

Already Crawling at One Month

Unsearched URL List function:

ListIndex = (Mp3Count - HostCount) * Unsearched.size() / (Mp3Count * HostCount) + 1

MP3 Count	Host Count	unsearched.size()	Index
33	3	100	31
66	30	100	2
333	10	1000	97
667	100	1000	9
3333	100	10000	97
100	10	100000	9001
10000	10	100000	9991



She Does More Than Spit Up

- Two tables in SQL database for holding songs:

 - Song "Artist" found in Artist table
 Song ByContext "Artist" not in table, but...
- Compare "artist" guesses against table with Aaram Hatchaturyan + 26,510 "artists" harvested from Yahoo!
- Plenty of JavaScript to validate forms
- When searching by keyword, it is highlighted in results
- Uses HttpSession for keeping user "logged in"
- The only site with "Each Link Lovingly Found by Chuck Norris"



Query Processing Heuristic

- Items matching the query exactly and in Song
- Exact matches from SongByContext table
- LIKE 'search %' in Song
- Repeat 3 for SongByContext
- LIKE '%search%' from Song
- Repeat 5 for SongByContext

(SELECT Name, Title, URL, Refer-URL, 1 AS Rank FROM Song WHERE ...) UNION (SELECT Name, Title, ... 2 AS Rank FROM SongByContext WHERE...) ... ORDER BY Rank



Daddy's So Proud

Artist guess

After a search of 1.5 hours:

■ Total Number of MP3's ... • Number of MP3's in Table SongByContext ... 1927 Ratio # in Song / # in SongByContext ■ Songsin SongByContext with a good

Final Thoughts

- What we learned
 - Lots o' Java
 - Creating a Crawler is easy
 - Creating a great Crawler is much more difficult
- Parsing all MP3 links correctly is nearly impossible in a chaotic
- In the future
 - $\, \bullet \,$ Ping the song links to make sure they're there (no ICMP support in Java)
 - Links to a music site if a user is interested in getting more info on an artist or song
 - Create better parsing algorithms
 - Take care of yourself... and each other.