



Two sepedi-english code-switched speech corpora

Thipe I. Modipa^{1,2} · Marelise H. Davel^{2,3}

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Abstract

We report on the development of two reference corpora for the analysis of Sepedi-English code-switched speech in the context of automatic speech recognition. For the first corpus, possible English events were obtained from an existing corpus of transcribed Sepedi-English speech. The second corpus is based on the analysis of radio broadcasts: actual instances of code switching were transcribed and reproduced by a number of native Sepedi speakers. We describe the process to develop and verify both corpora and perform an initial analysis of the newly produced data sets. We find that, in naturally occurring speech, the frequency of code switching is unexpectedly high for this language pair, and that the continuum of code switching (from unmodified embedded words to loanwords absorbed into the matrix language) makes this a particularly challenging task for speech recognition systems.

Keywords Code switching · Speech corpus · Multilingual speech recognition · Sepedi

1 Introduction

Many bilingual and multilingual environments are characterised by the presence of one dominant language or lingua franca and a number of other, typically diverse languages. The dominant language is often a language that is widely spoken, such as English or French. Speakers whose primary (or *matrix*) language is one of the other – often smaller, in terms of number of first language speakers – languages used in the presence of a dominant language, typically use words from the dominant language when they converse in the matrix language.

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Example Of Prepared Speech Topics In Sepedi

Guillaume Favre



Example Of Prepared Speech Topics In Sepedi:

The book delves into Example Of Prepared Speech Topics In Sepedi. Example Of Prepared Speech Topics In Sepedi is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Example Of Prepared Speech Topics In Sepedi, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Example Of Prepared Speech Topics In Sepedi
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- Chapter 3: Example Of Prepared Speech Topics In Sepedi in Everyday Life
- Chapter 4: Example Of Prepared Speech Topics In Sepedi in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Example Of Prepared Speech Topics In Sepedi. The first chapter will explore what Example Of Prepared Speech Topics In Sepedi is, why Example Of Prepared Speech Topics In Sepedi is vital, and how to effectively learn about Example Of Prepared Speech Topics In Sepedi.
3. In chapter 2, the author will delve into the foundational concepts of Example Of Prepared Speech Topics In Sepedi. The second chapter will elucidate the essential principles that need to be understood to grasp Example Of Prepared Speech Topics In Sepedi in its entirety.
4. In chapter 3, the author will examine the practical applications of Example Of Prepared Speech Topics In Sepedi in daily life. This chapter will showcase real-world examples of how Example Of Prepared Speech Topics In Sepedi can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Example Of Prepared Speech Topics In Sepedi in specific contexts. This chapter will explore how Example Of Prepared Speech Topics In Sepedi is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Example Of Prepared Speech Topics In Sepedi. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Example Of Prepared Speech Topics In Sepedi.

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