























Regular Expression Examples (u|e)nabl(e|ing) matches unable unabling enable enabling (un|en)*able matches able

- unable
- unenable
- enununenable

Structured Queries

- So far, we assumed documents that are entirely free of structure.
- Structured documents would allow more powerful queries.
- Queries could combine text queries with structural queries: queries that relate to the structure of the document.
- *Example*: Retrieve documents that contain a page in which the phrase "terrorist attack" appears in the text and a photo whose caption contains the phrase "World Trade Center".
- The corresponding query could be:**samepage**("terrorist attack", **photo**(**caption**("World Trade Center"))).
 - The three main structures:
 - 1. Form-like fixed structure
 - 2. Hypertext structure
 - 3. Hierarchical structure



retrieval setting (XML-ish stuff)













SFQL (Structured Full-text Query Language)

- · Document retrieval language based on SQL.
- · Merging of database and information retrieval technologies.
- · Documents are stored in relations.
- Each document is a row.
- Documents are assumed to be marked ("tagged") by a standard markup language, such as SGML.
- There are columns for "tagged" regions of the documents; for example,
 - Date
 - Abstract
 - The full text
- The familiar SELECT statement is used to express queries. It consists of three basic clauses:
- The from clause lists the document collections.
- The where clause specifies the criteria for including documents (records)in the result.
- The **select** clause specifies a list of tag-fields to be returned from matched documents (records).
- Example:
 - Select author
 - From Washington-Post union Washington-Times
 - Where title contains "Michael Jordan" and date > 10/1/01 and article contains "return" within 3 words of "game";

