

I 202: INFORMATION ORGANIZATION & RETRIEVAL FALL 2025

Class 9: Information Architecture

Today's Focus

Data / Information

Collections

Categories

- Types of categories
- Cognitive / language aspects
 - Naming / Lexical similarity
- Structure
 - Hierarchical / Taxonomy
 - Faceted
 - Overlapping / Clustering
 - Network / Ontology

- Use in Navigation & Search**
 - Information Architecture**
 - Faceted Navigation**

Technology Support for Info Org

- Identifiers
- Metadata
- Markup
- Schema / Databases
- Search Ranking / Evaluation
- Automated category creation
- Automated similarity

Social / Ethical Aspects

- Cultural Bias
- Intellectual Property
- Standards Process

Today's Outline

Thematic Categories

Information Architecture

Breadcrumbs

Content Management Systems

How To DEFINE THE FACETS?

- Depends on the makeup of the collection
- Depends on the goals of the use
- Then ask the classic questions:
 - *Who, what, when, where, why, how much, under what circumstances?*

Five Hierarchical Faceted Categories

Nature
Animal
Mammal
Horse

Is-a



Occupations
Cowboy

Is-a-type-of



Clothing
Hats
Cowboy Hat

Media
Engraving
Wood Eng.

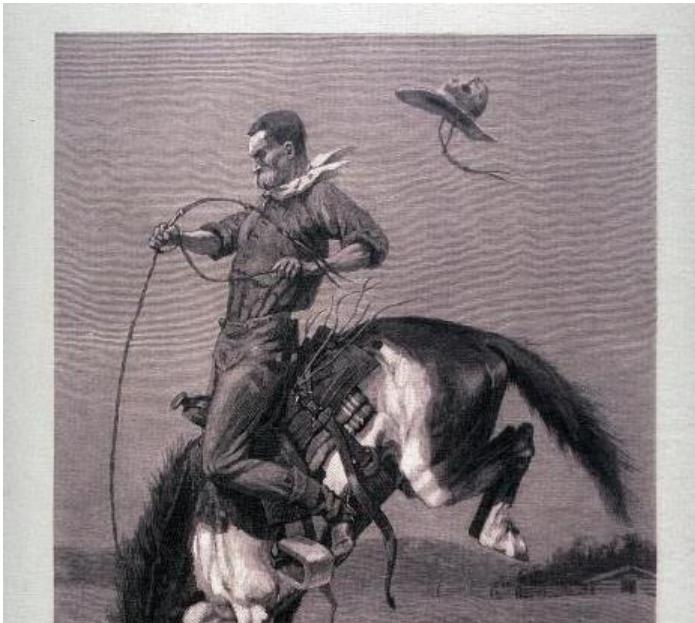
Location
North America
America

Is-in or
is-part-of

Is-a

Is-a-type-of

Description: 19th c. paint horse; saddle and hackamore; spurs; bandana on rider; old time cowboy hat; underchin thong; flying off.



By using faceted categories,
what are we not capturing?

The hat flew off;
The bandana stayed on.

The thong is part of the hat.

The bandana is on the cowboy
(not the horse).

The saddle is on the horse
(not the cowboy).

How To HANDLE MISSING RELATIONS?

- Ontology is one way, but complex for users
- Alternative: **Thematic Categories**
 - *Combine key facets into groups that are meaningful for the application*
 - *These can be hierarchical if the underlying facets are*

Example:

Facet: Objects > Weapons

Facet: People > Military Personnel

Facet: Even: Battle

Combine these to make a Theme

Theme: Armed Conflict

Composed of all three facets

Images from the Collections of the Fine Arts Museums of San Francisco;
Legion of Honor and de Young Museums, <http://www.thinker.org>

Questions or Comments? Email Kevin Li (kevinli@sims.berkeley.edu)

SEARCH

 Show tooltip previews of subcategories

SEARCH

Username default

[Create a New Account](#)

Password

LOGIN

Media

- [Book](#) (309)
- [Ceramic](#) (896)
- [Drawing](#) (1547)
- [Glass](#) (403)
- [Metalwork](#) (134)
- [Objects](#) (1689)
- [Painting](#) (115)
- [Photograph](#) (333)
- [Print](#) (18206)
- [Sculpture](#) (193)

Built Places

- [Bridge](#) (431)
- [Building](#) (2571)
- [Built open space](#) (912)
- [Dwelling](#) (1528)
- [Part of building](#) (3159)
- [Road](#) (1204)

Date

- [1 - 1000 a.d.](#) (135)
- [12th century](#) (3)
- [13th century](#) (1)
- [14th century](#) (3)
- [15th century](#) (76)
- [16th century](#) (1225)
- [17th century](#) (3058)
- [18th century](#) (2287)
- [19th century](#) (7551)
- [20th century](#) (1667)
- [21st century](#) (14)
- [B.C.](#) (240)
- [more...](#)

Objects

- [Clothing](#) (6018)
- [Containers](#) (2632)
- [Food and meals](#) (3580)
- [Fuel](#) (453)
- [Lighting](#) (386)
- [Musical instruments](#) (634)
- [Timepieces](#) (73)
- [Vehicles](#) (3457)
- [Weapons](#) (1498)
- [Writing tools](#) (3636)

Themes

- [Military](#) (2600)
- [Mortality](#) (423)
- [Music, writing, and sport](#) (5499)
- [Nautical](#) (1381)
- [Religion](#) (4142)

Location

- [Africa](#) (101)
- [Asia](#) (945)
- [Australia](#) (5)
- [Central america](#) (57)
- [Europe](#) (17758)
- [Middle east](#) (60)
- [North america](#) (3634)
- [Oceania](#) (72)
- [Roman empire](#) (4)
- [South america](#) (158)

Shapes, Colors, and Scenes

- [Color](#) (4149)
- [Decoration](#) (1680)
- [Metal](#) (256)
- [Scene](#) (6526)
- [Shape](#) (1566)

Images from the Collections of the Fine Arts Museums of San Francisco;
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- [21st century](#) (14)
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Thematic What

Shapes, Colors, and Scenes

- [Color](#) (4149)
- [Decoration](#) (1680)
- [Metal](#) (256)

Property What

Let's drill down
into the Military
Thematic
Category

Images from the Collections of the Fine Arts Museums of San Francisco; Legion of Honor and de Young Museums,
<http://www.thinker.org>

Questions or Comments? Email Kevin Li (kevinli@sims.berkeley.edu)

 SEARCH

all items within current results

Refine your search further within these categories:

Media (group results)

- | | |
|--------------------------------|---------------------------------|
| Book (23) | Objects (39) |
| Ceramic (18) | Painting (4) |
| Drawing (157) | Photograph (11) |
| Glass (5) | Print (2336) |
| Metalwork (12) | Sculpture (8) |

Date (group results)

- | | |
|------------------------------------|------------------------------------|
| 1 - 1000 a.d. (3) | 20th century (122) |
| 15th century (26) | B.c. (4) |
| 16th century (219) | B.c. to a.d. (2) |
| 17th century (528) | Date unknown (18) |
| 18th century (203) | more... |
| 19th century (698) | |

These terms define your current search. Click the **X** to remove a term.

Themes: military **X**

2600 items ([Ungroup items](#))

[soldiers and fighters](#) 1173



#11 from The fol...
Galle
16th - 17th cent...



#12 from: The fo...
Galle
16th - 17th cent...



#14 from: The fo...
Galle
16th - 17th cent...



#16 from The fol...
Galle
16th - 17th cent...

[all 1173 items...](#)

[war](#) 698

THEMATIC (ASSOCIATIONAL) CATEGORIES

- Combine one entity type that is strongly associated with another, but is not taxonomically related
- **Examples:**
 - Field of Study and Object of Study (Astronomy / Star)
 - Process and its Agent (Frying / Pan)
 - Concepts and their Properties (Flame / Heat)
 - Action and Product of Action (Frying / Cooked Eggs)
 - Concepts linked by Causality (Shooting / Murder)
 - Activity and its Tools (Camping / Tent; Astronomy / Telescope)

A Few Words About Netflix's Success: *Vivid. Snappy. Tags.*

The descriptive tags that the streaming service runs near each title — like “slick” for the show “Suits” — have proved crucial to getting people to click play.

 Share full article



NETFLIX CATEGORIES: COMBINES CATEGORIES TO CREATE THEMES

- Netflix has been having humans tag videos since they were a DVD mail service
- >3,000 categories
- Used to create traditional genre categories (*Action*) as well as custom thematic categories (*Action with a Side of Romance*)
- Have to know the code number (*Action with a Side of Romance* is at <http://netflix.com/browse/genre/81647318>)
<https://www.netflix.com/tudum/articles/netflix-secret-codes-guide>

NETFLIX CATEGORIES: THEMA

- **Traditional genres:** comedy, suspense
- **Genres + modifiers:** Feel-good dramas
- **Metadata based categories:** New releases
- **Thematic categories:** reluctant adults, fight-the-system

Comedies



Reluctant Adults



Imaginative TV Shows



Real Stories



New Releases



Suspenseful Movies



Ensemble TV Shows



Feel-good Dramas



Fight-the-System TV Shows



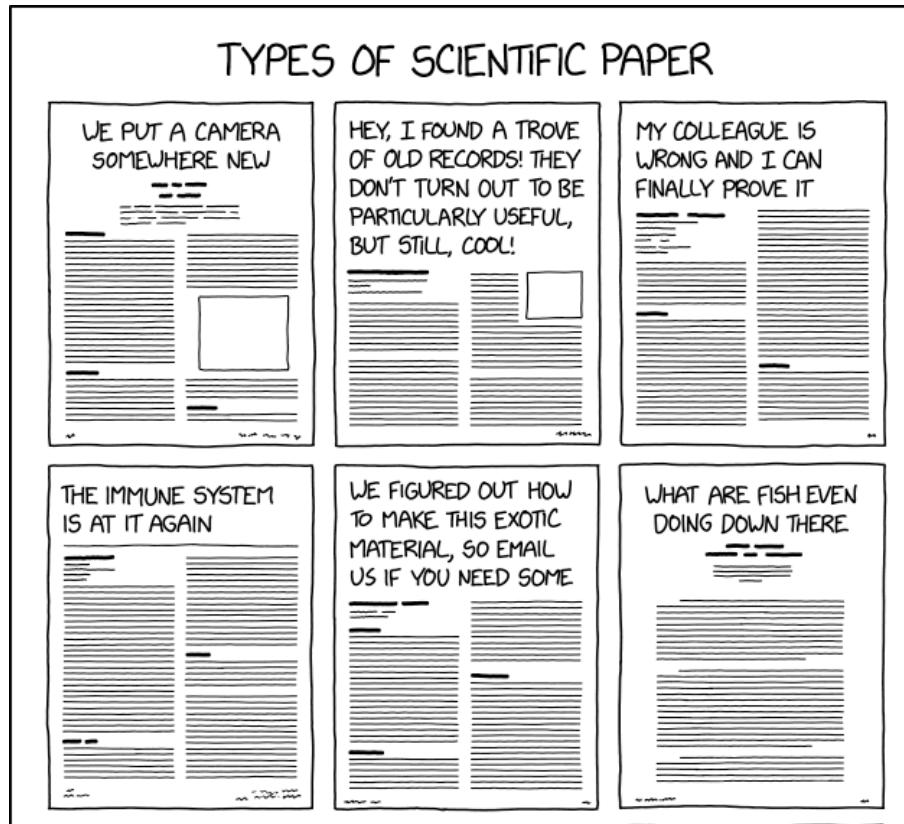
EXERCISE: DISCUSS NETFLIX CATEGORY TYPES

Focus on the ones that are combinations of categories:

Netflix Codes 2025: All The Secret Movie & Series Category Codes on Netflix

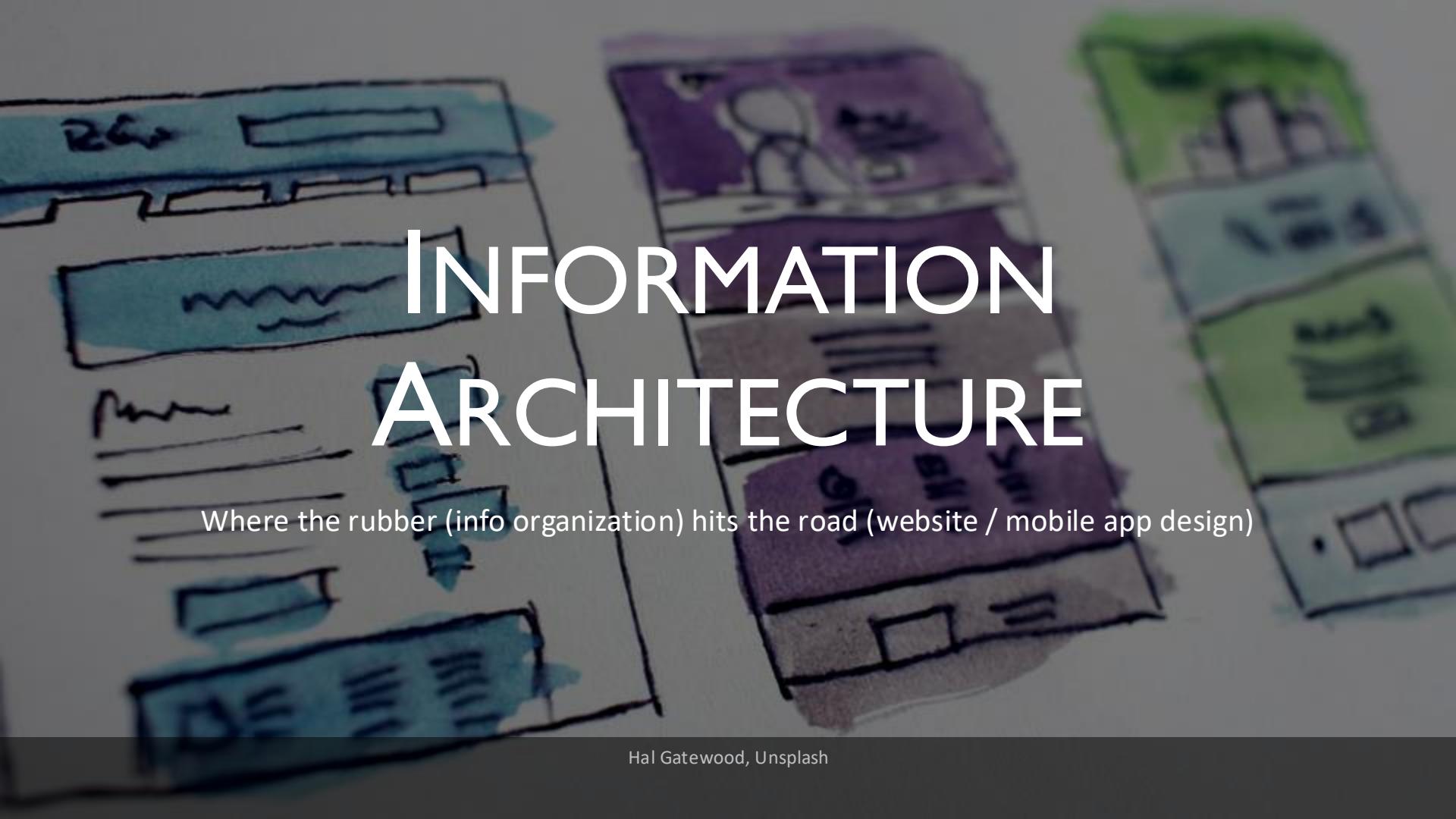
<https://www.whats-on-netflix.com/news/the-netflix-id-bible-every-category-on-netflix/>

Thematic Categories



SUMMARY: THEMATIC CATEGORIES

- To capture cross-cutting concepts, it can be helpful to combine facets into themes
- These themes can take on several forms, including
 - *Combinations of related facets (weapons, soldiers, wars)*
 - *Combinations of facets that support a commonly used service (how to get a small business loan)*
 - *Combinations of facets and modifiers (feel-good dramas)*



INFORMATION ARCHITECTURE

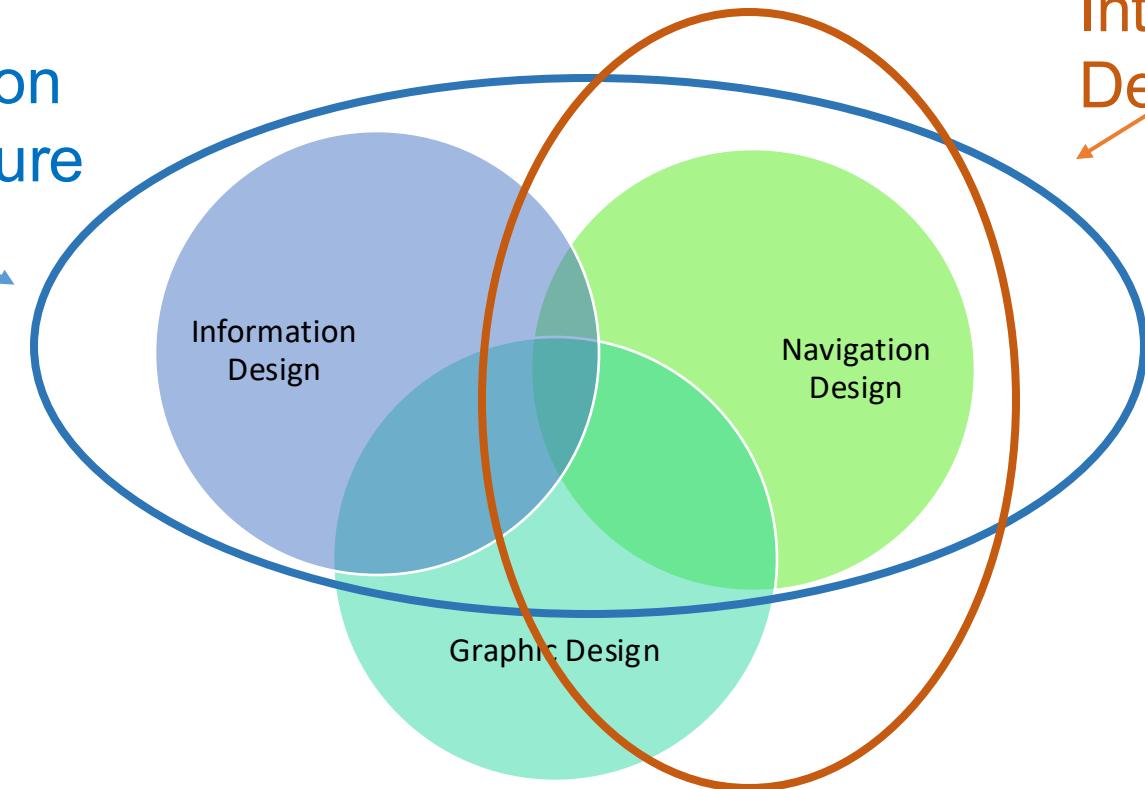
Where the rubber (info organization) hits the road (website / mobile app design)

INFORMATION ARCHITECTURE (IA)

- Asks: how to organize and structure information to aid navigation and search?
- Methods are not algorithmic; require practice and judgment
- Practitioner-driven (vs research-driven)

Information
Architecture

Web User
Interface
Design



Job listing description (9/25)

Information Architect

Firnal Inc | Remote | \$120,000 - \$160,000 a year

You must create an Indeed account before continuing to the company website to apply

[Apply on company site](#)  

Job details

 Pay
\$120,000 - \$160,000 a year

Full job description

JOIN OUR TEAM Where intelligence meets ambition. Join a team building the tools, systems, and strategies that power smarter decisions.

Information Architect

Design the systems that organize our world-class data. You'll work across teams to develop schemas, taxonomies, and pipelines that bring structure to everything from personas to market signals.

Salary ranges from \$120k-\$160k per annum

Information/Data Architect

Concept Plus  Remote

[Apply now](#)  

About the role

The Information/Data Architect will provide technical expertise and support for the data and information architecture requirements of the business. This will help maintain proper information categorizations and identify where information is used, stored, and transmitted.

What you'll do

- Develop and maintain information and data architecture strategies that align with organizational goals.
- Apply meta data models, taxonomies, and ontologies to strengthen business and IT capabilities.
- Define data classifications and zoning standards to improve governance and asset management.
- Document and categorize information across IT portfolios to ensure accuracy and compliance.
- Support enterprise information initiatives including master data management, metadata, analytics, content management, and data integration.

MAIN STEPS OF INFORMATION ARCHITECTURE DESIGN



NAVIGATION BREADCRUMBS

Caroline Attwood, Unsplash

NAVIGATION BREADCRUMBS

- Remind the user of the path they have taken
 - *A combination of hyperlinks, filters, and queries*
- Modifying it can expand the set of options
 - *Click on a prior link, or remove a filter (facet or other)*
- There can be a tension between the dynamic nature of a path taken and the desire to have a stable link for a page.

NAVIGATION BREADCRUMBS

Remind the user of the path they have taken
A combination of hyperlinks, filters, and quick links.

All Products > Storage & Organization > Shelving > Bookcases

Bookcases

Storage & Organization

PRIZE: literature 
YEAR: 1920s 

10 results

Group by: [prize](#), [year](#)

Sort by: [usual name](#), [year of birth](#), [year of death](#), [country](#)

Home / Typo

"typo"

10 Items

Filter By: [Materials](#) 

[Size](#) 

[Shape](#) 

[Subjects](#) 

[Color](#) 

[Art Type](#) 

[Room](#) 

[Price](#) 

Medium (e.g. 18" x 24")  

\$25 - \$75  

[Clear All](#)

APPAREL & GEAR

[Dresses, Skirts, Skorts](#)

[Dresses](#)

[Skirts](#)

[Skorts](#)

[Jumpsuits & Rompers](#)

SORT BY

Top Sellers 

REFINE BY



x

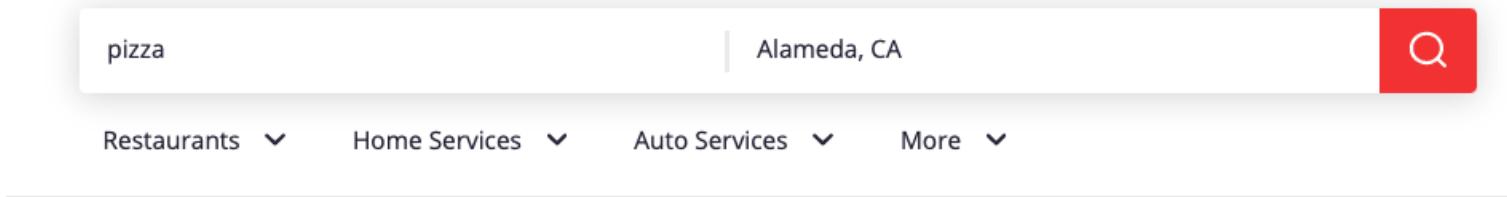
Straight

x

[CLEAR ALL](#)

NAVIGATION BREADCRUMBS

Remind the user of the path they have taken
A combination of hyperlinks, filters, and queries



Matching search terms to the breadcrumb

NAVIGATION BREADCRUMBS

Modifying it can expand the set of options

Click on a prior link, or remove a filter (facet or other)

All Products > **Storage & Organization** Shelving > Bookcases

Bookcases

All Products > Storage & Organization

Storage and Organization

Storage Furniture



Office Storage



Media Storage



Shelving



NAVIGATION BREADCRUMBS

There can be a tension between the dynamic nature of a path taken and the desire to have a stable link for a page.

All Products > Storage & Organization > Shelving > Bookcases > Color: Brown

4 Stars And Up Contemporary Bookcases

This screenshot shows a product search interface with the following elements:

- Navigation breadcrumbs: All Products > Storage & Organization > Shelving > Bookcases > Color: Brown
- Search results title: 4 Stars And Up Contemporary Bookcases
- Filter bar: A row of buttons for "All Filters", "Style (1)", "Dimensions", "Price", "Sale", "Brand", "Customer Rating (1)", "Color (1)", "Finish", and "Type".
- Sort options: "Sort by: Recommended" with grid and list icons.
- Applied filters: "Contemporary", "Customer Rating: 4 Stars And Up", "Color: Brown", and "Modern". Other filter buttons are available but not selected: Mid-Century Modern, Traditional, Wood, Metal, Walnut.

All Products > Storage & Organization > Shelving > Bookcases > Type: Corner

4 Stars And Up Contemporary Corner Bookcases

This screenshot shows a product search interface with the following elements:

- Navigation breadcrumbs: All Products > Storage & Organization > Shelving > Bookcases > Type: Corner
- Search results title: 4 Stars And Up Contemporary Corner Bookcases
- Filter bar: A row of buttons for "All Filters", "Style (1)", "Dimensions", "Price", "Sale", "Brand", "Customer Rating (1)", "Type (1)", and "Ships To".
- Sort options: "Sort by: Recommended" with grid and list icons.
- Applied filters: "Contemporary", "Customer Rating: 4 Stars And Up", "Color: Brown", and "Type: Corner". Other filter buttons are available but not selected: Modern, Mid-Century Modern, Traditional, Wood, Metal.

NAVIGATION BREADCRUMBS

There can be a tension between the dynamic nature of a path taken and the desire to have a stable link for a page.

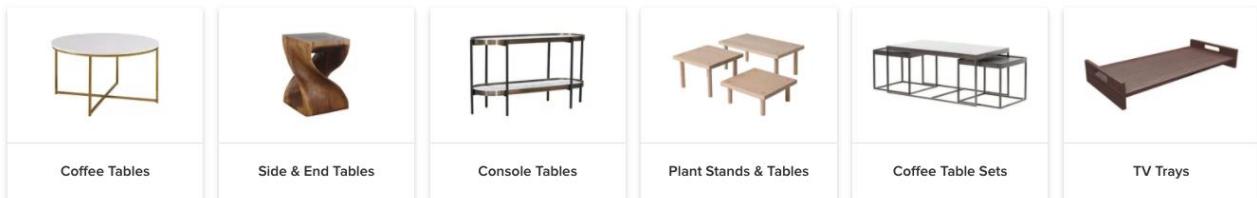


Living Room Furniture



All Products > Living > Coffee & Accent Tables

Coffee and Accent Tables



NAVIGATION BREADCRUMBS

There can be a tension between the dynamic nature of a path taken and the desire to have a stable link for a page.

All Products > Furniture > Living Room Furniture

Living Room Furniture

Coffee & Accent Tables Chairs Sofas & Sectionals Media Storage Bookcases

All Products > Storage & Organization > Shelving > Bookcases

Bookcases

Filter buttons: All Filters, Style, Dimensions, Price, Sale, Brand, Customer Rating, Color, Finish

Watch the Breadcrumbs from the Thematic Category “snow”

Shop REI REI Outlet Re/Supply Classes & Events Expert Advice Uncommon Path Membership

 **Shop** Search for great gear & clothing Near you Closed. Opens 10am Roseville-Galleria Sign in Cart

Camp & Hike Climb Cycle Water Run **Snow** Travel Men Women Kids **Deals** Brands More

All Snow >

Snow Clothing	Downhill Skiing	Snowboarding	Backcountry
Jackets	Skis	Snowboards	Skis
Snow Pants	Boots	Boots	Ski Boots
Snowsuits	Bindings	Bindings	Bindings
Base Layers	Poles	Helmets	Poles
Hats & Headwear	Helmets	Goggles	Skins
Gloves & Mittens	Goggles	Snowboard Packs & Bags	Splitboards
Socks	Ski Packs & Bags		Splitboard Bindings

Cross-Country Skiing	Snowshoeing
Skis	Snowshoes
Boots	Winter Boots
Bindings	
Poles	Poles
Waxing & Tuning	



New Arrivals
Sale & Clearance
Up to 40% off Salomon, Rossignol & more

Snowsports / Skiing / Ski Boots

Downhill Ski Boots (181 products)

Watch the Breadcrumbs

title nine

New Apparel & Gear Swim Sports Bras Activity Women-Owned

Dresses, Skirts, Skorts

Dresses

Skirts

Skorts

Jumpsuits & Rompers

Matching Sets

Built-in Bra Dresses

Sweater & Sweatshirt Dresses

Vest Dresses

Bottoms

Bottoms Finder

Pants

Leggings & Tights

Joggers

Capris

Shorts

Hiking Pants

Wide Leg Pants

Tops

Long Sleeve Shirts

Sweaters

Hoodies & Sweatshirts

Short Sleeve Shirts

Tank Tops

—

Jackets & Vests

Jackets

Fleece

Vests

Puffer Jackets

Running Jackets

APPAREL & GEAR / BOTTOMS

WOMEN'S OUTDOOR PANTS

Thematic Category

New Apparel & Gear Swim Sports Bras **Activity** Women-Owned Brands Sale Explore

Running & Training

Hiking

Camping

Pickleball & Tennis

Yoga & Studio

Swimming



THE TRAIL SHOP

ANALYZING EXISTING SITES

- Study the content, use, and placement of
 - **Categories on the page**, with explanatory text,
 - **Tabs** organizing content,
 - **Menus**: sidebar vs top vs footer
 - **Breadcrumbs**
 - **Repeated info**: which, where, and why?
- These are all choices about how to organize content
- Diagramming them is a good way to learn

EXAMPLES OF RICHLY STRUCTURED SITES

- Many US Government websites were modernized in 2009-2016
 - *Focus on usability, plain text, helping people get their tasks done*
- Huge collections of information; have to meet many peoples' needs
- Often highlight services; these are often phrased as questions, and are thematically structured
- Examples:
 - [sba.gov](#) (Small Business Administration; activity-centric)
 - [usa.gov](#) (Overview of all Federal Agencies; uses github!)
 - [.cbo.gov](#) (Congressional Budget Office; Lots of data and reports)
 - [uspto.gov](#) (US Patent and Trademark Office, complex activities / data)



Topics and Subtopics

Content Type

Congressional Session

Browse Topics

[Agriculture](#)[Homeland Security](#)[Budget](#)[Housing](#)[CBO Operations](#)[Immigration](#)[Climate and Environment](#)[Income Distribution](#)[COVID-19](#)[Infrastructure and Transportation](#)[Defense and National Security](#)[Mandates](#)[Disaster Preparation and Relief](#)[Poverty and Income Security](#)[Dynamic Analysis](#)[Retirement](#)[Economy](#)[Science and Research and Development](#)

QUICK LINKS

[Latest Publications](#)[Upcoming Releases](#)[Major Recurring Reports](#)[Budget and Economic Data](#)[Podcasts](#)[Description of CBO's Products](#)

Housing

[Featured](#)[Publications & Cost Estimates](#)[Policy Options](#)[Recurring Publications](#)

The federal government plays a substantial role in the housing market by providing significant tax subsidies for homeownership and by guaranteeing many mortgage loans. (Such guarantees are made primarily by Fannie Mae, Freddie Mac, and the Federal Housing Administration.) CBO analyzes the effects of those policies and possible changes in the policies.



Report

[The Role of the Department of Veterans Affairs in the Single-Family Mortgage Market](#)

September 14, 2021

CBO describes VA's mortgage guarantee program, provides estimates of the budgetary costs of the program, and compares those costs with expenditures for other federal guarantees.



Report

[Effects of Recapitalizing Fannie Mae and Freddie Mac Through Administrative Actions](#)

August 18, 2020

CBO examines how recapitalizing Fannie Mae and Freddie Mac through administrative actions would affect such factors as CBO's budget projections and cash flows between the two enterprises and their shareholders, including the

Example of Service website: sba.gov organizes by “what you can do”



Plan your business

You've got a great idea. Now, make a plan to turn it into a great business.

- [Market research and competitive analysis](#)
- [Write your business plan](#)
- [Calculate your startup costs](#)
- [Establish business credit](#)
- [Fund your business](#)
- [Buy an existing business or franchise](#)



Launch your business

Turn your business into a reality. Register, file, and start doing business.

- [Pick your business location](#)
- [Choose a business structure](#)
- [Choose your business name](#)
- [Register your business](#)
- [Get federal and state tax ID numbers](#)
- [Apply for licenses and permits](#)
- [Open a business bank account](#)
- [Get business insurance](#)



Manage your business

Run your business like a boss. Master day-to-day operations and prepare for success.

- [Manage your finances](#)
- [Hire and manage employees](#)
- [Pay taxes](#)
- [Stay legally compliant](#)
- [Buy assets and equipment](#)
- [Marketing and sales](#)
- [AI for small business](#)
- [Strengthen your cybersecurity](#)
- [Prepare for emergencies](#)
- [Recover from disasters](#)
- [Close or sell your business](#)
- [Hire employees with disabilities](#)



Grow your business

When business is good, it's time to expand. Find new funding, locations and customers.

- [Get more funding](#)
- [Expand to new locations](#)
- [Merge and acquire businesses](#)
- [Become a federal contractor](#)
- [Export products](#)
- [Women-owned businesses](#)
- [Native American-owned businesses](#)
- [Veteran-owned businesses](#)
- [Military spouse businesses](#)
- [Rural businesses](#)
- [Minority-owned businesses](#)

Example of Service website: uspto.gov includes services too

The screenshot shows the official website of the United States Patent and Trademark Office (USPTO). The header features the "uspto" logo, the text "UNITED STATES PATENT AND TRADEMARK OFFICE ®", and a search bar. The top navigation bar includes links for "About Us", "Jobs", "Contact Us", and "MyUSPTO". Below the header, a secondary navigation bar has tabs for "Patents", "Trademarks", "IP Policy", and "Learning and Resources". A "Find It Fast" dropdown menu is also present. The main content area is divided into several sections: "Getting started", "Application process", "Maintaining a patent", and "Tools & links". Each section contains a list of links related to its topic.

Patents **Trademarks** **IP Policy** **Learning and Resources** **Find It Fast ▾**

Getting started

- Patent basics
- Process overview
- Legal assistance and resources
- International cooperation
- Patent FAQs
- Identifying patent fraud

Application process

- Search for patents
- Learn about patent classification
- Filing online
- Checking application status
- Responding to Office actions
- Petitions
- Patent Trial and Appeal Board

Maintaining a patent

- Maintenance fees
- Correcting your patent
- Transferring ownership
- Ordering certified documents

Tools & links

Online patent tools
Locate online patent services and information

Patent fees
View fees and pay online

Global Dossier
View international patent filings

Patent data visualization dashboard
Patent Center and other electronic services

More tools & links

[← All Resources](#)

Required Web Content and Links

A list of required links that all federal websites need to have.

If you manage a public website in the federal government's executive branch, you are required to have certain content — or provide links to content — from specific places on your website.

This page makes it clear:

- what links are required and the purpose they serve
- the text that you should use for each link
- where the link should be located on your site
- which law or policy requires those links

Use the guidance below to implement these required links in a clear, user-friendly way.

Questions? send an email to digitalgov@gsa.gov

In this page

[About Page](#)[Accessibility Statement](#)[Budget and Performance Reports](#)[Equal Employment](#)[External Links](#)[Freedom of Information Act \(FOIA\)](#)[Government Customer Support](#)[Privacy Policy](#)[Report Fraud to the Inspector General](#)[Security](#)

EXERCISE: ANALYZE A SITE'S INFORMATION ARCHITECTURE

- Look at one of these:
 - *sba.gov, uspto.gov, or cbo.gov*
 - *rei.com, titlenine.com*
- Try to infer the organization that underlies the pages
- Look for faceted categories, taxonomies, and thematic relations
- Determine under what circumstances a page can be accessed via multiple different paths

HCI COURSES IN THE I SCHOOL

- User Interface Design & Development (I 213)
- User Experience Research (I 214)
- Information Visualization & Presentation (I 241)
- Interface Aesthetics (C256)
- Tangible User Interfaces (C262)
- Front end web architecture (253A)

(Many others offered on an occasional basis)



Kimiko Ryokai



Nilofer Salehi



Stef Hutka



Kay Ashoalu



Steve Fadden

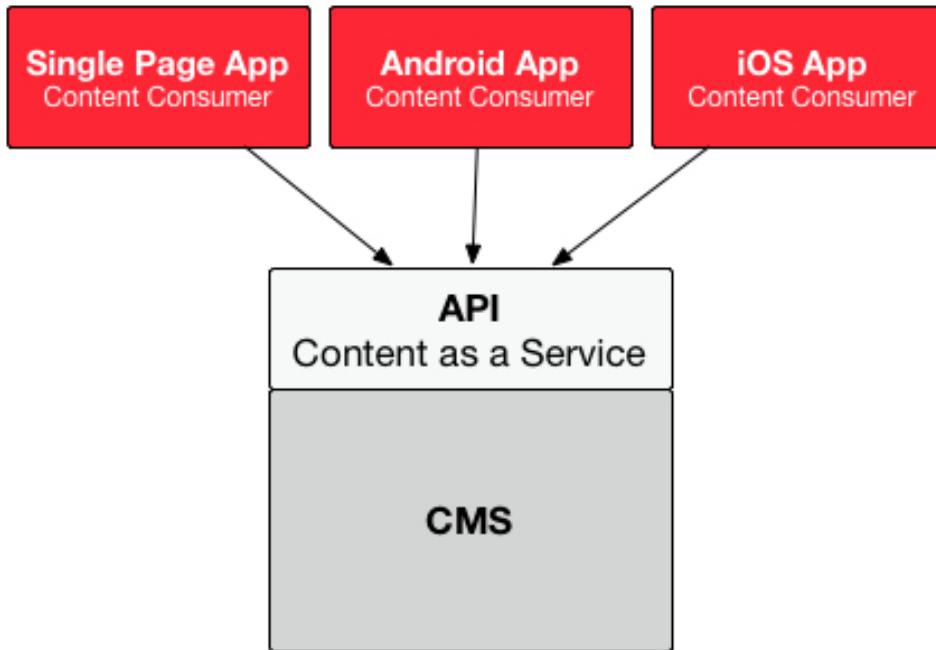


Laith Ulaby

CONTENT MANAGEMENT SYSTEMS

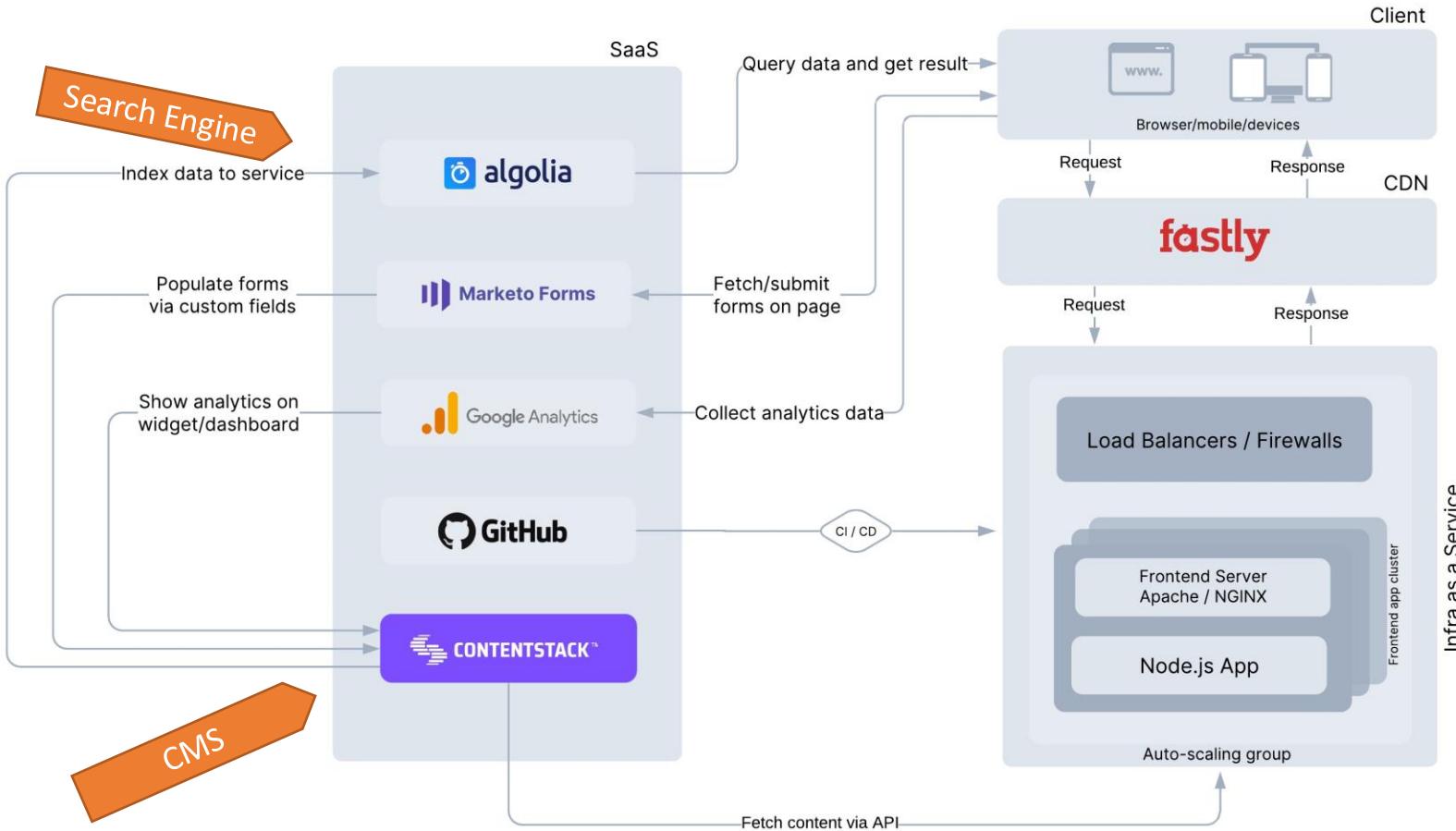
- Helps organize the information
- Allows multiple authors
- Allows generation of websites from the info
- The technology is always changing

Content Management System: Simple Deployment



“headless” CMS: uses a restful API

Simple Website - Detailed Architecture



<https://www.contentstack.com/docs/developers/architecture-diagrams/simple-website-detailed-architecture/>

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SUMMARY: INFORMATION ARCHITECTURE

- Information architecture is a combination of a category system and a navigation structure
- Website design, and information-heavy apps, are a combination of information architecture, graphic, and interaction design
- There are specialized content management systems that aid in creating information architectures, but they are often complex

Next week

Data / Information

Collections

Categories

- Types of categories
- Cognitive / language aspects
 - Naming / Lexical similarity
- Structure
 - Hierarchical / Taxonomy
 - Faceted
 - Overlapping / Clustering
 - Network / Ontology

- **Use in Navigation & Search**
 - **Information Architecture**
 - **Faceted Navigation**

Technology Support for Info Org

- Identifiers
- Metadata
- Markup
- Schema / Databases
- Search Ranking / Evaluation
- Automated category creation
- Automated similarity

Social / Ethical Aspects

- Cultural Bias
- Intellectual Property
- Standards Process

Next week

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