

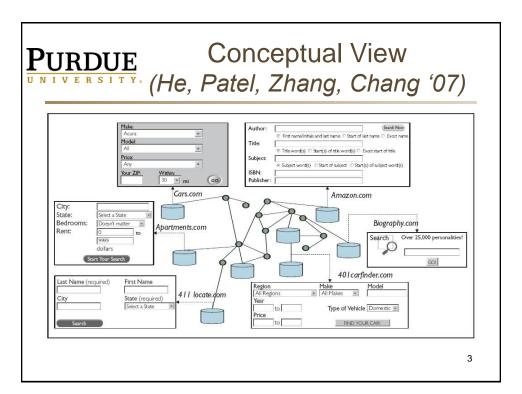
CS47300: Web Information Search and Management

Deep Web
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17 November 2017



PURDUE Deep Web vs. Dark Web

- · Dark Web: Hidden intentionally
 - Largely to support illegal or socially unacceptable activity
 - But legality and acceptability vary, web is trans-national and trans-cultural
 - We won't go here…
- Deep Web: Data hidden behind interfaces
 - Federated search is one answer
 - But can we crawl this data?



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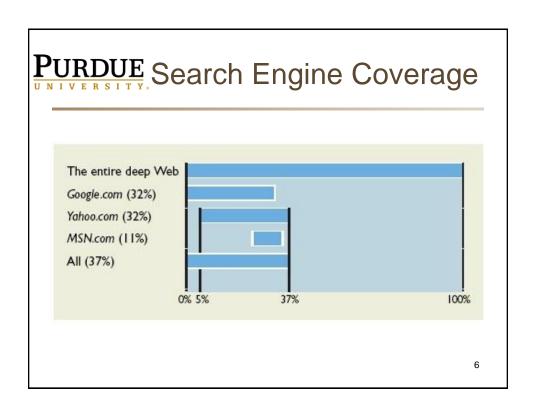
Does the Deep Web Matter?

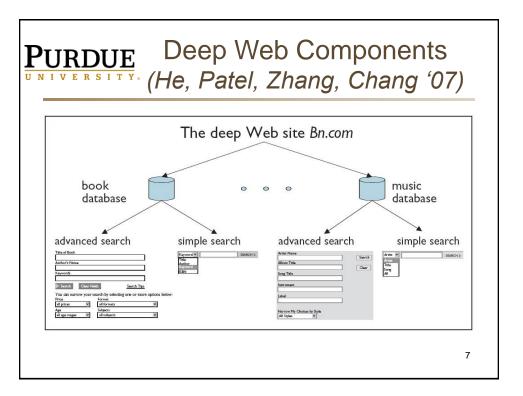
- Where are the entry points?
- What is the scale?
- How "structured" is the data?
- What topics are covered?
- How well do search engines already cover this?
- Wat about existing specialized portals?



Size Estimate of the Deep Web

	Sampling Results	Total Estimate	99% Confidence Interval
Deep Web sites	126	307,000	236,000 - 377,000
Web databases	190	450,000	366,000 - 535,000
-unstructured	43	102,000	62,000 - 142,000
-structured	147	348,000	275,000 - 423,000
Query interfaces	406	1,258,000	1,097,000 - 1,419,000





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Challenges

- How do we know what is in a database?
 - Sample queries?
 - Search page
 - Descriptive information
 - Form fields
- How do we query it?
- How do we process results?



Can this be real?

- "General" search
 - See Google, etc.
- "Specialized" search
 - Metaquerier
 - Cazoodle