

Overview:

- Design Principles Revisited
- Web design
- Navigation design

- Reading
 - ID book 1.7.3, 7.2.2, 7.2.5,

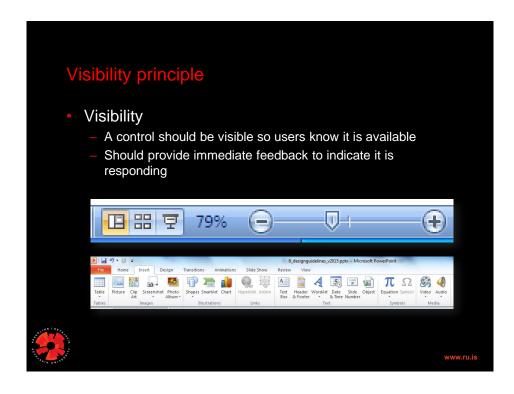


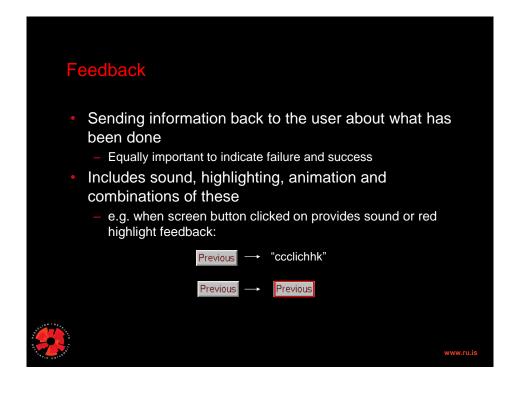
5 Key Design Principles from Chapter 1 1. Visibility 2. Feedback 3. Constraints 4. Consistency 5. Affordance

Design principles

- Generalizable abstractions for thinking about different aspects of design
- The do's and don'ts of interaction design
- What to provide and what not to provide at the interface
- Derived from a mix of theory-based knowledge, experience and common-sense







Constraints

- Restricting the possible actions that can be performed
- Helps prevent user from selecting incorrect options
- Physical objects can be designed to constrain things
 - e.g. only one way you can insert a key into a lock



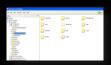


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Consistency

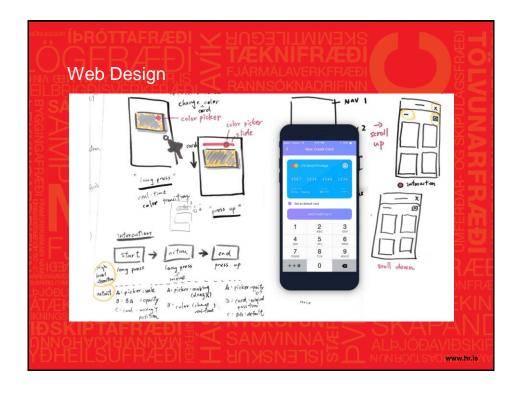
- Design interfaces to have similar operations and use similar elements for similar tasks
- Main benefit is consistent interfaces are easier to learn and use
- Inner consistence within the system
 - To make it easy for the user to user actions that they have not used before.
- Outer consistence With other systems
 - Exploiting prior knowlegde
 - Also knowlegde of other equipment f.x. Calculator











Web Design

Three specific areas:

- Designing the structure
 - According to the user's goals
 - The grouping of information is very important
- Helping users know where they are
 - E.g. on the web, the logo is placed in the upper left hand corner
- Helping users navigate

These three areas are all taken into consideration even while designing low fidelity prototypes

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1. Designing the structure

What is the web site supposed to communicate?

- Content rich
- Web application

Need for structure

- What is on each page?
- The layout on each page?
- Where the things are placed?



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For content rich web sites content is king Structure of the website is directed by the structure of the content Information science Taxonomy

- Content matters in SEO (leitarvélabestun)
- An example of content put in the driver's seat:
 - https://www.gov.uk/



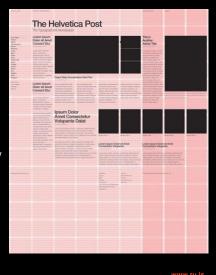


Using a grid based layout helps structure and organize the content

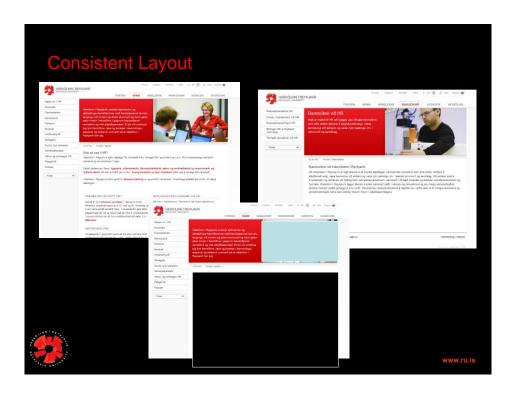
- Also real handy for responsive design
- More:

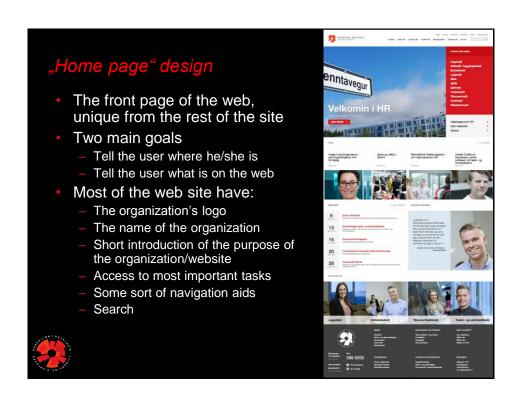
Grid

 https://www.creativebloq.com/ design/grid-based-webdesign-beginners-guide-9107116









Below the fold

- The whole home page is not visible when you open it
- Anything that is not immediately visible is called "below the fold"
 - Indicate that there is more
- Above the fold content is the most important content
 - Scrolling very common, if people know there is more to come





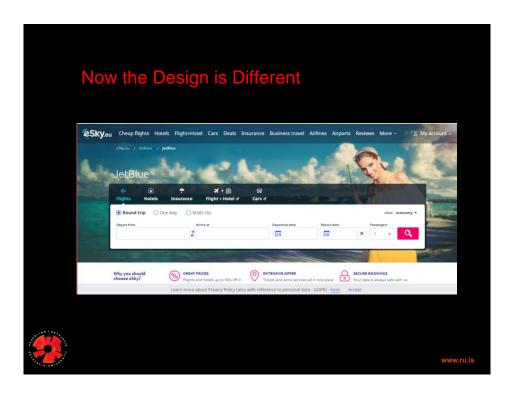
One track mind

 The way you see your website

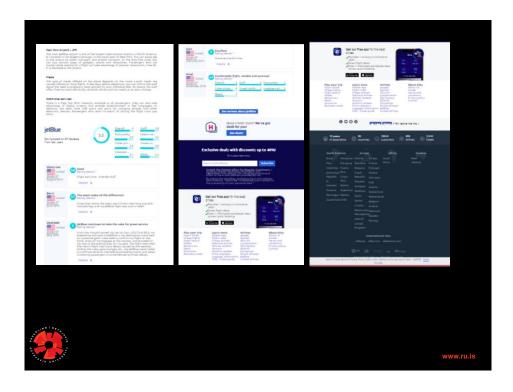


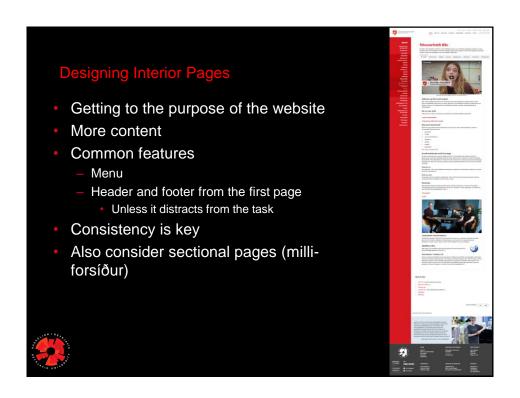
The way your users see your website

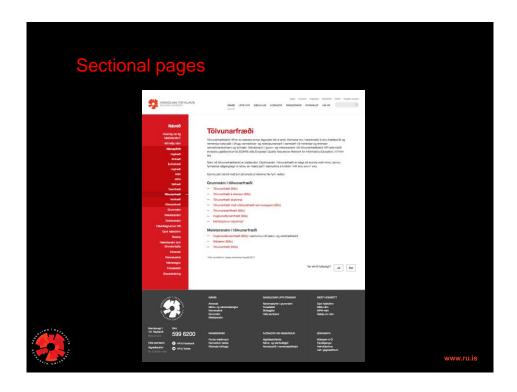












Smart phones and pads

- People expect to be able to access any website on their smart phone or pad.
- To design for these different screen sizes is tricky
 - Endless resolution considerations...
 - A consideration for all software, be it content sites or apps.
 - Mouse/keyboard vs finger
- All about tradeoffs
 - Different constraints



Steve Krug (Don't make me think, 2014): Managing real estate challenges **shouldn't** be done at the cost of usability

Designing for different screen sizes

- Two opposing schools of thought:
 - Repurposing: make as few designs as possible —
 preferably only one and reuse the same material across
 as many platforms as possible (responsive design).
 - Platform optimization: design different user interfaces for each main platform, integrating the user experience layers as tightly as possible.
- http://www.nngroup.com/articles/repurposing-vs-optimized-design/



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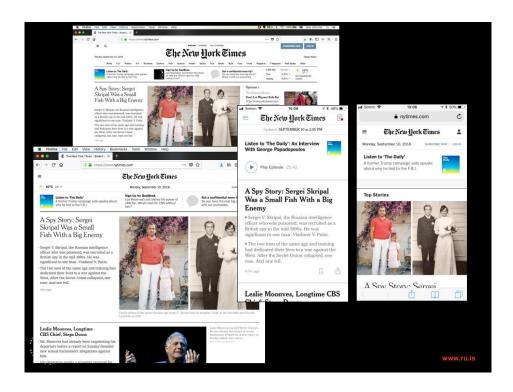
Responsive design

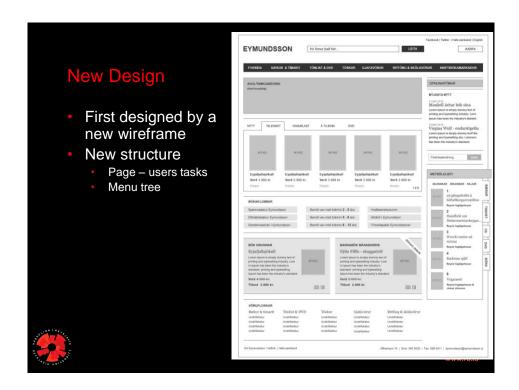
- Design for different screen sizes
 - One codebase
 - Breakpoints
 - Smooth transitions
- Easier to maintain
- Sacrifices the capabilities of the operating system
 - Location
 - Notifications

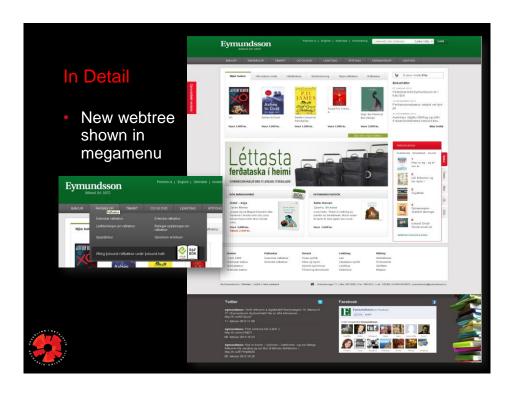


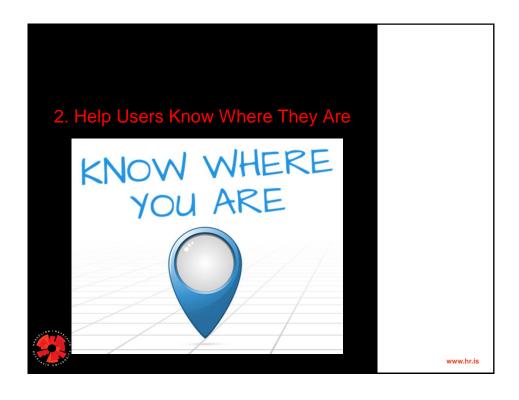


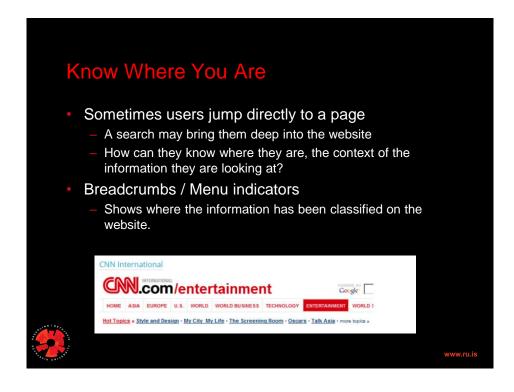


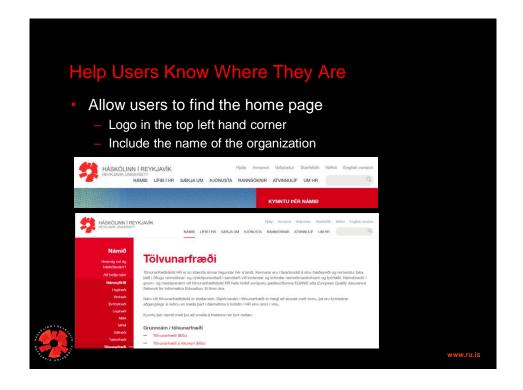


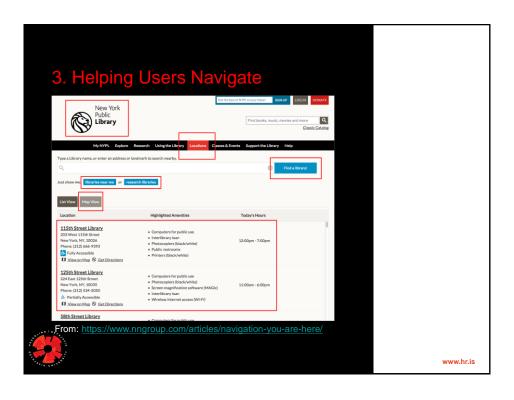














Navigation aids in content

Menus

 The first place people look to understand what is included on the site. Important to for situational context. Many users do not land on the homepage, so orientation is essential.

Links

- Help users make connections between related content.
 - http://www.freshconsulting.com/navigation-ui-design/

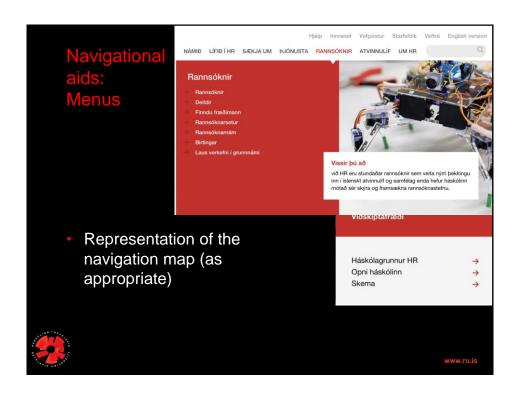
Header and Footer

Information-heavy sites can be made manageable with grouping of information

Breadcrumbs

 Like chapter headings in a book, breadcrumbs give situational context.





Navigation aids: Links

- Three types of links
 - "Structural navigational links"
 - Reflect the structure of the web site
 - Direct users to other parts of the web
 - "Associative links" (bookmarks)
 - Group the information within the page
 - · Direct users to other parts of the same page
 - "See also" links
 - Direct users to related content



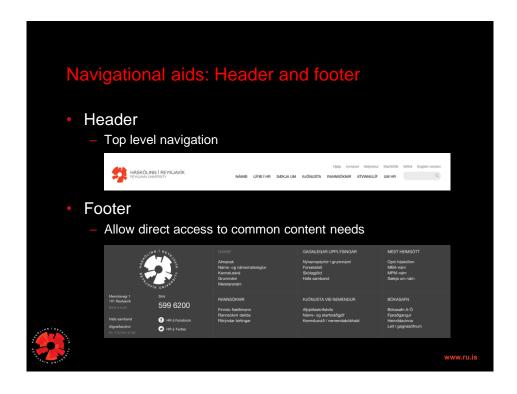
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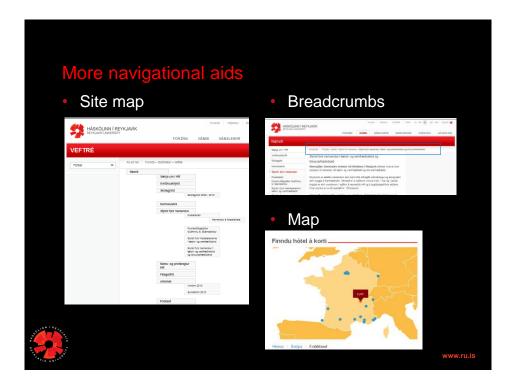
Navigation aids: Links

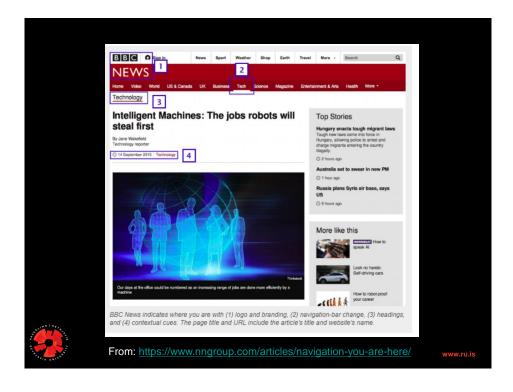
- What words should we use?
 - Which is better:
 - "Visiting?"
 - "How to find us"
- Instead of link we can use:
 - Button
 - Selectable graphical images
 - Drop-down lists
- Guidelines
 - www.usability.gov

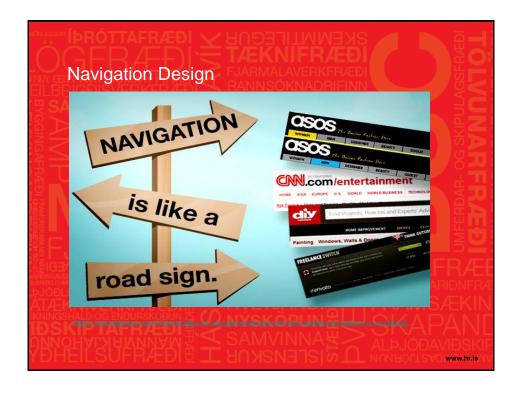


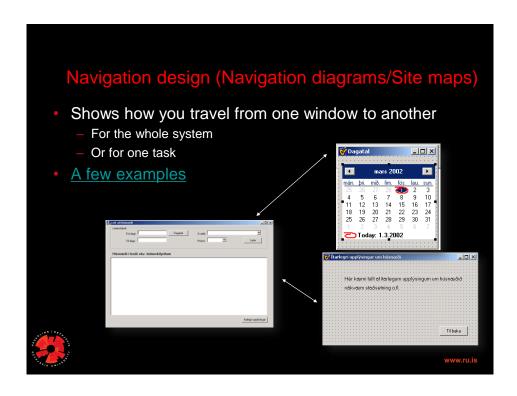


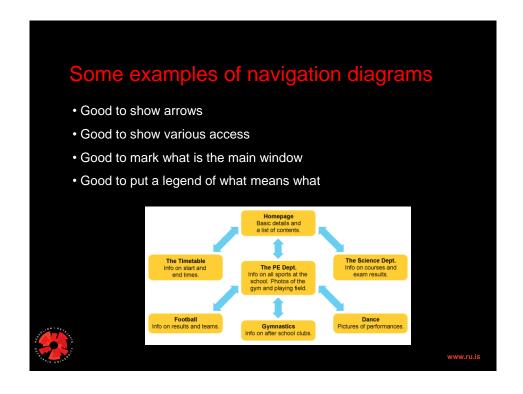


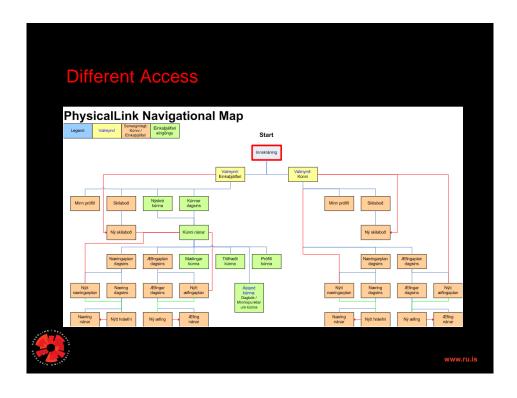


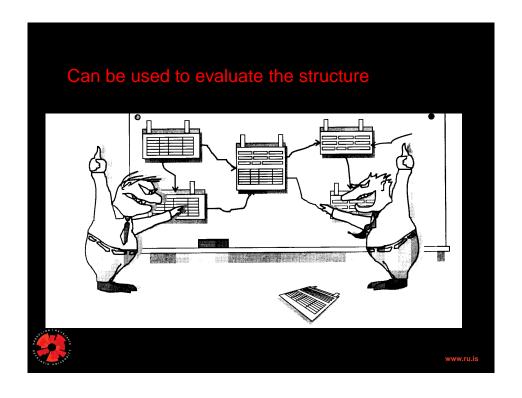


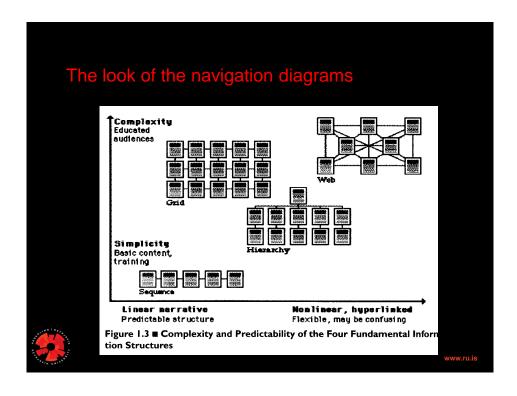


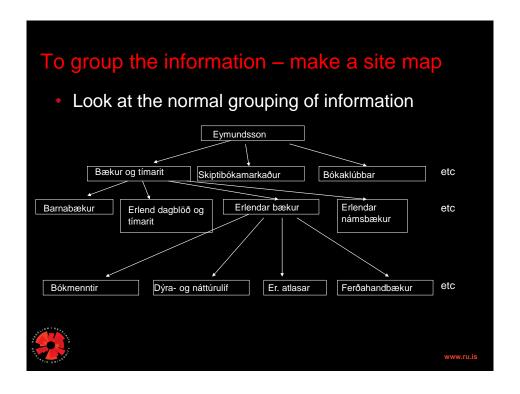


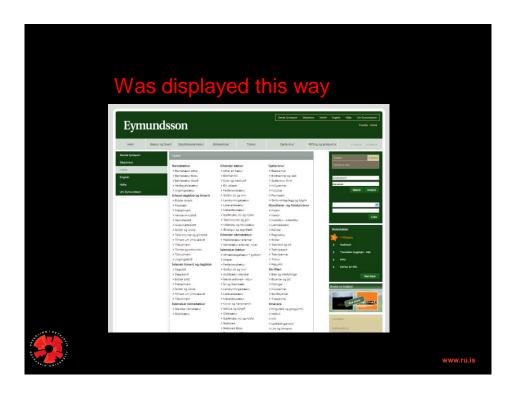


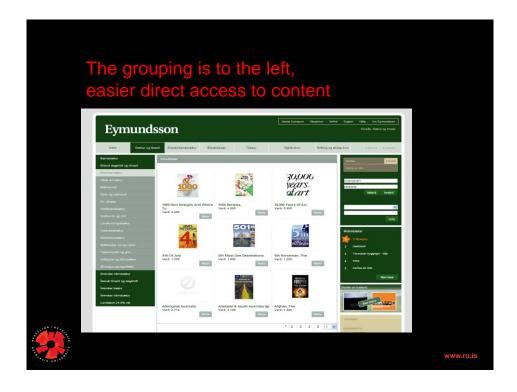












Then we have many questions

- How deep and wide should the web tree be?
 - Often better to have rather wide than deep
 - Mega menus, show 2-3 levels at a time very good to orient the user quickly
- Is it better to divide a block of information into several short pages or leave it as one long page?
 - Consider context and continuity
 - Load time in the beginning, but not in between
 - Keep together it naturally belongs together



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More questions

- Is it ok to combine pages?
 - For example information on many books on the same page?
 - If the information is related then, yes
 - Use of tabs very popular, gives us a shallower site sometimes
 - Pagination vs. continuous scrolling
- Does the structure of the site reflect the structure of the tasks the users want to carry out?
 - Look at what books are available Browsing
 - Look for a particular book Searching
 - The structure needs to support both



Should not reflect the internal organization of the company

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