n Characters in Search of an Author

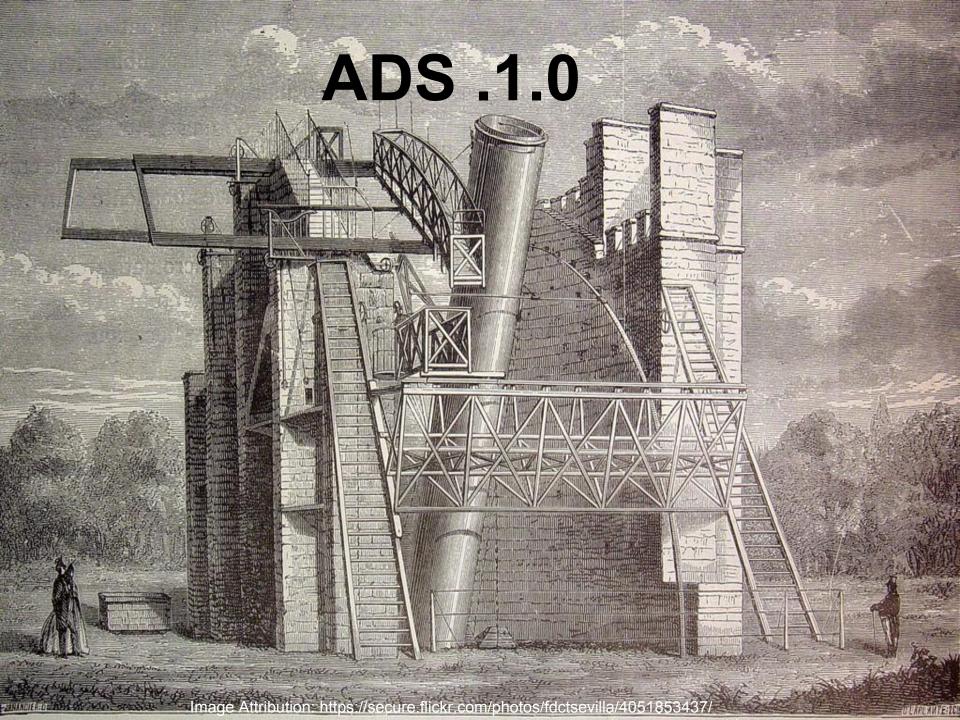
Improving Author Name Indexing & Searching for the ADS 2.0







Waterwheels, Ace Witerwheels, Ace B Hacker, T Häcker, J. - Horn, Z Zoia Horn Billz, Jimny ₩ Bill2, James





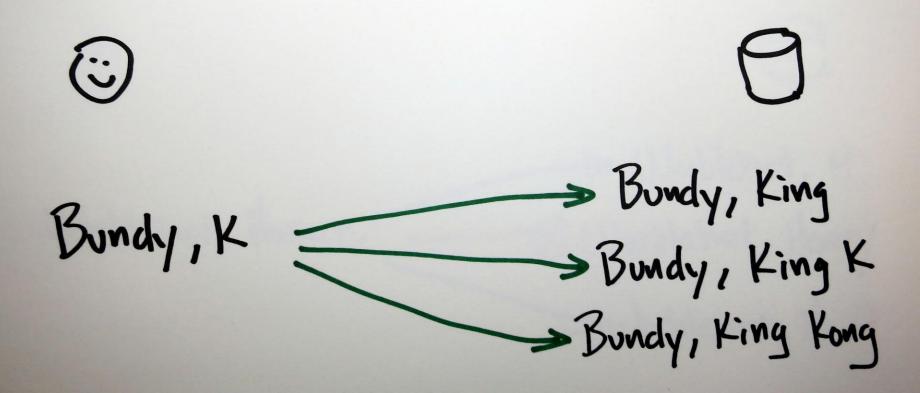


Hacker, J - Häcker, J

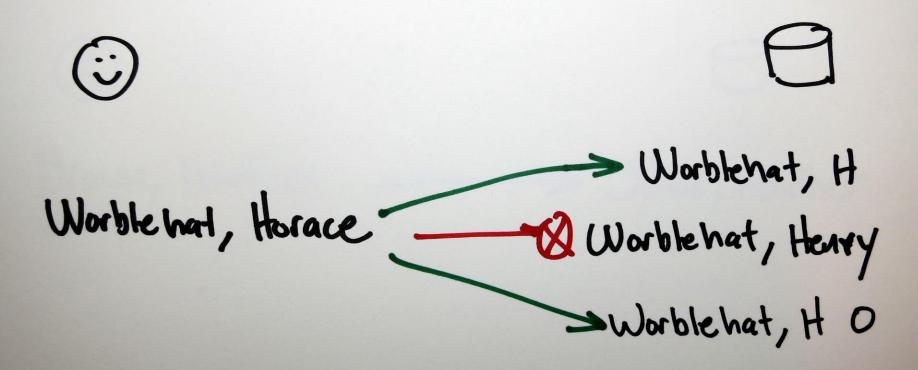
(i) Hørn, Zoia -> Horn, Zoia



Waterwheels, Ace > Waterwheels, A Waterwheels, Andy



Req. #5



Brown, Heather -> Jones, Heather

(i) I Exact Match

9

Malmsteen, Yngwie -> Malmsteen, Yngwie >> Malmsteen, Y J



Normalization

John-Hacker — Hacker, John Yogi, M.M. — Yogi, M.M. — Yogi, M.M. Hørn, Zoia; — Hørn, Zoia

Brown-Jones, H — Brown Jones, H

Name Part Variations

```
Yogi, Maharishi M -> Yogi, Maharishi M*
                      Yogi, M M*
                      Yogi, Maharishi
                      Yogi, M
                      Yogi,
```

Translituration (1)

Hübbard,
$$M \longrightarrow [Hubbard, M]$$

Huebbard, M
 $\check{C} \longrightarrow [c, ch]$
 $\emptyset \longrightarrow [o, oe]$

Transliteration (2)

Hubbard, M??? [Hübbard, M]
Huebbard, M]

O, takify

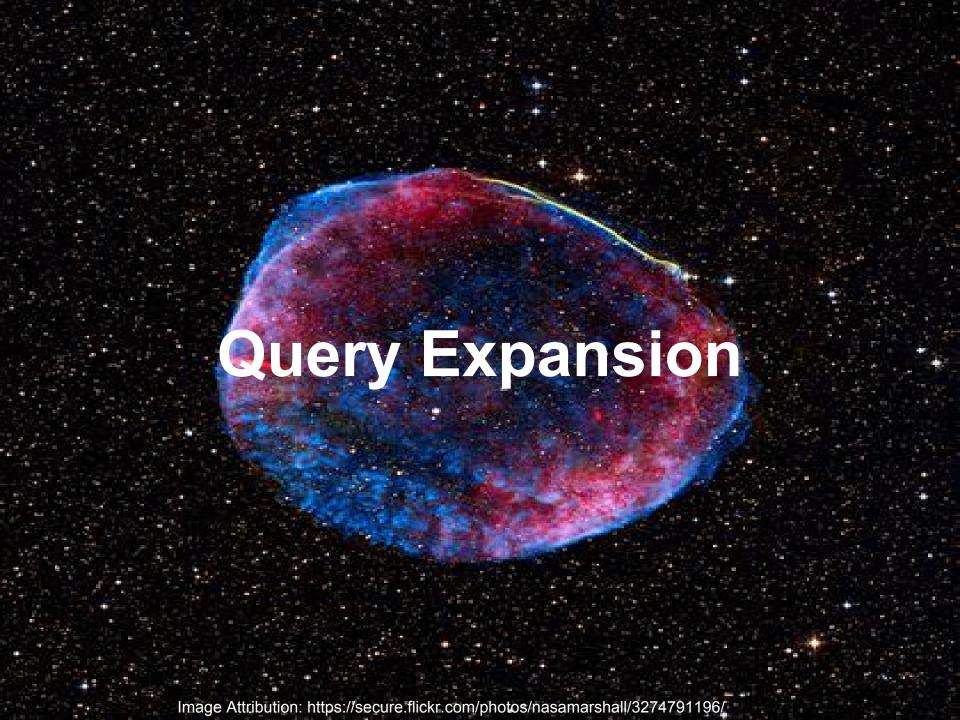
Index Introspection

Häcker, John

Hørn, Zoia

Hacker, John Häcker, John Haecker, John

Horn, Zoia Hørn, Zoia Hoern, Zoia



Walkthrough

User Input 0-0-0-0-0-0-0-0



"Authony Panizzi"

Normalize @-1-0-0-0-0-0

Parizzi, Anthony

Panizzi, Anthony *
+ Panizzi, Anthony *
+ Panizzi, A
+ Panizzi, A
+ Panizzi, A

Transliterated Synonyms 0-11-11-11-11-11-11-19

Panizzi, Anthony + Paenizzi, Anthony + Pänizzi, Anthony Panizzi, Anthony * Panizzi, A Panizzi, A * Panizzi,

Panizzi, Anthony Paenizzi, Anthony Panizzi, Anthony

Krabs, Richard Kraebs, Richard Kraebs, Richard

Name Part Variations @-0-0-0-0-0

Parizzi, Anthony Paerizzi, Anthony Panizzi, Anthony Paniszi, Anthony * + Paerizzi, Anthony * + Painizzi, Anthony * Panizzi, A + Paevizzi, A

+ Pänizzi, A Panizzi, A * + Paerizzi, A * + Pävizzi, A * Pauizzi, + Paerizzi, + Pavizzi,

Curated Synonyms

Panizzi, Anthony

Paerizzi, Anthony

Pänizzi, Anthony

+ Pänizzi, Tony E

Kräbs, Richard Kräbs, Dickie L

Pänizzi, Anthony Pänizzi, Tony

Transliteration O-D-D-D-D-D-D-D-D-D

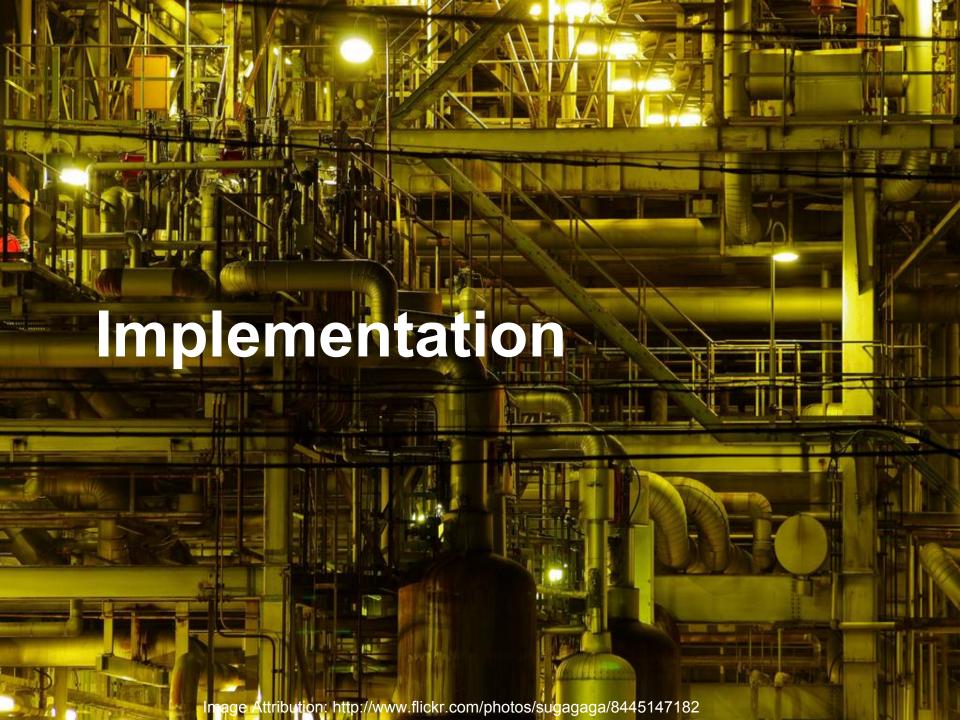
Panizzi, Anthony Paenizzi, Anthony Panizzi, Anthony

+ Panizzi, Tony + Paenizzi, Tony Pänizzi, Tony

Name Part Variations ©-U-D-D-D-D-D-0

Panizzi, Anthony Panizzi, Anthony Panizzi, Anthony

Panizzi, Tony Panizzi, Tony Pänizzi, Tony + Panizzi, Tony *
+ Panizzi, Tony *
+ Panizzi, Tony *
+ Panizzi, Tony *
+ Panizzi, T *
+ Paenizzi, T *
+ Paenizzi, T *



Index

Jones, Heather

Original(1)

· Jones, Heather

Normalized(2)

. JONES, HEATHER

Auto-generated Synonyms(3)

. JONES, HEATHER

Indexed Value(4)

JONES, HEATHER

Query

Brown, Heather

Original(5)

· Brown, Heather

Normalized(6)

. BROWN, HEATHER

Name Variations(7)

- BROWN, HEATHER\b.*
- BROWN, HEATHER
- BROWN, H\b.*
- · BROWN, H
- BROWN,

Auto-generated Synonyms (11)

- BROWN, HEATHER\b.*
- BROWN, HEATHER
- BROWN, H\b.*
- BROWN, H
- BROWN,

Expand w/ Index Synonyms (12)

- BROWN, HEATHER\b.*
- BROWN, HEATHER
- BROWN, H\b.*
- BROWN, H
- BROWN,

Expand w/ Curated Synonyms (13)

- BROWN, HEATHER\b.*
- BROWN, HEATHER
- BROWN, H\b.*
- BROWN, H
- BROWN,
- JONES, H
- JONES, HEATHER\b.*
- JONES.
- JONES, HEATHER

Curated Synonyms

Brown, Heather Jones, Heather

Original(8)

- BROWN, HEATHER
- . JONES, HEATHER

Auto-generated Synonyms(9)

- . BROWN, HEATHER
- . JONES, HEATHER

Processed(10)

- BROWN, HEATHER => JONES\, H, JONES\, HEATHER\b.*, JONES\, JONES\, HEATHER
- JONES, HEATHER => BROWN\, H, BROWN\, HEATHER\b.*, BROWN\, HEATHER, BROWN\,

Solr/Lucere Components

<freldType name="author">

- · Author Normalize filter
- · Author Transliteration filter
- · Arthur Overy Variations filter
- · Symonya F: Iter

Usicid Type?

http://githubson/romanchyla/montysolr

THANKS!

Jäy Lueker Rømån Čhyla Albérto Accomazzi

ADS 2.0 = http://adslabs.org/adsabs