

# BEST PRACTICES GUIDE 06: Computer Aided Translation

## Translation

The conversion of a written text into a second language.

## Source Language

The language of the original text from which a translation is made.

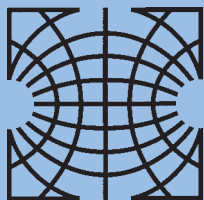
## Target Language

The language into which a text is translated.

## Interpreting

Also known as “interpretation”, this is the translation of spoken language.

(See *Best Practices Guide 05: Interpreting*)



## InterNation, Inc.

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Several years ago, a potential client called our firm and requested an estimate for a 200 page English to Hebrew translation needed by the end of the afternoon. Upon hearing the quote based upon industry standard rates, and the estimated turn-around time of three to four weeks, he protested, claiming that “All you guys are going to is dump this into Word and click, ‘Save as Hebrew.’” At the time, this was cause for mirth amongst our project managers. No longer. While languages such as Hebrew, which require non-Roman fonts that run bidirectionally, are not easily translated by computers, most European languages are. The problem is that, while Microsoft Word XP and other consumer applications can supply you with quick and easy translations, they are not generally accurate enough for anything but what is commonly referred to as “gisting”, which is the production of “fast and dirty” translations that give one the gist of what a text says, but which are full of grammatical and lexical mistakes, and misleading or ambiguous passages. Typically, such results can only be decoded by someone who speaks, reads and writes both languages; in short, a translator.

The process of creating an accurate, publication grade of translation always requires some degree of human effort. Typically, unless the text re-uses material that has been translated and stored in computer memory, that human effort is paramount and comprises all but 100% of the intelligence that is brought to bear on a translation project.

Currently, there are three basic types of **CAT** (Computer Aided Translation) tools available to assist the unavoidable human component of translation work.

**Machine Translation** is the most fully automated variety of these applications. In its most basic form, one simply “dumps” a text into the program, selects a **target language** and clicks “Translate.” There is no actual machine other than a computer involved, and like all CAT tools, MT tools are computer programs linked to databases full of translations created by human translators. Similarly, the algorithms that drive MT tools by parsing text segments and applying grammatical rules, are written by human beings. Thus, this technology is continually evolving, and there is a significant difference between a highly customized MT implementation used by the automotive industry and others, and the less sophisticated products available to consumers and small businesses. In all instances, unless the output is carefully checked by a trained linguist who is a native speaker of the target language, there will be significant errors.

Generally, contemporary machine translation alone can supply 90% accuracy at best unless used in the context of tightly controlled language applications such as material safety data sheets.

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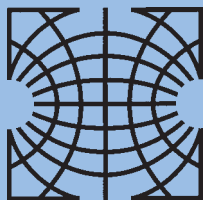
*Helmut Otto Schleicher  
President  
Schleicher GmbH & Co.*

“Because I have complete confidence in InterNation, Inc., I have recommended your services to many professionals over the years and I intend to continue to do so.”

*Lisa A. Stancati  
Gordon Altman Butowsky  
Weitzen Shalov & Wein*

“From the start, InterNation proved to be accurate in translation and swift in turnaround time. I recommend InterNation highly to any business requiring speedy, reliable translation services.”

*Merek R. Press  
Supervisor  
Jaros, Baum & Bolles  
Consulting Engineers*



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The greater the breadth of the vocabulary and the complexity of style and grammar, the less suitable MT becomes. In the case of most business contexts, machine translation is not suitable unless followed by careful human editing.

**Terminology Management** refers to databases that hold preferred terms specific to an enterprise. Essentially, a terminology database is an intelligent glossary of a company's preferred translations of specified terms in multiple languages. Typically, such a database can be used both in authoring original texts in one or more languages, and in customizing **translation memory** (see below) and machine translation implementations.

**Translation Memory** is perhaps the most utilized of all CAT tools at present. It is also referred to as machine-assisted human translation (MAHT) because, in all its various forms, it is a desktop tool used by professional translators. As the name implies, these applications “memorize” previously translated material, such that in subsequent translations they “suggest” translations of text strings (phrases, sentences or even entire paragraphs) in the target language to the translator.

Translation memory when used appropriately supplies several benefits. It increases speed, accuracy and consistency among multiple linguists, streamlines the the efforts of a translation team, and best of all, it saves money.

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**InterNation, Inc.** provides a full spectrum of foreign language services to a Fortune 1000 clientele. Services include translation, Web localization, electronic publishing, interpreting, subtitling and voice replacement for audio and video.

Our staff is dedicated to producing the highest quality work on time and on budget.

This guide is one of a series provided as a resource to current and prospective clients.

Please do not hesitate to contact us for further information.