawiki.org/>