

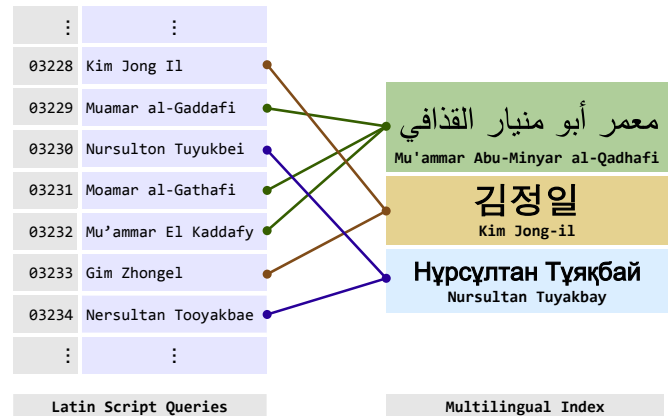
Rosette Name Indexer

Build a Universal Index of Names in Multiple Languages

Rosette® Name Indexer (RNI) matches names written in different languages against a single, universal index. For example, a search for “Mao Zedong” returns matches written in English (such as “Mao Ze Dong” or “Mao Tse Tung”); in Simplified Chinese (毛泽东); in Traditional Chinese (毛澤東); or even in other languages such as Arabic (ماو تسي تونغ).

Unlike legacy solutions driven by lists containing billions of spelling variants, RNI analyzes the intrinsic structure of each name component, and performs an intelligent comparison using advanced linguistic algorithms. This approach reduces the likelihood of both “false positives” (large numbers of wrong hits) and “false negatives” (zero hits, or a failure to uncover relevant matches).

RNI is capable of indexing different types of names—people, places, organizations, etc.—and is designed to be integrated into such applications as watch list management, fraud detection, money laundering, geospatial analysis, and multilingual data triage.



In many cultures, names may be written using a combination of formal names, nicknames, aliases, and optional name components which complicate the task of searching and matching. For example, Arabic names may include a combination of honorifics, given names, family names, patronymics (son of x, father of y), tribal affiliation, city of birth, and more.

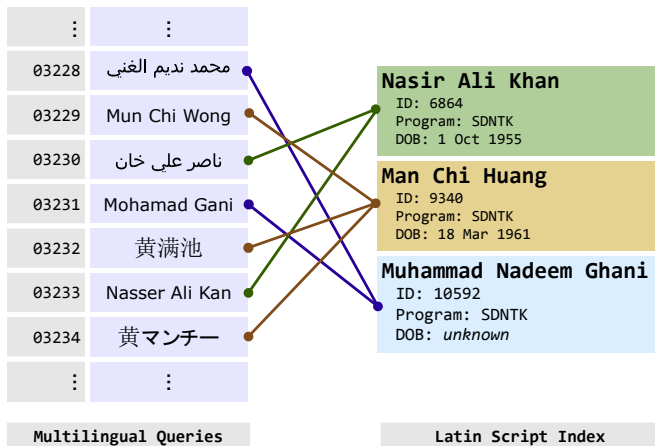
Title	Given Name	Patronymic	Family Name
Al-Sheikh	Abdullah	Bin Hassan	Al-Ashqar
الشيخ	عبد الله	بن حسن	الأشقر

This name may be appear in various forms, including:

- Al-Sheikh Abdullah Al-Ashqar (no patronymic); or
- Abdullah Al-Ashqar (no title, no patronymic); or
- Al-Sheikh Abdullah Bin Hassan Bin Mohammed Al-Ashqar (with grandfather’s patronymic)

RNI also understands how names written in English can be interpreted in many ways:

William Johnson	as “Bill Johnson” or “W. Jonson”
毛泽东	as “Mao Zedong” or “Mao Tse Tung”
مقتدى الصدر	as “Mouqtada Alsader” or “Muktada el-Sader”



NAME-MATCHING CAPABILITIES

RNI handles the following name-matching problems:

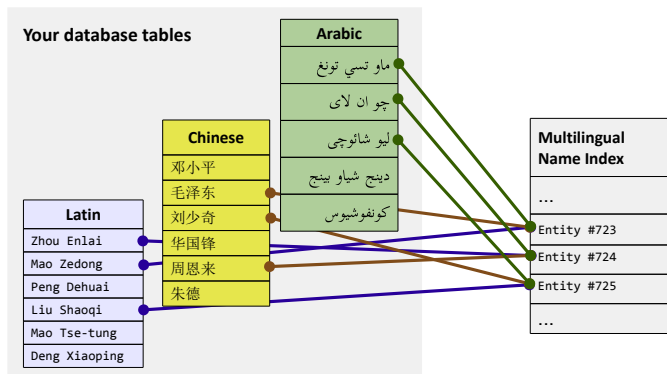
- Same name written in multiple languages
- Phonetic spelling differences
- Orthographic spelling differences
- Nicknames
- Initials
- Missing name components
- Out-of-order name components
- Missing spaces

RNI may be used together with the Rosette Name Translator (RNT) to generate lists of names translated according to government, agency, or industry standard rules.

HOW IT WORKS

RNI may be integrated with any database of names. It leaves your data untouched, providing pointers to the matching names within your database. When not all components of a name match, RNI aligns input names with entries to recognize partial matches. With each update of the database, RNI's index can also be automatically updated.

Matching names are returned to the calling application with a confidence score from 0% to 100%. A minimum match threshold may be set to ensure the quality of the results returned. RNI's API may be used to access other information associated with the entry, such as relationships and geographic locations, to help identify specific individuals and places.



RNI's multilingual name index points to matching records in your database to enable name searching across multiple languages.

AVAILABLE LANGUAGES AND SCRIPTS

RNI supports the following languages and writing systems, as well as those languages written using the Latin alphabet. Additional languages are available via custom development.

Arabic	Arabic script	العربية
Chinese	Simplified Hanzi, Traditional Hanzi	简体字 繁體字
Dari/Farsi (Persian)	Arabic script	فارسی دری
Japanese	Hiragana, Katakana, Kanji	ひらがな カタカナ 漢字
Korean	Hangul, Hanja	한글 韓文漢字
Pushto	Arabic script	پښتو
Urdu	Arabic script	اردو

SYSTEM PLATFORMS SUPPORTED

Software development kits (SDKs) are available for popular architectures, operating systems, and development environments. Support for platforms not listed below is available by contacting your sales representative.

AIX 5.3/6.1, PPC
 HP-UX 11i, PA-RISC/IA64
 Linux CentOS 4.x/5.x, IA32/AMD64 (GCC 4.x)
 Linux Debian 5.x, IA32/AMD64
 Linux Red Hat 4.x/5.x, IA32/AMD64 (GCC 4.x)
 Linux Ubuntu 9.x/10.x, IA32/AMD64
 MacOS (GCC 4.x)
 Solaris 9, SPARC32/64
 Solaris 10, SPARC32/64
 Solaris 10, IA32/AMD64
 Windows XP/Vista/7, IA32 (MSVC 7.1)
 Windows XP/Vista/7, IA32/AMD64 (MSVC 8.0)

FOR MORE INFORMATION

For more information, please visit www.basistech.com. To request an evaluation copy, please write to info2010@basistech.com or call us at 617-386-2090 or 800-697-2062.



One Alewife Center
Cambridge, MA 02140

171 Second Street
San Francisco, CA 94105

13800 Coppermine Road
Herndon, VA 20171

9-6 Nibancho, Chiyoda-ku
Tokyo 102-0084