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Search

Jakob Nielsen's Alertbox, May 11, 2009:

Top 10 Information Architecture Mistakes

Summary:

Structure and navigation must support each other and integrate with search and across subsites. Complexity, inconsistency, hidden options, and clumsy UI mechanics prevent users from finding what they need.

Bad information architecture <u>causes the majority of outright user failures</u> and isn't improving at the rate of other Web usability issues. To determine why, I've identified 10 long-term sore thumbs that together cost websites billions of dollars each year.

I divided the following list of worst IA mistakes into two parts, which corresponds to how we partition the materials across our 2-day IA course: <u>structure on Day 1</u> and <u>navigation on Day 2</u>. Of course, you need to get both right, but they're essentially two different design levels: The **invisible** way the site is structured and the **visible** way users understand and manage that structure.

Structure Mistakes

1. No Structure

The most notable structural problem is when designers treat a site like one big swamp with **no organizing principle** for individual items. Yes, users can fish the swamp using search or by following links from current promotions or outside sites. But whatever they dredge up is it. No opportunities for understanding the site's other offerings or locating related items.

This sin is common on news sites and catalog-based e-commerce sites, where each item (articles and products, respectively) is treated as a stand-alone unit without connections to related items. No wonder users leave those sites so quickly.

2. Search and Structure Not Integrated

We've long known that users often exhibit <u>search-dominant behaviors</u>. This doesn't mean that search is all they need, however. Arriving on a page from a search is like parachuting into a city. Hopefully, if you want to go to Paris, you'll land there rather than in Amsterdam, but in any case, you're unlikely to land on the doorstep of your favorite restaurant. To get there, you'll need to walk or take a cab. Similarly, users often need to **navigate the neighborhood around their search destination**.

Of course, local navigation works only if the site has a structure to define its neighborhoods (see mistake #1). But the design must also expose local options to users. Even better if it indicates how relevant the neighboring options are to the user's current query.

SERP (search engine results page) usability increases when each search hit exposes its location within the site structure. External search engines like Google can't always do this because they don't know the site's structure or which navigational dimensions are most relevant to common site tasks. But you do know your site's structure and should therefore include the info on your own SERPs.

Sadly, search and navigation fail to support each other on many sites. This problem is exacerbated by another common mistake: navigation designs that **don't indicate the user's current location**. That is, after users click a search result, they can't determine where they are in the site — as when you're searching for pants and click on a pair, but then have no way to see more pants.

3. Missing Category Landing Pages

We recommend that sites have a series of categories that each link to their own landing page that gives users a **section overview**. Sometimes, sites forego the overview page and simply offer links directly to individual pages within a section. This might reduce the number of site pages, but when no page is clearly identified as a sub-topic page, users can misunderstand the site's scope and miss important details, products, and services.

<u>Category pages</u> also help SEO because they're the most prominent landing place when people search for a type of product, service, or information. They're also a way to overcome mistake #2 because they help users bump up a level or two in the site structure if search takes them to an overly detailed leaf node. (<u>Breadcrumbs</u> facilitate users' ability to easily move up the levels.)

4. Extreme Polyhierarchy

Compared to the physical world, one of the online world's benefits is that items can live in multiple locations. Because websites can classify products and other content along multiple dimensions, they help users navigate locally to related items and provide faceted winnowing of a large product space into manageable shortlists that can satisfy the user's main requirements.

This is all good, but polyhierarchy can easily become a crutch. Rather than spend time upfront to develop several intuitive and logical top-level categories, teams rush through this important process, creating numerous weak categories and listing products multiple times within them. The usability impact? Users spend too much time agonizing over top-level categories and then get confused when they see items showing up in multiple places ("are these the same thing?").

With too many classification options and too many structured dimensions, users are forced to think harder to move forward. The profusion of options also makes people question the information scent. This lack of confidence early in the site experience extends throughout their visit and can negatively impact the end result (by thwarting a purchase, for example).

5. Subsites/Microsites Poorly Integrated with Main Site

Abandoned microsites litter the Web as the detritus of old marketing campaigns. A dedicated microsite might have been a good idea back when you launched a new product, but by the next year it's undermining your online strategy and diluting your

online presence.

Web design is design for the ages. Think about how anything you do will feel in 5 years.

It's typically best to forego independent microsites and place new information on subsites within the main site. But you still need to integrate these subsites within the overall site structure.

For example, on both microsites and subsites, we often see product-specific pages that <u>fail to link to information about the company or organization</u> behind the offering. Further, many sites poorly represent their subsites in the main site search — which often ignores microsites altogether.

Navigation Mistakes

6. Invisible Navigation Options

The very worst mistake might be to have *no* navigation, but that's so rare that I'm not going to discuss it. Still, any feature that users can't see might as well not exist; invisible navigation is thus nearly as bad as no navigation.

Uncovering navigation shouldn't be a major task: Make it permanently visible on the page. <u>Small children like minesweeping</u> (passing the mouse around the screen to see what's hidden), but <u>teenagers</u> don't like it, and adults hate it.

Similarly, you should avoid **banner blindness bleed**, when either the navigation itself looks like a banner or you place it next to elements that <u>look like advertising</u> and thus users screen it out. Even if it's on the screen, your navigation might as well be invisible if users don't look at it.

7. Uncontrollable Navigation Elements

Typically, anything that moves and bounces detracts from Web usability; when navigation moves while users are trying to find their way, it's deadly. Users should focus on the higher-level problem of where to go, not the lower-level problem of how to manipulate the GUI.

Two common offenders here are overly sensitive rollovers that launch and block content, and elements that move, spin, or rotate of their own accord. Users routinely complain about these types of elements. Designers and programmers who include them in websites severely underestimate the business impact of <u>user frustration</u>.

8. Inconsistent Navigation

Navigation exists to help users, not to be a puzzle in its own right. Users should be able to understand it immediately, and apply that understanding throughout the site. Sadly, lots of sites change their navigation features as users move around. Options come and go, making users feel a loss of control. *How do I get that menu choice back? I saw it just a few pages ago.*

Although **global navigation** is not a site's most popular element, its persistence serves a key purpose: it's a beacon that helps users understand both where they are

and how they can easily maneuver back to the top of the site if they lose their way.

9. Too Many Navigation Techniques

Our full-day <u>seminar on navigation design</u> covers **25 different website navigation techniques**. Each approach has its own usability advantages and potential downsides, leading to the seminar's focus on design trade-offs — that is, when to use what form of navigation.

One thing is clear: each navigation technique has its place on certain types of websites and intranets. But, if you use them all, you don't get the sum of each technique's benefits. You get a **mess**.

Competing for users' attention. Too many places to look. Overwhelming. Don't.

10. Made-Up Menu Options

In the past, this mistake would have ranked higher, but luckily it's less predominant today than it used to be. Still, too many sites continue to make up their own terminology for labels and other navigation choices.

In addition to perplexing users, made-up navigation terms also hurt search; users can't find something if they don't know what it's called. Even if you provide synonyms, the main navigation terms carry extra SEO weight and it's a waste to optimize for a query that nobody will issue.

<u>Old words are better</u>. When users understand their choices, they're more likely to pick the right one. Speak plainly and speak simply. If users don't understand a menu item, they're less likely to click on it. Paradoxically, companies are particularly prone to making up fancy terms for their newest and most important offerings, thus shooting themselves in the foot with a double-barreled rifle.

Learn More

2 full-day courses on information architecture:

- IA 1: Structure Design
- IA 2: Navigation Design

at the <u>Usability Week 2009 conference</u> in London (next week), San Francisco, New York City, and Sydney.

Report on Intranet Information Architecture analyzes <u>56 intranets' structure and</u> <u>navigation systems</u>.

Other Top-10 Lists

Most of the following top-ten lists are still highly relevant for today's websites. Even as we get new mistakes, the old ones don't go away, though (happily) they do become less common.

- <u>The ten very worst design mistakes</u> of all time Summary based on the main elements of the other lists.
- High-Profit Redesign Priorities

- <u>Usability in the Movies</u> Top 10 Bloopers
- Most violated homepage guidelines
- <u>Top homepage usability guidelines</u>
- <u>Good deeds in Web design</u>
- <u>Web design mistakes</u> (2005)
- <u>Web design mistakes</u> (2003)
- <u>Web design mistakes</u> (2002) With cartoons.
- Web design mistakes (1999)
- <u>Web design mistakes</u> (1996) My first list. Luckily, many of these mistakes have been fixed by now.
- <u>Application design mistakes</u>
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