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# PHONOLOGICAL DIFFERENCES IN THE SUB DIALECT

# OF DAYAK DESA DAWAK AND DAYAK DESA BELUNGAI

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**THESIS** BY

**ERMINA TOLIANG** NIM. 166110100111003

### STUDY PROGRAM OF LINGUISTICS

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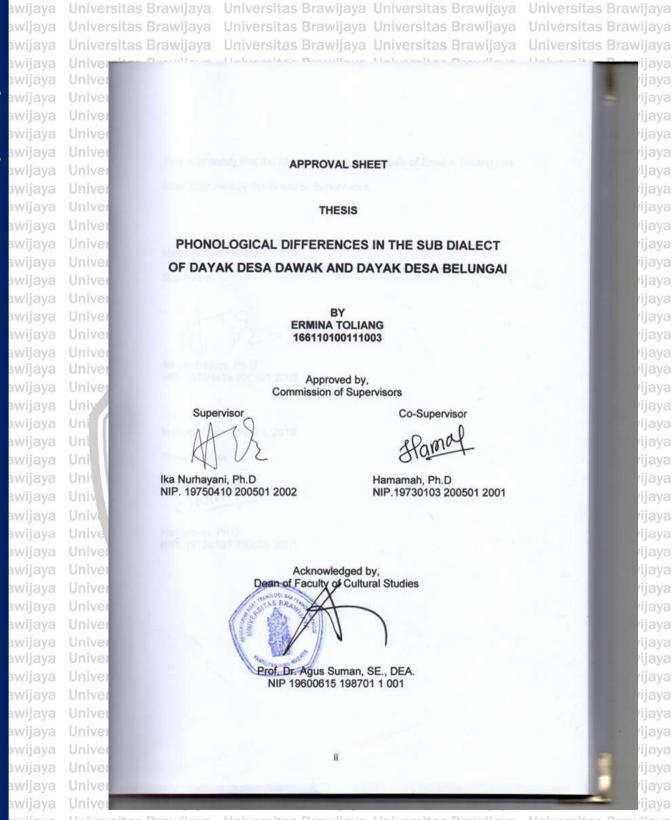
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Presented to Universitas Brawijaya in partial fulfilment of the requirements for the degree of Master of Linguistics



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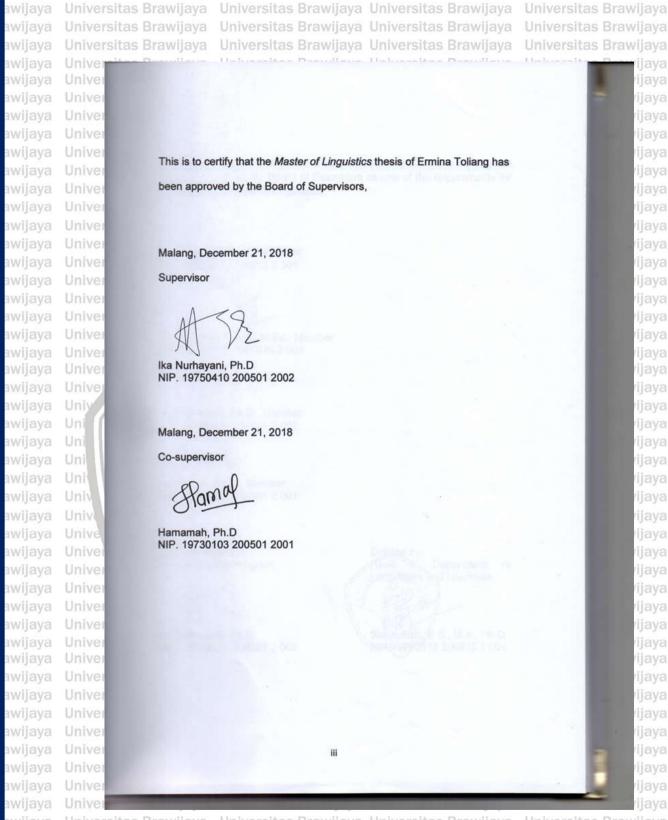


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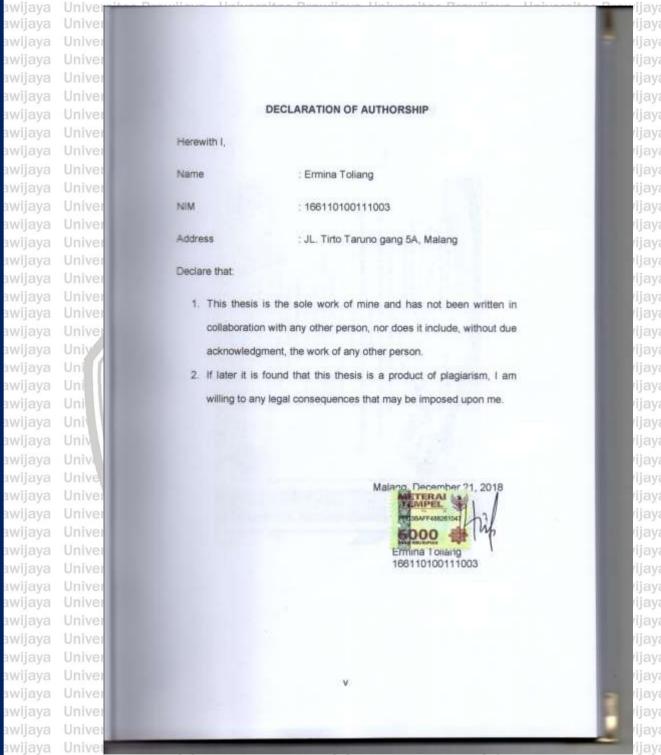
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I would like to thank Jesus Christ for all His guidance and presence in my entire life, especially during the thesis writing. Nothing is impossible if we believe in Him.

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The writing of this thesis is to fulfill the requirements for achieving degree of *Magister Linguistik* (M. Li) in the Faculty of Cultural Studies especially the Magister of Linguistic. The researcher realizes that in the process of writing this thesis, the researcher gets many supports. Thus, firstly, I want to express my deepest gratitude to my supervisors and my examiners: Ika Nurhayani, Ph.D., Hamamah Ph.D., Dr. Esti Junining, M.Pd, and Dr. Sri Endah Tabiati, M.Ed who have given valuable guidance, patience, suggestion, comment, and correction which help me to make this thesis more perfect.

Secondly, my sincere gratitude also goes to all the lecturers of the Magister Linguistics who have taught her many meaningful lessons and given unforgettable experiences.

Thirdly, I would like to express my deep gratitude and respect to my parents and family, especially for Bapak, Mamak, Andreas Suharyanto Lowa, Agus and Tomara for for their support and prayers.

Fourthly, my sincere gratitude also goes to Mr. Nodius as the chairman of Dewan Adat Dayak Kec. Toba, the headman and the village secretary of Teraju village, and the headman of Belungai village, om Jampen and family and also my participants in this research. Thank you for your supports and helps.

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Universitas Hopefully, this thesis would be useful and informative for the readers. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Toliang, Ermina. 2018. Phonological Differences in the Sub Dialect of Dayak Desa Dawak And Dayak Desa Belungai. Thesis, Magister of Linguistic, Faculty of Cultural Study, Universitas Brawijaya, Malang Advisors: (I) Ika Nurhayani, Ph.D.

(II) Hamamah, M.Pd., Ph.D

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Keywords: sub-dialect, phonological differences, pronunciation

This research deals with analyses on phonological differences in the sub-dialect of Dayak Desa Dawak (DDD) and Dayak Desa Belungai (DDB) where they are in the same sub-tribe of Dayak Desa. The goals are to complete the available research about Dayak Desa languages and to document the language from a phonological point of view which includes on vowel variation and consonant variation. This research uses a list of 200 Swadesh vocabularies. The first step is to collect the data in four villages in Toba District by using three participants from DDD and three participants from DDB. It was done by asking the participants to translate the Swadesh vocabularies into Dayak Desa language and pronounce the words. The data were recorded using PRAAT. The second step was recording the pronunciation from one participant of DDD and DDB each to get the clear sound of a recording in PRAAT. Then, the recording was verified by the spectrogram. The result showed differences between the two sub-dialects such as raising the vowel sound on the closed syllable:  $/\epsilon \sim i/$ , raising the vowel sound on the open syllable:  $/\epsilon \sim e/$ , the consonant alteration on the first syllable: /s/~/h/, the consonant alteration in the last syllable: /s~h/, /n~n/, /r~r/ and sound:/n~i/, and the consonant insertion in the first syllable: /Ø~n/. Nevertheless, there are still more linguistic aspects which can be identified the differences among subdialects of Dayak Desa also still can be related with other disciplinary. Therefore, the different findings and discuccions can be made in the future Universeearch in order to enrich the study in this topic which is beneficial for the lava Unive knowledge development and also keep the local language exist. rsitas Brawijava



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Toliang, Ermina. 2018. Phonological Differences in the Sub Dialect of Dayak Desa Dawak And Dayak Desa Belungai. Tesis, Magister Linguistik, Fakultas Ilmu Budaya, Universitas Brawijaya, Malang Dosen Pembimbing: (I) Ika Nurhayani, Ph.D.

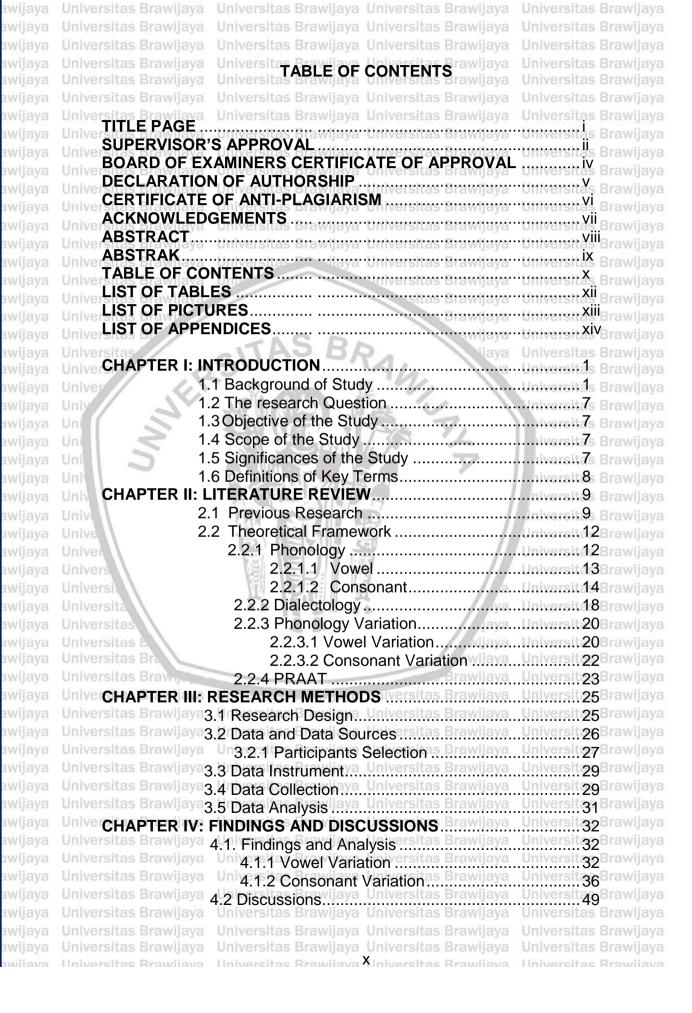
(II) Hamamah, M.Pd., Ph.D

Kata Kunci: sub-dialek, perbedaan fonologi, pelafalan

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas BPenelitian ini membahas mengenai perbedaan fonologi sub-dialek laya dari Dayak Desa Dawak (DDD) dan Dayak Desa Belungai (DDB) yang berasal dari sub-suku yang sama yaitu Dayak Desa. Tujuan dari penelitian ini adalah untuk menyediakan penelitian Bahasa Dayak Desa dan sebagai dokumentasi bahasa dari sudut pandang fonologi yang mencakup pembahasan mengenai variasi vokal dan variasi konsonan. Penelitian ini menggunakan 200 daftar kata Swadesh. Langkah pertama dalam penelitian ini adalah mengumpulkan data dari empat kampung yang ada di Kecamatan Toba dengan mengambil tiga orang partisipan dari DDD dan tiga orang partisipan dari DDB yang dilakukan dengan meminta mereka menerjemahkan kata-kata ke dalam bahasa Dayak Desa melafalkannya dan kemudian direkam menggunakan software PRAAT. Langkah kedua adalah merekam pelafalan dari satu orang partisipan dari DDD dan DDB untuk mendapatkan suara yang bagus dan jelas pada Rekaman akan diverifikasi ke dalam spektrogram.Hasil menunjukan bahwa ada perbedaan antara ke dua sub-dialek tersebut yaitu penaikan bunyi vokal pada silabel tertutup: /ε~i/, penaikan vokal pada suku kata terbuka: /ɛ~ə/, pergantian bunyi konsonan pada awal silabel: /s/~/h/, pergantian bunyi pada silabel terakhir: /s~h/, /n~n/, /r~r/ dan  $/\mathbf{n} \sim \mathbf{j}$ , dan pelesapan bunyi pada silabel pertama:  $/\mathbf{0} \sim \mathbf{n}$ . Akan tetapi, masih terdapat banyak aspek linguistik yang bisa diidentifikasi perbedaan di antara sub dialek tersebut ini juga masih bisa dikaitkan dengan disiplin lain. Sehingga, temuan-temuan dan pembahasan-pembahasan yang berbeda dapat dibuat di penelitian berikutnya dengan tujuan untuk memperkaya studi dalam topik ini yang berguna untuk perkembangan pengetahuan dan dalam rangka mempertahankan serta melestarikan bahasa lokal.





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CHAPTER V: CONCLUSIONS AND SUGGESTIONS... **REFERENCES APPENDICES** 

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5.1 Conclusions 5.2 Suggestions ......52 Brawijaya

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universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas BLIST OF TABLES Brawijaya

Table 4.1 Raising the vowel sound on closed syllable ...... Universitas Brawijaya

Table 4.2 Consonant alteration on first syllable .....

Table 4.3 Consonant alteration on the second syllable .....

Table 4.4 Consonant insertion on the second syllable ......

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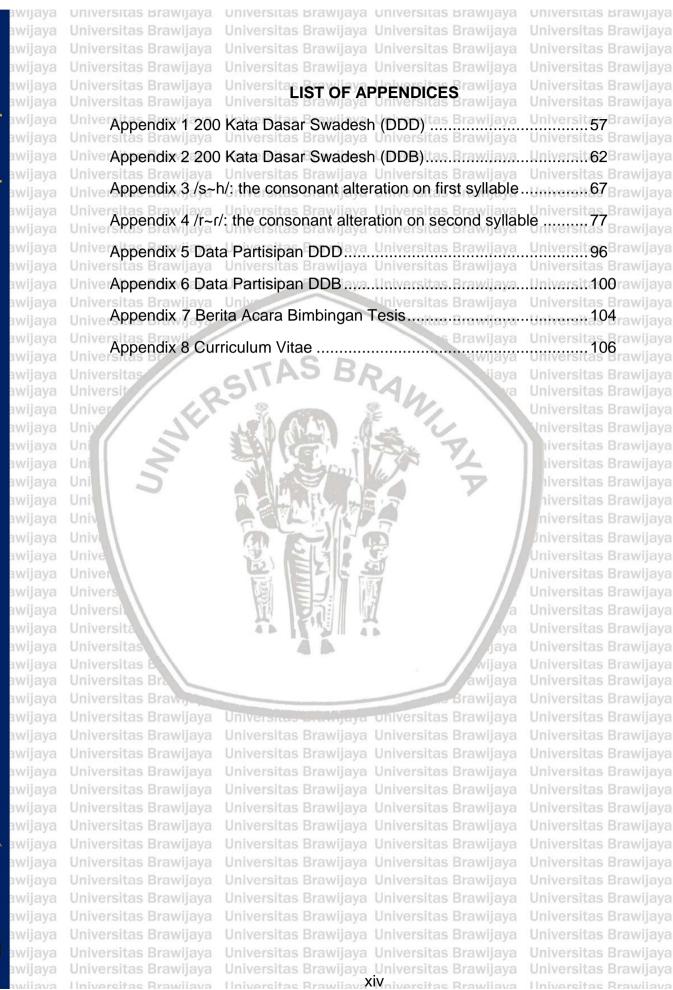
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# Universitas Brawijaya Universitas Brawijay Universitas Brawijaya Universitas Brawijaya

### Universitas BINTRODUCTION Brawijaya

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Universities B This chapter presents the introduction of the study consisting of the lave background of the study, the problem of the study, the objective of the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya study, the scope of study, the significance of the study, and the definition Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive of key terms.

#### Unive 1.1 Background of the Study

Universitas Brawijaya Universit Local language is a language spoken by the people in one area of a lava country and is usually used in daily conversation in that area but it is only lava used limitedly in other areas of the country. In Indonesia, the local ijava language is usually as a mother tongue or the first language of the local ilava people. One of the local languages in Indonesia is Dayak language which lava Universi used in Kalimantan Island. There was an ethnolinguistic study by Alloy java Univered all (2008), who conducted research about the existence of the tribes and liava Univertheir languages or dialects in West Kalimantan. The study found that there paya University about four hundred Dayak tribes with their languages in Kalimantan. University of local languages in Kalimantan can be seen in Picture 1. 1. ijaya

Hudson, as cited by Adelaar (2006), asserts that the native languages in Kalimantan/Borneo are divided into ten subgroups. Those are Malayic, Land Dayak, West Barito, East Barito, Barito Mahakam, Kenyah-Kayan,

Rejang-Baram, Apo Duat, Tamanic, and Sabahan. In West Kalimantan

Universitself (Alloy et al; 2008), there are 151 sub-tribes and 168 local languages.



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The spreading area of West Kalimantan is included into the subgroup of

Unive Malayic, Sulawesi jaya Dayak and а small group South Land Unive (ethnologue.com, 2018). The classification of the Malayic subgroup University includes Iban and Malay.



Unive Picture 1.1: Map of Kalimantan Language Family ijaya Unive (www.ethnologue.com)

Hammarström et al (2017) classify the languages of Land Dayak as

Unive follows.

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Universita 2. Bidayuh

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A research about Dayak Desa language was conducted by Alloy Univerent al (2008). Alloy et al (2008) described the spreading of Dayak Desa in Toba and Meliau district. They divided Dayak Desa into two parts based Univeron the geographical condition, Dayak Desa Belungai which is located around Belungai hill, Toba districts; and Dayak Desa Ulu which is located in Meliau District. Nonetheless, the research did not mention specifically lava the differences between both Dayak Desa languages. Another research by jjaya UniverTanco (2014) also studied Dayak Desa and asserted that Dayak Desa Univerlanguage is divided into five sub-dialects: namely Dayak Desa Belungai lava (further written as DDB), Dayak Desa Dawak (further written as DDD), jiava Dayak Desa Ulu, Dayak Desa Meranggau and Dayak Desa Semalak. java Three of them, Dayak Desa Ulu, Dayak Desa Meranggau and Dayak Desa ijaya Semalak, are located in Meliau district and the small area in Toba District. Hava Unive Toba district itself is divided into two parts: DDB is located around jaya Unive Belungai hill and DDD is situated along Dawak river.

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There are differences among Dayak Desa sub-dialects. Some lava Univerfactors that might influence the different sub-dialects in Dayak Desa layar Univerlanguage are the geographical condition, assimilation of different layar Univerlanguages and intermarriage with the other sub-tribes (Tanco, 2014). One jaya University example can be derived from the two Dayak Desa subgroups in Jaya UniverToba District, Dayak Desa Belungai (DDB) and Dayak Desa Dawak ijaya Univer(DDD). DDD and DDB are identified as belonging to the same group and ijaya Univertherefore they use the same native language. However, there is a layer

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prominent difference between DDD and DDB in terms of phonological Unive aspect.

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There are different pronunciations on the same words that are used by these two sub-groups. One example is the pronunciation "sidak" that means "they". DDD will pronounce [sida?] where /s/ is a voiceless alveolar fricative consonant. Its place of articulation is alveolar where the tip of the tongue touches or almost touches the tooth ridge. When they jaya produce this consonant the air stream is compressed and passes through jaya Universe small opening in the mouth and creating a hissing sound. Whereas, DDB java pronounces [hida?] with /h/ as a voiceless glottal fricative consonant. ijava When they produce this sound there is a friction in the glottis and this java sound also produces a hissing sound. The phoneme /h/ becomes one of java the special characteristics of DDB speakers. It can be seen that there is a jaya University change of sound from voiceless alveolar fricative /s/ into voiceless glottal ijaya Univerfricative /h/.

Previous researches about Dayak languages, Alloy et al (2008) liava Universal Tanco (2014) are concerned with the division on the languages of layar UniverDayak subgroups. As far as the researcher's knowledge, there has not liava Universities any research conducted on the phonological differences among DDB ijaya University and DDD. Therefore, this proposed research intends in completing the layer University available research about Dayak Desa languages. Specifically, the present ilaya Universtudy is going to investigate the phonological differences in the sub-dialect ijaya University of Dayak Desa Dawak and Dayak Desa Belungai. The present study is light

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significant to be conducted because of the limitation of the in-depth study of the sub-dialects of Dayak Desa. Beside, this research intended as a University in documenting Dayak Desa language where this language began to univernu into language shifting due to the influence of Indonesian, Malay and other languages brought by the comers to this area.

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In analyzing those two sub-dialects, the researcher compares lava those sub-dialects using PRAAT which was developed by Paul Boersma Universal David Weenink in 1995. PRAAT is a phonetic program that is used to Universallyze the sound of language. Using PRAAT, the researcher tries to lava recognize the differences pronunciation spoken by the participants of DDD liava and DDB by seeing the differences between vowel and consonant in the java spectrogram. Therefore, the researcher also investigates the difference in lava terms of vowel variation and consonant variation to classify the types of liava Universound change phonologically.

To identify the differences between both of the sub-dialects, the lava Universeearcher uses the collection of words from the Swadesh vocabularies. ijava UniverThere are two hundred primary words based on the Swadesh ijaya Universe vocabularies. They consist of basic words that exist in any languages layar Univer(Mahsun, 2000). As the examples, the realization of the meaning of 'child', Univereat', 'hand', etc. which exist on the words of each language in the world. I aya University The participants are asked to pronounce the words based on Swadesh ijaya Univervocabularies and these pronunciations are going to be recorded using the ijaya PRAAT. Then, the result of the recording is going to be presented in the p

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spectrogram. Moreover, the research is also going to analyze whether there are sound changes between sub-dialect of DDD and DDB.

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### 1.2 The research question

The research question of this study is formulated as follows:

What are the phonological differences between the sub-dialects DDD La vijaya Universitas Brawijaya Universitas Brawijaya and DDB? Iniversitas Brawijaya

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### 1.3 Objective of the Study

Based on the problem of the study, the objective of the study is:

To investigate the phonological differences in the sub-dialects DDD

and DDB.

### 1.4 Scope of the Study

The research focuses on the phonology differences in the sub-dialects of DDD and DDB which are produced by those living in the regions between DDD and DDB. Therefore it is hoped there will be other research unive conducted on Dayak Desa language with the different field or the different Univermethoday Universitas Brawijaya universitas Brawijaya

### Univer 1.5 Significances of the Study ijaya Universitas Brawijaya Universitas Brawijaya

Universita This research is expected to be useful for the following parties: tas Brawilava

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Universita1. BDDD and DDB community: the result of this study can give some lava

Universitias B contributions, e on a keeping, a the walanguage wifrom Dextinction B by illava

Universities B documenting the differences pronunciation of two sub-dialects of jaya





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Dayak Desa and make the young generation have niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Babout their language Brawijaya Universitas Brawijaya Universitas Brawijaya

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- 2. Readers: the reader will more get knowledge about local language in Indonesia especially in West Kalimantan.
- 3. Other researchers: this study can also be used as a reference for other researchers who are interested in this topic to conduct further Iniversitas Brawijaya Universitas Brawijaya Universitas Bstudy.

### 1.6 Definition of Key Terms

DDD

Universita DDB

Universita PRAATiaya

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Universit Dialect/Sub-Dialect : a variation of language in a community which

is located in a certain place or region (Chaer, ava

2009). This study was about sub-dialect of

Dayak Desa Dawak and Dayak Desa Belungai

in Toba District.

Desa in Toba District (Tanco, 2014). Issuas Brawijava

: Dayak Desa Blungai, a sub-group of Dayak

Desa in Toba District (Tanco, 2014). Prairies Brawliava

: Dayak Desa Dawak, a sub-group of Dayak

: a free computer software to analyse, Universitas synthesize, manipulate speech Bringlaya and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias phonetics (Paul Boersma and David Weenink, Java

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Universitas 2018) aya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

UniversitaSwadesh vocabularies: Bla vlist/of/ basic vocabularies, Vintroduced by ijaya

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Universita LITERATURE REVIEW rawijaya

Universitas Brawijaya Universitas Brawijaya This chapter discusses previous research and theoretical lava

Univerframework that includes phonology, dialectology, phonological variation, layar

Univerand PRAAT.

#### Unive 2.1 **Previous Research**

There are many research about dialect differences both in overseas University and Indonesia. Nevertheless, the research about dialect still cannot be layer conducted broadly in Indonesia because many languages and their Ilaya dialects have not been studied including Dayak Desa language. This research only investigated two sub-dialects of Dayak Desa in Toba district instead of five sub-dialects of Dayak Desa. It is possible to investigate three of the sub-dialects which have different characteristics in the next jaya research. Some researches about dialect are done by Tjia (2007), Isaura (2011), Shin (2015) and Purwaningsih (2015).

A research was conducted by Tija (2007) entitled A Grammar of Mualang: An Ibanic Language of Western Kalimantan, Indonesia. He stated that based on the dialect, Mualang is divided into two, namely Mualang IIi and Mualang Ulu. Mualang IIi is identified as downstream Unive Mualang territory which has relatively flat intonation, whereas Mualang Ulu Univerhas more intonation between ups and downs. It means based on phonological aspect, there are differences of pronunciation of both lava Univerdialects. Take an example the pronunciation of "how", Mualang Ili will liava







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Univerpronounce it as [kati] however Mualang Ulu will pronounce it as [kate].

Univerpronounce it as [kati] however Mualang Ulu will pronounce it as [kate].

Univerpronounce it as [kati] however Mualang Ulu will pronounce it as [kate].

Univerpronounce it as [kati] however Mualang Ulu will pronounce it as [kate].

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Isaura (2011) in her thesis entitled *Variasi Fonologis Bahasa Jawa di Kabupaten Pemalang*, found the dialect of Java has different variations and those are [a], [a], and [O]. These differences often occur on phonological variations. Based on the results of the data analysis, the phonological variations of Javanese vowel phoneme form in Pemalang Regency are in the form of 10 variations vowel phoneme / a, a, l, ., u, U, I, i, O, o /, and variations of Javanese consonant phoneme, / p, s, n, j, m, b, g, k, c, t, th, l, h, y, r, d, dh /. There are 18 consonant clusters of Javanese language in Pemalang Regency. Distribution of vowel and consonant phonemes can occupy all positions except / a / on vowel phonemes in the final position and / n, j, c, w / at the end, while for Javanese consonant cluster distribution is not found at the end.

Shin (2015) in Fonologi Variasi Kumpang Di Sungai Ketungau:

Analisis Perbandingan describes the phonology of Kumpang, an Ibanic

variation spoken in Ketungau River, West Kalimantan. This research is

synchronic study where the vowels, diphthongs and consonants of

Kumpang are discussed and compared with other Ibanic varieties such as

Demam, Sebaru', Bugau, Banjur and Iban. This research shows that many

words in Indonesian that end in /-aŋ/ and /-an/ will be replaced by /-ai/ in

Ibanic. For example [pulan] become [pulai] in which the sound /-aŋ/,

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become /ai/. In consonants, the phoneme /y/ revealed that phoneme in correspondence with the consonants of /r/, /ʁ/ or /h/ in other Ibanic varieties, and the /-s/ in the final word position appeared as allophones [-ç] Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava Purwaningsih (2015) in her thesis entitled Geografi Dialek Bahasa Jawa di Desa Paciran Kabupaten Lamongan used quantitative research Univerwith phonology and lexicon data counted using dialectometry formula. This unive research found that the phonological of isogloss has five spreading of Univerpatterns and the lexicon isogloss has four spreading of patterns. It also lava found that the phonological variation consists of allophones variation, lava sound insertion, sound alteration, sound shifting, lowering sound on close lava syllable and sound substitution. Then, lexicon variation occurred in lava onomasiology, semasiology, and reduplication. Besides, dialectometry ijaya Univeraccounts showed the different speech and sub-dialect on phonological ijaya Universield, whereas there is no difference on lexicon field.

Universitas The similarity of the previous research and my current research is liava Univerdealing with dialect. The difference is on the focus of the research because this research emphasizes the different phonological variation on Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya sub-dialect of DDD and DDB in Toba District by using PRAAT. Based on Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya previous research, there has been no dialectology research on Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya phonological field on Dayak Desa language. (as Brawllaya Universitas Brawijaya Universitas Brawijaya



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#### Univer2.2 Theoretical Framework

The research uses two theories: phonology and dialectology. These two theories are elaborated in this section. This section also covers the Unive differences of phonology in dialectology.

#### 2.2.1 Phonology

According to Davenport et al. (2005), phonology deals with how the University sounds are organized into systems for each individual language. Similarly, Zsiga (2013) stated phonology is a study how language organizes sound jaya University into different patterns. As a brief definition, phonology is the study about lava system and pattern of speech sounds in a language. The system in a lava sound is included on how the sounds can be combined, how the relations jiava between them and how they affect each other. As for, the patterns in a liava speech sounds related with how the languages organize the sounds to lava Unive distinguish different words, the sorts of restrictions or constraint, the jaya Universequences of sounds, the sorts of alteration the sounds, and how sounds ilava Univerorganized larger constituents such as syllables, stress feet, words and lava Univerphrases. Phonology is divided into two namely phonetic and phonemic. University Phonetic is a part of phonology that study about how to produce the jaya Universounds and how the sounds can be produced by speech organs. Jaya UniverPhonemic is a part of phonology that studies about function of sounds to layer Univerdistinguish the meaning. As for, there are two classifications of sound, ijaya Univerthose are vowel and consonant.

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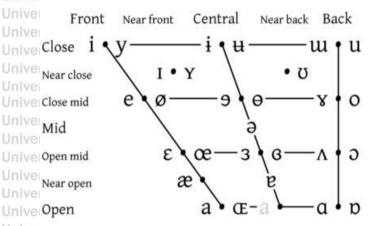
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# University 2.2.1.1 Vowel

The vowel sound is classified based on the position of tongue and Univerthe shape of mouth. When producing vowel sounds there is no constriction of air flow. According to Odden (2013), the most important properties for defining vowels are height, backness/frontness, and roundness. The height of vowel refers to how high or low the tongue in the mouth when produce the sound. The primary heights are high, mid, and low. Besides, jaya Univervowels can differ in relative backness/frontness where it refers to how far ijava Univerback or front the tongue in producing the vowels. Three phonetic degrees juya of this position are front, central and back. Finally, the vowels can be liava pronounced based on the shape of lips whether it is rounded or ijaya unrounded. Look at the picture how the position each of vowels based on lava International Phonetics Alphabet (IPA).

#### VOWELS



Unive Vowels at right & left of bullets are rounded & unrounded.

#### **Picture 2.1 IPA Vowel Chart**

Besides, the classification of vowel sound are divided into two types (Roach, 2000), those are: monophthong and diphthong. A monophthong is a

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single vowel sound where the position of tongue is not changed from the beginning until the end in pronouncing a syllable. For example in the word 'but', as we can hear, 'but' has one vowel sound. So we can say that 'but' unive contains one monophthong that is /n/: [bʌt]. The monophthong is divided into two sounds: the short sound vowel, example: /l/, /i/, /ɛ/, /e/, /ə/, and the long sound vowel, example: /a:/, /o:/, /o:/ and so on.

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In other hand, a diphthong is where there are two vowel sounds in a  $_{ijaya}$ Universilable but the pronunciation is affected by the position of the tongue. There is lava Univerthe different position of tongue in the beginning and the end. For example the lava word 'boy' where the /o/ and /l/ are stuck together and make a double vowel, so jiava the word contains a diphthong /ol/: [bol]. The diphthong is divided into two java types, those are rising diphthong, example: /el/,/al/, /ol/ and so on and falling ijava diphthong, example: /lə/, /ບə/ and so on.

### Unive 2.2.1.2 Consonant

The consonant sounds occur when the air flow through the vocal lava Univertract and get the constriction in some places of articulation. There are liava Univerthree criteria of consonant, namely voicing, place of articulation and layar University manner of articulation. Voicing is what the vocal folds doing. There two Univertypes of voicing. Those are voiced sound and voiceless sound. The voiced jaya Universound happens when air through vibrating vocal folds. The example of ijaya Univervoiced sound: [b], [z], [d], [g], and [v]. The voiceless sound happens when ijaya Univerair through open vocal folds. For example: [p], [s], [t], and [f].

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universitas Brawijaya The other criteria of consonant are place of articulation where the awijaya constriction of airflow takes place. Odden (2013) stated there are eleven Univerplaces of articulation. Those are bilabial, labiodental, dental, alveolar, alveopalatal, retroflex. palatal. velar. uvular. pharyngeal. awijaya awijaya laryngeal/glottal. awijaya awijaya Bilabial awijaya awijaya This sound happens where the place of the constriction of airflow is on awijaya Universita both lips. Example: [p] [b] [m] awiiava awijaya Universita 2. Labiodental awijaya awijaya This sound happens where the place of the constriction of airflow is on ijaya awijaya awijaya lower lip and upper front teeth. Example: [f] [v] awijaya awijaya 3. Dental This sound happens where the place of the constriction of airflow is on ijaya awijaya tongue tip and upper front teeth. Example:  $[\theta]$   $[\delta]$ awijaya awijaya 4. Alveolar awijaya awijaya Universita This sound happens where the place of the constriction of airflow is on awijaya tongue tip and the alveolar ridge. Example: [t] [d] [s] awijaya Alveopalatal awijaya awijaya This sound happens where the place of the constriction of airflow is on awijaya awijaya blade of the tongue rising towards the alveolar ridge and the front of awijaya awijaya Universite the hard palate. Example: [/] [t/] awijaya awijaya awijaya

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        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
awijaya
        Universit 6. Retroflex
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                  This sound happens where the place of the constriction of airflow is on
        Universitationgue tip curled back past the alveolar ridge. Example: [n] [t]
        Universita 7. Palatal
awijaya
awijaya
        Universita This sound happens where the place of the constriction of airflow is on illava
awijaya
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        Universitation of the tongue and hard palate. Example: [i] [3]
awijaya
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        Universita 8. Velar
awijaya
        Universita This sound happens where the place of the constriction of airflow is on
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                  back of the tongue and velum. Example: [k] [g]
awijaya
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                  9. Uvular
awijaya
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                  This sound happens where the place of the constriction of airflow is
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                  on the back of the tongue against or near the uvula, that is, further
                  back in the mouth than velar consonants. Example: [N]
awijaya
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                  10. Pharyngeal
awijaya
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                  This sound happens where the place of the constriction of airflow is on
awijaya
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        Universite primarily in the pharynx. Example: [\Gamma]
awijaya
        Universita 11. Laryngeal/Glottal
awijaya
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        Universita This sound happens where the place of the constriction of airflow is on jaya
awijaya
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        Universitavocal cords. Example: [h] [?]
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                     The last criteria of consonant is manner of articulation. It is how the layer
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        Universiflow constricted. Davenport et al. (2005) stated there are six of manner ilaya
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         University of articulation, namely stops, affricates, fricatives, nasals, liquids, and liquids
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         Unive glides.
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Universitas Brawijaya awijaya Universite 1. Stops/ Plosive awijaya awijaya This sound happens when the articulators come together and awijaya awijaya completely cut off the flow of air for a second then they separate suddenly. Example: [p] [b] [t] [d] [k] [g] awijaya awijaya 2. Affricates awijaya awijaya The sound happens when the articulators come together and awijaya awijaya Universite completely cut off the flow of air then they separate gradually. awijaya awijaya Universita Example: [t/] [d3] awijaya awijaya awijaya Universit 3. Fricatives awijaya awijaya The sound happens when the articulators are brought very close layer awijaya awijaya together leaving only a very narrow channel through which the air ijaya awijaya awijaya squeezes on its way out. Example: [v]  $[\theta]$  [z]awijaya 4. Nasals awijaya awijaya The sound produced when the air escaping through the nasal cavity. awijaya awijaya Example: [m] [n] [ŋ] awijaya awijaya 5. Liquids awijaya awijaya Universita The sound produced when the air can pass on one or both sides of the ijaya Universitationgue. Example: [I] awijaya awijaya Universita 6. Glides awijaya awijaya Universita The sound produced when the articulators are brought near each other lava awijaya awijaya Universitabut a large enough gap is left between them for air escape. Example: ijaya awijaya awijaya Universita [w] [i]. awijaya awijaya awijaya

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#### Look at Picture 2.2 to know the position of consonant on IPA.

#### CONSONANTS (PULMONIC)

	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retro	flex	Palatal	Vel	ar	Uy	ular.	Phary	ngeal	Glot	ttal
Plosive	p b			t d		t	d	c j	k	g	q	G			?	
Nasal	m	m		n			η	n	1	ŋ		N				
Trill	В			r		1						R				
Tap or Flap	20			r			r									
Fricative	φβ	f v	θð	s z	∫ 3	ş	z,	çj	Х	γ	χ	R	ħ	?	h	ĥ
Lateral fricative				ŧВ												
Approximant		υ		ı			ન	j		щ						
Lateral approximant				1			l	λ		L						

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

Dialect comes from Greek "dialektos" that means a variation of a

#### **Picture 2.2 IPA Consonant Chart**

#### 2.2.2 Dialectology

language according to the user. Dialect/sub-dialect is a language variation liaval university in a community which is located in a certain place or area (Chaer, 2009). Investigate university in a community which is located in a certain place or area (Chaer, 2009). Investigate university in a community which is located in a certain place or area (Chaer, 2009). Investigate university in a community which is located in a certain place or area (Chaer, 2009). Investigate university in a community which is located in a certain place or area (Chaer, 2009). Investigate university in a community which is located in a certain place or area (Chaer, 2009). Investigate university in a community which is located in a certain place or area (Chaer, 2009). Investigate university in a community which is located in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a certain place or area (Chaer, 2009). Investigate university in a c

Univermorphology, syntax, lexical, and semantics.

University of the phonological differences can occur in vowel or consonant jaya University of the speaker does not realize if there are any differences. The jaya University of the phonological differences concern to affixation, reduplication, jaya University of the phonological differences concern to affixation, reduplication, jaya University of the phonological differences concern to affixation, reduplication, jaya University of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences concern to affixation, reduplication, jaya university of the phonological differences concern to affixation, reduplication, jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences can occur in vowel or consonant jaya university of the phonological differences are concern jaya university of the phonological differences are concern jaya university of the phonological differences are concern

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about the differences of clause structures or the differences of phrases that are used to state the same meaning. The lexical differences happen University because of the different perspective from one speaker to others. This Univerperspective is the different of vocabularies usage in a language. The semantic differences are creating the new words based on the phonological change and there is shifting of meaning. In semantic differences, there are two shifting. They are called synonym and Univerhomonymy. Synonym is where in one word has same meaning but liava Unive different sign or symbol in several places. Meanwhile, homonymy is giving lava the same name or sign or symbol to one thing in different places. But this java research only takes one aspect that is phonology aspect.

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Similarly, Ayatrohaedi (1983) stated dialect or sub-dialect is a jaya linguistic system used by a society to distinguish it from other societies lava Univerthat use different systems although closely related. There are several ijaya Universections that can be used to identify the differences of the dialects. It can ilaya Unive be seen from several factors as follows (Ayatrohaedi, 1983).

- 1. The phonetic difference, that this difference is in the field layar of phonology, and usually the dialect or the language jaya user is unconscious of the difference
- Universitas Brawijaya 2. Semantic difference is the creation of new words, based ijaya on phonological changes and shifts.
  - 3. Onomasiology difference is the difference that shows jaya different names based on one concept given in some layer

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different places. Like attending a married party, (especially Sundanese) example, in certain areas usually called ondangan, kondangan, or kaondangan.

- 4. The semasiology difference is giving the same name to some different concepts. In other words the difference semasiology opposite of the onomasiology difference. Like phrases Aceh is "name of nation"," name of region"," or "name of such a fruit".
- 5. Morphological difference is difference that is limited by lava presence the corresponding grammatical system, by the Hava frequency of morphemes different, by its related jaya usefulness, by its phonetic form, and by others factors

#### 2.1.1 Phonological Variations

The phonological variation is the difference between phonemes jaya Univerwhich states the same meaning and that difference only occurs in one or ilaya Univertwo sounds that are in the same sequence however the speakers of liava Univerdialect or sub-dialect are not realize of the difference (Zulaeha, 2010). ijaya UniverZulaeha (2010) classified the phonological variation into two groups, ijaya Univernamely vowel variation and consonant variation.

### Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias BThe vowel variation happens on the vowel sound in the same layer Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universequence in a word. Taking the example in Bahasa Jawa Standar (BJS) or ijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Standard of Javanese language compares with Bahasa Jawa Kabupaten lava

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Semarang (BJKS) or Javanese language in Semarang stated in Table 2.1, and Table 2.2 (Zulaeha, 2010). There is a lowering of vowel sound on closed syllables.

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Table 2.1 Lowering vowel sound /I/ become vowel sound /E/

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BJS	BJKS	Indonesian	English
/gətlh/	/gət£h/	Darah	Blood
/winlh/	/win8h/	Biji	Seed

lowering sound happens when high vowels

tendency to become lowered in final closed syllables. In this case, the lowering occurs before meet the rearward consonants /h/ where the sound /l/ becomes sound /E/. From the examples above, there are different between BJS and BJKS in one sound in vowel such as for the word "blood", in BJS is [gətEh] and BJB is [winEh]. Each of them consists of five sounds. The word "getih" consists of sound [g], [ə], [t], [l], [h] and the word "geteh" consists of sound [g], [ə], [t], [ɛ], [h]. Thus, this words has the unive same sequences and has three same sounds, these are first, second and

UniverTable 2.2 Lowering vowel sound /i/ become vowel sound /E/rsitas Brawijava

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BJS	BJKS	Indonesian aw	wijay Englishsitas	
/pərih/	/pər&h/	Pedih Braw	Jay Poignant las	

univerthird sounds. In other hand, the different sound is in fourth sound.

Universities Bra The lowering sound in this case happens on vowel sound /i/ layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya become sound /E/ when meet consonant /h/ at the last syllable. There is Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya different sound on the fourth sequence of sound. It can be concluded the phonetic alternation of high vowels from BJS and BJKS happens within Universitas Brawijaya Universitas Brawijaya the range of high to middle sounds. Phoneme /i/ is apprehended as [i], [I],



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#### University 2.1.1.2 Brawijaya Universitas Brawijaya Consonant Variation Universitas Brawijaya

The consonant variation happens on the consonant sound in the happens when same sequence in a word. The consonant variation consonant alteration on the last syllable, consonant deletion on the first syllable, low-pressure deletion of syllable and consonant insertion on the first or middle syllable. The examples are in table 2.3, table 2.4, table 2.5, and table 2.6 (Zulaeha, 2010).

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Table 2.3 Consonant alteration on the last syllable

Table 213 Consonant alteration on the last synable					
BJS	BJKS	Indonesian	English Rrawijaya		
Telo	/kləman/ /kləmaŋ/	Ubi jalar	Sweet potato		
In this case	e, the phoneme /n/ on BJI	B has correlation	with /ŋ/ on the last		
svllable of	BJKS. Thus, there is alte	ration of consona	nt from /n/ into /n/ava		
			niversitas Brawijaya		
The differen	nce sound is happened on	the fifth sound.	Iniversitas Brawijaya		

Table 2.4 Consonant deletion on the first syllable

BJS	BJKS	Indonesian	English Brawijaya
/wudəl/	/udəl/	Pusar	Navel
/wetan/	/etan/	Timur	East Provided Brownian

The sound deletion happens when phoneme / w / at the beginning of the awijaya Universitas Brawijaya

universword is one form of consonant reduction. The sounds at the beginning lava Universitas Brawijaya Universitus Dienim

being absorbed because of consonant are classified as weak sounds.

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Table 2.5 Low-	pressure de	eletion of s	yllable	Provijava

Table 2.5 Low-	-pressure deletion o	f syllable	Universitas Brawijay
IniverBJS Brawijaya	BJKS Brawijava	Indonesian	English as Brawliay
/mburitan/ijava	Un/mbitan/ Brawijaya	Uni Halaman awii aya	Back yard Brawiiav
Iniversitas Brawijaya	Universitas Brawijaya	belakang	Universitas Brawijay

The deletion syllable /ur/ at the middle of word is done to omit the syllable

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that classified as weak sound from BJS to BJKS.

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Table 2.6 Consonant insertion on the first or middle syllable sitas Brawijaya					
BJS	BJKS	Indonesian	English Brawijaya		
/dalu/	/ndalu/	Malam Malam	Night Brawijaya		

/gunrUn/

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This insertion happens based on the position of the phoneme. It can be in

Kerongkongan

the beginning, the middle and the last of syllable. In BJS and BJKS the changing is in the beginning and the last syllable.

#### University PRAAT

/gurUn/

PRAAT is a phonetic program that is used to analyze the speech sound. It was developed by Paul Boersma and David Weenink in 1995.

Through this program, can be conducted the analysis, articulatory synthesis and manipulation of speech sound. This research uses the version 6.0.39 which was downloaded in April, 2018 from the following website: <a href="http://www.praat.org">http://www.praat.org</a>. This program can visualize the speech sound into frequency form that called as spectrogram.

The spectrogram is a visual representation of dimensions of sounds. The result can be displayed with degrees of amplitude from light to dark. If the degree is white which means no energy and the black one is lots of energy of sound. Besides, the result is also displayed the various frequencies that shown on vertical axis and the time by horizontal axis.

Then in analyzing the spectrogram, the position of formant can be seen the lower formant is formant 1 (F1) and at top of it called formant 2 (F2).

The formant is a dark band on a wide band spectrogram which

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correspondence to a vocal tract. The formants are shown in red dotted lines and the frequency each of them taken at the midpoint of the frequency of the formant. The frequency of F1 and F2 is to figure out the differences articulation of speech sounds. According to Zsiga (2013) F1 is inversely proportional to vowel height. If the frequency of F1 is lower which means the vowel is higher and if it is the frequency of F1 is higher that means the vowel is lower. While, F2 indicates the frontness or backness of the vowel. If the frequency of F2 is higher which means the position the Univervowel is on front.

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Besides to look for the formant, spectrogram can also show the consonant features. In this spectrogram described the articulatory of manner of articulation and place of consonant those are voicing, articulation. Therefore, the use of PRAAT in this research is to compare the difference of speech sounds of the sub-dialects between DDD and DDB when they pronounce the words. Moreover, the difference happens on vowel variation and consonant variation of the words that can awijaya University distinguish the sub-dialects.



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## Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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# Universitas Brawijaya Universitas Brawijaya UniverTHE RESEARCH METHODS VIJAYA

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As elaborated in the previous chapters, this research investigates universities Brawijaya U

### Univer3.1 Research Design

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This research uses qualitative descriptive research. It involves data collection procedures that result in non-numerical data, which involves recorded spoken data, for example: interview data that is transcribed to textual form as well as written notes and documents of various sorts (Dörnyei, 2011). This method is also flexible, because of the researcher can agree with the research based on the real condition in the field.

the form of numbers. The researcher immediately performs data analysis by transcribing the interview and comparing the data among participants.

In this research, the researcher compares the phonological differences between sub-dialect of DDD and DDB. The data in this research are the sub-dialects of DDD and DDB, which are analyzed for the differences by using the theories of dialectology, phonology and assisted by PRAAT.

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### University Data and Data Source Brawijaya University Brawijaya

Universities The data of this research are the sub-dialects from DDD and DDB. Jaya

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The data sources are the people who give information about sub-dialect investigated. Those are four participants from DDD and four participants Universitas Brawijaya Universitas Brawijaya

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Universities DDD and DDB are both used in main areas and spreading layer University areas. The main area is meant a place where the first Dayak people lived in the area or the place where a culture developed. Over time, the Dayak people began to expand the agricultural area and then began searching for new areas. Then, they made the new settlement called the spreading area.

DDD is mainly used in Bungkang village. DDD is also used at Teraju University village as spreading area. In this research, the researcher took two Univerparticipants from Bungkang village and one participant from Teraju village. Universitas Brawijava Unive Meanwhile, DDB is mainly used in Nek Bindang village. The spreading lava area of DDB is Natai, Belungai, Mandai, Sebandang, and Lombak baru village. However, in this research, the researcher just took Natai village as the sample of the spreading area of DDB. That is because Natai village is located close with Nek Bindang village as the main area. The researcher took two participants from Nek Bindang village and one participant from Natai village.

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The participants were asked to translate the list of Swadesh vocabularies into Dayak Desa language based on each sub-dialect. Then, the participants pronounced the words and they were recorded by PRAAT. However, in fact when the researcher selected the recording, none of the recordings were recorded clearly in PRAAT. However, they have contribution in this research, especially in telling the history of Dayak Desa and translating the words from Indonesian to Dayak Desa language where many young generations of sub-tribe of Dayak Desa did not know about it because they was affected by Indonesian and Malay language.

Then, to verify and renew the data in recording of PRAAT, the researcher

look for other participants, those are two students in Malang who come

from Dayak Desa. One of them is from DDD and the other is from DDB.

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### 3.2.1 Participants Selection

In terms of selecting participants of a research, Creswell (2015)
asserts that the participants are chosen by intentional whom they can help
the researcher to figure out the problem of the research. In other words,
the selection of participants is based on the understanding of participants
about the problem, the participants have the data, and they able to provide
the time and want to give the information that the researcher need. Thus,
for this research the participants were selected by using purposive
sampling technique in which the selection is deliberately based on the
criteria which has been determined and based on the research objectives.

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	awijaya 	Universities B 4. Native speaker of sub-dialect of DDB for the p	participants from
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	awijaya	Universitas Bra DDB AND A S B awijaya	Universitas Brawijaya
	awijaya	Universitas Universit	Universitas Brawijaya Universitas Brawijaya
	awijaya	5. The education is at least elementary school	Universitas Brawijaya
	awijaya	Univ	Universitas Brawijaya
	awijaya awijaya	6. Can speak Indonesian	niversitas Brawijaya
	awijaya	Uni S S S S	niversitas Brawijaya
	awijaya	7. He or she has a good speech organ	niversitas Brawijaya
	awijaya	Uni	niversitas Brawijaya
	awijaya awijaya	8 Want to be the participant and have many times	s in participating
			mirotorialo arettijaja
	awijaya	Unive of the research	Universitas Brawijaya Universitas Brawijaya
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	awijaya	9. Open minded and not an umbrageous person	Universitas Brawijaya
	awijaya	Universit	Universitas Brawijava
	awijaya	The age of participant is important which is up 1	6 years old was
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	awijaya	considered to be mature enough in the language. Th	e native of the
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	awijaya	Unive participants must also be attempted from the place studied	
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participants should also master the Indonesian language. Because when the participants translate the words into sub-dialect there is no misunderstanding of the meaning in Indonesian and the sub-dialects. The participants should have the good speech organs. Therefore, when they pronounce the list of words, the articulations are clear. It will be easier if the participants were not forced to become the participants, so the results obtained are in accordance with what the researcher wants. And they were willing to spend the time during this research. Being open minded and not the umbrageous person is also the important criteria. Because in a research, the openness in receiving new information and not be offended if the researcher corrects the participants or direct them in interviews is an interview is a research.

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### 3.3 Data Instrument

The instrument of this research is the list of words based on 200
Swadesh vocabularies. The use of this Swadesh vocabularies are due to
the fact that the basic vocabularies in Swadesh list that can be found in
any languages and to avoid the borrowing vocabularies (Mahsun, 2000).
This list is used as guideline of collecting on the vocabularies.

# 3.4 Data Collection State Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universities B The data collection is organized in the following steps. First, Universities Brawijaya Universities

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awijaya awijaya consists of two hundreds of basic vocabularies which are used as the guideline. Then, asking the participants to translate the words into Dayak Desa language based on the list. After that, asking them to pronounce the vocabularies based on the list and record the pronunciation use PRAAT.

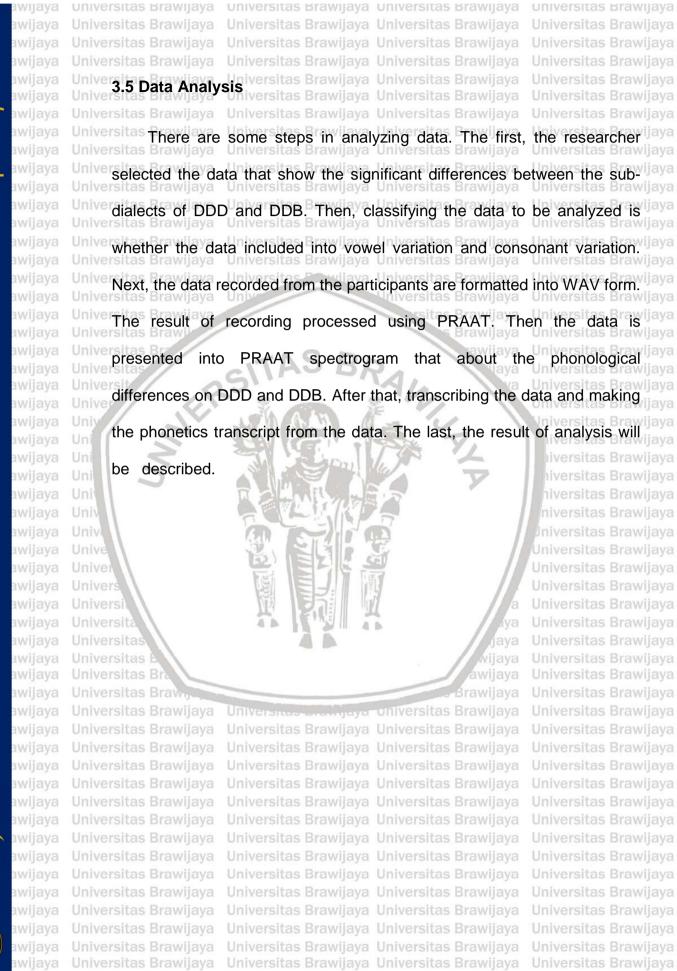
The recording uses software PRAAT version 6.0.39 with laptop Asus and microphone of Logitech h110. The first recording was done on May 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> and July 12<sup>th</sup> and 13<sup>rd</sup>, 2018 for the participants from DDD. Then, it was done on May 11<sup>th</sup>, 12<sup>th</sup> and 21<sup>st</sup>, 2018 for the participants from DDB.

However, when the researcher digitized the data that were recorded, the researcher found out the recording was not clear. Therefore, then researcher is only recruited two participants who speak the language and lives in Malang.

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The second recording was done on October 5<sup>th</sup>, 2018 at 07.00 PM and until 09.30 PM. It was done in a music studio in Malang. The participants were asked to pronounce one by one the words that indicated there are universities and universities are universities. The significant differences between the sub-dialects of DDD and DDB and DDB phonologically. Nonetheless, some of data was not clear in spectrograms. Thus, the recording was repeated on next day. The next recording was on the proper recording was on 18<sup>th</sup>, 2018 at 07.30 PM until 09.30 PM. The participant at that time was from DDB. Then, the last recording was on 18<sup>th</sup>, 2018 at 07.00 PM universities Brawliaya Universities Br

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universitas Brawijaya universitas Brawijaya awijaya awijava awiiava Universitas Brawijaya awijaya Universitas Bray Universitas Brawijaya Universitas Brawijaya FINDINGS AND DISCUSSIONS Universitas Brawijaya Universitas Brawijaya Universitias B This chapter presents findings and discussions. In this chapter, the lava Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universearcher found some data containing vowel variation and consonant lava awijaya awijaya univervariation. In this chapter also the researcher answered, discussed and level awijaya Universitas Brawijaya Universitas awijaya University analyzed the problem of the study. University Brawijaya awijaya awijaya Univer4.1 FINDINGS AND ANALYSIS awijaya awijaya awijaya In this part, the findings are presented based on the problem of the awijaya awijaya study. The research found the differences between sub-dialect DDD and awijaya awijaya DDB containing vowel variation and consonant variation. And those are awijaya awijaya displayed into PRAAT spectrograms. awijaya awijaya awijaya **Vowel Variation** 4.1.1 awijaya awijaya There are two vowel variations that are found in the data in the form awijaya awiiava of raising the vowel sound on closed syllable as presented in the table 4.1 awijaya and raising the vowel sound on open syllable is in the table4.2. awijaya awijaya Table 4.1 Raising the vowel sound on closed syllable awijaya <del>Un</del>iversitas Brawijaya WORD DDD DDB awijaya awijaya Universitas Brawijaya We [kame?] [kami?] awijaya Universitas Brawijaya awijaya

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universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya In the first data, the low vowel becomes high in the final closed

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syllable. The raising occurs before the vowel encounters the final

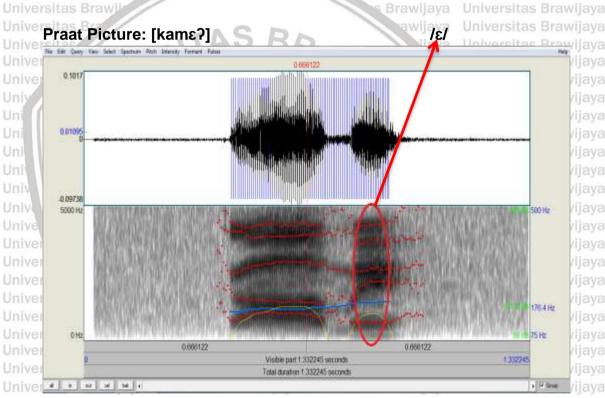
consonant /?/. The phoneme alteration of the vowel from DDD and DDB

happens within the range of the middle to high sound that is the sound /ε/

raises to sound /i/. It can be observed that there is a vowel raising  $\epsilon$ 

whose F1 is 958 Hz and it is raised into /i/ whose F1 is 1013 Hz. This can

be viewed at the PRAAT spectrograms of [kamε?] and [kami?].



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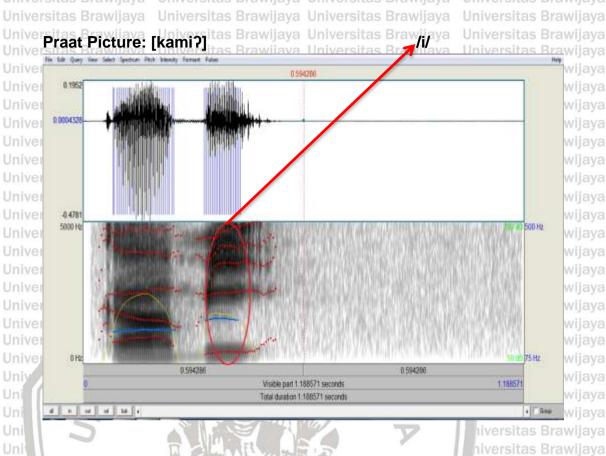
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Table 4.2 Raising the vowel sound on open syllable WORD DDD DDB

**Because** [karəna] [karena]

On the data, the raising occurs before the vowel encounters the consonant /n/. From the table, it can be seen that there is a change from phoneme /ε/ to /ə/. The word has the same sequence such as the word "because", in DDD is [karɛna] and DDB is [karəna]. This word consist of six sounds. The change is on the fourth sequence that is phoneme  $\epsilon$  to /ə/. The position of both of the phonemes is the phoneme /ɛ/ as open middle and /ə/ is close middle. It means the position of tongue when pronouncing /ε/ is low in the mouth. When pronouncing /ə/, because of it

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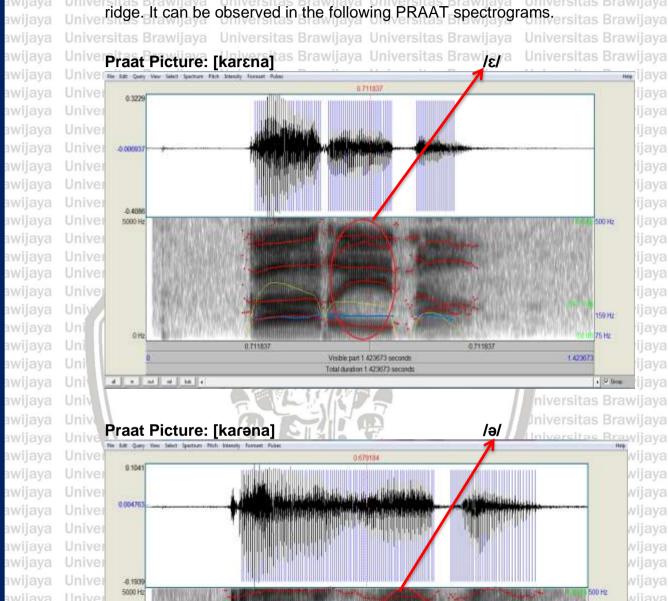
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was affected by the sound /r/, therefore the position of tongue touches the

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## 4.1.2 Consonant Variation Universitas Brawijaya

There are thirty seven words desribed as consonant variation. They can be divided into three types. Those are the consonant alteration on first syllable consists of eleven words, the consonant alteration on second syllable consists of twenty five words, and the consonant insertion on the second syllable consists of one word. Each of these three types of consonant variation will be elaborated further in this section. Table 4.2 shows the first type namely the consonant alteration on the first syllable.

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UniversTable 4.2 The consonant alteration on first syllable a Universitas Brawijaya

WORD	DDD	DDB	Universitas
		* C	Universitas
Close	[sema?]/[soma?]	[hema?]	niversitas
Who	[sɔpaj]	[hɔpaj]	niversitas

The first type happens on the consonant alteration on first syllable happens from phoneme /s/ into /h/. Almost all the words that use consonant /s/ in the first syllable of DDD will be changed into consonant /h/ in DDB. Phoneme /s/ is voiceless alveolar fricative consonant and happens when there is constriction between the blade of tongue and the alveolar ridge. In other hand, phoneme /h/ is voiceless glottal fricative consonant and it happens if there is the constriction on vocal cords. In the spectrogram the phoneme /s/ shows the strong turbulence than phoneme /h/. The turbulence noise is stronger in sibilants /s, z, ʃ, Z/ than non —sibilants /f, v, T, D, h/. Therefore, the sound wave of /s/ is darker than /h/. This can be observed in the following at the PRAAT spectrograms of some examples that the researcher took from the data

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# above DDD [sema?] and in DDB [hema?] which mean 'close' and DDD

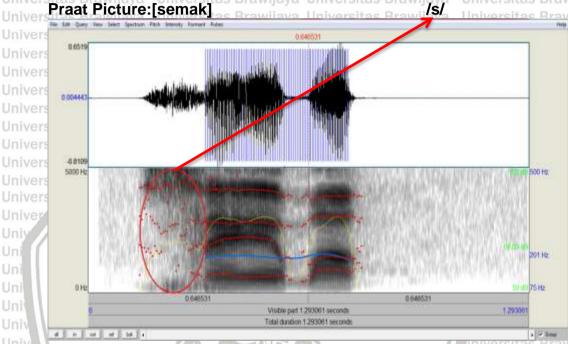
[sɔpaj] and in DDB [hɔpaj] which mean 'who'. The other data were

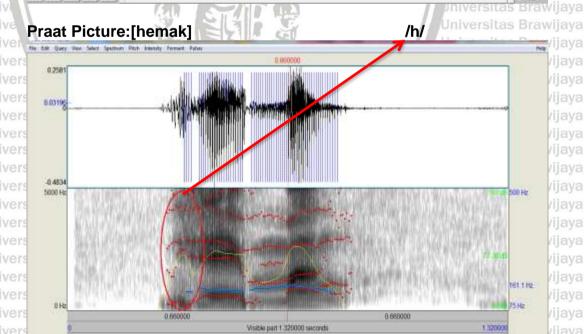
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Brawijaya Universitas Brawijaya displayed in the Appendix 3. Universitas Brawijaya

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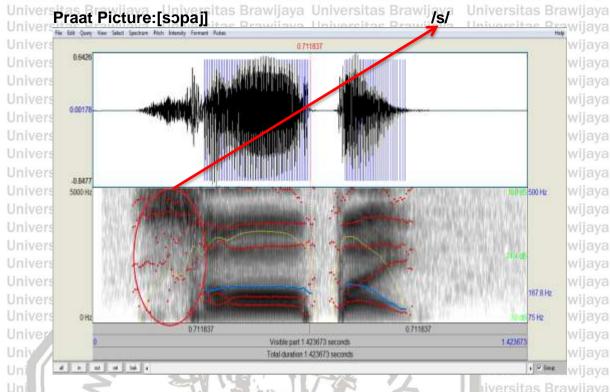
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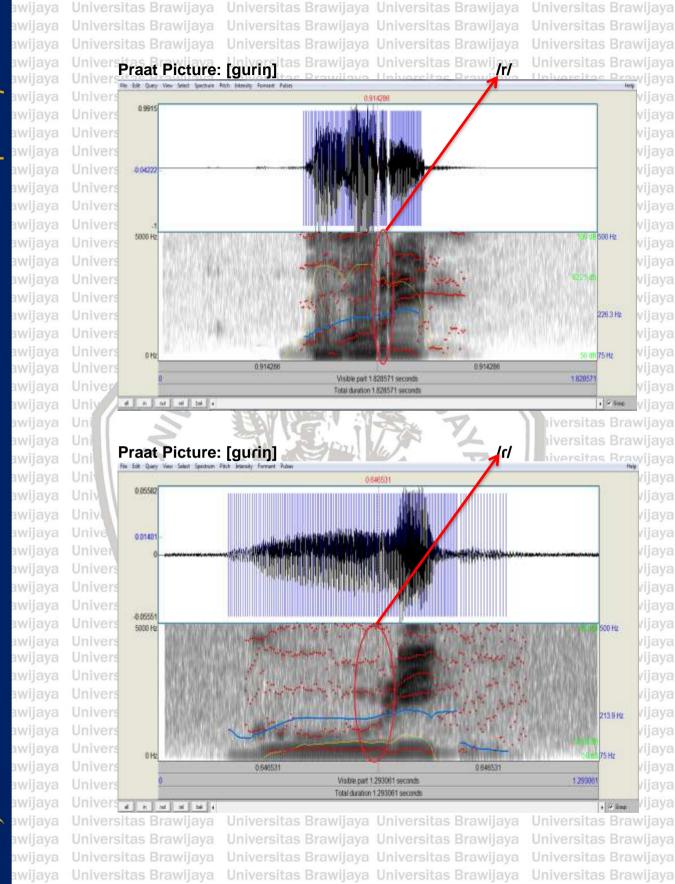
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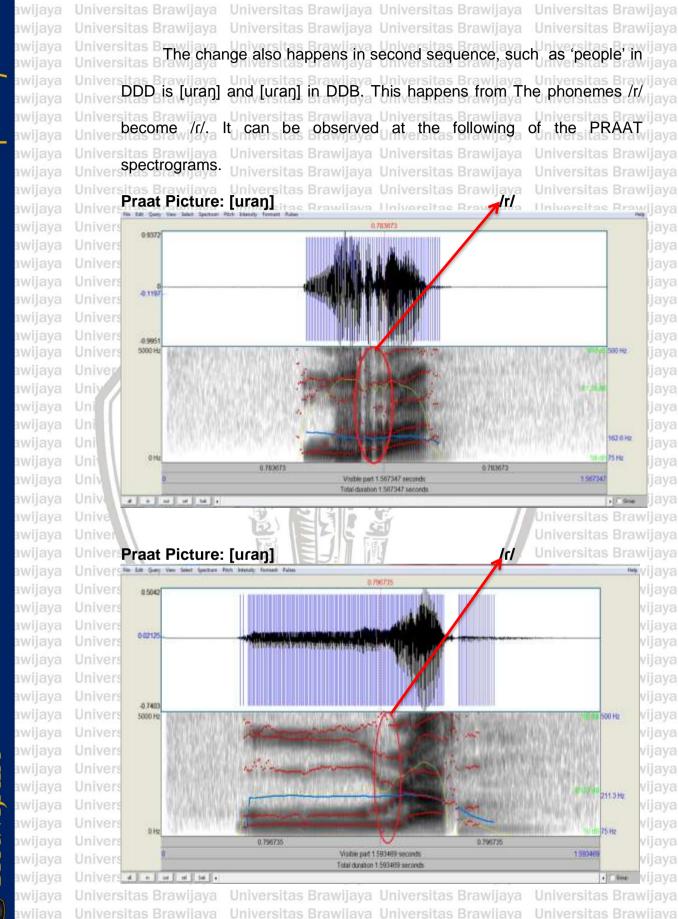
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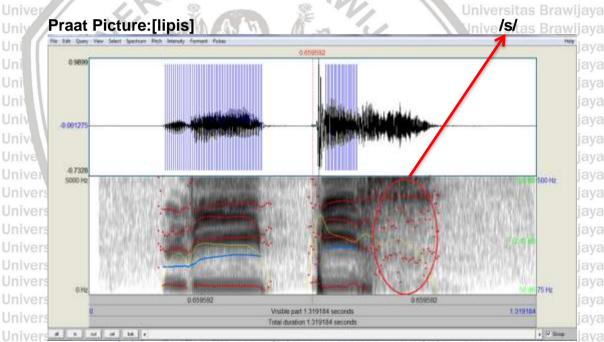
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It can be observed in the following PRAAT spectrogram between [lipis] and available of the control of the contr

Univer [lipih]



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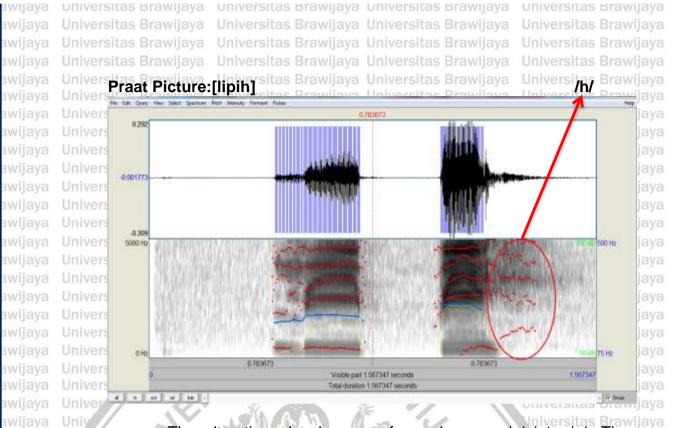
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The alteration also happens from phoneme /n/ into /n/. The phoneme /n/ is a voiced velar nasal consonant and /n/ is a voiced alveolar nasal consonant. The nasal sounds are affected by the vowel sound where the vowel sound is raised when it meets the consonant /ŋ/

in the last s. The sound wave showed an upward direction whose F1 is

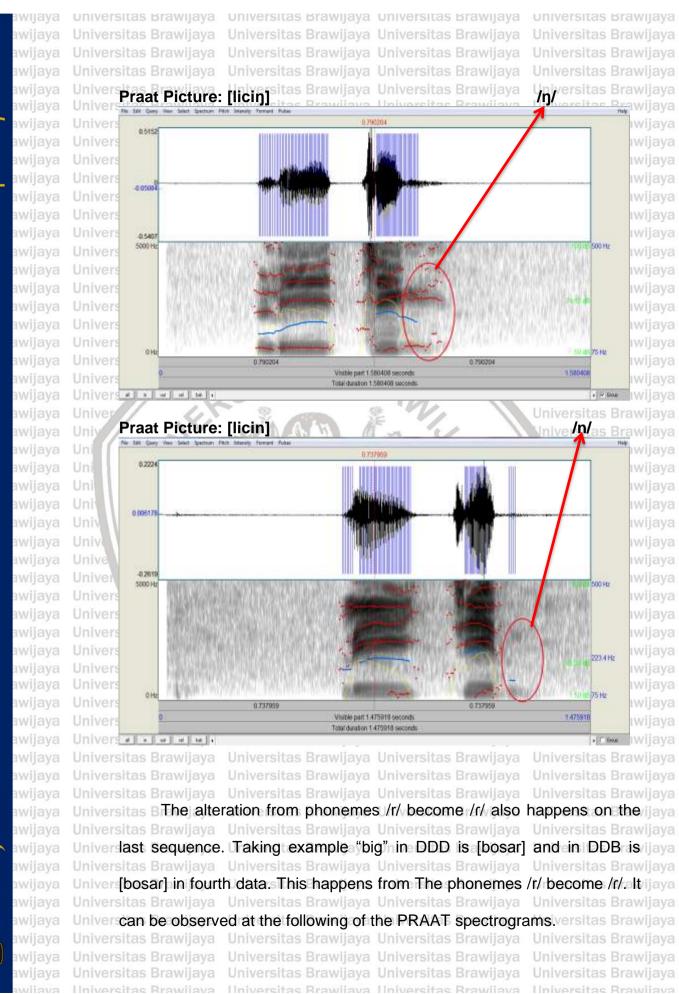
491 Hz and F2 is 2373 Hz. On other hand, the vowel sound are leveled if

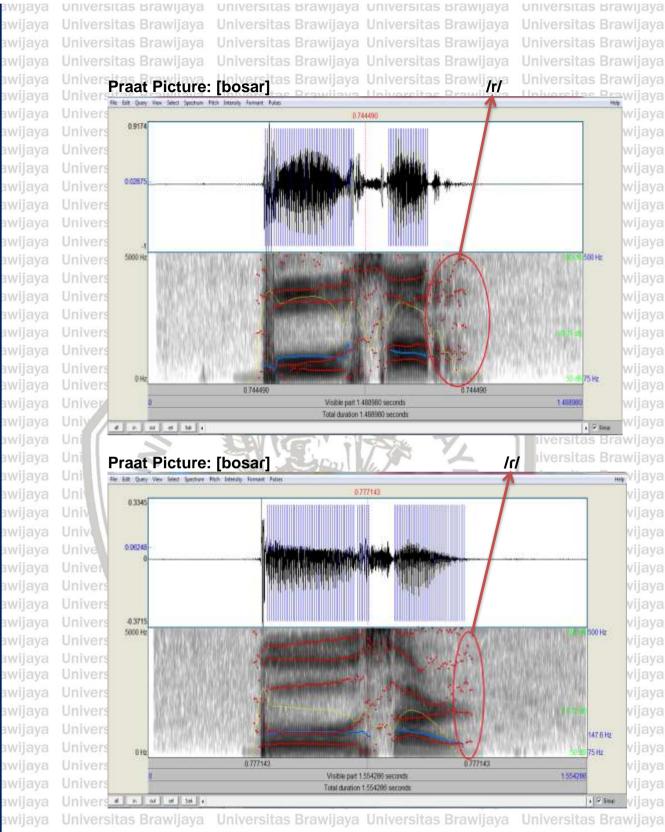
it meets the consonant /n/ in the last syllable and sound wave showed a

Univer downward slope whose F1 2324 Hz is and F2 is 2381 Hz. Universitas Brawijava

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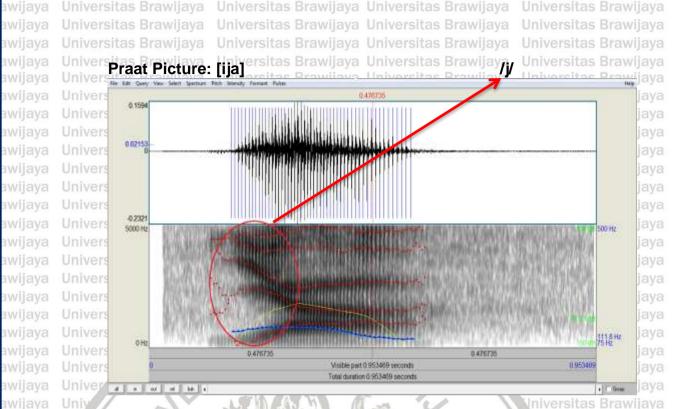
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The third type of consonant variation is the consonant insertion on

the first syllable. The datum is displayed on table 4.4.

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Table 4.4 The consonant insertion on the first syllable WORD DDD DDB Universi Suck [isap] [insap]

The insertion of consonant happens on the first syllable where there was

University is insertion of phoneme /n/ in. The phoneme /n/ is voiced alveolar nasal

#### consonant. It can be observed at the PRAAT spectrograms between [isap]

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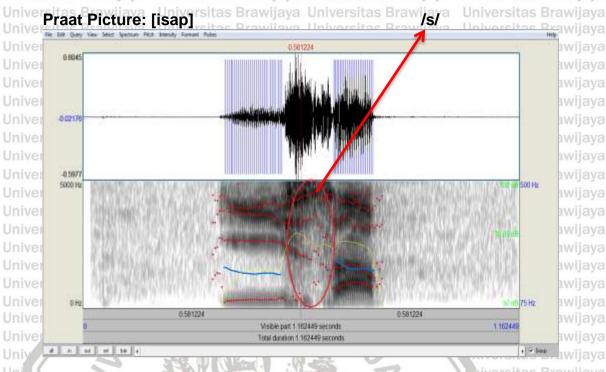
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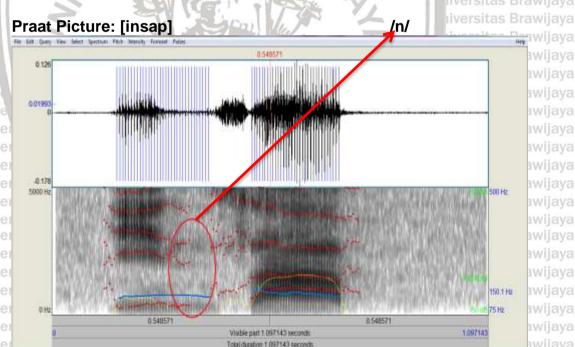
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## 4.2 DISCUSSIONS Prairies Brawijaya Universitas Brawijaya

In the words of Dayak Desa language that are spoken by the speaker of DDD and DDB, there are variations of phonological in usage.

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This confirms the finding of previous research that phonological variation happens on vowel variation and consonant variation (Zulaeha, 2010). This research found the variation happens on vowel variation consists of raising the vowel sound on the closed syllable:  $/\epsilon \sim i/$ , and raising the vowel sound on the open syllable:  $/\epsilon \sim e/$ , and happens on consonant variation that consist on the consonant alteration on the first syllable:  $/s/\sim h/$ , the consonant alteration in the last syllable:  $/s/\sim h/$ ,  $/\eta \sim n/$ ,  $/r \sim r/$  and sound: $/\eta \sim j/$ , and the consonant insertion in the first syllable:  $/\varnothing \sim n/$ .

Mualang language (Tjia, 2007) where there is the vowel lowering from dialect of Mualang III to dialect of Mualang Ulu. While in Ibanic variation is many words are found in Indonesian that end in /-aŋ/ and /-an/ replaced by /-ai/ (Shin, 2015). On dialect of Javanese in Pemalang Regency (Isaura, 2011), the phonological variations of Javanese vowel phoneme form in are in the form of 10 variations vowel phoneme / a, ∂, |, ,, u, U, I, i, O, o /, and variations of Javanese consonant phoneme, / p, s, n, j, m, b, g, k, c, t, th, I, Indonesias Brawlaya Universitas Brawlaya Unive

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awijaya awijaya awijaya awijaya almost all dialect or sub-dialect in a language have the form of variations such as vowel variation and consonant variation.

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Besides, while conducting the research, the researcher found that there are difference pronunciation of the suffix and the preposition between the participants within the range up to 50 years old and the participants within the range under 50 years old. It happened both in DDD and DDB. For example: "to walk", the old one pronounces [bajalan] and the young one pronounce [bəjalan]. The difference happens on suffix /ba-/ and /bə-/. It also happens on a preposition. For example: "to the market".

The old one pronounces [ka pasar] and the young one pronounces [ka available] pasar]. It shows there is language shifting happens in this language. Not only the pronunciation but also many words of Dayak Desa language are not used anymore. They tend to use Indonesian or Malay language.

However, this research only used two hundreds of Swadesh Univervocabularies to find out the phonological differences between two sub-Univerdialects. Many terms of Dayak Desa language that can not be covered by lava these vocabularies.

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### Uni CONCLUSIONS AND SUGGESTIONS Universitas Brawijaya

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### Unive 5.1 CONCLUSIONS

Based on the findings and discussions in chapter IV, this study and the study and the concludes there are thirty-nine words from 200 Swadesh vocabularies that showed the phonological differences between sub-dialects of DDD and DDB. They contained vowel variation and consonant variation. The differences in some phonemes become a special characteristic for DDB.

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Then, the phoneme /s/ in the first syllable or in the second syllable of University Univ

There are eleven data showed the alteration of the phoneme /s/ of DDD into the phoneme /h/ of DDB in the first syllable. There is one datum showing the alteration of the phoneme /s/ of DDD into the phoneme /h/ of DDB in the second syllable. For DDB, the phoneme /h/ is not only spoken

For example: [səkolah] (school) ~ [həkolah]. Whereas, the other data showed is not many changes. Each of them only showed one datum.

when using their local language but when they borrow the other language.

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The result of the study showed the phonological differences of sub-dialect of DDD and DDB tend to happen more on the consonant than the vowel. Those differences can be proved on the sound /r~r/, /s~h/,/ŋ~n/,

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As explained in chapter I, the research about Dayak Desa jaya Univerlanguage is only the division of the language. This research can provide layar Universitial information about Dayak Desa language for the next research of this layar topic. This research also serves as initial data on the effort in documenting layer Dayak Desa language. However, this research only used two hundreds of Swadesh vocabularies to find out the phonological differences between two sub-dialects. It is suggested that the next researchers use wider range of vocabularies of both sub-dialects.

On the other hand, many aspects of Dayak Desa language can be discovered. This study only focuses on the phonological differences between DDD and DDB, the next researchers can conduct research in the different fields, such as; the lexical differences, semantic difference, University onomasiology difference, the semasiology difference or morphological Univerdifference. Further research on Dayak Desa language can also be done Unive in order to find out the differences among sub-dialects of Dayak Desa Unive Meranggau, Dayak Desa Ulu and Dayak Desa Semalak. The researcher Universal assumes that with enriching the multidisciplinary another findings and liava

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya discussion about Dayak Desa language can be added the references awijaya University about Dayak Desa language. awijaya awijaya Besides, It is also expected the role of the government, especially the regional government of Sanggau Regency in maintaining and awijaya awijaya Univerpreserving the Dayak language. The way is by making regional regulations awijaya awijaya regarding the maintenance of languages, literature and regional scripts. It awijaya awijaya University also suggested that the local government maximizes the role of awijaya awijaya Univerlanguage centers in mapping, conservation and revitalization for local awijaya awijaya Univerlanguages and literature. The role of each Dayak customary institution is lava awijaya awijaya also expected to document their own languages by creating a special liava Univ awijaya awijaya division for documenting the language. Then the role of the community of java awijaya awijaya user of Dayak Desa language itself is also very much needed in laya awijaya awijaya maintaining local languages. The very simple thing to do is to be proud of lava awijaya awijaya Unive using your own local language. awijaya awijaya awijaya awiiava awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya

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ijaya	Unive	rsita <b>127</b> .		itaTikam daya Unive	rsTikamawijaya	Uni <b>Tikam</b> s Brawijaya
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ijaya	Unive	rsita130.		Mintai/ madik	Mintai/ madik	Mintai/ meliat
ijaya	Unive	rsita131.	Lima	Limak	Limak	Un Limakas Brawijaya
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ì	Jnive	184.	Telinga	Telinga	Talinga / Jya	UniTalinga Brawijaya
i	Jnive	rsita185.		Tolok	Tolok	Un Tolokas Brawijava
Į	Jnive		Terbang	Terobang	Tarobangaya	Un Tarobang awijaya
Į	Jnive	rsita <sub>187</sub> .	Tertawa	Ketawak	Katawak	Katawak awijaya
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	Jnive	191.	Tiga Univers	Tiga Unive	TigaBrawijaya	UniTiga Brawijaya
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	Jnive	104	Tiup	Ciup	Ciup	Ciup.
	Jnive	105	Tongkat	Tungkat	Tungkat	Tungkat
	Jnive	106	Tua	Tuak	Tuak	Tuak
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awijaya	Uni	52.	Darah	Darah	Darah	Darah
awijaya	Univ	53.	Datang	Datang	Datang	Datang
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awijaya awijaya	Unive	57.	Dengan	Ngan	Ngan / Univer	Ngan
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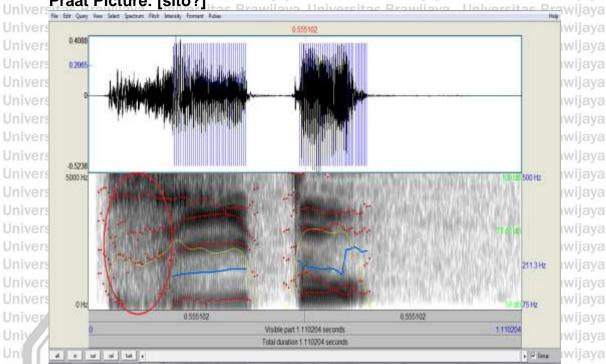
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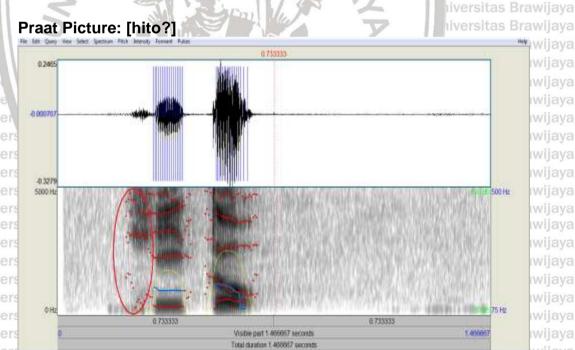
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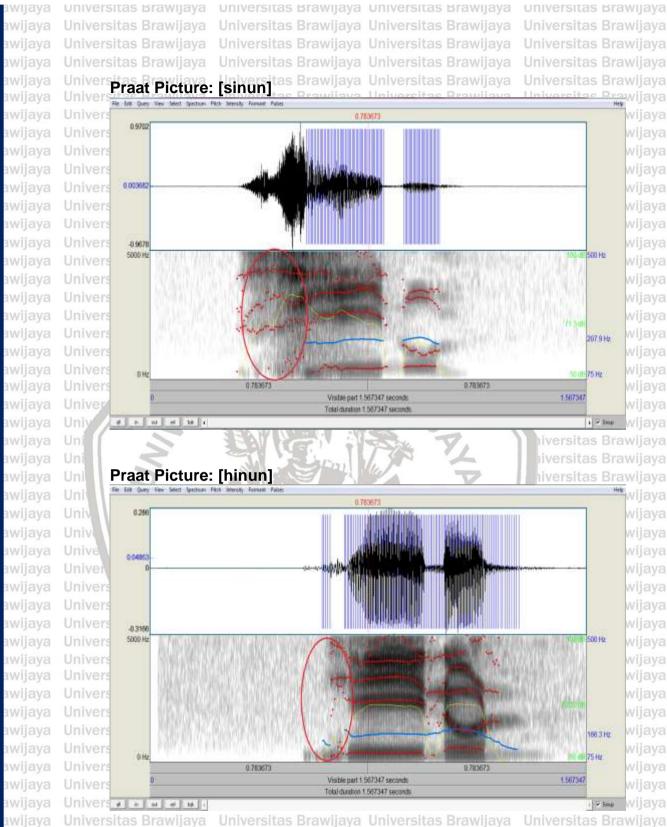


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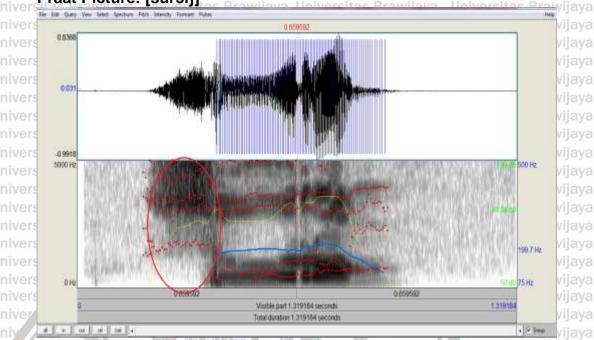
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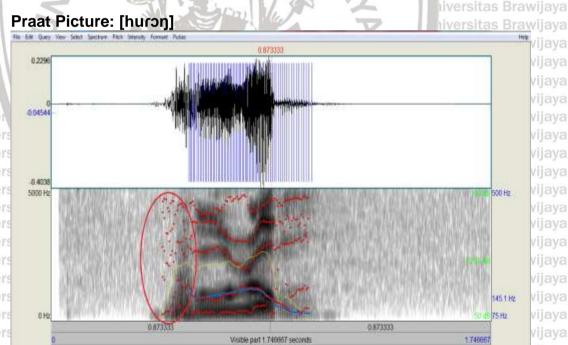
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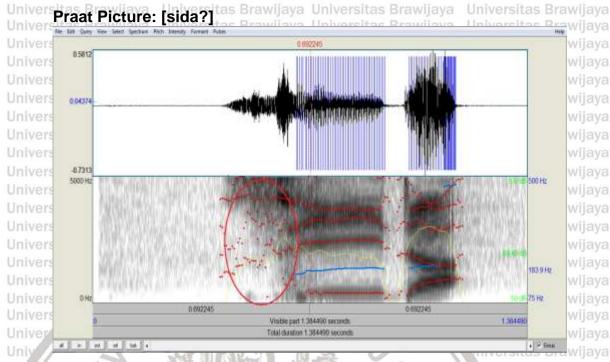
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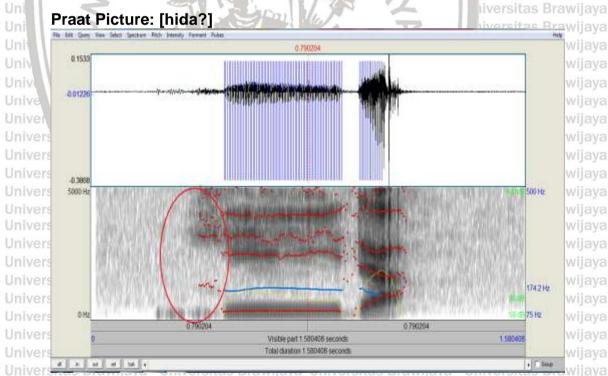
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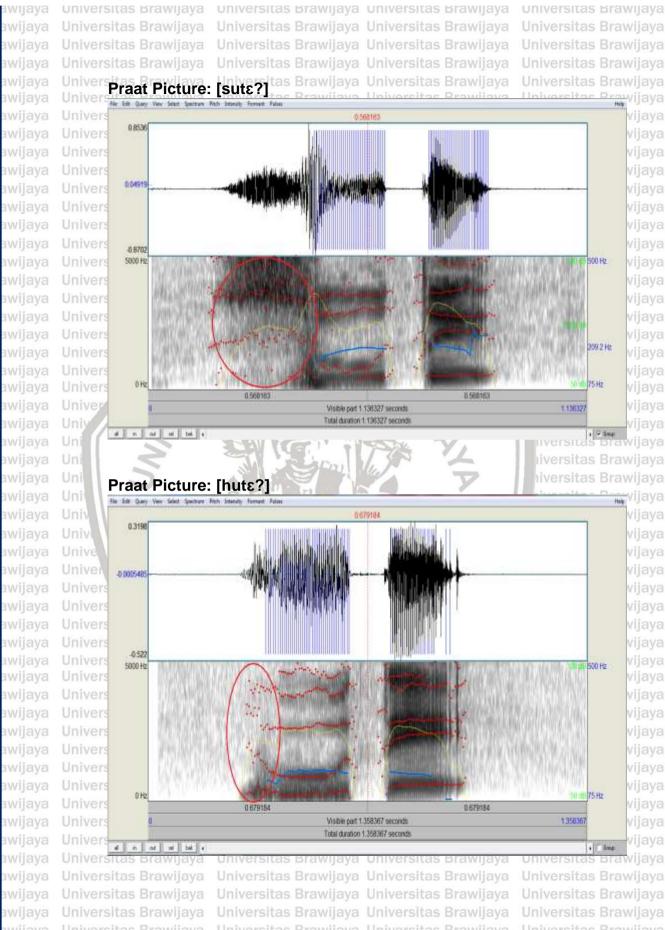
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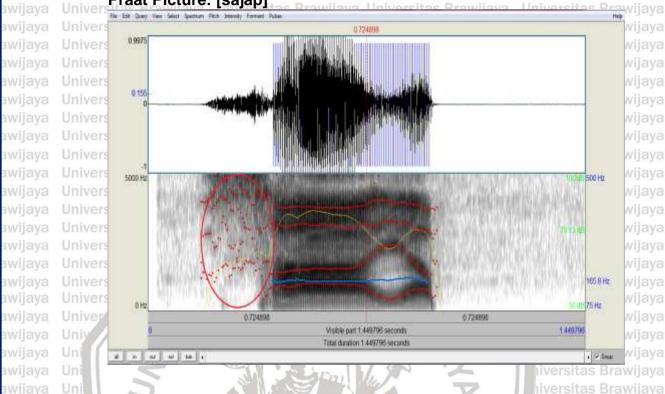
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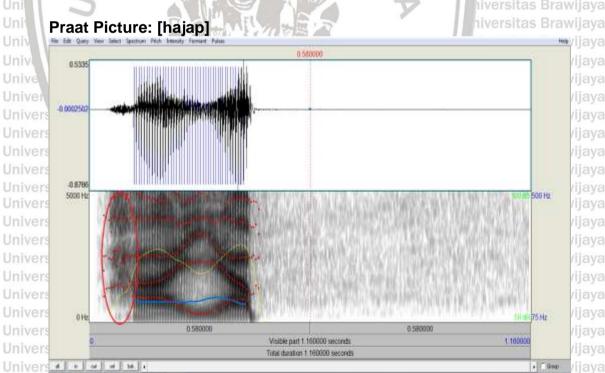
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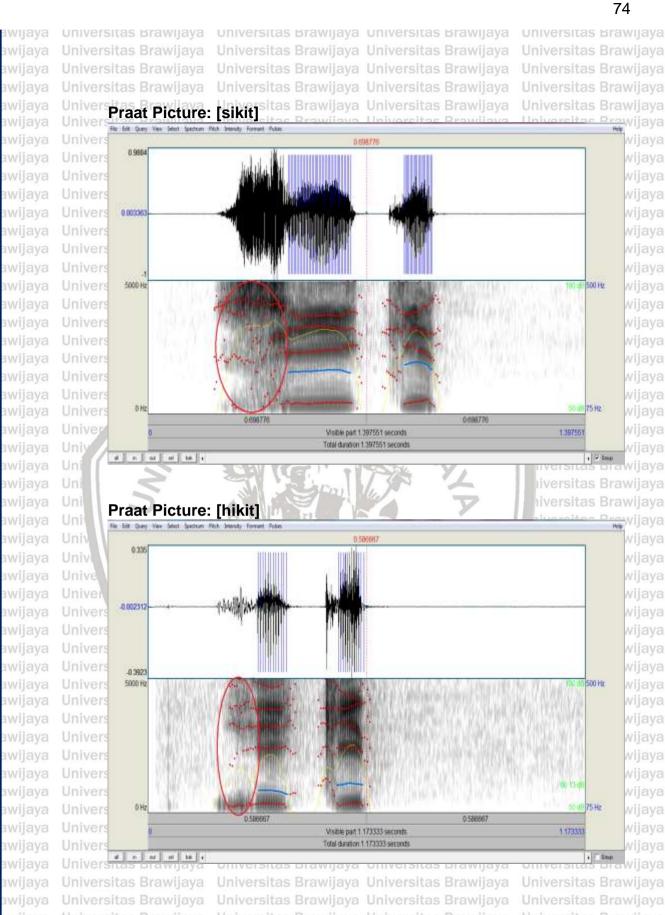




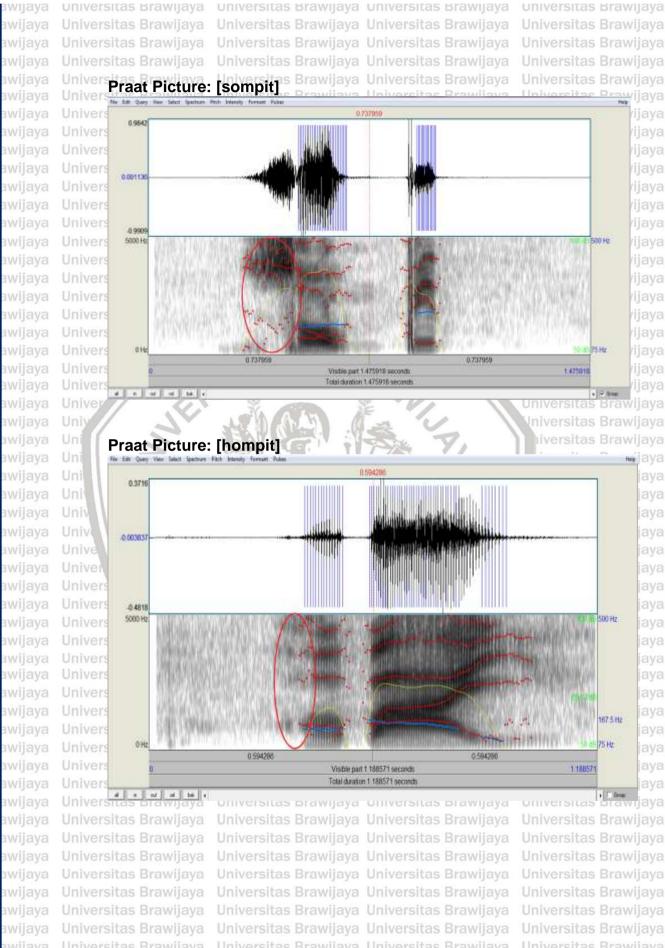


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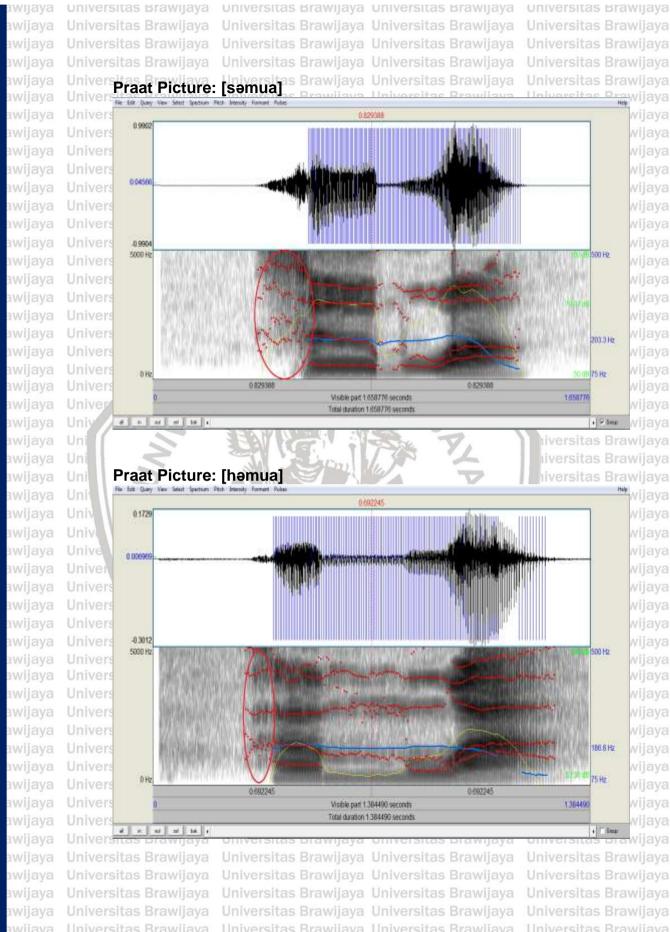
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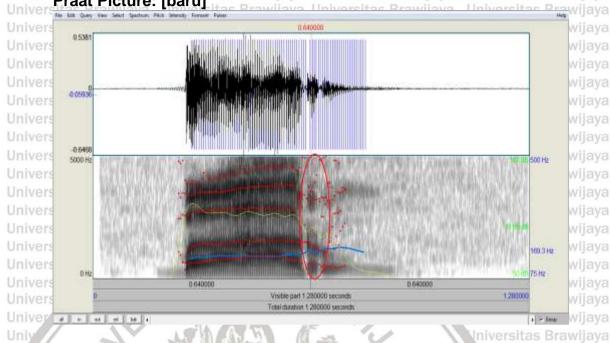
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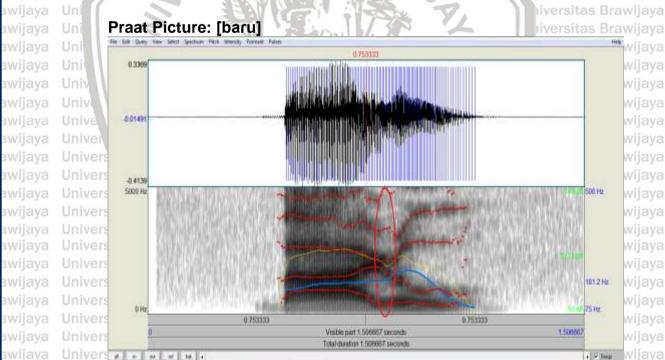
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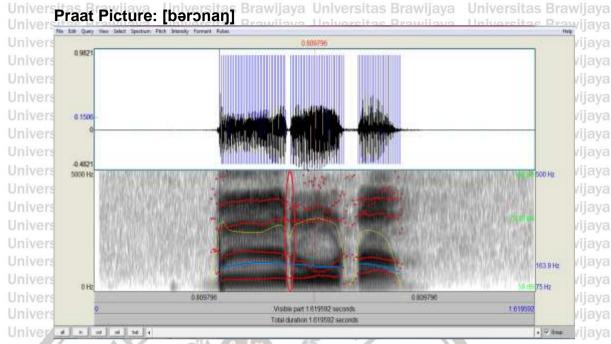
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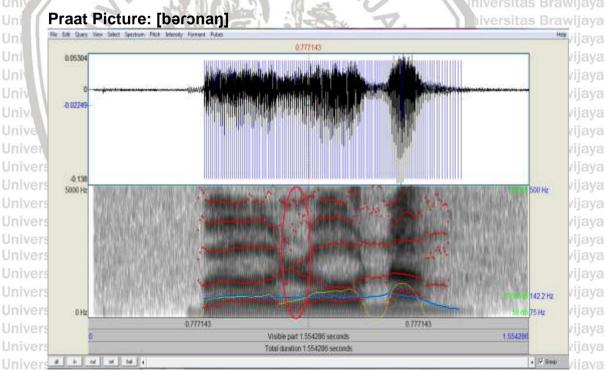
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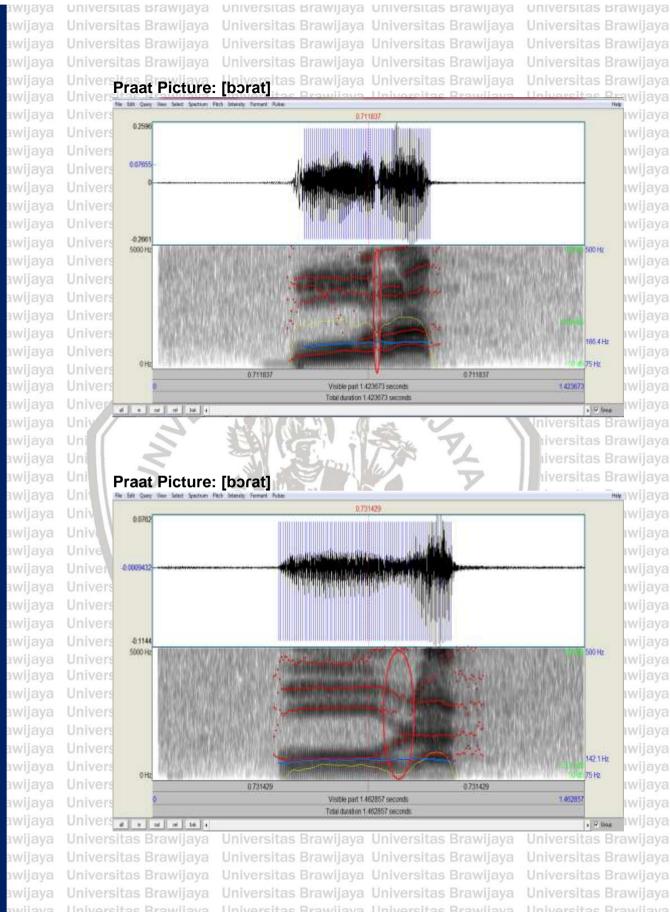


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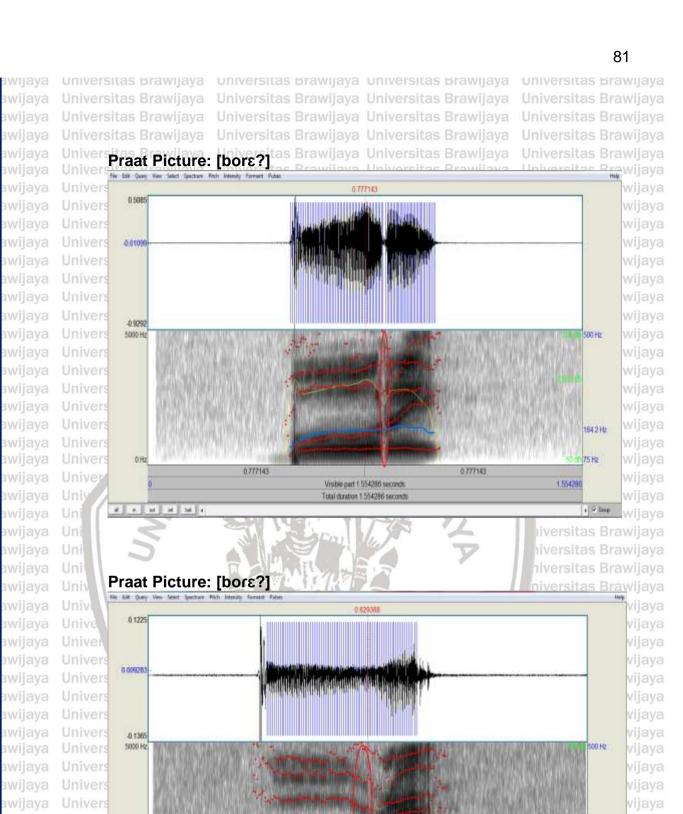
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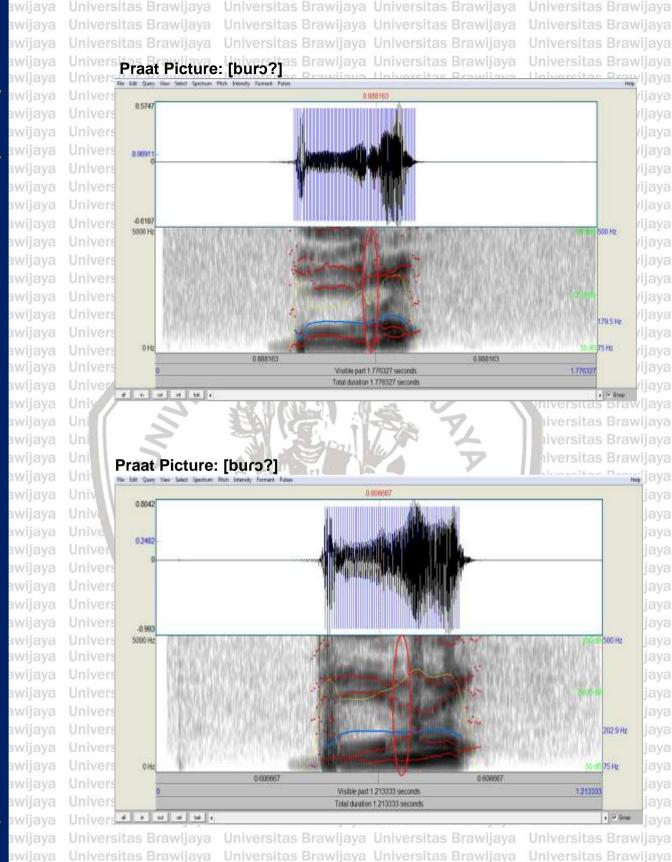
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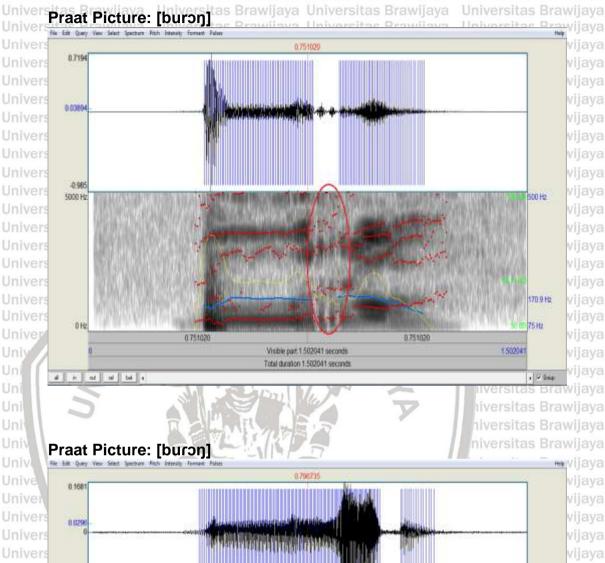
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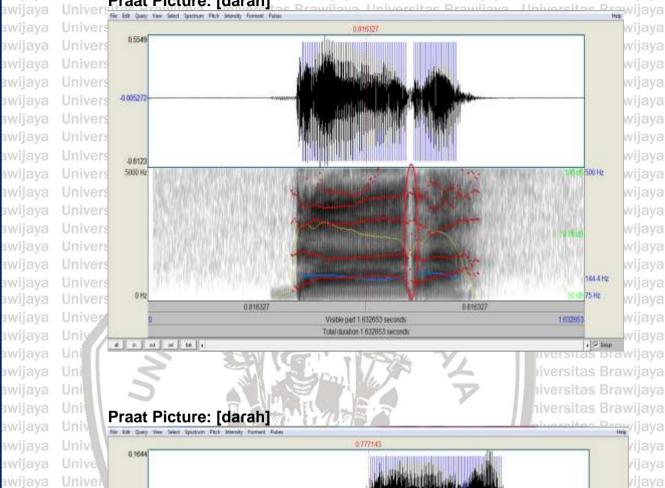
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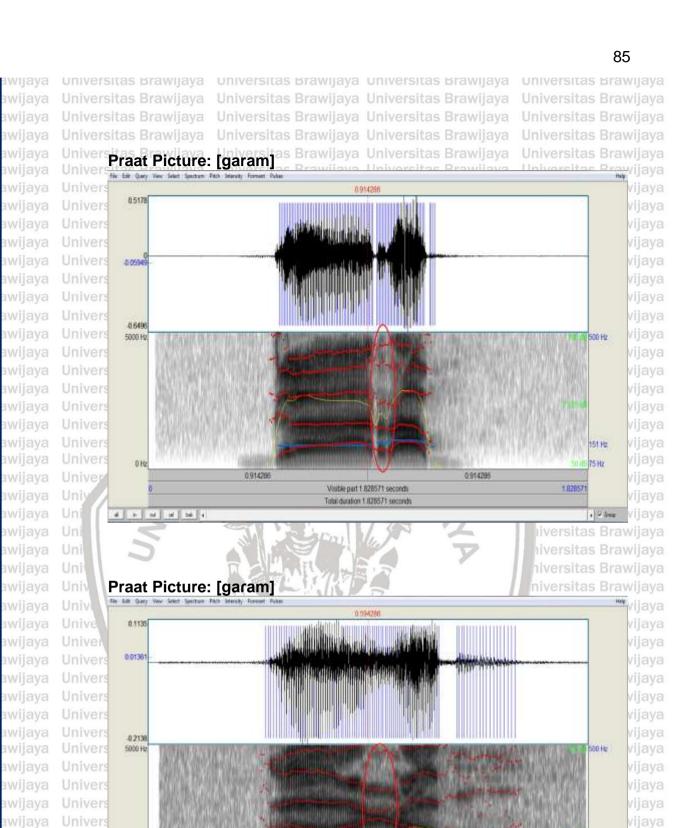
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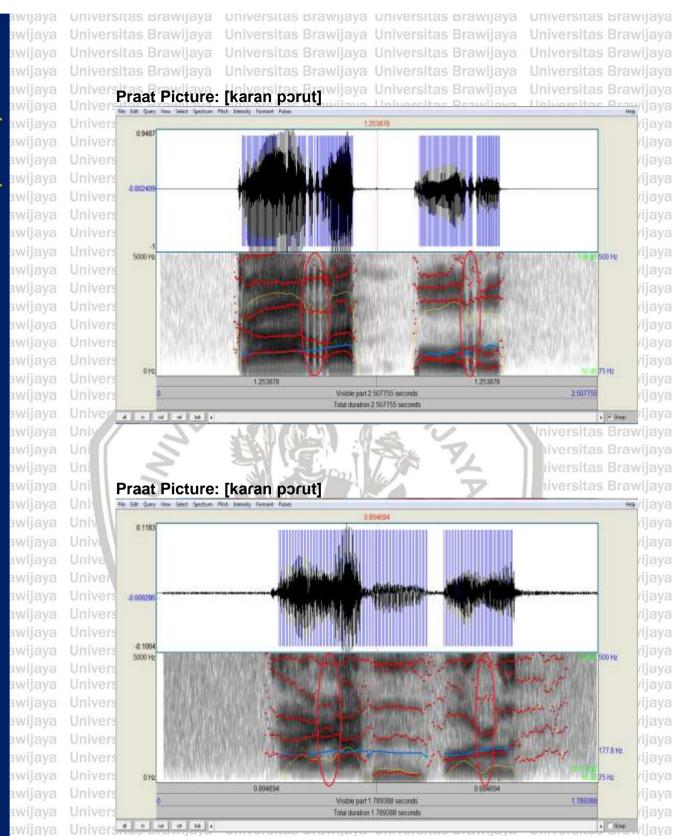
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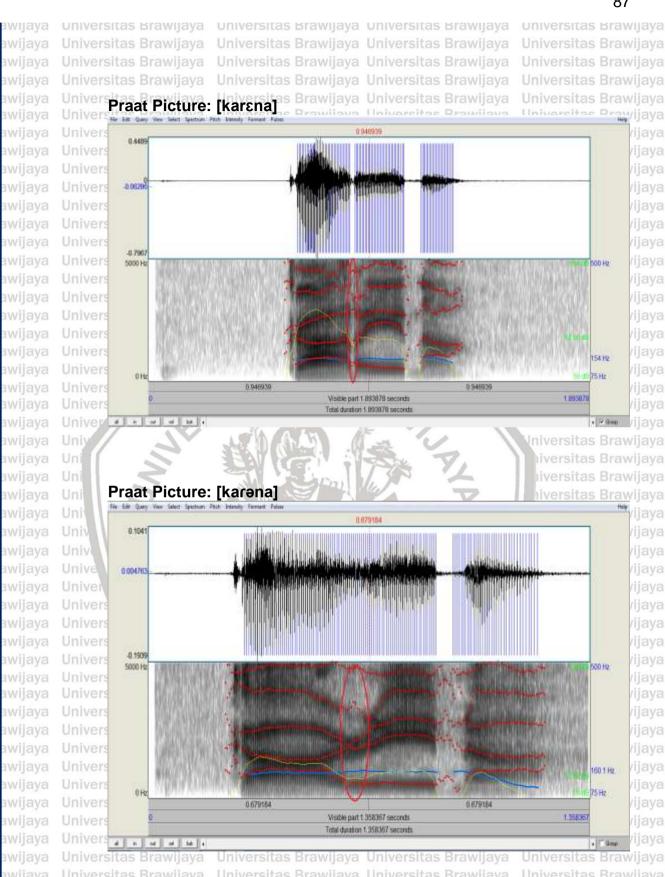
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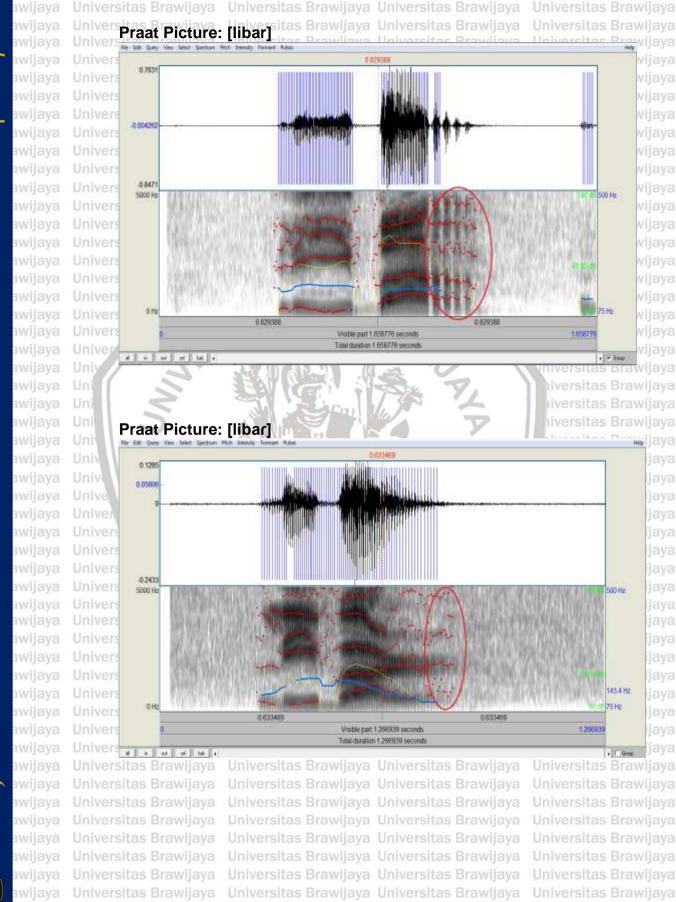
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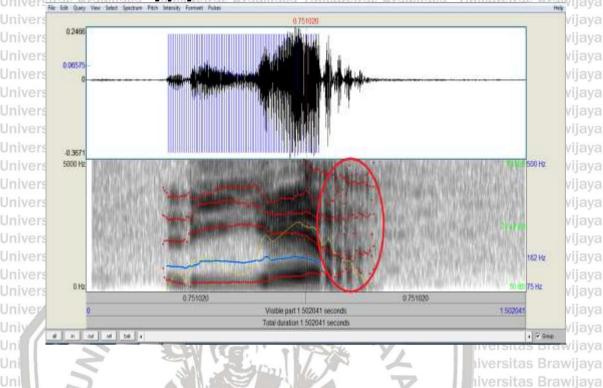
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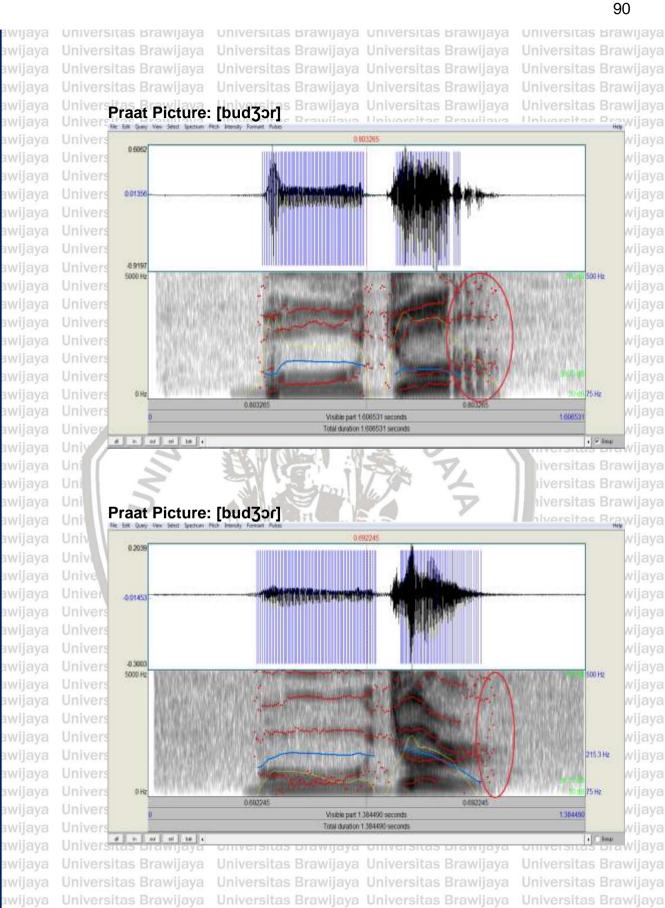


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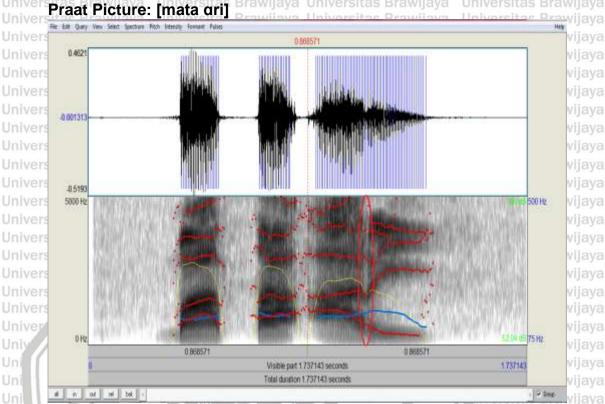
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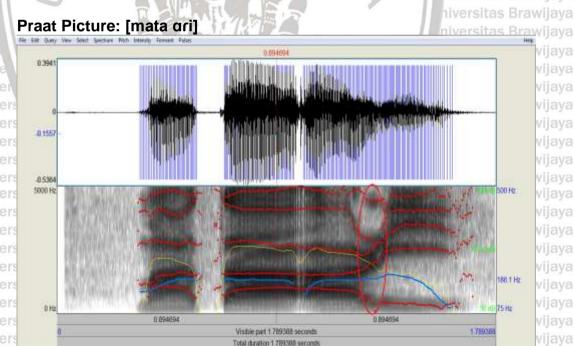
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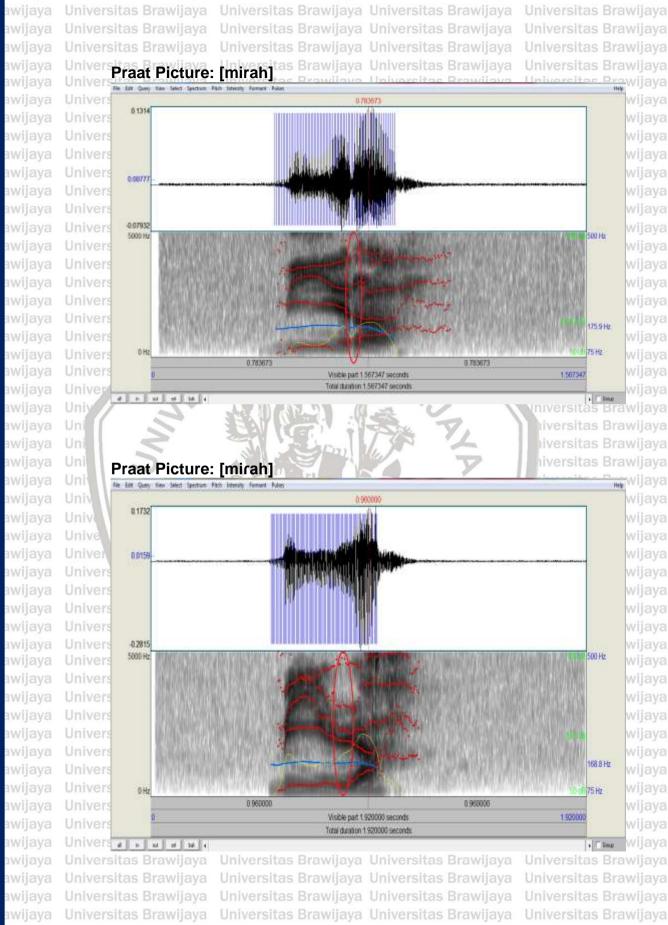
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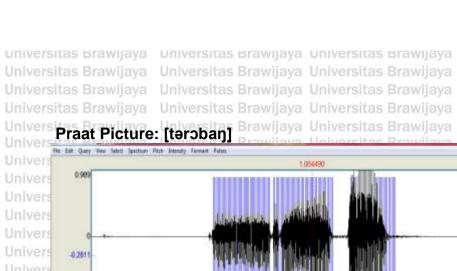
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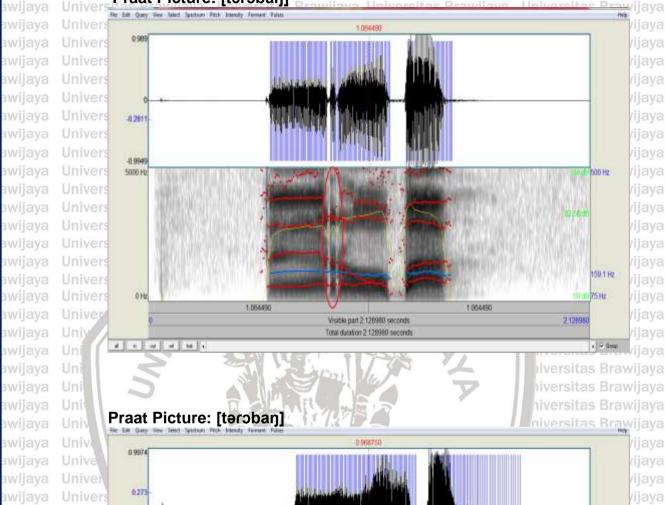
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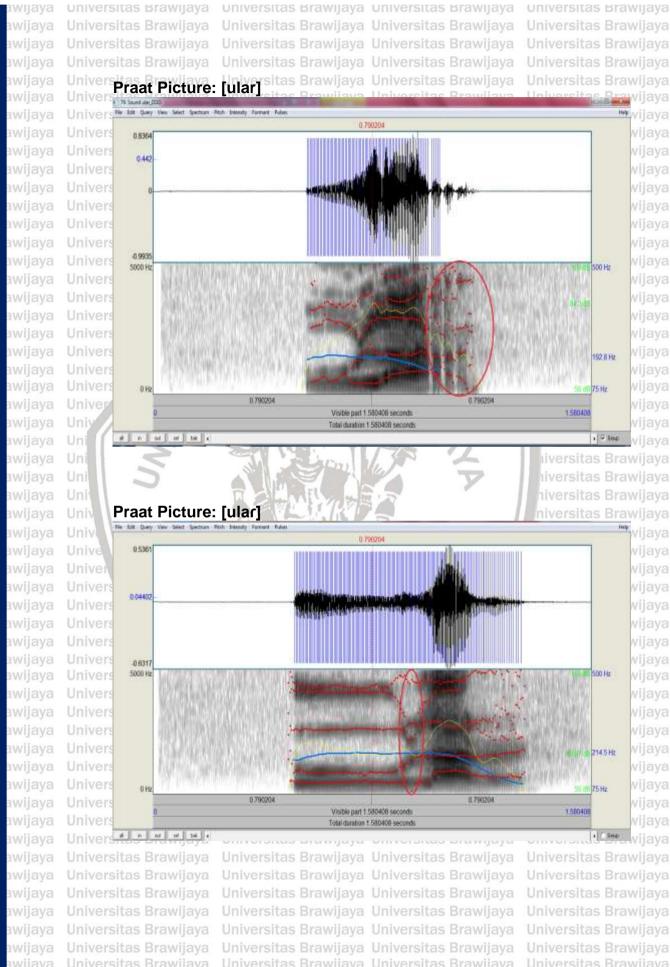
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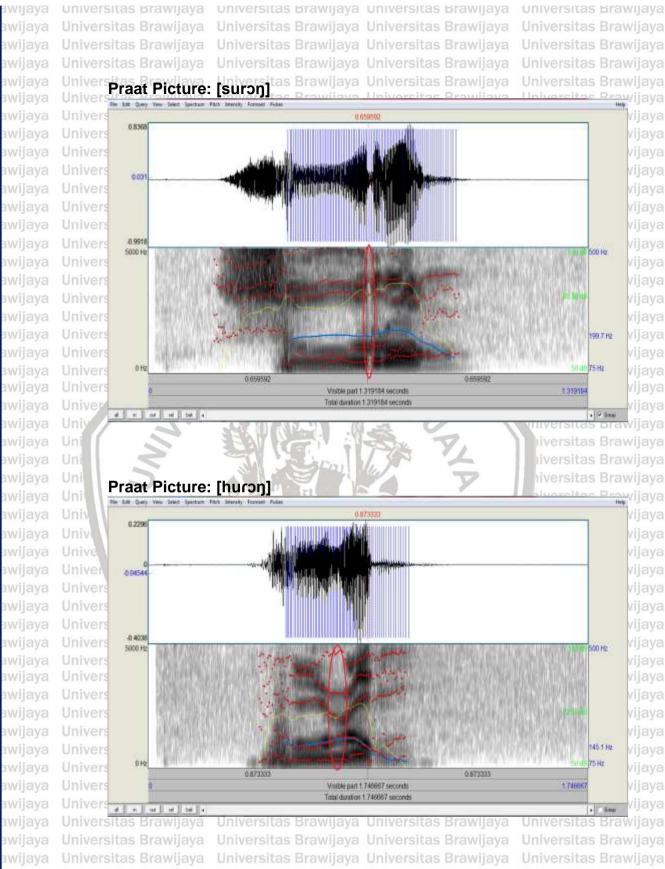
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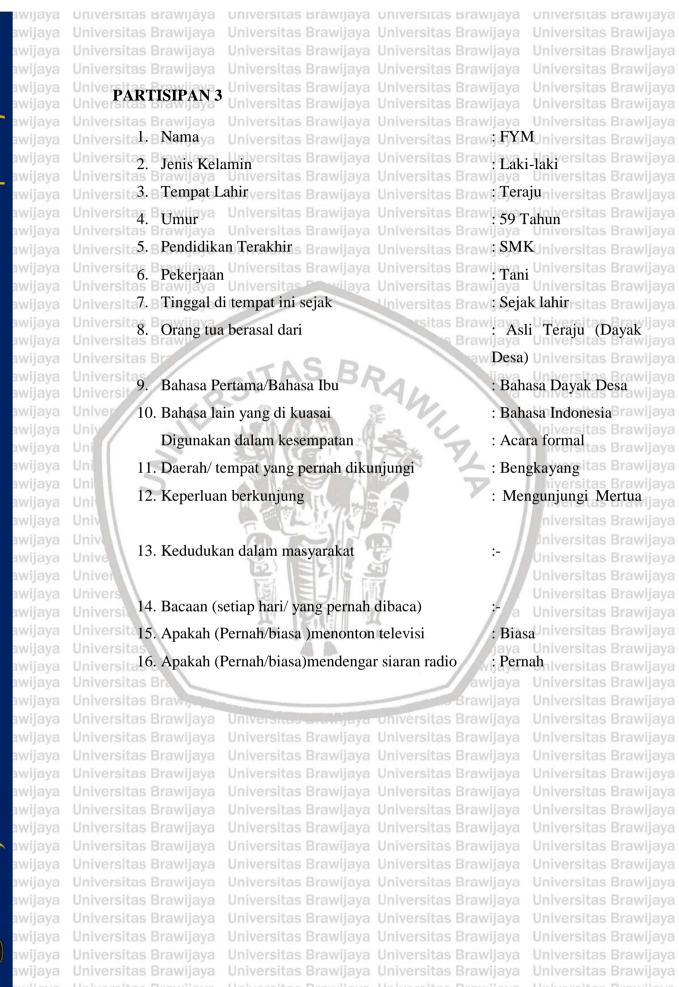


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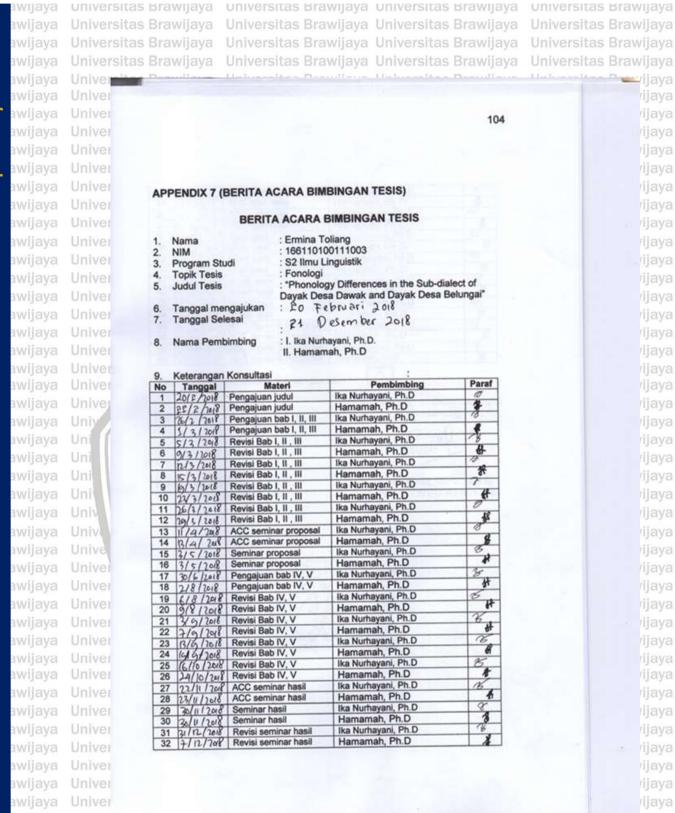
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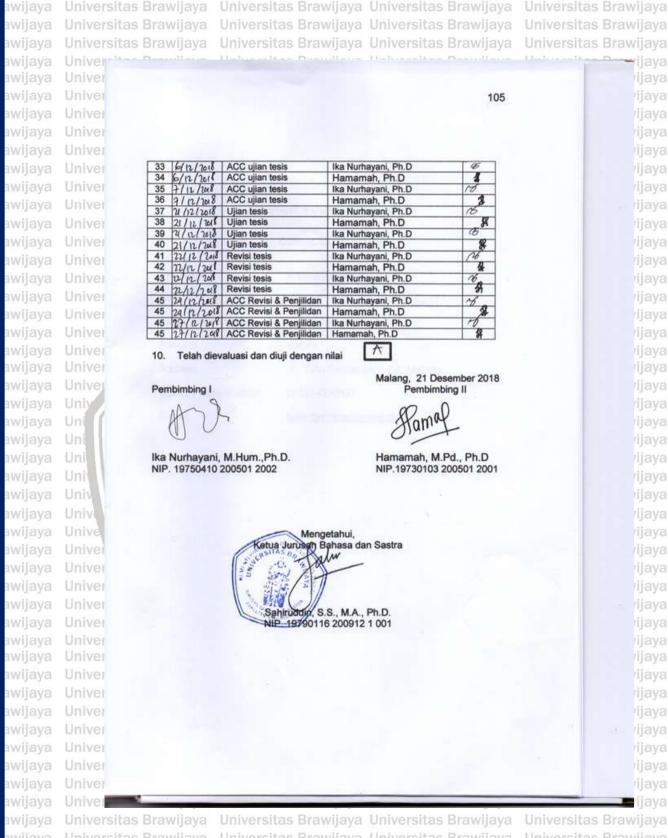
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: JL. Tirto Taruno gang 5A, Malang versitas Brawijaya

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