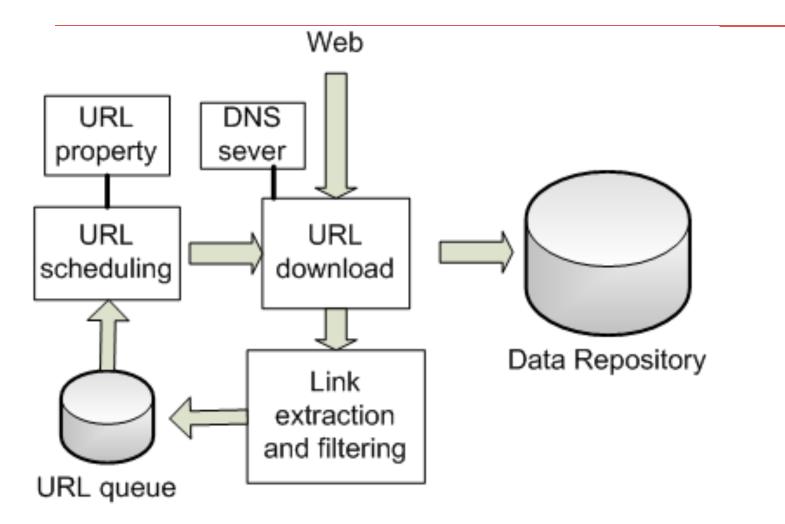
CS293S Summary

2017 Tao Yang

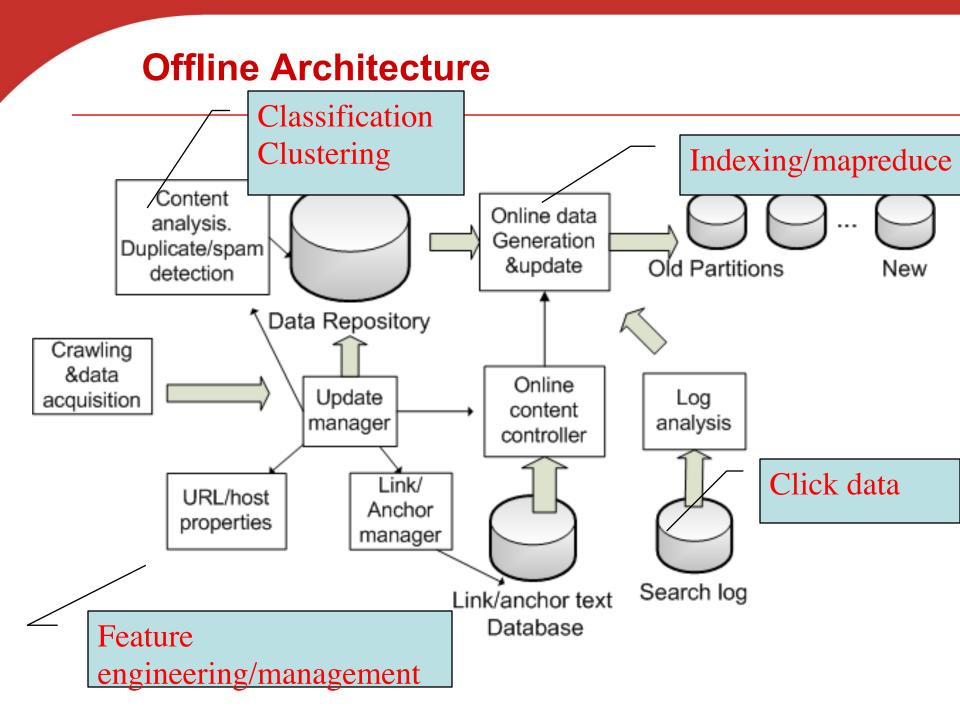
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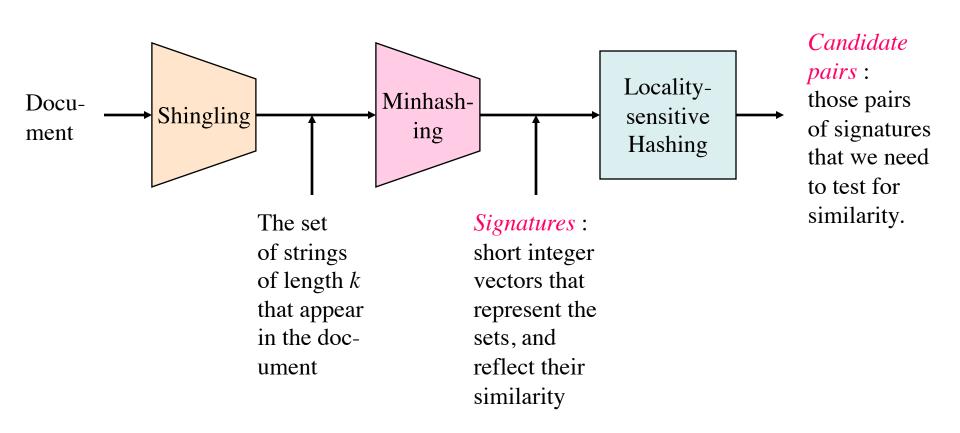
A Crawler Architecture

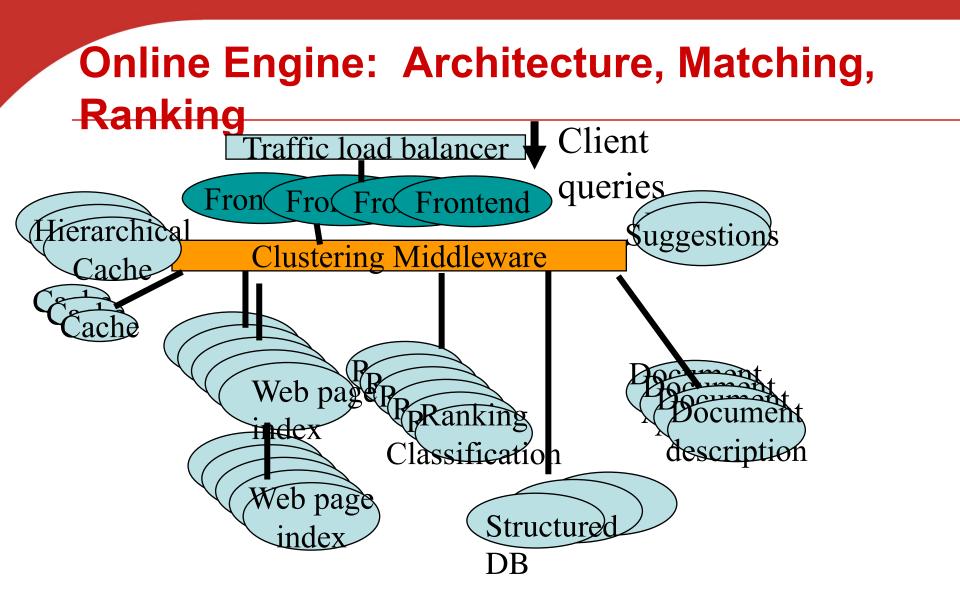


Olston/Najork. Web crawling. Found. Trends Inf. Retr., 4(3):175--246, March 2010.



Similarity Analysis





Web Search for a Planet: The Google Cluster Architecture L. Barroso, J. Dean, U. Hölzle, IEEE Micro, vol. 23 (2003) Document Ranking with Text, Quality, and Click Features

- Text features
 - TFIDF, BM25
 - Where do they appear? Title/body
 - Proximity (word distance)
- Document quality and classification
 - Web link scores (e.g. PageRank).
 - Page length, URL type etc.
- User behavior data
 - Presentation: what a user sees before a click
 - Clickthrough: frequency and timing of clicks
 - **Browsing**: what users do *after* a click

Learning to rank

- Convert ranking problem to a classification problem.
 - Point-wise learning
 - -Given a query-document pair, predict a score (e.g. relevancy score)
 - Pair-wise learning
 - -the input is a pair of documents for a query
 - List-wise learning
- Bayes, SVM, decision trees, human rules.
- Bagging/boosting to combine multiple schemes

