

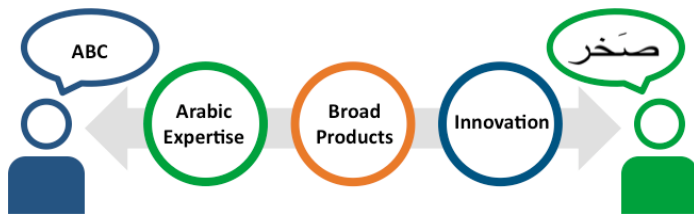
Sakhr Arabic Language Solutions

Connecting the English and Arabic Worlds

Sakhr Software connects the English and Arabic worlds. Sakhr is the global leader in Arabic language software, pioneering **Arabic machine translation, OCR, speech, search, and text mining**. Major organizations like the U.S. Department of Defense, NBC, and World Bank rely on Sakhr software for capturing, understanding, and communicating Arabic content, accurately and comprehensively. Sakhr is headquartered in Washington, DC.

Complexities of Arabic Language

The Arabic language poses unique and complex linguistic challenges, including scarce diacritization, scarce punctuation, free word order, and more. Historically, these complexities have limited the accuracy of general purpose translation solutions, which employ statistical-based frameworks. In contrast, Sakhr Software has overcome these challenges via 15+ years of pioneering research and the world's largest knowledge base in Arabic natural language processing (NLP). Sakhr's rules-based NLP provides deep linguistic, syntactic, and morphological understanding of Arabic – producing the highest accuracy and performance for machine translation and other solutions.



How Sakhr Software Helps

Unparalleled Arabic Expertise

Sakhr Software has two decades of research experience dedicated to the Arabic language, with development offices in Silicon Valley and Cairo, Egypt. Sakhr Software was the first to establish the notion of Arabic computational linguistics and build a new generation of rules-based Natural Language Processing (NLP) technologies. In addition to its comprehensive NLP infrastructure and platform, Sakhr's Arabic expertise includes a high caliber team of Arabic linguists, phonologists, translators, and others. Over 100 enterprise clients in government, business, and education in English and Arabic-speaking countries rely on proven solutions from Sakhr Software.

See, Read, Speak, Hear, and Understand Arabic

Whatever your Arabic language needs, Sakhr meets them with a comprehensive, integrated suite of Arabic language solutions. The Sakhr suite covers the range of Arabic information processing – capturing, translating, speaking, searching, and text mining information. The Sakhr suite comprises:

SAKHR SOFTWARE SOLUTIONS

- Optical Character Recognition (OCR)
- Machine Translation (MT)
- Text-to-Speech (TTS)
- Automatic Speech Recognition (ASR)
- Speech-to-Speech (S2S)
- Personal Translation Services
- Text Search
- Text Mining
- Document Management

FEATURED CUSTOMERS

- Alcatel-Lucent
- Carnegie Mellon University
- Dept. of Defense
- Dept. of Homeland Security
- Dept. of Justice
- European Commission
- Government of Canada
- Intel Corporation
- NBC News
- Northrop Grumman
- University of Chicago
- U.S. Institute of Peace
- World Bank

“ [Sakhr's] mobile translation of this sort is something akin to the Holy Grail of natural language voice processing. Offering the function as a Smartphone app is a real coup. ”

– Dan Miller, Senior Analyst and Founder
Opus Research

Capturing

- **Optical Character Recognition (OCR):** Sakhr OCR recognizes and converts Arabic physical documents into digital text, taking into account the various complexities of the Arabic language and fonts. Sakhr is rated #1 in recognizing clean copy Arabic text, with a 99.8% accuracy for documents in Farsi, Pashto, Jawi, Urdu and 17 European languages. Sakhr is the leading Arabic OCR provider for the U.S., Europe, and the Middle East.

Translating

- **Machine Translation (MT):** Unlike statistical-based solutions, Sakhr MT is rules-based, which means it automatically understands the source text through linguistic analysis – in particular morphological, lexical, semantic and syntactic contexts. Sakhr Software's rules-based platform creates much more accurate and faster translations across different domains and text genres.
- **Translation Services:** When customized translation services are required, Sakhr Software provides a high-caliber workforce for translation and other Arabic language services, including translators, linguists, phonologists, developers and call center operators.

Speaking and Listening

- **Text-to-Speech (TTS):** Sakhr TTS converts Arabic text into a natural, human-sounding voice. With a powerful rules-based diacritization engine, Sakhr TTS obtains 97% accuracy, even with mobile phones.
- **Speech-to-Speech (S2S):** Sakhr S2S enables real-time verbal translation between English and Arabic, allowing an English or Arabic speaker to instantly understand and be understood by a speaker in the other language. Sakhr Mobile S2S Translator is the world's first live mobile person-to-person translator.

Search and Intelligence

- **Search:** Sakhr Search overcomes the limitations of string-based matching commonly used by Latin-based search, which cannot handle the inflectional nature of the Arabic language and its lack of vowels. Sakhr's indexing and search capabilities can use stem-based, root-based and derivative-based search to quickly find the right information.
- **Text Mining:** Sakhr Text Mining can quickly extract keywords – including names and places – and efficiently classify and summarize key information for even the largest document repositories.
- **Document Management:** Sakhr Document Management enables organizations to easily manage and share translated documents across the enterprise.

About Sakhr Software USA

Sakhr Software USA connects the English and Arabic worlds. Sakhr Software delivers the most accurate and comprehensive suite of Arabic language solutions, based on decades of pioneering research in Arabic machine translation, OCR, speech, and search. Organizations like the U.S. Department of Defense, NBC, and the World Bank rely on Sakhr Software to understand and communicate Arabic content – from deciphering Arabic manuscripts to communicating with Arabic speakers. Sakhr Software USA is headquartered in Washington, DC.

For More Information

To learn more about solutions for any Arabic language communication, visit www.sakhrusa.com or email us at: info@sakhrusa.com.

Sakhr
Software USA

First in Arabic
language technology

EXTENSIVE ARABIC EXPERTISE

- #1 ranking in Arabic translation by U.S. government metrics and human evaluation
- 15+ years of R&D dedicated to Arabic natural language processing (NLP)
- Over 6 billion words, 3 million expressions and 10,000 rules in Sakhr Software's Arabic/English corpus

INDUSTRIES SERVED

- Government
- Education
- Technology
- Manufacturing
- Financial Services
- Media
- Healthcare