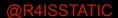
UNDERSTANDING INFORMATION ARCHITECTURE

Paul Rissen, Product Manager Springer Nature



- What is Information Architecture?
- Information Architecture in practice
- The Future of Information Architecture

WHAT IS INFORMATION ARCHITECTURE?









MAMSBUX

-HOW not, co

0

SCREEN BUR



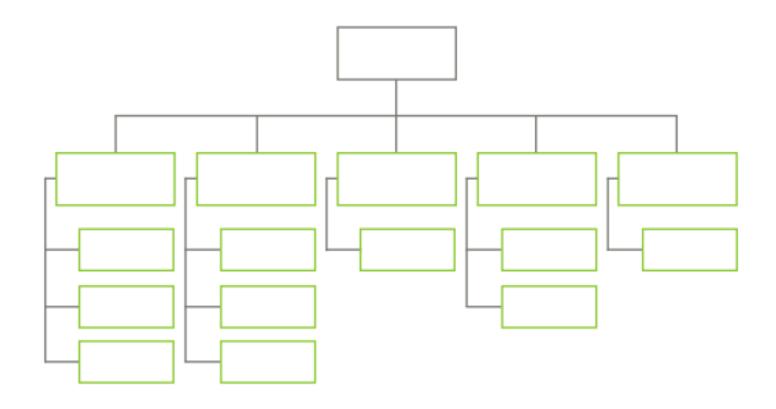
Information Architecture is about making sense

CARD SORTING



Open sort - no set categories;
 generative

Closed sort - fixed categories;
 evaluative



SITE MAPS

Things can only be in one category.

 Requires users to understand your structure before they can use the site.

 Difficult to deal with changes and updates to your structure.

"Everything is deeply intertwingled"



Information Architecture is about making sense of a messy world

INFORMATION ARCHITECTURE IS...

- About describing a world.
- About being able to find things.
- About how you orientate yourself in that world.
- About establishing a flexible conceptual framework for reuse.

Ultimately, about establishing, and sharing, understanding.

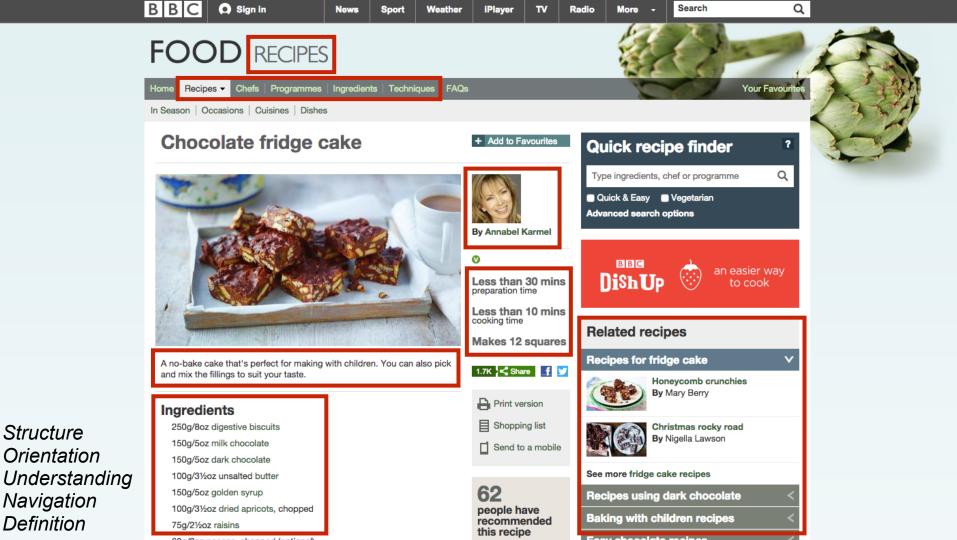
- Structure
- Orientation
- Understanding
- Navigation
- Definition

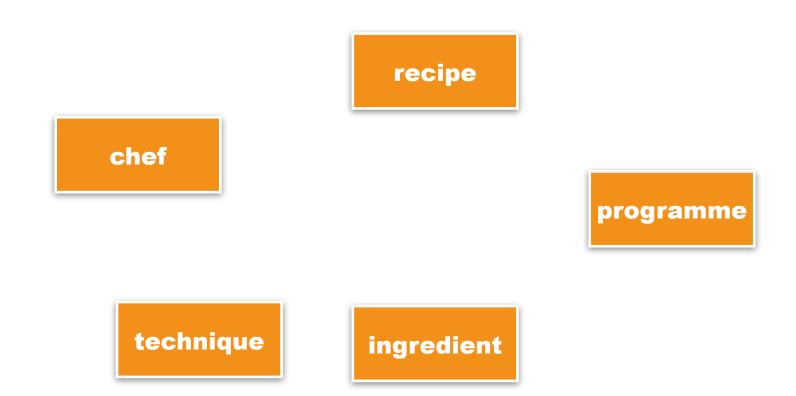
= SOUND



INFORMATION ARCHITECTURE IN PRACTICE







chef

- awards won
- restaurants owned

technique

- equipment needed
- level of skill required

recipe

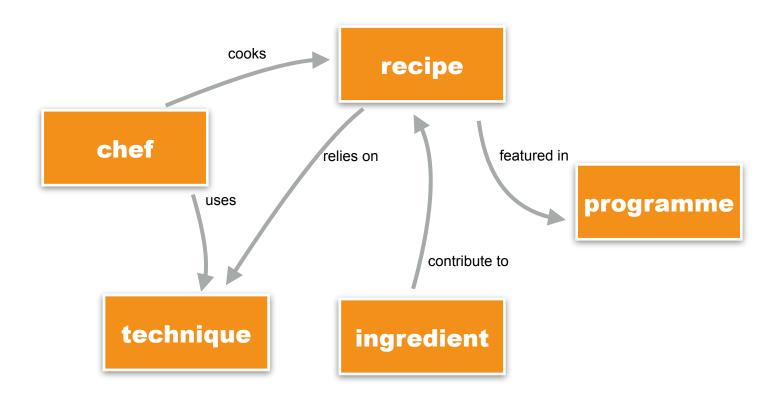
- name
- description
- number of servings
- preparation time
- cooking time

ingredient

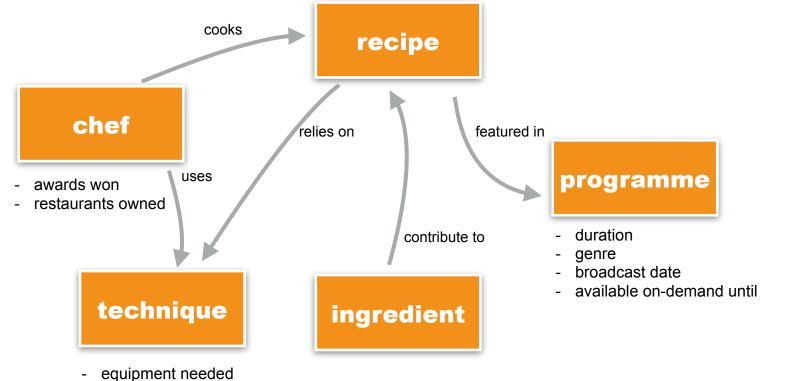
- seasonality
- allergy advice

programme

- duration
- genre
- broadcast date
- available on-demand until



DOMAIN/CONTENT MODELLING



- level of skill required

HOW TO DOMAIN MODEL

Break down the subject

Break a subject down into the things people think about

Connect each thing

Show how these real-world concepts actually join up

Label the connection

Define the relationship one thing has to another

EXPERT & USER INTERVIEWS

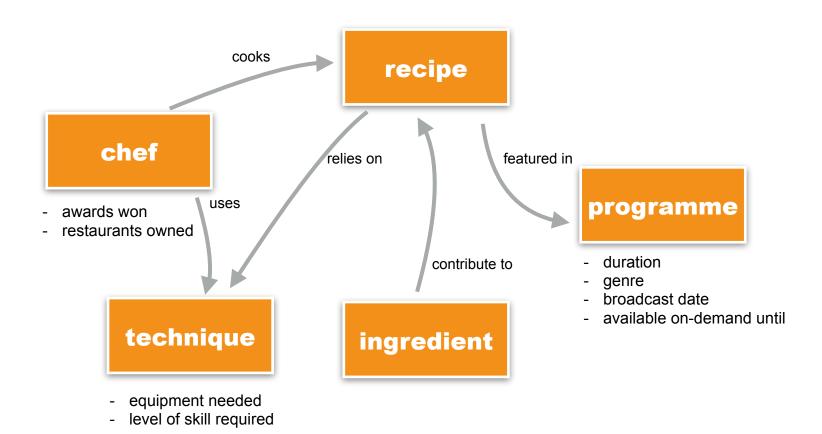
Subject experts

Get an overall picture of their world. Find where the borders are and demystify any jargon.

Target users

Discover their priorities. Which things do they care most about? Does their terminology differ?

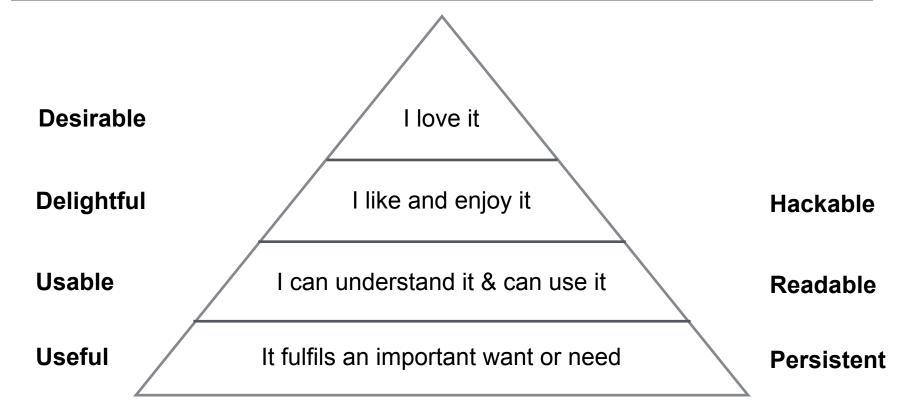
Experts map the world, users mark points of interest.



INFORMATION ARCHITECTURE IN PRACTICE: URL DESIGN



WHY DESIGN URLS?



...AND THE GREATEST OF THESE IS PERSISTENCE

If it doesn't have a URL, it's invisible

Discoverable, searchable, linkable, sharable from anywhere

Cool URIs don't change

Design for persistence, then readability, then hackability

http://www.w3.org/Provider/Style/URI.html

Each URL is a promise to your users. Don't be the one to break the promise.

A NOTE ON HUMAN-READABLE URLS

"One thing we do know is the importance of links to Page Rank and if URLs move, links break and Page Rank evaporates...

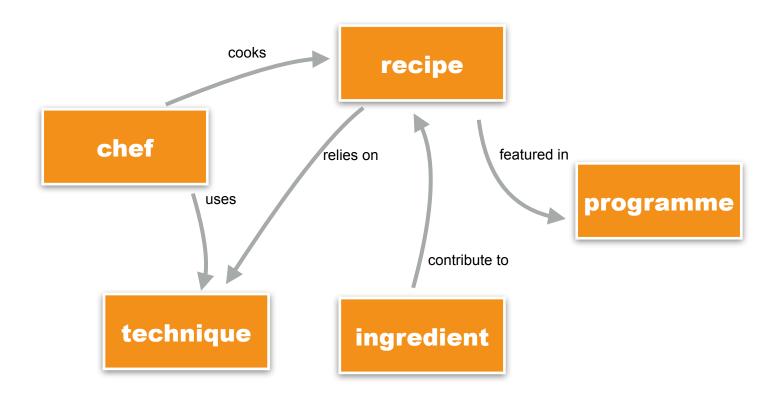
Keyword stuffed URLs suggest to users that they're hackable when they aren't. So we didn't and /programmes doesn't seem to have suffered in the eyes of Google et al...



"...cost is the big factor in all of this. For large data volumes you need human intervention to allocate URL keys. And human intervention is expensive. And humans make mistakes and change their minds. So you need to start storing history to generate redirects. Which adds storage and code complexity and makes things more expensive."

THE URL SCHEMA IS THE SKELETON OF YOUR SITE

- There is a key difference between the **structure** of a site, and the **appearance** of a site.
- Aim for a website structure that is persistent as possible.
- Any form of categorisation should be held as structured metadata.
- Then, presentation & user journeys can be flexible, whilst SEO benefit is maintained.

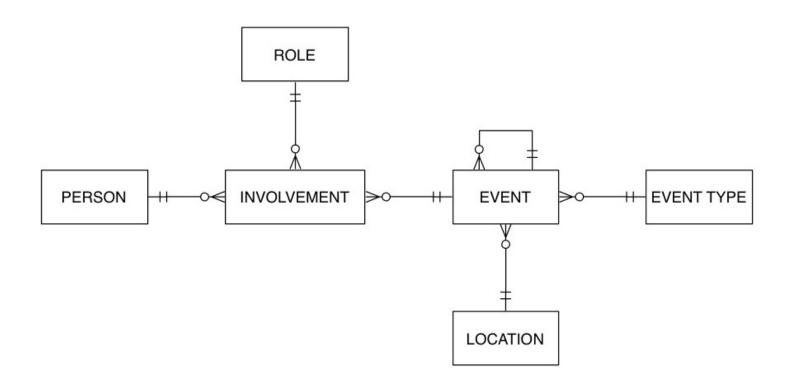


http://www.example.com/recipes
 Resource Aggregations

http://www.example.com/recipes/:id
 Resources

http://www.example.com/recipes/:id/ingredients
 Aggregation in Context

Never hack back to a hole. No 404s, please!



CONFERENCE DOMAIN MODEL

rther Definition (if required)	URL	Red
	http://iasummit.org	
n-year specific) information	http://iasummit.org/about	
	http://iasummit.org/vision-and-values	
A Summit events.	http://iasummit.org/code-of-conduct	
Homepage URL purely for marketing purposes	http://iasummit.org/:year	YES (to /
	http://iasummit.org/blog	
	http://iasummit.org/blog/:id	
to be decided to which hierarchy level	http://iasummit.org/events	
is can be a session page, or indeed the IAS15 'homepage'	http://iasummit.org/events/:id	
vent - e.g. the IAS15 specific conference-level information	http://iasummit.org/events/:id/about	
articular Event.	http://iasummit.org/events/:id/testimonials	
	http://iasummit.org/events/:id/people	
r role at the Event - mainly used for Speakers & Staff	http://iasummit.org/events/:id/people/[role-type]	
	http://iasummit.org/events/:id/locations	
	http://iasummit.org/events/:id/topics	
	http://iasummit.org/events/:id/sponsors	
ecific Event	http://iasummit.org/events/:id/cfp	
vent	http://iasummit.org/events/:id/blog	
date/time order	http://iasummit.org/events/:id/schedule	
nin an Event (ordered by type - Session, Workshop etc.)	http://iasummit.org/events/:id/schedule/by	
ithin an Event	http://iasummit.org/events/:id/schedule/by/[event-type]	
e IA Summit, regardless of year or event type	http://iasummit.org/people	
page for a Person involved with the IA Summit.	http://iasummit.org/people/:id	4 >

D

CONFERENCE SITE MAP

C

URL Structure

We aim to support permanent URLs for the main domain objects of the IA Summit 2015. We also intend to create a space for the IA Summit going forward, regardless of a particular year's event. This is especially important for three main things:

- General, non-year-specific information about the IA Summit
- Consistent, permanent presence for people involved with the IA Summit
- Topic aggregation pages, so that users can find interesting content about a topic, regardless of which year a session was presented. (to be added to the domain model in a future version)

General IA Summit Information

http://iasummit.org
http://iasummit.org/about
http://iasummit.org/people
http://iasummit.org/people/:id
http://iasummit.org/people/:id/events

Year specific information (sticking with established pattern for now, exact wording to be discussed)

http://2015.iasummit.org

http://2015.iasummit.org/people (a list of all the people, regardless of role)

http://2015.iasummit.org/people/[role-type] (a list of all the people with involvements that match a specific role)

http://2015.iasummit.org/people/:id (the year specific information about a person, including a list of all their involvements)

http://2015.iasummit.org/people/:id/events (a list of all the events a specific person is involved in)
http://2015.iasummit.org/events (a list of all the events for a specific year, regardless of type {timetable view?})

http://2015.iasummit.org/events/[event-type] (a list of all the events which match a specific event type)
http://2015.iasummit.org/events/:id (a specific event, including a list of all the people involved)
http://2015.iasummit.org/locations (a list of all locations - i.e. the rooms do we need this?)
http://2015.iasummit.org/locations/:id (a specific location/room do we need this?)

INFORMATION HIERARCHIES OVER WIREFRAMES

- What concept does this page represent?
- What is the H1?
- What is the prioritised order of information on the page, regardless of layout?
- Designing for your least able user first.
- Accessibility is baked in, not an after thought

THE FUTURE OF INFORMATION ARCHITECTURE

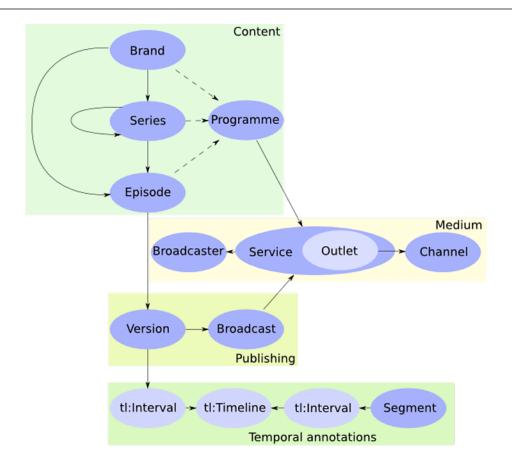


Answer: the machine.

COMPUTERS ARE STUPID.

- Computers can't understand the world.
- All they see is strings of letters and numbers.
- But we can 'teach' them about the world, by feeding them our domain models in a language they understand - an Ontology

THE PROGRAMMES ONTOLOGY



- Computers speak in triples
- Subject, predicate, object
- The cat, sat on, the mat.

- 'Fugitive of the Judoon' was broadcast on BBC One.
- 'Fugitive of the Judoon' was first broadcast on Sunday 26th January 2020.
- 'Fugitive of the Judoon' was directed by Nida Manzoor.

'Fugitive of the Judoon' was broadcast on BBC One.

https://www.bbc.co.uk/programmes/m000dtqx

<http://purl.org/ontology/po/broadcast_on>

<http://www.bbc.co.uk/bbcone>

291 - "Fugitive of the Judoon"

Doctor Who episode

Cast

Doctor

Jodie Whittaker (Thirteenth Doctor)

Companions

- Bradley Walsh (Graham O'Brien)
- Tosin Cole (Ryan Sinclair)
- Mandip Gill (Yasmin Khan)

Others

- . Jo Martin Ruth Clayton / The Doctor
- John Barrowman Captain Jack Harkness
- Neil Stuke Lee Clayton
- Ritu Arya Gat
- Paul Kasey Judoon Captain Pol-Kon-Don
- Michael Begley All Ears Allan
- Judith Street Marcia
- Katie Luckins Tourist
- Nick Briggs Voice of Judoon Captain
- Simon Carew Judoon
- Richard Highgate Judoon
- Richard Price Judoon
- Matthew Rohman Judoon

Production

Directed by Nida Manzoor Written by Vinay Patel

Chris Chibnall

Fugitive of the Judoon

Doctor Who: Season 12, Episode 5



An eccentric yet compassionate extraterrestrial Time Lord zips through time and space to solve problems and battle injustice across the universe, travelling via the TARDIS (Time and Relative Dimensions in Space), an old and occasionally unreliable spaceship that resembles a blue police phone box (bu... MORE >

Show: Doctor Who

Air date: 26 January 2020

Previous episode: Nikola Tesla's Night of Terror

Next episode: Praxeus

Available on

Google Play Movies & TV

From £1.99

View 15+ more



Tesla's

Night of...







Paul Rissen



Books: Experiment-Driven Product Development: How to Use a Data-Informed Approach to Learn, Iterate, and Succeed Faster

Profiles



Feedback

People also search for



Orphan 55



Part 2





You Away

schema.org **Custom Search** Q Schemas Home Documentation **Event**

Thing > Event

An event happening at a certain time and location, such as a concert, lecture, or festival. Ticketing information may be added via the offers property. Repeated events may be structured as separate Event objects.

[more...]

Property	Expected Type	Description
Properties from Event		
about	Thing	The subject matter of the content. Inverse property: subjectOf.
actor	Person	An actor, e.g. in tv, radio, movie, video games etc., or in an event. Actors can be associated with individual items or with a series, episode, clip. Supersedes actors.
aggregateRating	AggregateRating	The overall rating, based on a collection of reviews or ratings, of the item.
attendee	Organization or Person	A person or organization attending the event. Supersedes <u>attendees</u> .
audience	Audience	An intended audience, i.e. a group for whom something was created. Supersedes serviceAudience.
composer	Organization or Person	The person or organization who wrote a composition, or who is the composer of a work performed at some event.

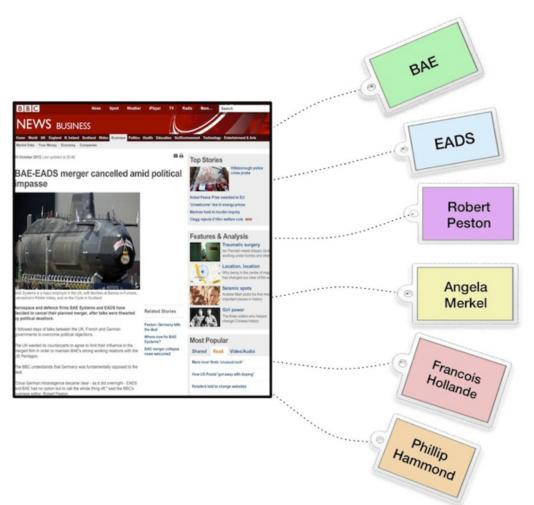
IA FOR THE UPSIDE-DOWN WEB

- Design from the bottom-up, focusing on making your 'thing' pages understandable when accessed directly
- Consider the needs of each device and keep content structure a separate concern from interface design
- Use machine-readable, structured data to teach computers what your content is about and what other things it's related to

CASE STUDY: BBC NEWS



What we can do with traditional tagging

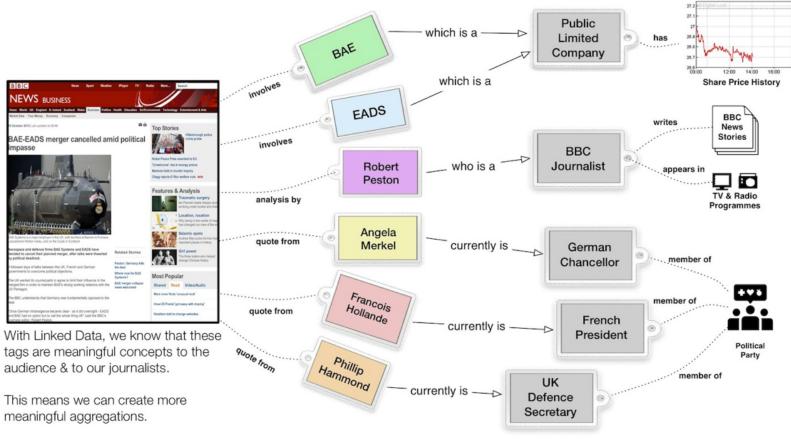


With traditional tagging, we can easily aggregate stories that have been tagged with the same thing, but that's about it.

These tags have no meaning, and their relationship to the story is unclear.

So, we can ask:
"Find me all the stories tagged with..."
but not much else.

What we can do with Linked Data



We can ask more intelligent questions of our content.

We can make more meaningful links.

"Find me all stories with quotes from..."

"Find me all stories involving..."

"Find me all programmes featuring..."

"Find me all stories with analysis from..."

"Find me the share price history of..."

"Find me other members of this Party..."

The BBC News App - My News - powered by tags







Blair: My '100% backing' for Miliband

6 mins ago | Election 2015





Pandas 'did not mate naturally'

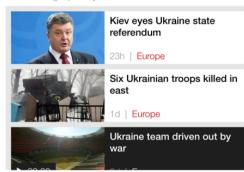
27 Mar | Edinburgh, Fife & East Scotland





Poles plan Kaliningrad watch towers

23 hours ago | Europe



SUMMARY

- Card Sorting and Hierarchies
- SOUND and page-level IA
- Domain Modelling for user mental model-based site-wide IA
- Persistent URL design as a key part of UX
- Teaching machines to understand our world

QUESTIONS TO ASK ON A PROJECT

- Does the information on this page make sense to users?
- What about the hierarchy of that information?
- What if you only had one column?
- Does the site hold together in a meaningful way?
- What URL will each thing be at? How persistent will they be?
- If redesigning, how do we ensure current experience won't be disrupted? (redirects, for instance)
- What information is accessible without any CSS or Javascript?
- What information (if any) is machine readable?

Try not to impose your understanding on your audience.

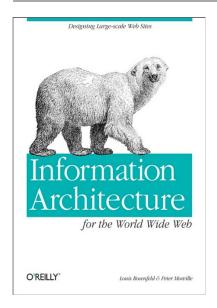
- Listen to why people make certain choices
- Expect disagreement
- Use real customers, not staff
- Remember there is no perfect answer do what works for the majority of your audience, and then help out the others.

Information Architecture is a conversation with your users.

...AND MOST CRUCIALLY...

- Information Architecture is a key part of User Experience.
- It is most concerned with providing users with what they want, when they want it, and showing them the next step.
- Good IA lives or dies by its' relationship with users.
- If it doesn't take into account an understanding of the user's world, it will fail.

FURTHER READING



Information Architecture for the World Wide Web Louis Rosenfeld & Peter Morville



Content Everywhere Sara Wachter-Boettcher



A Practical Guide to Information Architecture Donna Spencer

HOW TO MAKE SENSE OF ANY MESS

Abby Covert

How to Make Sense of Any MessAbby Covert



FURTHER READING

- How we make websites BBC Radio Labs
 http://www.bbc.co.uk/blogs/radiolabs/2009/01/how we make websites.shtml
- Designing for your least able user BBC Radio Labs
 http://www.bbc.co.uk/blogs/radiolabs/2009/03/designing_for_your_least_able.shtml
- http://www.bbc.co.uk/ontologies
- http://www.bbc.co.uk/things
- Designing a URL Structure for BBC programmes an in depth look at URL design considerations: http://smethur.st/posts/176135860

THANK YOU!

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