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# PROCEEDINGS

## International Seminar

LANGUAGE MAINTENANCE AND SHIFT II

July 5-6, 2012



Master Program in Linguistics, Diponegoro University  
in Collaboration with  
Balai Bahasa Jawa Tengah

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Editors:

Agus Subyanto

Mualimin

Prihantoro



Master Program in Linguistics, Diponegoro University  
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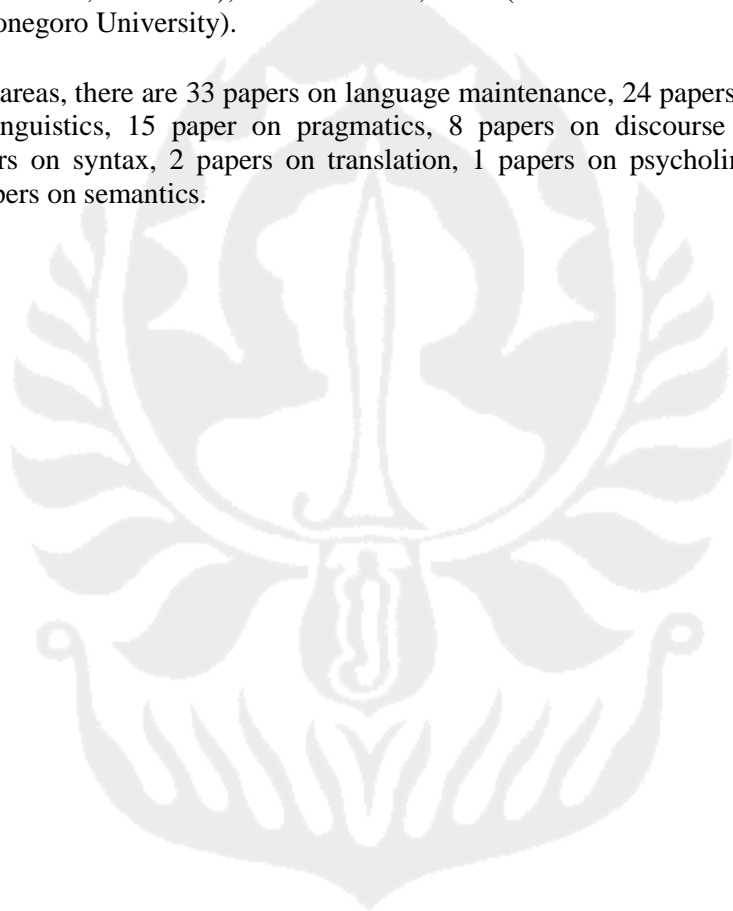
## **Editors' Note**

This international seminar on Language Maintenance and Shift II is a continuation of the previous international seminar with the same theme conducted by the Master Program in Linguistics, Diponegoro University in July 2011. We do hope that the seminar with this theme can become a yearly program of the Master Program in Linguistics, Diponegoro University, as we see that this topic still needs our serious attention due to the inevitable impact of globalization on the life of indigenous languages.

We would like to thank the seminar committee for putting together the seminar that gave rise to this collection of papers. Thanks also go to the head and secretary of the Master Program in Linguistics Diponegoro University, without whom the seminar would not have been possible.

The table of contents lists all the papers presented at the seminar. The first five papers are those presented by invited keynote speakers. They are Prof. Dr. Hanna (Balai Bahasa Provinsi Sulawesi Tenggara, Indonesia), Prof. Dr. Bambang Kaswanti Purwo (Atma Jaya Catholic University, Indonesia), Dr. Sugiyono (Language Center, Indonesia), Peter Suwarno, Ph.D (Arizona State University), and Herudjati Purwoko, Ph.D (Diponegoro University).

In terms of the topic areas, there are 33 papers on language maintenance, 24 papers on language learning, 19 paper on sociolinguistics, 15 paper on pragmatics, 8 papers on discourse analysis, 8 paper on morphology, 2 papers on syntax, 2 papers on translation, 1 papers on psycholinguistics, 1 papers on phonology, and 1 papers on semantics.



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International Seminar "Language Maintenance and Shift II", July 5-6, 2012

SCHEDULE OF THE INTERNATIONAL SEMINAR LANGUAGE MAINTENANCE AND SHIFT II			
TIME	NAME	TITLE	ROOM
07.30 - 08.20 WIB	REGISTRATION		LOBBY
08.20 - 08.45 WIB	OPENING		PAKOEBUWONO
08.45 - 10.45 WIB	PLENARY 1		PAKOEBUWONO
	Hanna	BAHASA DAERAH PADA ERA GLOBALISASI PELUANG DAN TANTANGANNYA	
	Sugiyono	PENANGANAN BAHASA DAERAH: SEBUAH TANTANGAN	
10.45 - 11.00 WIB	COFFEE BREAK		PAKOEBUWONO
11.00 - 12.30 WIB	PARALLEL 1 A		ROOM A
	Asih Prihandini, Deny Nugraha	REVITALISASI BUDAYA NGA-DONGENG LEWAT TEKNOLOGI INFORMASI SEBAGAI UPAYA PELESTARIAN BUDAYA TUTUR (SASTRA LISAN) DIKALANGAN KELUARGA SUNDA MODERN	
	Deni Karsana	MENGURAI DILEMA BAHASA KAILI DITENGAH ARUS GLOBALISASI	
	Dwi Wulandari	THE IMPORTANCE OF POSITIVE LANGUAGE ATTITUDE IN MAINTAINING JAVANESE LANGUAGE	
	Zubaedah Wiji Lestari & Muhamad Qushoy	PERSON DEIXIS IN SUNDANESSE JOKES (THE ANALYSIS OF CANGEHGAR IN "BASA CINA" AND "ASAL-USUL" EPISODES)	
11.00 - 12.30 WIB	PARALLEL 1 B		ROOM B
	I Dewa Putu Wijana	PERANAN BAHASA-BAHASA DAERAH DALAM PERKEMBANGAN BAHASA GAUL REMAJA INDONESIA	
	Indah Arvianti	KARONESSE INTERFERENCE IN INDONESIAN AS THE REFLECTION OF KARONESSE MAINTENANCE	
	Hendarto Supatra	LANGUAGE ATTRITION IN JAVA (SOME NOTES ON THE PROSSES OF JAVANESES LANGUAGE LOSS)	
	M.Oktavia Vidiyanti	PANDANGAN WONG USING BANYUWANGI TERHADAP BAHASA USING: KAJIAN PEMERTAHANAN BAHASA	
11.00 - 12.30 WIB	PARALLEL 1 C		ROOM C
	Muhammad	SASAK LANGUAGE AND TINDIH MAINTAINING	
	Ngadiso	MAINTAINING JAVANESE LANGUAGE AND CULTURE TO SUPPORT CHARACTER EDUCATION IN GLOBALIZATION ERA	
	M. Suryadi	KERAPUHAN PENGGUNAAN BAHASA JAWA PADA KELUARGA MUDA JAWA PERKOTAAN	
	Yune Andryani Pinem	PEMERTAHANAN BAHASA VS PERUBAHAN BAHASA PADA CAKAP KARO DI TANAH KARO, SUMATERA UTARA	
11.00 - 12.30 WIB	PARALLEL 1 D		ROOM D
	Rukni Setyawati	ASPEK SOSIAL BUDAYA, DAN KEPERIBADIAN INDIVIDU SEBAGAI JEMBATAN PEMERTAHANAN BAHASA IBU	
	Swany Chiakrawati	MAINTAINING INDIGENOUS LANGUAGE THROUGH UNDERSTANDING THE PHILOSOPHY AND CULTURE (THE PROBLEM IN MAINTAINING 'FUKIEN (HOKKIEN)' AND 'HAKKA' DIALECTS AS INDIGENOUS LANGUAGE AMONG OVERSEAS CHINESE SOCIETY IN MEDAN, NORTH SUMATERA)	
	Teguh Sarosa	THE DYING PHENOMENON OF JAVANESE LANGUAGE USE IN ITS SPEECH COMMUNITY	
	Prihantoro	ON MONITORING LANGUAGE CHANGE WITH THE SUPPORT OF CORPUS PROCESSING	
12.30 - 13.30 WIB	BREAK		PAKOEBUWONO

International Seminar "Language Maintenance and Shift II", July 5-6, 2012

TIME	NAME	TITLE	ROOM
13.30 - 14.30 WIB	Aan Setyawan	PATTERNS OF LANGUAGE CHOICE IN SEMARANG SOCIETY; STUDY ABOUT LANGUAGE SHIFT AND MAINTENANCE	ROOM A
	Abadi Supriatin	PENGGUNAAN KOSA KATA DALAM BAHASA TEGAL	
	Agnes Widyaningrum	PRESERVING AND MAINTAINING NATIVE TONGUE THROUGH CULTURAL EXPOSURE	
	Andi Rizki Fauzi	THE EFFECTIVENESS OF JAVANESE AS A COMPULSORY LOCAL CONTENT SUBJECT IN THE PRIMARY EDUCATION CURRICULUM TO MAINTENANCE THE JAVANESE LANGUAGE IN JAVA	
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	Hazairin Eko Prasetyo	PRESERVING INDIGENOUS LANGUAGES THORUGH A MORE INTEGRATED NATIONAL CULTURAL STRATEGY	
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	Juanda, Nungki Heriyati	BUKA PINTU: BUHUN YANG TIDAK SELALU TERISTIMEWAKAN	
	Katharina Rustipa, Abbas Achmad Badib, Djoko Sutopo	THE FLOWS OF IDEAS OF ENGLISH ARGUMENTS BY INDONESIAN WRITERS FOUND IN THE OPINION FORUM OF THE JAKARTA POST: AN INDICATION OF LANGUAGE SHIFT	
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	Daniel Ginting	THE RHETORICAL STRUCTURE AND COMMUNICATIVE STRATEGIES OF THE STUDENTS' REQUESTS IN THE WEB DISCUSSION FORUM	
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	Surono	UNIVERSAL NASAL ASSIMILATIONS IN MONOMORPHEMIC AND POLYMORPHEMIC WORDS ACROSS LANGUAGES	
	Yusup Irawan	AMBANG KONTRAS AKUSTIK INTONASI KALIMAT DEKLARATIF-INTEROGATIF DALAM BAHASA SUNDA	
	Maryanti E. Mokoagouw	WACANA MOB PAPUA: KAJIAN EKOLINGUISTIK DIALEKTIKAL	
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	Rizki Hidayatullah, Septi Mustika Sari	KONSEP WANGI DALAM <i>JANGJAWOKAN MINYAK SEUNGIT</i> : KAJIAN ANTROPOLINGUISTIK DI DESA JATISARI, KECAMATAN JATISARI, KABUPATEN CIANJUR	
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	Oktiva herry Chandra	JAVANESE AFFECTIVE WORDS IN TERM OF DRESS	
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	Yovita M. Hartarini	PEMERTAHANAN LOGAT BAHASA IBU DI WILAYAH KOTA KENDAL	
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	Syihabul Irfan	MENDADAK "BAHASA INDONESIA": DAYA ILOKUSIONER DALAM TUTURAN M. TABRANI IHWAL USULAN NAMA BAHASA PERSATUAN	
	Mualimin	REQUESTS IN JAVANESE: A CASE STUDY ON READERS FORUM OF PS MAGAZINE	
	M. Abdul Khak	PERGESERAN BAHASA SUNDA DAN BAHASA CINA DI JAWA BARAT: ANALISIS KOMPARATIF	
	Hidayatul Astar	PEMERTAHANAN BAHASA IBU DI DAERAH TERTINGGAL	
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19.00 - 21.00 WIB	<b>DINNER</b>		PAKOEBUWONO
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07.30 - 08.00 WIB	<b>REGISTRATION</b>		LOBBY
08.00 - 09.30 WIB	<b>PARALLEL 4 A</b>		ROOM A
	Agus Sudono	POLA PILIHAN BAHASA DALAM JUAL BELI DI PASAR TRADISIONAL (STUDI KASUS DI PASAR WINONG, KABUPATEN PATI)	
	Devina Christania, Pradipta Wulan Utami	CAMPUR KODE BAHASA BETAWI DAN BAHASA INDONESIA DALAM KOLOM "ALI ONCOM" PADA SURAT KABAR HARIAN POS KOTA: KAJIAN SOSIOLINGUISTIS	
	Evynurul Laily Zen	SISTEM PANGGILAN KEKERABATAN SEBAGAI CERMIN BUDAYA DAN POLA PIKIR MASYARAKAT JAWA: DULU DAN KINI	
	Sudirman Wilian	THE POTENTIAL LOSS OF SASAK SPEECH LEVEL: A SURVEY OF LANGUAGE USE AMONG SASAK YOUTHS IN WEST LOMBOK	



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	Khristianto, Widya Nirmalawati	MAKING USE THE RECORDED LANGUAGE RELICS IN HUMOR PIECES	
	Mohammed Azlan Mis, Mohammad Fadzeli Jaafar, Norsimah Mat Awal, Hayati Lateh	KAJIAN BAHASA PERHUBUNGAN MASYARAKAT DI SEMPADAN MALAYSIA-THAILAND: ANALISIS PILIHAN BAHASA	
	Sri Mulatsih	SPEECH PLANNINGS ON THE STUDENTS' CONVERSATION (A CASE STUDY OF FOURTH SEMESTER STUDENTS OF ENGLISH DEPARTMENT, DIAN NUSWANTORO UNIVERSITY)	
08.00 - 09.30 WIB	<b>PARALLEL 4C</b>		ROOM C
	Taufik Mulyadin	INDUSTRI KREATIF, ANAK MUDA, DAN <i>BASA SUNDA</i>	
	Veria Septianingtias	ANALISIS DIALEK A DAN DIALEK O BAHASA LAMPUNG: KAJIAN FONOLOGI	
	Yuni Ferawaty	INTERFERENSI BAHASA CINA DIALEK HAKKA PADA ISTILAH PENAMBANGAN TIMAH BANGKA	
08.00 - 09.30 WIB	<b>PARALLEL 4D</b>		ROOM D
	Yuliarni	KONTRASTIF BAHASA MINANGKABAU DENGAN BAHASA INDONESIA DI TINJAU DARI SEGI PREPOSISI	
	Frans I Made Brata	LEXICAL MEANING AND ITS LOSS AND GAIN OF INFORMATION IN TRANSLATION	
	Retno Purwani Sari	DECONSTRUCTION OF IDEOLOGICAL HEGEMONY OF LANGUAGE-CULTURE MAINTENANCE IN SUNDANESE MEDIA	
09.30 - 09.45 WIB	<b>CEFFEE BREAK</b>		PAKOEBUWONO
09.45 - 11.00 WIB	<b>PLENARY 2</b>		PAKOEBUWONO
	Herudjati Purwoko	LINGUISTIC DOMAINS: KEYS TO THE MAINTENANCE OF JAVANESE	
11.00 - 11.15 WIB	<b>CLOSING</b>		PAKOEBUWONO

## ON MONITORING LANGUAGE CHANGE WITH THE SUPPORT OF CORPUS PROCESSING

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### Abstract

One of the fundamental characteristics of language is that it can change over time. One method to monitor the change is by observing its corpora: a structured language documentation. Recent development in technology, especially in the field of Natural Language Processing allows robust linguistic processing, which support the description of diverse historical changes of the corpora. The interference of human linguist is inevitable as it determines the gold standard, but computer assistance provides considerable support by incorporating computational approach in exploring the corpora, especially historical corpora. This paper proposes a model for corpus development, where corpus are annotated to support further computational operations such as lexicogrammatical pattern matching, automatic retrieval and extraction. The corpus processing operations are performed by local grammar based corpus processing software on a contemporary Indonesian corpus. This paper concludes that data collection and data processing in a corpus are equally crucial importance to monitor language change, and none can be set aside.

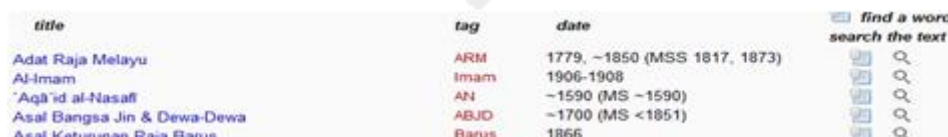
**Keywords:** Corpus, pattern matching, automatic retrieval, local grammar.

### 1. INTRODUCTION

The use of computer affects diverse aspects of life, not only technology, but also language. The idea is that the computer can be utilized to support language analysis in various branch of linguistics. A variety of terms is suggested to describe computer support in performing linguistic analysis ranging from phonology, morphology, syntax, semantics and to other branches of linguistic as well. However, two most commonly used terms are Natural Language Processing (NLP) and computational linguistics (CL). These two terms suggest an interdisciplinary study of computer science and linguistics.

Among linguistic branches, one that benefit from NLP/CL is corpus linguistics that focuses on the documentation of language, both spoken and written data. Computer assistance in this study can significantly enhance the documentation function. Besides avoiding large space to store the data, it can structure the data as required by the users. It also supplies users with ease of data retrieval without having to manually index the data. Consider the data of Malay classical literature corpora on Malay concordance project (<http://mcp.anu.edu.au/>) presented by figure 1:

Figure 1. Sample of Structured Corpora

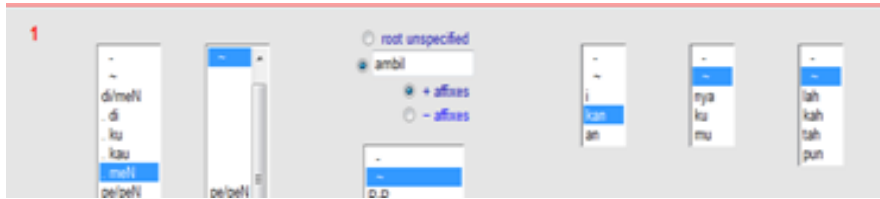


title	tag	date
Adat Raja Melayu	ARM	1779, ~1850 (MSS 1817, 1873)
Al-Imam	Imam	1906-1908
*Aqa'id al-Nasafi	AN	~1590 (MS ~1590)
Asal Bangsa Jin & Dewa-Dewa	ABJD	~1700 (MS <1851)
Asal Keturunan Raja Barus	Barus	1866

find a word  
search the text

Figure 1 illustrates a structured data on Malay classical literature corpora. There, the data is indexed by the alphabetical order: however, one can also index the data on chronological order. Another function is automatic retrieval, where it can retrieve lexicogrammatical pattern as required by the user. Figure 2 illustrates the display of automatic retrieval (morphology), still on Malay concordance corpus.

**Figure 2. Malay Concordance Corpus**

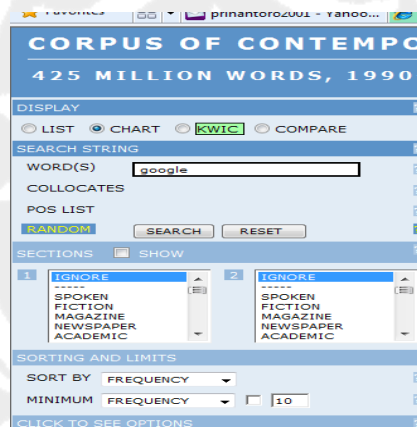


This paper seeks to describing a mechanism for performing automatic retrieval. This retrieval will benefit users in terms of lexicogrammatical pattern matching on the corpora, including the monitor corpora. Monitor corpora is meant to monitor language shift, which to some extent, is inevitable (Davies, 2010).

**2. LANGUAGE DEVELOPMENT AND MONITOR CORPUS**

One of the corpora allowing chronological language observation is COCA, which stands for the Corpus of Contemporary American English (Davies, 2010). Davies (2010) also claimed this corpora as the first reliable monitor corpora. Consider figure 3:

**Figure 3. Query Box for 'Google' in COCA (<http://corpus.byu.edu/coca/>)**



Available on line, COCA are composed of various genres of spoken and written English. The corpora are also equipped with various computational operations. One of the most basic operations is information retrieval; the retrieval of information from stored data (on/off line) via queries formulated by the user (Tzoukermann et al, pp. 529-541). Consider the demonstration of COCA retrieving a target word 'google' a search engine. The aim of this demonstration is to observe the changing trend of the target word from year to year. Figure 4 presents the result:

**Figure 4. Historical Chart for 'Google' in COCA**

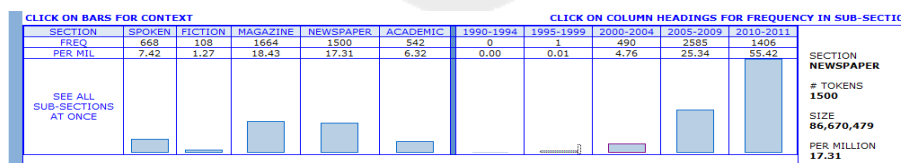
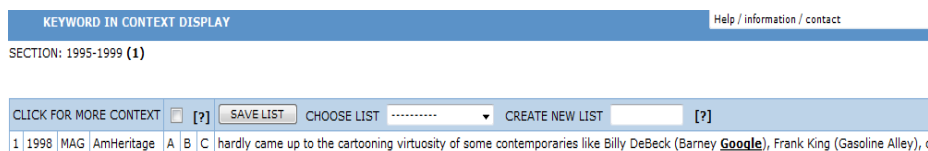


Figure 4 is divided into two large sections. The left section indicates the identification of target words on several genres such as: spoken corpus, fiction, magazine, newspaper and academic corpus. Two genres where the target words are less frequently used are fiction and academic. Magazine and newspaper sections dominate the use of the target word.

The right section of the result, which is the target of this demonstration, indicates the distribution of the target word on the chronological order. The system identified no result from 1990-1994. There is, however, one target word indentified on the corpora, between 1995 – 1999, not significant though. Later, It significantly improves from 2002 to 2004, 2005 to 2009, and 2010 to 2011. This is not surprising since

Google is officially incorporated as a private company in 1998. The fame came a bit later than that, around 2000. Now, we might be interested in understanding the context, on what context this word is identified on 1994-1999 corpora. Again, the retrieval makes this operation easily executable. Consider the result on figure 5:

Figure 5. Target Word in Context



The context display in figure 5 indicates that the use of the target word is not the search engine 'google', but instead, it is the last name of a person (Barney Google), a cartoon character.

### 3. DATA PROCESSING

This section attempts to discuss data processing, focusing on data annotation that applies for automatic retrieval of Indonesian prefixed verbs. It briefly describes the crucial importance of data annotation, and its practice in an experiment corpus of contemporary Indonesian.

#### 3.1 Data Annotation

Data annotation is very essential in corpus processing. Without annotation, computer allows only some basic statistical operations (character based) such as word and character count, basic retrieval and extraction, with poor linguistic examination on the data. These character based pose many challenges for linguists. For instance, what constitute a word in basic computing are merely space-separated strings of characters. This causes non-canonical words, such as words with affix(es), are treated as distinct lexemes.

It is possible for two space-separated strings of characters, to root on one canonical form. However, without proper annotation, the computer will likely fail recognizing them. For instance, in Indonesian, *memukul* (to hit) and *dipukul* (being hit) root on the same canonical form *pukul*. In order to perform lexeme based statistical count, annotation is required. Without annotation, these two strings, *memukul* and *dipukul*, are counted as two distinct units, whereas it is commonly known for Indonesian that they are the variants of *pukul*.

Some linguistic features are shared among languages in the world, but some others are specific to individual language. Without proper language module computer is most likely to fail to perform character recognition. English is usually the default language module in a computer. The question is, how will this module recognize other language, such as Chinese, Japanese or Korean, for instance, that employ different writing system?

Character recognition is not the only challenge. Another challenge is segmentation. In English, and some other languages, space is the separator that segment one word to another. However, we need to understand that this segmentation method does not apply to all languages, for instance; Chinese, where a string of characters might be composed of a complex sentence. Without a proper module, the computer will recognize this string as one word only, disregarding the fact that it is composed of several words.

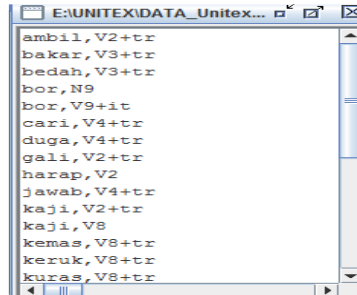
#### 3.2 Application

Previous sub section has dealt with some annotation problems. One of the problems is how the computer can recognize two words that root on the same canonical form. The solution to this problem must be executed in pre-processing stage, namely annotation. The data must be annotated carefully; otherwise, the computer will recognize the derived forms of a canonical form as distinct lexemes (types).

There are some formalism methods to perform data annotation. In this paper, the writer employ entry line formalism, used in UNITEX (2008), a Local Grammar based corpus processing software. Local Grammar (Gross, Local Grammars and Their Representations by Finite State Automata, 1993) is used to support computational process in some programming languages. Its graphical representation, Local Grammar Graph (LGG), is designed to powerfully describe linguistic phenomena in computational sense. Besides English, LGGs have successfully been used in computational research of various languages such as French (Gross, 1984), Korean (Nam & Choi, 1997), Arabic (Traboulsi, 2009), Indonesian (Prihantoro, 2011) and some other languages

Entry line formalism used in UNITEK attributes lexicogrammatical and semantic properties to the canonical forms. To perform precise recognition of lexeme and its derived forms, annotation must first be performed morphologically. However, the first procedure is to structure the canonical forms lexical resource. These forms are then to be inflected morphologically to generate their inflected forms. Consider the lexical resource of some Indonesian verbs canonical forms presented by figure 6:

Figure 6. Some Indonesian Verbs Canonical Forms Lexical Resource



This resource attributes each entry with at least a grammar code, which reflects the parts of speech. Most of the entries are attributed with <V> indicating that the canonical form is a verb. However, it is possible for the same canonical form to appear twice. These doublets indicate that they have distinct grammar code and hence distinct part of speech. For instance, the word *bor* (*drill*) has two grammar codes: <N> which indicates *drill* as a noun, and <V>, which indicates *drill* as a verb. This distinction will benefit in terms of disambiguation. The number in adjunct to the grammar code is the morphology inflection code. The code is not always the same for each entry as some entry might be inflected by distinct morphological LGG. As an instance, prefix {meN-} in Indonesian takes distinct forms for distinct entry. Table 1 presents some canonical forms in Indonesian and their possible surface representations:

Table 1. Some Canonical Forms and their Surface Representations

Canonic Form	Type	Surface Representation	POS	Gloss
<i>Larang</i>	a	<i>melarang</i>	V	to forbid
<i>Gali</i>	b	<i>menggali</i>	V	to dig
<i>Bakar</i>	c	<i>membakar</i>	V	to burn
<i>Duga</i>	d	<i>menduga</i>	V	to guess
<i>Peras</i>	e	<i>memeras</i>	V	to squeeze
<i>Sapu</i>	f	<i>menyapu</i>	V	to sweep
<i>Tulis</i>	g	<i>menulis</i>	V	to write
<i>Kemas</i>	h	<i>mengemas</i>	V	to pack
<i>bor</i>	i	<i>mengebor</i>	V	to drill

Table 1 presents distinct concatenation of prefix {meN-} to some entries. In *larang*, the prefix concatenates to the entry line by deleting the {N-}, which stands for possible nasal orthographical forms. In *sapu*, the {N-} is converted to <ny>, the orthographical form of [ŋ], accompanied by the deletion of the first orthographical letter of the entry <s>. In *tulis*, the deletion of <t> takes place, succeeding the concatenation of {men-} to the lexeme *tulis* where the surface representation of {N-} is <n>. These instances illustrate how distinct canonical forms prefer distinct concatenation method, and hence, result on distinct surface representation. They require distinct morphological inflection methods. In response to this issue, several morphological LGGs (Local Grammar Graph) are built. These LGGs are inflected to the lexemes with reference to the morphology inflection code annotated on the canonical forms lexical resource.

Figure 7. Morphological LGG to Perform Direct and Indirect Concatenation

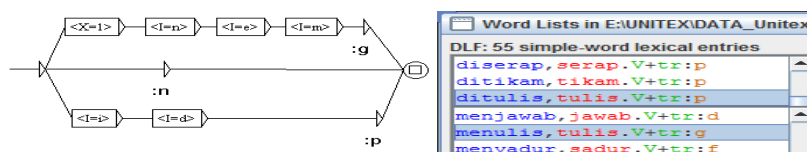
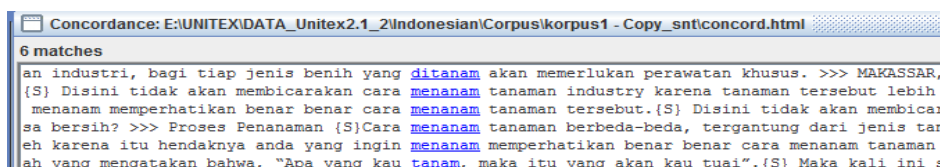


Figure 7 from Prihantoro (2011) on the left shows one of the inflectional LGGs applied on UNITEX (Paumier, 2008), a corpus processing software. Canonical lexical resource illustrated on figure 6 is inflected by this LGG (and also some other inflection LGGs) with reference to Indonesian lexicogrammatical patterns. The inflection results on current lexical resource (showed by figure 8 on the right) which comprises both of inflected and canonical wordlist. This word list is a formalization of Indonesian lexicogrammatical pattern for prefix {meN-} and {di-}. Therefore, when this lexical resource is applied to a particular corpus, the user can identify the inflected forms in condition that the inflection module (in this case LGGs) is completed. Consider the result of automatic retrieval of lexeme <tanam> on the contemporary Indonesian corpus, presented by figure 8.

**Figure 9. Inflected Forms of <tawar>**



In this corpus, with the application of the lexical resource, the computer retrieves two inflected forms of <tanam> (*ditanam*, *menanam*) and one canonical form *tanam* as well as prefixed forms on verb entries with eight different morphological concatenation methods. Comprehensive recognition absolutely requires LGGs that comply to all affixes in Indonesian. However, the LGGs designed for Indonesian verbs in this research have managed to recognize prefix {meN-} and {di-} for Indonesian verbs.

#### 4. CONCLUSION

The application of LGGs has demonstrated automatic retrieval of both inflected and canonical entries on a contemporary Indonesian corpus. The method can also be applied on monitor corpora so allowing users to observe the inflection system of a language from one point of time to another. This, of course, requires sufficient and valid data collection as well as careful annotation method: a scheme for further research. With the existence of Corpus processing software and LGGs, some natural language operations can be performed on the monitor corpora and in turn it can benefit its users on observing how language change over time, not only for affix, but to the extent of more linguistic complexities.

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