

Kalmasoft

Names Advanced Processing Technology (NAP)

Geographical Names Retrieval Module

Link to file: https://kalmasoft.com/KNAP/Kalmasoft_Geographical_Names_Retrieval_System.pdf

Sample output: <https://kalmasoft.com/KLEX/dbsamples.htm#napsamples>

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Retrieval Module's GUI Input

Geographic Names Retrieval

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Settings

Source language: No language selected

Source variety: Arabic Standard

Source transystem: ADEGN (Arabic Division of Experts on Geographic Names)

Target language: No language selected

Target country: Not defined

Target script: Native script

Options

- ☒ Allow input duplicates
- ☒ Allow foreign and obsolete letters
- ☐ Generate orthographic variants
- ☒ Consider original input diacritics
- ☐ Process geographical terms
- ☐ Remove output diacritics

Source delimiter: Break

ID start: 1

ID prefix:

Input

Al Madīnat al Munawwarah
 Adh D̤Hahrān
 'Abū D̤Habī
 Bī'r Zayt
 Al Baḥrayn
 Wahrān
 Ḥawallī
 Tanjah
 Tūnis
 Ad Dammām
 Ad Dawḥah
 Ash SHārqaḥ
 Tartūs
 Ad Dāru al Baydā'
 Bindīdā
 Al KHurtūm
 'Abhā
 Ḥamdallāh
 Banzart

[Estimate](#)

Retrieval Module's GUI Output (Source Transystem = AdegN)

Retrieval Download history

Search:

No	Id	Name	Original	Source	Target	Transystem	Sscript	Tscript	Tcountry	Feature	Category	Status
1	01	Al Mdīnat al Munawwarah	المدينة المنورة	English	Arabic	ADEGN	Latin	Arabic				
2	02	Adh DHahrān	الظهران	English	Arabic	ADEGN	Latin	Arabic				
3	03	'Abū DHabī	أبو ظبي	English	Arabic	ADEGN	Latin	Arabic				
4	04	Bi'r Zayt	بئر زيت	English	Arabic	ADEGN	Latin	Arabic				
5	05	Al Bahrayn	البحرين	English	Arabic	ADEGN	Latin	Arabic				
6	06	Wahrān	وهزان	English	Arabic	ADEGN	Latin	Arabic				
7	07	Hawallī	حوالي	English	Arabic	ADEGN	Latin	Arabic				
8	08	Tanjah	طنجة	English	Arabic	ADEGN	Latin	Arabic				
9	09	Tūnis	تونس	English	Arabic	ADEGN	Latin	Arabic				
10	10	Ad Dammām	الدمام	English	Arabic	ADEGN	Latin	Arabic				
11	11	Ad Dawḥah	الدوحة	English	Arabic	ADEGN	Latin	Arabic				
12	12	Ash SHārqah	الشارقة	English	Arabic	ADEGN	Latin	Arabic				
13	13	Tarṭūs	طرطوس	English	Arabic	ADEGN	Latin	Arabic				
14	14	Ad Dāru al Bayḡā'	الدار البيضاء	English	Arabic	ADEGN	Latin	Arabic				
15	15	Bindīdā	بندیدا	English	Arabic	ADEGN	Latin	Arabic				
16	16	Al KHurṭūm	الخروطوم	English	Arabic	ADEGN	Latin	Arabic				

Retrieval Module's GUI Output (Mix input, Source Transystem = BGN)

Retrieval Download history

Search:

No	Id	Name	Original	Source	Target	Transystem	Sscript	Tscript	Tcountry	Feature	Category	Confidence	Status
1	01	Al Khurṭūm	الخُرطوم	English	Arabic	BGN/PCGN	Latin	Arabic				-2	
2	02	Ḥamdāllh	حمدالله	English	Arabic	BGN/PCGN	Latin	Arabic				-2	
3	03	Banzart	بنزرت	English	Arabic	BGN/PCGN	Latin	Arabic				-2	
4	04	Al Ḥāzmiyyah	الهازمية	English	Arabic	BGN/PCGN	Latin	Arabic				-2	
5	05	'Ayn al Ḥilūah	عين الجلوله	English	Arabic	BGN/PCGN	Hanzi	Arabic				-2	
6	06	Ad Dāru al Baydā'		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
7	07	'Abhā		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
8	08	'Abū Kmāl		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
9	09	'Ayn al Ḥilwah		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
10	10	'Übl		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
11	11	'Umān		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
12	12	'Adn		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
13	13	'Irāq		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
14	14	'Āriyā		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
15	15	Qb'īt		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard
16	16	Ra'īt		English	Arabic	BGN/PCGN	Latin	Arabic				0	Standard

Retrieval Module's API Documentation (Basic parameters)

Geographic Names Retriever

Reverses transcribed geographical names from source script with optional input transcription system back to native or selected script.

AUTHORIZATIONS: > *tokenAuth or cookieAuth*

QUERY PARAMETERS

affixes	boolean (Process affixes) Default: ☐ false Process name affixes and qualifiers
delimiter	string non-empty Default: L Enum: N B C S W L Source input delimiter N - No delimiter B - Break C - Colon S - Semicolon W - Whitespace L - List
diacritics	boolean Default: ☐ true Consider original input diacritics
duplicates	boolean (Allow duplicates) Default: ☐ true

POST /api/v1/gretriever/

Request samples

Payload

Content type
application/json

Copy Expand all Collapse all

```
{
  - "payload": [
    "string"
  ],
  "foreign": true,
  "duplicates": true,
  "variants": false,
  "grammar": true,
  "affixes": false,
  "terms": false,
  "diacritics": true,
  "matres": false,
  "nodiac": false,
  "delimiter": "L",
  "idstart": 1,
  "fieldwidth": 1,
  "idprefix": "",
  "scode": "NOL",
  "tcode": "NOL",
  "tcountrycode": "0",
```

Retrieval Module's API Documentation (Supported transcription systems)

transyscode

string (Transcription) non-empty

Default: "ADEGN"

Enum: "NOSTD" "ALALC" "ALSTK" "BANDD" "BUCKW" "CAMPL" "CHAIN"

"COHEN"	"DINXX"	"DMGXX"	"DWKNS"	"ETHOP"	"GWOYR"	"HANSW"
"HANYU"	"HEPRN"	"HUNTR"	"IASTX"	"ICSXX"	"ICAOX"	"IJMES"
"IPAXX"	"IRCAM"	"ISOXX"	"KATSA"	"KLKTA"	"KUNRE"	"MCRCH"
"MOH20"	"MPSII"	"NIHON"	"PALDS"	"RTGST"	"RVRKO"	"SAMPA"
"SASXX"	"SATTS"	"SBLXX"	"SERAA"	"TITUS"	"TONGY"	"WADEG"
"WXNOT"	"YALEC"	"YALKO"	"ZUYIN"	"ADEGN"	"BGNXX"	"ELOTX"
"GOSTX"	"IGNXX"	"RJGCX"	"SESXX"	"UNGEN"	"UNRGN"	"ARABC"
"CYRLC"	"FIDEL"	"LATIN"				

Source language transcription system

- NOSTD - Non-Standard Transcription
- ALALC - ALA_LC (American Library Association_Library of Congress)
- ALSTK - Alone-Stokes transliteration
- BANDD - Bright and Daniel transliteration
- BUCKW - Buckwalter Arabic transliteration
- CAMPL - Campbell transliteration
- CHAIN - Chaine transliteration
- COHEN - Cohen transliteration
- DINXX - DIN (Deutsches Institut für Normung)
- DMGXX - DMG (Deutsche Morgenländische Gesellschaft)
- DWKNS - Dawkins transliteration
- ETHOP - ETHIOP (Ethiopian Language Support for the Babel Package)
- GWOYR - Gwoyeu Romatzyh romanization
- HANSW - Hans Wehr transliteration
- HANYU - Hanyu Pinyin
- HEPRN - Hepburn romanization
- HUNTR - Hunterian system
- IASTX - IAST (International Alphabet of Sanskrit Transliteration)
- ICSXX - ICS (Intelligence Community Standard 630-01)

Retrieval Module's API Documentation (Supported languages)

code

string (Source code) non-empty
Default: "NOL"
Enum: "NOL" "AUT" "ady" "aar" "afr" "sqi" "zgh" "ava" "agj"

"aze"	"amh"	"ara"	"hye"	"hyw"	"asm"	"bal"	"bam"	"ban"
"bak"	"bej"	"bel"	"ben"	"bho"	"byn"	"bul"	"mya"	"ceb"
"che"	"chr"	"chv"	"hrv"	"zho"	"ces"	"dan"	"din"	"dzo"
"nld"	"eng"	"est"	"fin"	"fra"	"ful"	"kat"	"deu"	"ell"
"guj"	"hau"	"heb"	"hin"	"hun"	"ibo"	"ind"	"iku"	"gle"
"isl"	"ita"	"jpn"	"jav"	"kbd"	"kan"	"krc"	"kas"	"kaz"
"khm"	"kir"	"kor"	"kur"	"lad"	"lao"	"lav"	"lit"	"mkd"
"msa"	"mal"	"div"	"man"	"mar"	"xmr"	"ron"	"mon"	"nep"
"nor"	"fia"	"nus"	"ori"	"orm"	"oss"	"ota"	"pan"	"pus"
"fas"	"pol"	"por"	"rus"	"srp"	"shk"	"snd"	"sin"	"slk"
"slv"	"som"	"spa"	"sun"	"swa"	"swe"	"tgl"	"tgk"	"thv"
"thz"	"tmh"	"tag"	"ber"	"tzm"	"tig"	"tam"	"tat"	"tel"
"tha"	"tir"	"tur"	"tuk"	"udm"	"ukr"	"uig"	"urd"	"uzb"
"vai"	"wal"	"yid"	"sah"	"yor"	"zag"	"akk"	"arc"	"cop"
"egy"	"gez"	"onw"	"phn"	"xsa"	"sux"	"syr"	"uga"	

Input source language code in ISO639-3

- NOL - No language selected
- AUT - Autodetect
- ady - Adyghe
- aar - Afar
- afr - Afrikaans
- sqi - Albanian
- zgh - Amazigh 'Standard Moroccan'
- ava - Avaric
- agj - Argobba
- aze - Azerbaijani
- amh - Amharic
- ara - Arabic
- hye - Armenian 'Eastern'
- hyw - Armenian 'Western'

```

"target": "string",
"sscript": "string",
"tscript": "string",
"scode": "str",
"tcode": "str",
"transystem": "string",
"transyscode": "strin",
"sscriptcode": "stri",
"tscriptcode": "stri",
"slangtag": "string",
"tlangtag": "string",
"confidence": 1,
"status": "string",
"stcode": "str",
"original": "string",
"tcountry": "string",
"category": "string",
"feature": "string",
"tcountrycode": "str",
"catcode": "string",
"featcode": "stri"
}

```

Retrieval Module's API Documentation (Supported scripts)

tscriptcode

variants

string (Target script code) non-empty

Default: "NATV"

Enum: "NATV" "Adlm" "Arab" "Cyr1" "Ethi" "Geor" "Hanb" "Hans" "Hant" "Hira" "Kata" "Latn" "Nkoo" "Copt" "Egyd" "Egyh" "Egyp" "Osma"

Target script code in ISO15924

- NATV - Native script
- Adlm - Adlam
- Arab - Arabic
- Cyr1 - Cyrillic
- Ethi - Ge'ez
- Geor - Georgian
- Hanb - Han with Bopomofo
- Hans - Simplified Chinese
- Hant - Traditional Chinese
- Hira - Hiragana
- Kata - Katakana
- Latn - Latin
- Nkoo - N'Ko
- Copt - Coptic
- Egyd - Egyptian Demotic
- Egyh - Egyptian Hieratic
- Egyp - Egyptian Hieroglyphs
- Osma - Osmanya

boolean (Generate variants)

Default: false

Generate orthographic variants

REQUEST BODY SCHEMA: application/json ▼

required

Retrieval Module's potential users

Section	User	Applications	Use cases
A	Government	Archiving, Indexing (Data+Logic)	- Immigration control - Intelligence analysis - Law enforcement
B	- Telecommunication - Transportation - Financial institutions - Security agencies - Healthcare - Housing - Tourism and hospitality	Archiving, Indexing (Data+Logic)	- Customer data management - Electronic health records - Mapping and cartography - Location based services - Communication and navigation - Data management and accessibility - Environmental studies
C	- Media - Education - NGOs - R&D	Information retrieval (Data+Algorithms)	- General linguistics - Cross-lingual Information Retrieval (CLIR) - Machine Translation (MT) - Named-Entity Recognition/Extraction (NER) - Text to Speech Technologies (TTS)
D	Common	Archiving, Indexing (Data+Logic+Algorithms)	- Employment diversity - Entity Matching (EM) - Identity resolution - Name matching/indexing

Retrieval Module's specification summary *

Category	Property	Data	Details
Module	Interaction technology	2	GUI, REST API
Module	Interface language	1	English
Module	Function	1	Reverses transcribed geographical names from source script with optional input transcription system back to native or selected script.
Operation	Geographic name processes	1	Retrieval
Operation	Supported languages	150	
Operation	Supported language varieties	33	Three languages (Amharic, Arabic, Hebrew)
Operation	Supported countries	200	
Operation	Supported transcription systems	10	
Operation	Supported language pairs	250	
Operation	Supported writing scripts	30	
Input	Input types	1	Geographic names, multiple scripts
Input	Input formats	4	Vertical list, separated values (comma, semicolon, space)
Output	Output file formats	5	CSV, TSV, JSON, XLSX, PDF
Output	Output data manipulation	6	Live search/filter, sort, print, copy, hide, column reorder
Features	Language processing		Language auto-detection
Others	Disabled features		

Note: All information in this table is subject to change without any prior notice.