

# Applying the Meaning-Text Theory Model to Text Synthesis with Low- and Middle Density Languages in Mind

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The linguistic model as defined in the Meaning Text Theory (MTT) is, first of all, a language production model. This makes MTT especially suitable for language engineering tasks related to synthesis: text generation, summarization, paraphrasing, speech generation, and the like. In this article, we focus on text generation. Large scale text generation requires substantial resources, namely grammars and lexica. While these resources are increasingly compiled for high density languages, for low- and middle density languages often no generation resources are available. The question on how to obtain them in a most efficient way becomes thus imminent. In this article, we address this question for MTT-oriented text generation resources.

## 1. Introduction

With the progress of the state of the art in Computational Linguistics and Natural Language Processing, language engineering has become an increasingly popular and pressing task. This is in particular true for applications in which text synthesis constitutes an important part – among other things, automatic text generation, summarization, paraphrasing, and machine translation.

Large coverage text synthesis in general requires substantial resources for each of the languages involved. While for high density languages, more and more resources are available, many of the low- and middle density languages are still not covered. This may be due to the lack of reference corpora, the lack of specialists knowledgeable in the field and in the language in question, or other circumstances. The question which must obviously be answered when a text synthesis application is to be realized for a low- or middle density language for which no text synthesis resources are available as yet: How can these resources be obtained in the most rapid and efficient way? This obviously depends on the exact kind of resources needed and thus, to a major extent, on the application and the linguistic framework underlying the implementation of the given system that addresses the application.

In this article, we focus on one case of text synthesis: the natural language text generation. We discuss the types of resources required for a text generator based on the *Meaning Text Theory*, MTT [1, 2, 3, and 4]. MTT is one of the most common rule-based linguistic theories used for text generation. This is not by chance: MTT's model is synthesis (rather than analysis, or parsing) oriented and it is formal enough to allow

# Meaning Text Theory

**L Cohen**



## **Meaning Text Theory:**

## Unveiling the Energy of Verbal Art: An Mental Sojourn through **Meaning Text Theory**

In some sort of inundated with monitors and the cacophony of quick interaction, the profound power and psychological resonance of verbal beauty usually disappear into obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, located within the musical pages of **Meaning Text Theory**, a fascinating work of fictional elegance that pulses with fresh thoughts, lies an remarkable journey waiting to be embarked upon. Written by a virtuoso wordsmith, that magical opus instructions readers on a psychological odyssey, gently revealing the latent potential and profound affect stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is central themes, dissect its interesting writing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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