



SATS: A Computer Aided Translation Engine



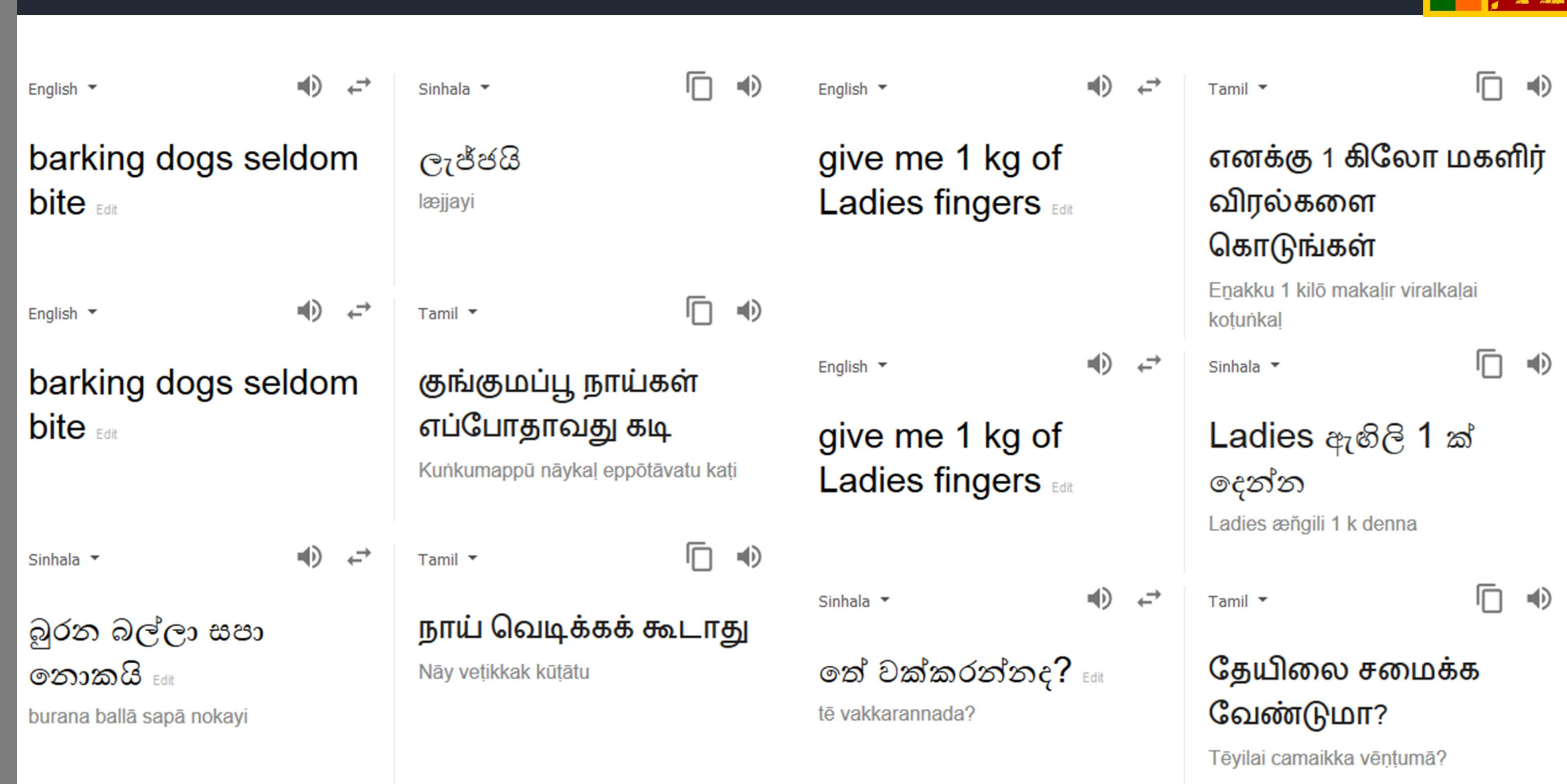
INTRODUCTION

Translation has become an important part of our day to day life. Developers have worked to bring translation services to our finger-tips.

Google Translate app supports 103 languages, now including speech and camera translations.



PROBLEMS OF GOOGLE TRANSLATION WITH RELATED TO LOCAL LANGUAGES



CAUSE FOR THE PROBLEM

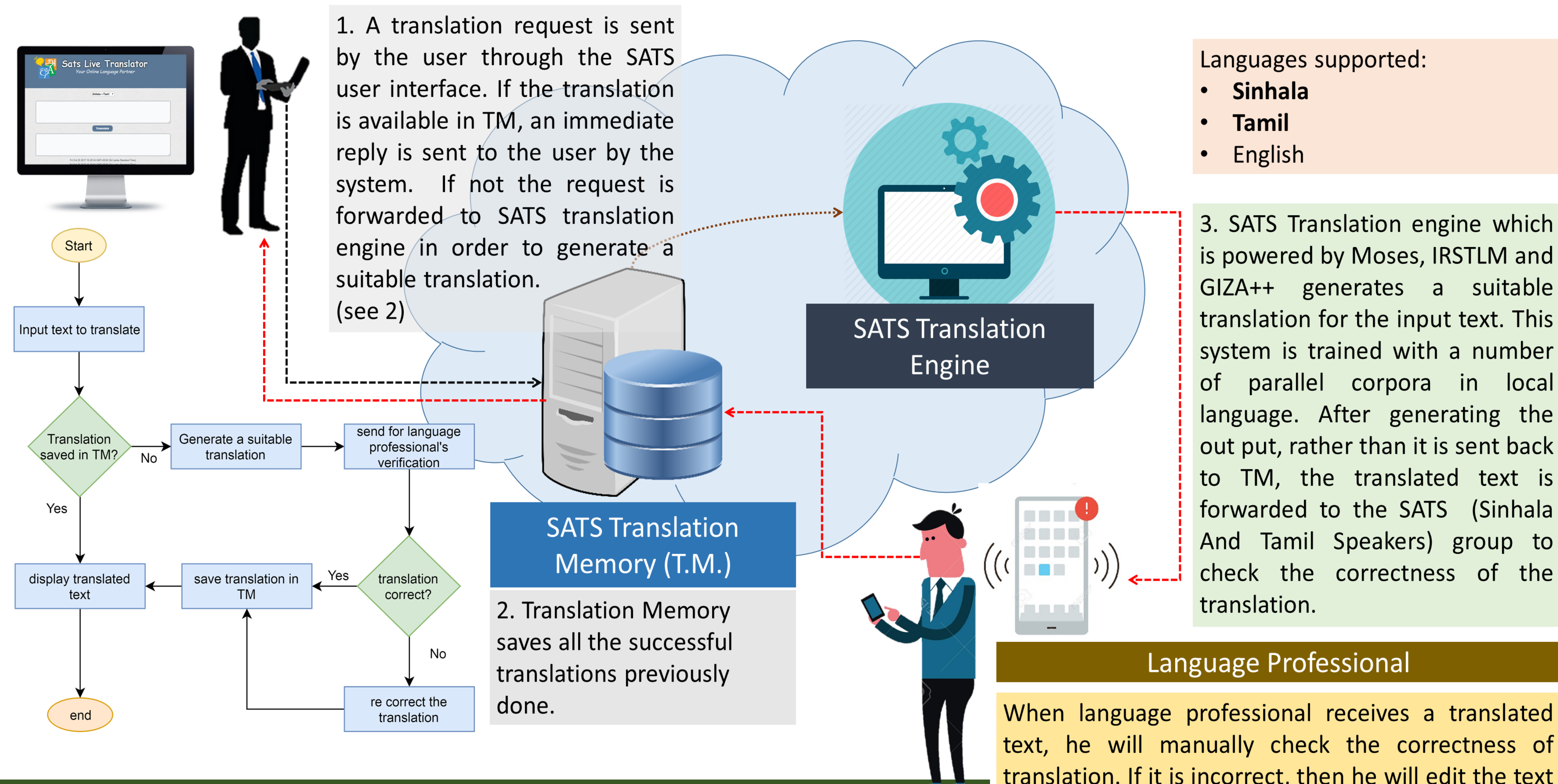
Lack of parallel corpora in local languages makes the system to predict inaccurate translations.

As most of the Tamil corpora are created by Indians, the translated text is more biased to Indian Tamil slang.

SATS Translation Engine was developed by considering the metrics accuracy and regional slang.



HOW SATS WORKS ?



TERMS AND THEIR DEFINITIONS

Statistical Machine Translation (SMT)

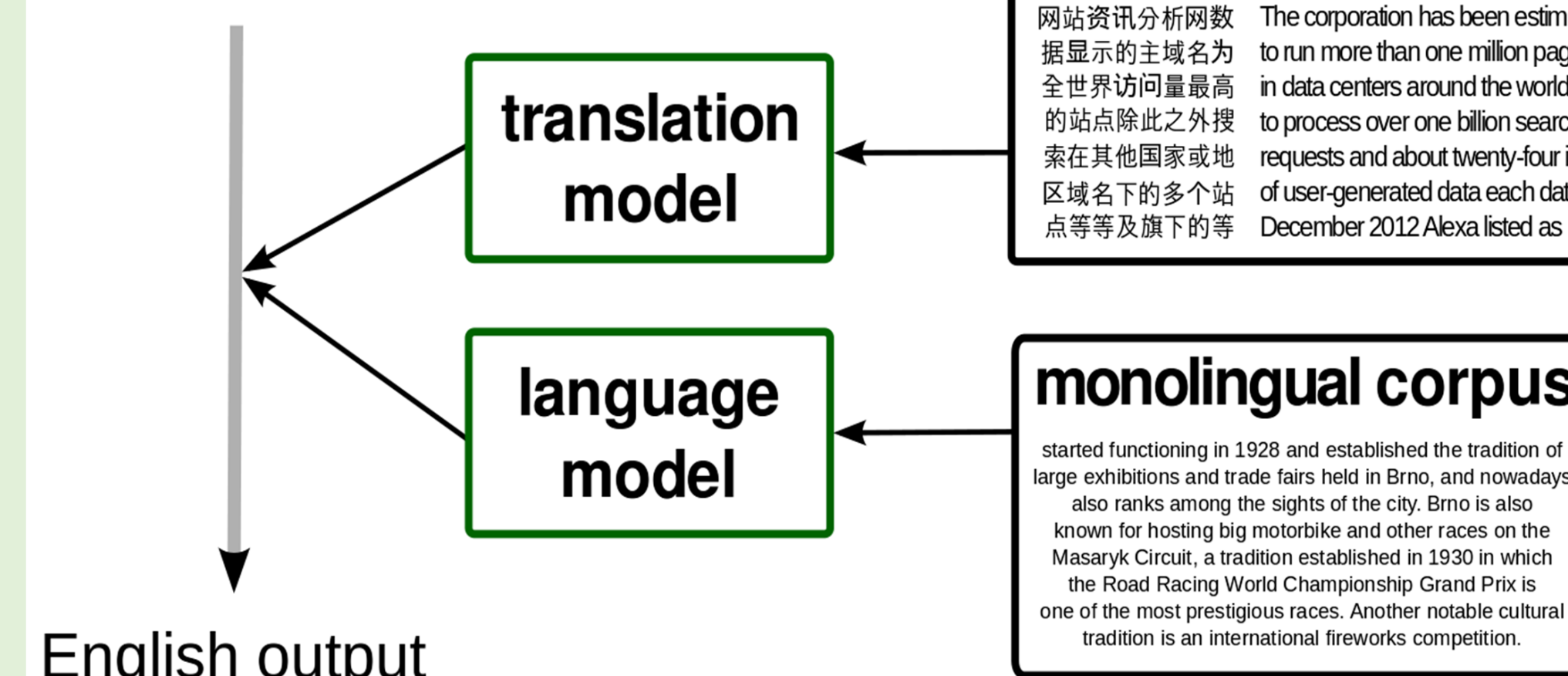
Statistical machine translation (SMT) is a machine translation paradigm where translations are generated on the basis of statistical models whose parameters are derived from the analysis of bilingual text corpora.

SATS uses Moses statistical machine translation system that allows you to automatically train translation models for any language pair.

Language Modelling (LM)

Building a statistical language model that can estimate the distribution of natural language as accurate as possible. IRSTLM tool is used for language modeling.

似乎格式有問題



parallel corpus

The corporation has been estim to run more than one million pag in data centers around the world to process over one billion search requests and about twenty-four i of user-generated data each dat December 2012 Alexa listed as

monolingual corpus

started functioning in 1928 and established the tradition of large exhibitions and trade fairs held in Brno, and nowadays also ranks among the sights of the city. Brno is also known for hosting big motorbike and other races on the Masaryk Circuit, a tradition established in 1930 in which the Road Racing World Championship Grand Prix is one of the most prestigious races. Another notable cultural tradition is an international fireworks competition.

TRANSLATION MEMORY (TM)

A translation memory (TM) is a database that stores "segments", which can be sentences, paragraphs or sentence-like units (headings, titles or elements in a list) that have previously been translated, in order to aid human translators.