

**MORPHOPHONEMIC ANALYSIS OF ADJECTIVAL  
SUFFIXES IN THE JAKARTA POST AND NEW YORK TIMES**

**THESIS**

By:  
**Faradannisa Putri Kinasih**  
NIM 17320123



**DEPARTMENT OF ENGLISH LITERATURE  
FACULTY OF HUMANITIES  
UNIVERSITAS ISLAM NEGERI MAULANA MALIK  
IBRAHIM MALANG  
2021**

# **MORPHOPHONEMIC ANALYSIS OF ADJECTIVAL SUFFIXES IN THE JAKARTA POST AND NEW YORK TIMES**

## **THESIS**

Presented to

Universitas Islam Negeri Maulana Malik Ibrahim Malang

In Partial Fulfillment of the Requirements for the Degree of *Sarjana Sastra* (S.S)

By:

Faradannisa Putri Kinasih

NIM 17320123

Advisor:

**Dr. Hj. Syafiyah, M.A.**

NIP 196609101991032002



**DEPARTMENT OF ENGLISH LITERATURE  
FACULTY OF HUMANITIES  
UNIVERSITAS ISLAM NEGERI MAULANA MALIK  
IBRAHIM MALANG  
2021**

## STATEMENT OF AUTHORSHIP

I state that thesis entitled **“Morphophonemic Analysis of Adjectival Suffixes in The Jakarta Post and New York Times”** is my original work. I do not include any material previously written or published by another person, except those ones that are cited as references and written in the bibliography. Hereby, if there is an objection or claim, I am the only person who is responsible for that.

Malang, 9 December 2021



Faradannisa Putri Kinasih

NIM 17320123

## APPROVAL SHEET

This is to certify that Faradannisa Putri Kinasih's thesis entitled **Morphophonemic Analysis of Adjectival Suffixes in The Jakarta Post and New York Times** has been approved for thesis examination at the Faculty of Humanities, Universitas Islam Negeri Maulana Malik Ibrahim Malang, as one of the requirements for the degree of *Sarjana Sastra* (S.S).

Malang, 9 December 2021

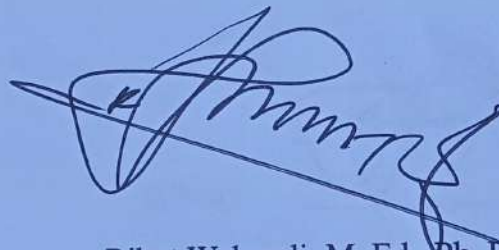
Approved by

Advisor,



Dr. Hj. Syafiyah, M.A.  
NIP 196609101991032002

Head of English Literature  
Department,



Ribut Wahyudi, M. Ed., Ph. D.  
NIP 198112052011011007

Acknowledged by

Dean,



Dr. M. Faisol, M.Ag.  
NIP 1974110120031210003

## LEGITIMATION SHEET

This is to certify that Faradannisa Putri Kinasih's thesis entitled **Morphophonemic Analysis of Adjectival Suffixes in The Jakarta Post and New York Times** has been approved by the Board of Examiners as the requirement for the degree of *Sarjana Sastra* (S.S.) in Department of English Literature.

Malang, 9 December 2021

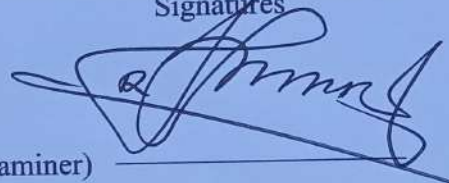
The Board of Examiners

1. Ribut Wahyudi, M. Ed., Ph. D.

NIP 198112052011011007

(Main Examiner)

Signatures



2. Mazroatul Ishlahiyah, M.Pd.

NIDT 19910722201802012181

(Chair)



3. Dr. Hj. Syafiyah, M.A

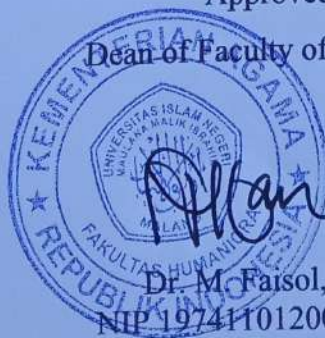
NIP 196609101991032002

(Advisor)



Approved by

Dean of Faculty of Humanities,



Dr. M. Faisol, M.Ag.

NIP 1974110120031210003

## **MOTTO**

**Just Keep Swimming~**

(Dory-Finding Nemo)

## **DEDICATION**

I proudly dedicated this thesis to my family who has always loved and supported  
me.

My father, Asril Rahman, S. Pd.

My mother, Musrifah Widji Karyati

My older sister, Almh. Danny Ivon Kusuma Putri

My younger sister, Ivena Fariza Ramadhany

Last but not least, me myself who has passed through the hard time and always  
risen up with a smile.

## ACKNOWLEDGMENT

All praise to Allah SWT, who has given some mercies and blessings for me, so I could finish my thesis at the right time. Also, *Shalawat* and *Salam* always be given to our beloved Prophet Muhammad SAW, who guides us from the darkness to the brightness and spreads the good for human life.

I would express my deepest gratitude to my supervisor, Dr. Hj. Syafiyah, M.A. for giving me advice and guiding me in the entire progress of my thesis. My deepest gratitude also goes to my academic supervisor, Miftahul Huda, M.Pd. for always giving the best advice and helping me to be an active student during my study in English Literature UIN Malang.

I also address my special thanks to my thesis examiners, Ribut Wahyudi, M. Ed., Ph.D. and Mazroatul Ishlahiyah, M.Pd. for guiding and giving me their feedback in the examination, which make the quality of my thesis getting better. Another gratitude goes to my lecturer, Nur Latifah, M.A who has always provided me with the idea and suggestions, also supported me in the process of this thesis writing. In addition, I deliver my gratitude to all lecturers of English Literature Department who have given valuable knowledge and given amazing lessons during my study at Universitas Islam Negeri Maulana Malik Ibrahim Malang.

I would like to express my thanks to Assayyidah Bil Ichromatil Ilmi, who has always struggled with me, accompanied and helped me a lot since our first study in linguistics. Also, thanks to my old friend Talitha Nariswari Farendra,



who has always supported outside my study process and accompanied me since junior high school.

Other thanks go to Alifatin Ludzvia Zein, Danti Atikasuri Bado, Gigih Bella Wicaksono, Nur Nabilah Fauziyah, Ainia Arum Novitasari, my roommates from Faza 47, and all of my friends who have always accompanied me in the process of writing this thesis and comforted me when I felt stress during my thesis progress.

Last, I admit that this thesis is far from perfect and has many lacks. Thus, to improve this work, criticism and suggestion are welcomed. Hopefully, this thesis would give some benefits to other researchers and people who read this.

Malang, 9 December 2021

Faradannisa Putri Kinasih

NIM 17320123

## ABSTRACT

**Kinasih, Faradannisa Putri** (2021) *Morphophonemic Analysis of Adjectival Suffixes in The Jakarta Post and New York Times*. Undergraduate Thesis. Department of English Literature, Faculty of Humanities, Universitas Islam Negeri Maulana Malik Ibrahim Malang. Advisor: Dr. Hj. Syafiyah, M.A.

**Keywords:** *Adjectival suffix, Morphophonemic, The Jakarta Post, New York Times*

---

Morphology and phonology are some of the subject discussion in the study fields of micro-linguistics. These subjects discuss the process of word formation and sound production. These processes are commonly found in news media that are commonly used by people, such as online news. With the ease of accessing online news, people could read the news from their gadgets. Likewise, the researcher used this ease for collecting the data from *New York Times* and *The Jakarta Post* online news. The use of two news aims to find out the tendency of the using adjectival suffix and morphophonemic change on *New York Times* and *The Jakarta Post*. This study used the theory of morphophonemic change by O'Grady and Guzman (1996) and the adjectival suffixes theory by Plag (2002).

This study uses mixed method through concurrent transformative approach with qualitative is more emphasized than quantitative. Descriptive qualitative aims to collect the data which are 5 title news about covid-19 from each *New York Times* and *The Jakarta Post* through the websites of each online news. The process of collecting data through the corpus tool named *Lancsbox*. After the data were collected, the next process is categorized and analyzed the data. Meanwhile, quantitative method through descriptive statistics aims to calculate the frequency of morphophonemic changes and adjectival suffixes found in each news.

The result of this research shows that *New York Times* used more processes than *The Jakarta Post* in the process of writing. It can be seen from eleven kinds of adjectival suffixes, there are eight kinds in *New York Times* and six kinds in *The Jakarta Post*. From the finding, there are three kinds of word classes to which adjectival suffix can attach which are, adjective, verb, and noun. Meanwhile for the finding of morphophonemic change, from ten kinds of change, there are six kinds in *New York Times* and five kinds in *The Jakarta Post*. After calculating the frequency, it can be concluded that the suffix *-al* is the most frequently used, because the meaning of suffix *-al* is mostly appropriate with health topic. Meanwhile for the morphophonemic change, simple consonant change is the most frequently used, because this process commonly affected the change of morphophonemic on the last consonant after adding by suffix.

## ABSTRAK

**Kinasih, Faradannisa Putri** (2021) *Analisis Morfofonemik pada Akhiran Kata Sifat dalam The Jakarta Post dan New York Times*. Skripsi. Jurusan Sastra Inggris, Fakultas Humaniora, Universitas Islam Negeri Maulana Malik Ibrahim Malang. Pembimbing: Dr. Hj. Syafiyah, M.A.

**Kata Kunci:** *Akhiran Kata Sifat, Morfofonemik, The Jakarta Post, New York Times*

---

Morfologi dan fonologi merupakan beberapa subjek pembahasan dalam bidang linguistik mikro. Subjek ini membahas proses pembentukan kata dan pembentukan suara. Proses ini banyak terdapat pada media pemberitaan yang sering digunakan oleh masyarakat, seperti koran online. Dengan adanya kemudahan dalam mengakses koran online, masyarakat dapat membaca berita melalui gadget. Begitu pula peneliti yang menggunakan kemudahan ini untuk mengumpulkan data pada koran online *New York Times* dan *The Jakarta Post*. Penggunaan dua koran bertujuan untuk mencari kecenderungan penggunaan akhiran kata sifat dan perubahan morfofonemik pada koran *New York Times* dan *The Jakarta Post*. Penelitian ini menggunakan teori perubahan morfofonemik oleh O'Grady dan Guzman (1996) dan teori akhiran kata sifat oleh Plag (2002).

Penelitian ini menggunakan metode campuran melalui pendekatan transformatif bersamaan dengan metode kualitatif yang lebih dipertegas dari kuantitatif. Kualitatif deskriptif bertujuan untuk mengumpulkan data dari 5 judul berita pada setiap koran *New York Times* dan *The Jakarta Post* tentang covid-19 yang diakses melalui laman internet pada masing-masing koran. Proses pengumpulan data melalui perangkat korpus bernama Lanksbox. Setelah data terkumpul, proses selanjutnya adalah kategorisasi dan analisis data. Sedangkan, metode kuantitatif melalui statistika deskriptif bertujuan untuk menghitung frekuensi pada perubahan morfofonemik dan imbuhan kata sifat yang terjadi pada setiap koran.

Hasil penelitian ini menunjukkan bahwa *New York times* menggunakan lebih banyak proses daripada *The Jakarta Post* dalam proses penulisan. Hal ini dapat dilihat dari sebelas jenis akhiran kata sifat, terdapat delapan jenis pada *New York Times* dan enam jenis pada *The Jakarta Post*. Selanjutnya, jenis kelas kata yang ditempel di akhiran kata sifat ada tiga, yaitu kata sifat, kata kerja, dan juga kata benda. Sedangkan untuk perubahan morfofonemik, dari sepuluh macam perubahan terdapat enam macam pada *New York Times* dan lima macam pada *The Jakarta Post*. Setelah dilakukan penghitungan frekuensi, dapat disimpulkan bahwa akhiran kata sifat yang sering digunakan adalah akhiran *-al*. Sedangkan perubahan morfofonemik yang sering digunakan adalah perubahan konsonan.

## مستخلص البحث

كيناسية، فرد النساء بوتري (2021) تحليل مورفونيمي للالواح الوصفية في جاكارتا بوست ونيويورك تايمز. بحث جامعي، قسم الآداب الإنجليزية، كلية العلوم الإنسانية، جامعة مولانا مالك إبراهيم الإسلامية الحكومية مالانج. المشرفة: الدكتورة الحاجة شافية، الماجستير الكلمات المفتاحية: لاحقة صفة، مورفونيميك، جاكارتا بوست، نيويورك تايمز

---

علم الصرف وعلم الأصوات هي بعض الموضوعات التي نوقشت في مجالات دراسة علم اللغة الجزئي. تناقش هذه الموضوعات عملية تكوين الكلمات وإنتاج الصوت. توجد هذه العمليات بشكل شائع في وسائل الإعلام التي يشيع استخدامها من قبل الناس، مثل الأخبار عبر الإنترنت. مع سهولة الوصول إلى الأخبار عبر الإنترنت، يمكن للأشخاص قراءة الأخبار من أجهزتهم الذكية. وبالمثل، استخدمت الباحثة هذه السهولة في جمع البيانات من أخبار نيويورك تايمز وجاكارتا بوست على الإنترنت. يهدف استخدام خبرين إلى معرفة اتجاه استخدام لاحقة الصفة والتغيير المورفونيمي في نيويورك تايمز و جاكارتا بوست. استخدم هذا البحث نظرية التغيير المورفونيمي بواسطة O'Grady و Guzman (1996) ونظرية اللواح الوصفية بواسطة Plag (2002). تستخدم هذا البحث طريقة مختلطة من خلال نهج تحولي متزامن مع التأكيد على النوعية أكثر من الكمية. يهدف الوصف النوعي إلى جمع البيانات وهي 5 عناوين إخبارية عن covid-19 من كل من نيويورك تايمز و جاكارتا بوست من خلال المواقع الإلكترونية لكل أخبار على الإنترنت. عملية جمع البيانات من خلال أداة corpus تسمى Lancsbox. بعد جمع البيانات، يتم تصنيف العملية التالية وتحليل البيانات. وفي الوقت نفسه، تهدف الطريقة الكمية من خلال الإحصاء الوصفي إلى حساب تواتر التغييرات المورفونيمية واللواح الوصفية الموجودة في كل خبر.

تظهر نتيجة هذا البحث أن نيويورك تايمز استخدمت عمليات أكثر من جاكارتا بوست في عملية الكتابة. وهذا يمكن رؤيته من أحد عشر نوعاً من اللواحق الصفية، وهناك ثمانية أنواع في نيويورك تايمز وستة أنواع في جاكارتا بوست. من النتيجة، هناك ثلاثة أنواع من فئات الكلمات التي يمكن أن ترتبط بها لاحقة الصفة، وهي الصفة والفعل والاسم. في غضون ذلك، من أجل اكتشاف التغير المورفونيمي، من عشرة أنواع من التغير، هناك ستة أنواع في نيويورك تايمز وخمسة أنواع في جاكارتا بوست. بعد حساب التكرار، يمكن استنتاج أن اللاحقة-al هي الأكثر استخداماً، لأن معنى اللاحقة-al مناسب في الغالب للموضوع الصحي. في غضون ذلك، بالنسبة للتغير المورفونيمي، فإن التغير الساكن البسيط هو الأكثر استخداماً، لأن هذه العملية أثرت بشكل عام على تغيير الشكل المورفونيمي على الحرف الساكن الأخير بعد الإضافة لاحقة.

## ACRONYMS

<b>POS</b>	Part of Speech
<b>NYT</b>	New York Times
<b>TJP</b>	The Jakarta Post
<b>N</b>	Noun
<b>V</b>	Verb
<b>Adj</b>	Adjective
<b>PRS</b>	Prefix, Root, Suffix
<b>LOP</b>	Loss of Phoneme
<b>AOP</b>	Addition of Phoneme
<b>SCC</b>	Simple Consonant Change
<b>SS</b>	Stress Shift
<b>Dis</b>	Dissimilation
<b>As</b>	Assimilation
<b>CSVD</b>	Change of Syllabic Vowel or Diphthong
<b>Syn</b>	Synthesis
<b>Grd</b>	Gradation
<b>Sup</b>	Suppletion
<b>JJ</b>	Part of Speech tagging for Adjective in Corpus

## TABLE OF CONTENTS

<b>THESIS COVER .....</b>	<b>i</b>
<b>APPROVAL SHEET .....</b>	<b>ii</b>
<b>LEGITIMATION SHEET .....</b>	<b>iii</b>
<b>MOTTO .....</b>	<b>iv</b>
<b>DEDICATION .....</b>	<b>v</b>
<b>ACKNOWLEDGEMENT.....</b>	<b>vi</b>
<b>ABSTRACT.....</b>	<b>ix</b>
<b>ACRONYMS .....</b>	<b>xiii</b>
<b>TABLE OF CONTENTS .....</b>	<b>xiv</b>

### CHAPTER I: INTRODUCTION

A. Background of Study.....	1
B. Problems of the Study .....	5
C. Objectives of the Study .....	5
D. Significances of the Study.....	6
E. Scope and Limitation .....	6
F. Definition of Key Terms .....	7
G. Previous Studies .....	7
H. Research Methodology.....	14
1. Research Design .....	15
2. Research Instrument .....	16
3. Data and Data Source .....	17
4. Data Collection.....	17
5. Data Analysis .....	18

## **CHAPTER II: REVIEW OF RELATED LITERATURE**

A. Morphology .....	19
1. Morpheme.....	20
2. Allomorph.....	24
B. Phonology .....	24
1. Phoneme .....	24
2. Allophone .....	25
C. Morphophonemic.....	25
1. Loss of Phoneme.....	26
2. Addition of Phoneme.....	26
3. Simple Consonant Change.....	26
4. Assimilation.....	26
5. Dissimilation.....	27
6. Stress Shift.....	27
7. Change of Syllabic Vowel or Diphthong.....	27
8. Synthesis .....	28
9. Gradation .....	28
10. Suppletion .....	28
D. Phonological Rules .....	29

## **CHAPTER III: FINDINGS AND DISCUSSION**

A. Findings.....	30
1. Adjectival Suffix .....	31
2. Morphophonemic change .....	42
B. Discussion .....	56

## **CHAPTER IV: CONCLUSION AND SUGGESTION**

A. Conclusion .....	63
B. Suggestion.....	64

<b>REFERENCES.....</b>	<b>65</b>
------------------------	-----------

<b>CURRICULUM VITAE.....</b>	<b>68</b>
------------------------------	-----------

<b>APPENDIX.....</b>	<b>69</b>
----------------------	-----------



## **CHAPTER I**

### **INTRODUCTION**

This chapter consists of background of the study, problem of the study, objective, scope and limitation, significance, as well as key terms of the research. Other than that, this chapter also provides of research design, research instrument, data and data sources, data collection, and data analysis.

#### **A. Background of the Study**

People use language to communicate and express themselves. Therefore, language becomes an important part of human life. The study of language called linguistics also becomes an important study of competence to speak a language and performance as the realization of the language potential (Crabtree and Powers, 1991). Many people learn many languages, especially English. As an international language, people learn about English to make their business connections and other subjects wider (Crystal, 2008). They learn English in various ways, such as taking a course, watching videos, even following online classes. When starting to learn English, people start from the basic steps, knowing sounds and words. According to Yule (2010), we should know the alphabet letter to represent the sound, and then we can describe the sounds of what English is like. These steps are part of micro-linguistics.

According to Akmajian, Demers, and Harnish (1984), the subfields of linguistic system or known as micro-linguistics are morphology, phonology,

syntax, and semantics. In perceive far, this thesis will discuss the merging study of morphology and phonology.

According to Chaer (2008), morphology is the science of word formation in linguistics. Lieber in her book, also states that morphology has a role as the process of word creating of all languages around the world (Lieber, 2009, p. 2). For example, the nominalization process happened when the verb added by the suffix –ion becomes a noun. Phonology itself is the selection of language-specific that organized the sound to create the signal of meaning (McMahon, 2002, p. 2). Many processes of word-building make another process happen inside, like morphophonemic. The merging study of morphology and phonology creates another study that describes the phonemic structure of morpheme (Katamba, 1994). So, the Morphophonemic process happened when one morpheme merged with another morpheme and caused the changing of phoneme (Ramlan, 1985).

For example, **calculate** /kælkjʊleɪt/ (V) + **-ion** = become **calculation** /kælkjʊleɪʃən/. The addition of –ion is a common process in English vocabulary. Besides, the additional suffixes can shift the word category; the positional word in sentences is vital to be conveyed during the morphological process to become a correct structure in a sentence. Despite that, to be seen in pronunciation, there are changes of /t/ and /ʃ/ phonemes because of affixation, adding the suffix–ion to ‘calculate’ word. This process of affixation or the so-called nominalization process made the category and phoneme in the 'calculate' word change. In different circumstances, still, many people have not known yet about the nominalization process, even for English department students. In doing so, the

researcher needs to examine this kind of process, specifically for the morphophonemic process that happened in adjectival suffixes.

The writer chooses the theory of adjectival suffixes proposed by Plag (2002) to discuss because it is a common suffix that is always found in written text or daily conversation. Besides, it can produce a new word with different part-of-speech and meaning by adding suffixes in the bound morpheme form. There is also another process that happened in the process of adding suffixes, morphophonemic. Many people, especially students of English major, still don't know what a morphophonemic process is. So, the researcher examines and explains the kind of morphophonemic processes and adjectival suffixes to help English students know about these morphological processes are.

For the object, the researcher chooses online news, *New York Times*, and *The Jakarta Post*. These online news are known as trusted and have high credibility in sharing the news. Also, the successful news manages to switch from printed to digital form. In this era, the majority of people decided to read online news than paper one because it is more practical. Online news is accessible free and explored for everyone. These reasons become the advantages of using online news; that's why online news is going popular these days. The researcher also hopes that using online news as the object can raise the trend of micro-linguistics. For collecting the data, the researcher used linguistic software, namely Lanksbox, to collect and analyze the data using their own corpus. This linguistics software is focused on the part-of-speech analysis of the corpus. Corpus is text collection of written or spoken in similar objective research stored in the computer database. It

can determine how the specific word or phrase occurs commonly (Yule, 2010, p. 122). The use of corpus tools as the instrument of data collection will make the researcher easier to analyze and increase its accuracy.

Further, this study focuses on the morphophonemic process of adjectival suffixes in the Jakarta Post and *New York Times*. The main theories are used in this study, adjectival suffixes by Plag (2002) and morphophonemic change from O'Grady and Guzman (1996). According to Plag (2002), there are 11 adjectival suffixes that derived a word which are, *-al*, *-ive*, *-able/-ible*, *-ary*, *-ful*, *-less*, *-ly*, *-ous*, *-esque*, *-ish*, and *-ic/-ical*. Meanwhile, morphophonemic has ten processes which are: loss of phoneme, addition of phonemes, simple consonant change, stress shift, assimilation, dissimilation, synthesis, change of syllabic vowel or diphthong, gradation, and suppletion. By comparing *The Jakarta Post* and *New York Times*, the researcher is trying to figure out the kinds of adjectival suffixes and morphophonemic processes which are commonly used in different countries. From the finding, it can be known which news has tendency to use more various types of adjectival suffix and morphophonemic change. This study's advantage is to increase the trend of micro linguistics study that is going underrated these days by using online news as the object of research that has been rising these days. By knowing the process of word-changing will make people easier to understand more about language.

Several researchers have investigated this area of study, such as Ristiani (2015), Sitohang (2016), Rizkinauli (2019), Ampa, Basri, and Ramdayani (2019), Shangrela (2020), Khasanah, Adis, Rukayah, Vesakha, and Permana (2017),

Mahendra, Indrawati, and Aryawibawa (2017), Wahyutriyuni, Suarnajaya, and Agustini (2017), Umami (2020), and Dewi, Indrayani, and Soemantri (2020). The researcher will focus on adjectival suffixes and morphophonemic processes in online news from these previous studies.

### **B. Problem of The Study:**

Generally, this study aims to know morphophonemic change and also adjectival suffix that occurred in *New York Times* and *The Jakarta Post*.

Specifically, the researcher formulates three questions that should be answered:

1. What are the types of morphophonemic processes and adjectival suffixes that most frequently used in *New York Times* and *The Jakarta Post*?
2. What are the roots of adjectival suffixes used in this study?
3. How do the processes of morphophonemic change happen?

### **C. Objectives of The Study:**

Through the research questions, this study aims:

1. To find the morphophonemic process and adjectival suffix which are the most frequently used in *The Jakarta Post* and *New York Times*.
2. To find the roots of adjectival suffixes in this study.
3. To know the process of morphophonemic change.

#### **D. Significance of The Study**

The researcher hopes that this study can contribute theoretically and practically to develop micro-linguistics studies, especially morphology and phonology. Theoretically, the researcher hopes that this study will help the readers and academician, especially English students, for knowing the adjectival suffixes and morphophonemic process by knowing the pattern of the change itself. Practically, the researcher expects that this study may help the students or readers raise awareness of morphological and phonological process, also the verification of linguistics software as an instrument in linguistics study will help linguistics researchers analyze the data easily.

#### **E. Scope and Limitation**

In this study, the researcher focuses on five health section news in each *The Jakarta Post* and *New York Times* which published in March 1<sup>st</sup>-March 5<sup>th</sup>, 2021. The timing of the selection of news for data is based on the amount of news in the health section about the decline in the number of Covid-19 cases due to the large number of people who have been vaccinated in the first stage. The researcher decides to use different news from different country, because the researcher wants to know the difference of morphological process, especially adjectival suffix and morphophonemic in different news. Therefore, this research uses the theory from O'grady and Guzman (1996) to identify the morphophonemic change that occurred and Plag (2002) for adjectival suffixes. This research has a limit that only collects the data from

written-text on online news using the instrument namely Lancsbox (linguistics software) that focuses on part-of-speech and morphological process.

#### **F. Definition of The Key Terms:**

The definitions of the key terms are explained below:

1. **Morphophonemic:** The process of the changing of phoneme caused by morpheme attached to another morpheme.
2. **Affixation:** The process of combining free and bound morphemes for making a new word.
3. **Adjectival Suffixes:** Process of morpheme addition at the end of the stem that changed the word classes into an adjective.

#### **G. Previous Studies**

Several researchers have discussed the topic of morphophonemic analysis and morphological processes of derivational suffixes. The researcher tries to look for the gap in each research that has been discussed. Before mentioning the gap, the researcher will mention the main of the research, the method used, the object, and the result. These are ten previous studies that the researcher used as the main previous studies for creating the novelty in this research.

First, *Nominalization and Morphophonemic Process in The English Words Attached by Suffix –ion* by Ristiani (2015). The researcher focused on the analysis on nominalization and morphophonemic that occurred in

nominalization that has been found. Using descriptive qualitative as method and Oxford Advanced Dictionary Learner as the data. This research has a result as first. First, there are four types of the verb forms which the suffix can attach *-ion* are verbs with *-ise*, verbs with *-ize* or *-ate*, verbs with *alveolar s*, *t*, *z*, and *liquid l*, and verbs with *nasal m* and *n* and *fricative v*. Second, the nominalization process that used to analyze the data divided into replacement, insertion, and simple affixation. Third, the morphophonemic processes in the nominalization processes are consonant change and vowel change, stress shift, and schwa epenthesis. The researcher takes the gap from this study using the derivational suffixes process mostly found in the data.

Second, *Morphophonemic Process Found in Selected Motivational Short Stories* by Sitohang (2016). Sitohang discussed morphophonemic processes of assimilation and loss of final vowel. Sitohang used a descriptive qualitative method to analyze the data and a purposive sampling method to collect the data, but using an equation for choosing the dominant processes that occurred. The result of this research is, first, there are two kinds of morphophonemic processes. Those are loss of final vowel and progressive assimilation. From the analysis, morphemes that have morphophonemic process was 63 morphemes. The number of loss of the final vowel was 13 morphemes or 20.63%. The progressive assimilation process was 50 morphemes or 79.36%, and the most dominant morphophonemic process found is progressive assimilation. The researcher found the gap. This research used only the



assimilation process so that the researcher uses another kind of morphophonemic process as the focus.

Third, *Morphological Processes of the Derivational Suffixes {-er} and {-ist} in Agentive Nouns* by Rizkinauli (2019). This research discusses to find what bases receive nominalizer suffixes in agentive nouns and the distribution of agentive nouns based on meaning and etymology. Rizkinauli uses descriptive qualitative and uses note-taking for collecting data. The researcher found that (1) the suffix {-er} is mostly attached to verb base, which transitive verbs. The suffix {-ist} is mostly attached to the noun base. (2) The words that can receive the suffix {-er} are related to professions, habit, and trade. The words that can be attached to the suffix {-ist} are related to natural science and medical science, an instrument of music, ideology, religion, adherents of a particular theory, and idea. The researcher finds the gap in this research; Rizkinauli doesn't mention whose main theory is used in this research. So, the positioning in this research is less. This research also doesn't mention the significance of the study and the scope of the study. The researcher thinks that writing the study's scope will help the reader visualize the whole study. So, the researcher states the main theory to strengthen the positioning for the research. The researcher also uses another derivational suffix that forms adjective words.

Forth, *A Morphophonemic Analysis on The Affixation in The Indonesian Language* by Ampa, Basri, and Ramdayani (2019). This research discussed the morphological and morphophonemic processes in *Kompas* newspaper.

Ampa, Basri, and Ramdayani (2019) analyzed the data used verbal analysis, such as identity and classifying the affixes into their types. The researchers showed; first, the affixation process transformed the word classes where nouns into the verbs and *pe-an* changed the roots into a noun, and the use of confix *me-kan* changed the roots of adjectives. Besides, the morphophonemic rules were also discussed from the variation of prefixes *pe-* and *me-*. Using Indonesian newspaper as the object becomes the gap of this research. If this study uses a comparative study between Indonesian and English newspapers, it will be more complex and also the findings. So, the researcher uses two objects, Indonesian and English online news.

Fifth, *Affixations and Allomorphs in Verbs and Nouns in a Research Abstract: A Morphemic and Morphophonemic Analysis* by Shangrela (2020). This research aimed to analyze the differences and similarities in the process of morphophonemic and its types in both English and Balinese language used the theory of morphophonemic rules by Jensen (1990). The data were written data sourced and recorded audio-visual from English and Balinese language. This research used descriptive qualitative for collecting the data and also analyzing the data. The result shows that there are differences and also similarities in both languages. For differences, in English there was found metathesis, while there was no finding in Balinese language. On the other hand, there was finding on vocal harmonization in Balinese, while there was no finding in English. Also, English were used prefix and suffix, while Balinese language used prefix, suffix, infix, and also confix. For the

similarities, there were assimilation, dissimilation, insertion, deletion, haplology, vocal reduction, and morpheme order rules. While the processes of affixation were found prefix and suffix in both languages. The researcher takes the gap on comparing two online news from different country, not two languages. The use of morphophonemic is also different, the researcher uses the theory of morphophonemic change by O'Grady and Guzman (1996).

Sixth, *Derivational Morphology in English Language* by Khasanah, Adis, Rukayah, Vesakha, and Permana (2017). This study discussed the types of morphology that found in internet and e-book through descriptive qualitative. This study resulted that there were four types of derivational morphemes, (1) derivational prefixes, (2) derivational suffixes; (a) noun-forming suffix, (b) adjective-forming suffixes, (c) verb-forming suffixes, and (d) adverb-forming suffixes. This research had no limitation on the using of the object. Also, there was no clearly stated of what theory was used, it makes this study had a weak position. So, the researcher clearly stated the limit of the object and also states the using theories of adjectival suffixes by Plag (2002) and morphophonemic change by O'Grady and Guzman (1996).

Seventh, *Derivational English Suffixes with References to The Jakarta Post* by Mahendra, Indrawati, and Aryawibawa (2017). This study aimed to identify the forms of derivational suffixes and also explain the function and meaning of each derivational suffix. The data were taken from the online version of *The Jakarta Post*. The data were analyzed using the theory of morphology from Plag (2002) through qualitative method. The results from

this study stated that there were four types of derivational suffixes which were, nominal suffix, verbal suffix, adverbial suffix, and adjectival suffix. the function of derivational suffix divided into two; class-changing suffix and class-maintaining suffix. the meaning of each suffix had their own meaning, for example *make (more) X, connected with, the activity or result of, etc.* For making a difference with this study, the researcher uses mixed method and also comparing two online news. Therefore, it will be more complex. The addition analysis about morphophonemic and the using of corpus tool also makes this as the novelty of this study.

Eighth, *The Morphophonemic Change of Borrowed English Words in Info Komputer Magazines* by Wahyutriyuni, Suarnajaya, and Agustini (2017). This study analyzed the morphophonemic change and borrowed words from the technology magazines. The data were Indonesian words borrowed from English that found in technology magazines on special edition which published in between 2014 until 2017. This study used qualitative methods through interactive data analysis by Miles and Huberman (1994). This study used the theory of morphophonemic change by Nida (1949) and found that there were five types of morphophonemic change such as five processes of assimilation, ten processes of loss of consonant phoneme, three processes of loss of vowel phonemes, one process of palatalization, and one process of nasalization. The differences with this research are the researcher uses the theory of morphophonemic change by O'grady and Guzman (1996) and also uses the data from adjectival suffix words.

Ninth, *An Analysis of Morphological and Morphophonemic Process of Alay Variation in The Comments of Boy William Instagram Account* by Umami (2021). This study aimed to know the process of morphological and morphophonemic in *Alay* utterances that found in followers' comment in Boy William Instagram account. This study used the theory of morphological process by Yule (2006) and morphophonemic change by Yule (2006) and O'grady (1996). Through qualitative method, this study found there were 2 types of morphological process namely affixation and non-affixation. Affixation occurred in the form of internal change with 1 utterance (2%), infixation with 10 utterances (20%), and core of vowel change with 4 utterances (8%). While non-affixation occurred in the form of coinage with 5 utterances (10%), borrowing with 1 utterance (2%), clipping with 2 utterances (4%), acronyms with 26 utterances (52%), and reduplication with 1 utterance (2%). For morphophonemic process, it occurred in all with the percentage and the researcher also found the utterance percentage Indonesia mix English 16%, Indonesia utterance 78%, and English utterance 6%. For making the differences with this study, the researcher used the data of full English sentences that found in online news of New York Times and The Jakarta Post.

Tenth, *The Morpho-phonemic Processes in Indonesian Advertisement's Slogans* by Dewi, Indrayani, and Soemantri (2020). This study explained the forms and the purpose of morphological process used in Indonesian advertisement's slogans. Through qualitative method, this study used morphological theory proposed by O'Grady and Dobrovolsky (1997). From

this study, there were morphemic and phonemic processes. The morphemic formations resulted in simulfix-affix formats and unique forms, while the phonemic formations resulted in free variation of allophone and allomorph forms. For the differences, the researcher uses two theory of morphological processes to make it more complex, theory of morphophonemic change by O’Grady and Guzman (1996) and adjectival suffix by Plag (2002).

From the previous studies that have been reviewed, the researcher found several gaps from those previous studies. Further, the researcher will discuss morphophonemic processes in adjectival suffixes found in *New York Times* and *The Jakarta Post* news using the morphophonemic theory from O’Grady and Guzman (1996) and adjectival suffixes from Plag (2002) using linguistics software. The use of Longman Dictionary also helps the researcher determine the base word and transcribe into phonemic transcription. The researcher will use the theory of notation rules for showing the process of morphophonemic change in derivational suffixes from O’Grady (2005: 92-93) that mentioned the notation rules is  $A \rightarrow B / X \_\_\_ Y$ .

## H. Research Methodology

This chapter explains about the methodology used to analyze the data in this study. It consists of research design, research instrument, data, data source, data collection, and data analysis.

### 1. Research design

This study aims to investigate the morphophonemic processes and adjectival suffixes that occur in *New York Times* and *The Jakarta Post*. The finding will be shown in table form. Also, trying to look for the tendency by knowing the common suffixes and morphophonemic processes in each news is and shown in a table of frequency in percentage. The process of morphophonemic change will be shown in phonological rules in the form of phonemic transcription.

This research uses mixed method with concurrent transformative approach according to Cresswell (2014). The use of mixed method is as reflection of the research questions in this study. The design feature uses embedded approach with unequal priority which makes qualitative more dominant and quantitative becomes supporting for qualitative. The use of linguistics software also helps the process of collecting data through descriptive qualitative.

According to Godgan and Guba in (Moeleong, 2006), Qualitative method is a research procedure that provides descriptive data (the data collected in the form of words, pictures, but not numbers). According to

Raharjo (2020, p. 41), Qualitative research is used to develop knowledge using constructivist concepts of thought.

Other than that, the researcher uses quantitative method for supporting qualitative method through descriptive statistics. The quantitative aims to find out the frequencies of adjectival suffixes and morphophonemic change that used for each online news and determine the type that is commonly used. This is for knowing the differences frequency between *The Jakarta Post* and *New York Times* by modelling the score on visual representation (Zubaidi, 2013).

The researcher used mixed method through descriptive qualitative method because it is easy to use for analyzing micro-linguistics subject. Also, the use of quantitative method through descriptive statistic helps the researcher to calculate the frequencies of each type and determine the type that is commonly used of each online news.

## **2. Research instruments**

According to Creswell (2014), the key instrument is the researcher herself because the researcher is the one who collects the data. Another instrument is linguistics software named Lanksbox v 5.1.2 as the tool for collecting the data. Online version of *Longman Dictionary of American English* is also used for transcribing into phonemic transcription and PRS (prefix-root-suffix) application for looking the base word of each derivational word.



### 3. Data

The data used in this research are words that contain adjectival suffix, then being analyzed as the data that has morphophonemic change process. The researcher will analyze the word by its categorization.

### 4. Data source

The researcher takes the data from each online news websites. For *New York Times*, the link is [nytimes.com](https://www.nytimes.com), and *The Jakarta Post* is [TheJakartapost.com](https://www.thejakartapost.com). The researcher takes 5 news about Covid-19 progress in the health section. The edition from March 1<sup>st</sup>-March 5<sup>th</sup>, 2021 is chosen because March 2021 is the time when the case of Covid-19 in Indonesia get decreased significantly and also the vaccination first wave progress starts in January-April 2021 according to Indonesian Ministry of Health. So, the news about covid-19 and vaccination progress are in the high number of being discussed in March 2021.

### 5. Data Collection

The researcher uses linguistics software (Lancsbox) as an instrument for collecting the data. As the steps mention, first, the researcher explores five news about Covid-19 from *The Jakarta Post* and *New York times*. The data will be collected in 1<sup>st</sup> -5<sup>th</sup> March 2021. Second, copy the data and converted it into .txt (text) to be readable in linguistic software, Lancsbox. Third, input corpus into linguistic software, which has been downloaded to be analyzed with (\*JJ) code and input the suffix category one by one according to Plag (2002) as a data object that the researcher will analyze.

Forth, look in the PRS application and Longman Dictionary for the base words of each word that have found in linguistic software. Finally, collect the data which has been analyzed in the form of adjectival suffixes.

## **6. Data Analysis**

There are several stages that the researcher used for analyzing the data. First, collect the data from the news using Lanksbox software. Second, categorize the words by their adjectival suffixes process. Third, transcribe into the phonemic symbol. Forth, analyze and categorize the morphophonemic processes that occurred. Fifth, enter the data into table and tabulate each adjectival suffix and morphophonemic change frequency on each online news. Sixth, calculate the tendency of each online news by the mode of data (the value of the words that commonly used) and mean value (in the form of percentage). Last, write the rules of morphophonemic change by using phonological rules. So, this study analyzes, first, adjectival suffix words in *The Jakarta Post* and *New York Times* and second, morphophonemic change that occurred on adjectival suffix words.

## CHAPTER II

### REVIEW OF RELATED LITERATURE

This chapter consists of review of the related literatures used in this study, which is discussed from the general to the specific. The underlying theories will be explained such as morphology, derivational morpheme, phonology, morphophonemic, and phonological rules.

#### A. Morphology

Morphology as the branch of linguistics deals with the process of word formation. This statement is in line with some arguments from linguistics experts. According to Chaer (2008), morphology as the branch of linguistics shows that it is as the science of word formation in linguistics. Lieber in her book also states that morphology has a role as the process of word creating of all languages around the world (Lieber, 2009:2). Also, Lyons (1968) argues that morphology deals with the internal structure of words.

Yule (2010: 67) in his book explains that many languages have “word-like” elements. For example, in Swahili (East Africa) the word *nitakupenda* represents as I will love you in English. Because of the different word and structure, Yule found there is the similarity between both languages, the whole message. So, he looked at linguistics form in different languages is the notion of ‘element’ rather than ‘word’.

From these definitions of some experts, we can conclude that morphology is the process of word formation that deals with the words language around the

world. Focusing on the descriptive analysis of each words that include in some texts.

## **1. Morpheme**

Yule (2010, p.67) stated that Morpheme is a minimal unit of meaning or grammatical function. Other linguists remarked “the most important component of word structure is the morpheme, the smallest unit of language that carries information about meaning and function” (O’Grady and Guzman, 1980, p. 55). in other word, morpheme is the smallest units in language which has meaning and formation. For instances; beach, rewrite, occupation, flag, those words are identified as smallest unit or so-called morphemes. Word formation in sentences have different function to build correct sentences. The words are connected through the various stem in a word. Hence, the categorization in a word can change. There consist two types of morpheme; free morpheme and bound morpheme.

### **a. Free Morpheme**

The morpheme which can stand alone in a form of word called (Lieber, 2009: 33). Yule (2010, p. 68) also stated free morpheme as the morpheme that can stand by itself as a single word and meaningful.

### **b. Bound Morpheme**

According to Booij (2007, p. 9), bound morpheme cannot stand alone, which means the word attached the stem. There consist of varieties of stems such as, -ize, -ion, -ic, -s, re-, un-, -ly, -ish, -ful, -less, and etc.

Derivational is a process of creating a new lexeme that change the meaning and the lexical category than their bases (Booij, 2007, p. 51). Derivational morpheme according to Plag (2002), divided into prefix and suffix.

### 1) Suffix

Suffix on bound morpheme has four main processes, adverbial suffixes, adjectival suffixes, nominal suffixes, and verbal suffixes. In this part, the researcher will only discuss about adjectival suffixes that proposed by Plag (2002).

#### a) Adjectival suffixes

Adjectival suffixes according to Plag (2002, p. 94) is divided into two variables; relational adjectives and qualitative adjectives. Relational adjective, it deals with noun which qualifies the adjective to the base word. For instance, *legendary weapon* (this means the weapon has something to do with legendary). While qualitative adjectives deal with the derived adjectives that express more concept.

#### - Suffix *-al*

This relational suffix has two different allomorphs. *-ial* in *confidential*, *substantial* and *-ual* in *spiritual*, *contextual*. The distribution on the using of *-ial* and *-ual* is not entirely clearly, but it seems that the ending bases of *-ant/ance* (*circumstantial*) and *-or* (*professorial*) take the *-ial* form.

#### - Suffix *-ive*

This suffix mostly from latinate verbs and bound roots that end in [t] and [s] (e.g. *connective*, *explosive*, *fricative*, etc).

- **Suffix *-able/-ible***

These suffixes can attach to the verb and noun bases. If the suffix *-able* attaches to the verb bases it has two conditions of meaning. For examples, *readable*, *breakable* have a meaning of ‘capable of being Y’ and *agreeable*, *perishable* have meaning of ‘disposed to Y’.

- **Suffix *-ary***

This suffix usually attaches to noun in the form of relational adjectives, for example *evolutionary*, *revolutionary*, *etc.*

- **Suffix *-esque***

This suffix commonly attaches to the proper and common noun and has meaning of ‘in the manner or style of Y’, for examples are *Chaplinesque*, *carnivalesque*, *etc.*

- **Suffix *-ful***

This suffix has meaning ‘having Y, being characterized by Y’ and usually attaches to abstract noun. Abstract noun refers to an intangible concept or not a physical object. For examples are *beautiful*, *tactful*, *etc.* But, it is not only happened to the abstract noun, also verbal bases. For examples are *careful*, *helpful*, *hurtful*, *etc.*

- **Suffix *-less***

This suffix can be seen as antonymic to *-ful*, with the meaning is ‘without Y’. For example, *hopeless*, *speechless*, *priceless*, *etc.*

- **Suffix -ly**

This suffix is attached to adjectives and nouns. With the meaning ‘in the manner of Y’ or ‘like a Y’ when denoting nouns in person as in *fatherly*, *womanly*, *daughterly*. Other bases denoting temporal concepts as in *half-hourly*, *monthly*, *daily*, or direction *westerly*, *easterly*, *etc.*

- **Suffix -ous**

This suffix commonly attached to noun. But this suffix, has different formation according to the last syllable. *-ous* (e.g. *platitudinous*), *-eous* (e.g. *homogeneous*), *-ious* (e.g. *prestigious*), and *-uous* (e.g. *ambiguous*).

- **Suffix -ic/-ical**

These relational suffixes usually attach to noun and bound roots. Some of the words can use both of the form such in *economic-economical*, *historic-historical*, *etc.*, but sometimes these forms are clearly distinguished in meaning (e.g. *economic* ‘profitable’ vs. *economical* ‘money-saving’).

- **Suffix -ish**

This suffix *-ish* can stick to noun base, adjectives base, adverbs base, numerals, and also syntactic phrases. When the suffix attach to noun, it is conveyed ‘like Y’ for examples *childish*, *townish*, *vampirish*, *etc.* In other circumstance, it can be conveyed ‘somewhat Y’ in form of adverbs (eg. *soonish*), adjectives (eg. *clearish*), numerals (eg. *thirteenish*) and syntactic phases (eg. *out-of-the-way-ish*).

## **2. Allomorph**

According to McCarthy (2002) allomorph is a different pronunciation that appeared on many morphemes. Also, O’Grady and Archibald (2015) stated that allomorph is variant pronunciations of a morpheme. For example, morpheme /s/ has different ways to pronounce such in cats, dogs, and judges. /s/ in cats is pronounced /s/, it is /z/ in dogs, and /əʒ/ in judges. The selection of the allomorph is dependent on the phonological aspects.

## **B. Phonology**

Phonology as one of the branches of linguistics deals with the structure of sound. According to McMahon, phonology is the selection of language-specific that organized the sound to create the signal of meaning (McMahon, 2002: 2). Mc Arthur also has an argument that more philosophy, he said that phonology was compounding words from Greek “Phono” which means sound and “Logy” which means study, we called phonology as the study of sound (Mc Arthur: 1998).

### **1. Phoneme**

Phoneme as one of the most important unit in phonology has a function to distinguish the sounds between words based on the phonetic properties (O’Grady, 2016: 57). While Fromkin (2000: 520), stated that phoneme is the basic speech sound of a language. The sound symbols for representing the phoneme are written in slant brackets //.



## **2. Allophone**

Allophone is the member of the same phoneme family, i.e. the various physically distinct sounds which count as executions of a given phoneme (Katamba, 1989, p.18). O'Grady and Archibald (2015, p. 57) in their book stated that allophone is phonetic properties of the sounds and whether those properties can be used to distinguish between words. For example, phoneme /ŋ/ has an allophone as in [ŋ].

### **C. Morphophonemic**

Morphophonemic is a branch of morphology and phonology that focus on the change of phoneme because of the merging of two morphemes. There are several arguments from linguistics experts like Sibarani that stated morphophonemic happened because of morpheme attached to other in word formation (Sibarani, 2002:57). According to Ramlan (1985), morphophonemic refers to the change of phoneme as the effect of the merging from one morpheme to another. Also, the process of morphophonemic includes the process of phoneme and morpheme changing inside. O'Grady and Guzman (1996) also stated that morphophonemic has ten processes such as loss of phoneme, addition of phonemes, simple consonant change, assimilation, dissimilation, synthesis, change of syllabic vowel or diphthong, gradation and suppletion. The explanation of morphophonemic process classification is as followed.

### 1. Loss of Phoneme

This process occurs when there are one or more phonemes that normally present in one allomorph but then missing in another allomorph. For example, the loss of consonant phoneme /t/ in *democrat* lost when there is derivational –cy becomes *democracy*. The loss of vowel phoneme may also be found but less than the consonant. For example, enemy /enəmi/ become enmity /'enmiti/.

### 2. Addition of Phoneme

This process happens when one of two allomorphs of a morpheme lacks one or more phonemes which are present in the other. For example, *long-longer* //lohn/- /lohngər/. the /g/ appears before inflectional suffixes (-er) or (-est).

### 3. Simple Consonant Change

This process is normally changed the final consonant. As in permit-permission, /t/ becomes /s/. It commonly appears to voiced consonant, when appeared in voiceless consonant it will replaced by its voiced counterpart, it is called voicing.

### 4. Assimilation

This process is assimilated the first word with another by sharing the feature of sequential phoneme (Sukarsono, 2009:6). For example, the voiced /d/ in past-tense form is changed to /t/ after a voiceless sound. It can also be said that assimilation is a process of a common consonant change in English. The other definition conveyed by Kelly (2000:109) assimilation is how sounds modify each other when they combined within words, but usually across words too. O'grady

classifies assimilation becomes two types, anticipatory assimilation that changes the sound to another because of the sounds which follows and coalescent assimilation that producing a new sound when the two different sounds combined.

## 5. Dissimilation

This process is the opposite of assimilation which make a segment becoming less similar to another. This is happened because of the combining of two morphemes which identical each other and results the changing of one of them. For example, fifth can pronounce into fift, because of the fricative /th/ is dissimilar to the preceding fricative by becoming a stop. It is rare in English, another example taken from Latin, the allomorph /ig/ replaces /in/ on the morphemes that begin with /n/ as in *ignoble*, *ignominious*.

## 6. Stress Shift

This process is the moving of the intensity to other sound. For example, the word *finance* /'fainæns/ after adding the suffix *-ial* becomes *financial* /faɪ'nænʃl/. We can see the strong stress at the front move to the second syllable after the process of affixation. Commonly, the stress shift affects the change of vowel, but there are some cases where it is not affected. For example, *linguist-linguistic* /'lɪŋgwɪst/-/lɪŋ'gwɪstɪk/ and *impulse-impulsive* /'ɪmpʌls/-/ɪm'pʌlsɪv/.

## 7. Change of Syllabic Vowel or Diphthong

This process is very prevalent in English. That is the changing of another syllabic vowel or diphthong that appears in the normal allomorph. For example, the change of syllable in the past tense form as in, *take-took* /teɪk/-/tʊk/. Here, diphthong /ei/ is changed into /u/. another example is from the derivation process,

*precise* becomes *precision*. After adding the suffix *ion*, the diphthong /ai/ changes into /e/.

## 8. Synthesis

Synthesis is a consonant change because of the combination of two morphemes that results a single new phoneme which different from both its constituent. For example, the word *act* /ækt/ adding by suffix *-ion* /yən/ becomes *action* /'ækʃən/ not /æktyən/.

## 9. Gradation

This process is the changing vowel as the result of stress shift process. there are two kinds of change: (1) the change of “full” vowels and diphthong to /i,r,ə/. (2) “full” vowels or diphthongs changes when the stress shifts onto the syllable. For examples, *instrument* becomes *instrumentəl* there is changing of /e/ becomes /ə/. Another example is *combine* /kəm'baɪn/ becomes *combination* /,kɒmbə'neɪʃən/. The diphthong changes because of the stress shift effect is /ay/ becomes a single vowel /i/ then the syllable that changes because of adding by stress is /a/ becomes /ə/.

## 10. Suppletion

This process happens when an allomorph fits into another allomorph and belong to the same morpheme, even though they completely have different allomorph. For example, the plural morpheme (*-es*). It has four forms as /ɪz/, /z/, /s/, /n/. All of them has the same position in the paradigm. For the three /ɪz/, /z/ and /s/ show some phonemic similarity, while /n/ has a very different phonemic.

#### D. Phonological Rules

Linguists have developed a number of procedures or form to write the result of analysis systematically, but none is infallible. But several have really helpful. As stated in O'Grady's book (2016: 87) the form of the rules that stated the phonological processes is named Phonological Rules which represents as below:

$$A \rightarrow B / X \underline{\quad} Y$$

In the rules, A stands as an element that become an input or the underlying representation. B is for the output of the realization the conditioning environment of X and Y that represents by the slash '/' that means 'in the environment of'. Environment is usually written in the form of phonetic properties. The long underlined means where the element segment occurs relative to its environments.

For example, calculate /kælkjølert/ become calculation /,kælkjølɛɪʃən/. It can be written  $t \rightarrow ʃ / [+diphthong] \underline{\quad} [+Syllabic]$ . It means that /t/ changed into /ʃ/ in the environment of diphthong and syllabic vowel.

### CHAPTER III

#### FINDING AND DISCUSSION

This chapter contains findings and discussions of the study. The finding provides the data of adjectival suffix words and morphophonemic change processes that occurred in five news about covid-19 in each *The Jakarta Post* and *New York Times*. The researcher uses adjectival suffixes proposed by Plag (2002) and types of morphophonemic change proposed by O’Grady and Guzman (1996) to help analyzing the data. Also, the use of research instruments such as, linguistics software named Lancesbox v 5.1.2, PRS application, and Longman Dictionary in the process of analysis the data.

#### **A. Finding**

This part discusses the findings of the study. The researcher used the theories of adjectival suffixes by Plag (2002) and morphophonemic change by O’Grady and Guzman (1996) to analyze the data of each online news. In this analysis, the researcher found 119 adjective words from 5 news in *New York Times* but only 69 words that have added by adjectival suffix. There are also 89 words that have morphophonemic change out of 69 words of adjectival suffix, it is because one word can involve more than one process of morphophonemic change. Meanwhile, in *The Jakarta Post* the researcher found 92 adjective words from 5 news. However, only 61 words have adjectival suffix and 55 words that have morphophonemic change. Thus, the researcher classifies and examines based on

the types of adjectival suffix and the process of morphophonemic change in accordance with the research questions in the first chapter.

## 1. Adjectival Suffixes

This part discusses adjectival suffixes that appeared in each news. These suffixes were found attached to some base words that have different parts of speech. Ingo Plag (2002) classifies derivational adjectival suffixes into eleven types, *-al*, *-ive*, *-able/-ible*, *-ary*, *-esque*, *-ful*, *-less*, *-ly*, *-ous*, *-ic/-ical*, and *-ish*. The following table describes the number of adjectival suffixes used in each news:

Table 1.1 The Results of Adjectival Suffixes Frequency

Suffix	Frequency			
	NYT	%	TJP	%
<i>-al</i>	35	50,7%	23	37,7%
<i>-ive</i>	9	13,1%	20	32,8%
<i>-able/-ible</i>	9	13,1%	3	4,9%
<i>-ary</i>	-	0%	-	0%
<i>-esque</i>	-	0%	-	0%
<i>-ful</i>	4	5,8%	-	0%
<i>-less</i>	4	5,8%	-	0%
<i>-ly</i>	3	4,3%	8	13,1%
<i>-ous</i>	2	2,9%	3	4,9%
<i>-ic/-ical</i>	3	4,3%	4	6,6%
<i>-ish</i>	-	0%	-	0%
<b>Total</b>	<b>69</b>	<b>100%</b>	<b>61</b>	<b>100%</b>

Based on the adjectival suffixes occurring frequency in the data, the researcher found that suffix *-al* is the most frequently used in New York Times with 35 data (50,7%) and The Jakarta Post with 23 data (37,7%). These results are based on the topics that relate to the meaning of suffix *-al*. Suffix *-al* has meaning of “relating to, process of or an action.” In the use of health topic, suffix *-al* is mostly fit with the word of health topic. The words in this covid news consist of the action of some handling section in the health sector, relating to some health terms in the noun and change it to adjective for describing, and also explain some processes and situations of covid terms. One of the examples is the changing of word ‘clinic’ to ‘clinical’. The word ‘clinic’ here initially refers to a place where medical treat is given. However, when it is added by suffix *-al*, the word ‘clinical’ has different meaning whereby it has a connection with an action to treat sick people. Thus, this description signifies that suffix *-al* has a function as the changing of meaning so it can describe and show the relation to the context of the word class before.

To summarize these plentiful data, the researcher used the form of the table to analyze the result easily. The researcher used Linguistics Software named Lingsbox for analyzing the words that have adjectival suffix inside by inputting the code \*JJ (Adj) in the POS box. Then, deeply analyzing uses Longman Dictionary to transcribe the phonemic transcription and look for root from the words that have added by adjectival suffix.



**a. Suffix *-al***

As stated in the table, the words that has added by suffix *-al* categorized as an adjective since it formed by combining the base word and the adjectival suffix which represent as below

Table 1.2 The results of suffix *-al*

NYT		TJP	
Root	Derivative	Root	Derivative
Rus (N)	Rural	Sever(N)	Several
Agriculture(N)	Agricultural	Substance(N)	Substantial
Essence(N)	Essential	Tropic(N)	Tropical
Sever(N)	Several	Clinic(N)	Clinical
Nation(N)	National	Office(N)	Official
Locus(N)	Local	Locus(N)	Local
Preference(N)	Preferential	Nation(N)	National
Genus(N)	General	Genus(N)	General
Profession(N)	Professional	Addition(N)	Additional
Origin(N)	Original	Globe(N)	Global
Clinic(N)	Clinical	Origin(N)	Original
Computation(N)	Computational	Essence(N)	Essential

Virus(N)	Viral	Analytic(N)	Analytical
Substance(N)	Substantial	Sever(N)	Several

Suffix *-al* in those examples only attach to Noun words. The final results of derivative words have a class word as an adjective after added by the suffix. It concludes that adjectival suffix changed the other noun words to become adjective. From those examples, the pattern could be written

$$\text{Stem 1(N)} + \text{-al} = \text{Stem 2 (Adj)}$$

For the meaning, we can know that derivative words will have a different meaning before adding by suffix and after adding by suffix. According to Plag (2002), suffix *-al* itself has the meaning of ‘relating to, process of or an action’. For example, Nation has a meaning as a country, especially on the relation in its people. After adding by suffix *-al*, the meaning changes into ‘relating to something that controlled or owned by the government’. Also, the word office has a meaning as a building that belongs to a company or organization. After adding by suffix *-al*, it changes the meaning as relating to someone that has authority in a company of organizations. The comparison of finding in between NYT and TJP shows that TJP has less tendency to use suffix *-al* with 23 data, meanwhile there are 35 data in NYT.

**b. Suffix *-ive***

In this data, the researcher found that the suffix *-ive* attaches to the verb, adjective, and noun words. As stated in the table below

Table 1.3 The results of suffix *-ive*

NYT		TJP	
Base	Derivative	Base	Derivative
Protect (V)	protective	Effect(V)	Effective
Execute(V)	executive	Negate(V)	Negative
Comprehend(V)	comprehensive	Extend(V)	Extensive
Innovate(V)	innovative	Intense(Adj)	intensive
Negate(V)	negative	Relate(V)	relative
Conserve(V)	conservative	Represent(V)	representative
Imagine(V)	imaginative	Authority(N)	authoritative
Effect(V)	effective		

According to the data, the pattern for this finding is:

1. Stem 1(V) + *-ive* = Stem 2 (Adj)
2. Stem 1(Adj) + *-ive* = Stem 2 (Adj)
3. Stem 1(N) + *-ive* = Stem 2 (Adj)

For the meaning, suffix *-ive* means ‘doing’ or ‘being’ or ‘tending to’. For example, the word innovate means to start to use new ideas, methods, or inventions. After adding by suffix, the meaning changed into way of doing

something is new, different, and better than those that existed before. For the comparison, there were 20 data in TJP and 9 data in NYT, it showed that TJP has tendency to use suffix *-ive* higher than NYT.

**c. Suffix *-able/-ible***

This researcher found that suffix *-able* has 2 allomorphs, *-able* and *-ible*. In this data, the researcher found that the suffix *-able* and *-ible* attaches to verb, noun, and adjective words.

Table 1.4 The results of suffix *-able/-ible*

NYT		TJP	
Base	Derivative	Base	Derivative
Avail(V)	Available	Avail(V)	available
Rely(V)	Reliable	Transmit(V)	Transmissible
Equity(N)	Equitable		
Posse(Adj)	Possible		
Elect(V)	Eligible		
Transmit(V)	transmissible		

Thus, the pattern for the findings is:

1. Stem 1 (V) + *-able/-ible* = Stem 2 (Adj)
2. Stem 1 (N) + *-able* = Stem 2 (Adj)
3. Stem 1 (Adj) + *-ible* = Stem 2 (Adj)

For the meaning, suffix *-able/-ible* has meaning ‘capable of being’. For example, *avail* means ‘to be of use or value to; profit; advantage’. After adding suffix *-able*, *available* means ‘accessible and ready for use or service’. For the comparison between NYT and TJP, there is a little difference in the finding. There are more variations in NYT showed by 9 data which used different allomorphs of *-able*, while in TJP only found 3 data and which used allomorph *-able*.

**d. Suffix *-ful***

This suffix only found in *New York Times* with 4 data, while there is no finding in *The Jakarta Post*. This suffix only attached to the verb words as showed in the table.

Table 1.5 The results of suffix *-ful*

NYT	
Basse	Derivative
Success(V)	Successful
Thank(V)	Thankful
Help(V)	Helpful

This suffix only attaches to the verb words and changes the meaning to become ‘full of or notable of.’ For example, *help* means ‘giving help or assistance; be of service’ becomes *helpful* ‘providing assistance or serving a useful function’. For the pattern is:

$$\text{Stem 1(V)} + \text{-ful} = \text{Stem 2 (Adj)}$$

e. **Suffix *-less***

Suffix *-less* has attached to the noun and adjective words. As represents in the table below:

Table 1.6 The results of suffix *-less*

NYT	
Base	Derivative
Home(N)	Homeless
Need(N)	Needless
Harm(Adj)	Harmless

It means that suffix *-less* can attach to both of the word classes. Thus, the patterns for this finding are:

1. **Stem 1(N) + *-less* = Stem 2 (Adj)**
2. **Stem 1(Adj) + *-less* = Stem 2 (Adj)**

Also, for the meaning, it gets changed. Suffix *-less* has a meaning ‘without’. When it is attached to the word, the meaning will change into ‘without X’. For example, *home* means a place or building where we live. After adding suffix, the meaning change into ‘*without a home*’ or a condition when there is a person who has no home. For the comparison of the finding in suffix *-less*, there is a slight deviation between *New York Times* and *The Jakarta Post*. It showed that there is no finding of suffix *-less* in TJP and 4 data in NYT.

**f. Suffix *-ly***

For suffix *-ly*, some of the words can be defined as an adjective and also adverb. But there are some words that only defined as an adjective. In this data, the words can be defined as adverbs also.

Table 1.7 The results of suffix *-ly*

NYT		TJP	
Basse	Derivative	Base	Derivative
Day(N)	Daily	Elder(N)	Elderly
Like(V)	Likely		
Dead(V)	Deadly		

These findings consist of a noun and verb words that are attached to suffix *-ly*. Thus, the patterns are:

1. **Stem 1 (N) + *-ly* = Stem 2 (Adj)**
2. **Stem 1 (V) + *-ly* = Stem 2 (Adj)**

Suffix *-ly* has the meaning of 'relating to'. The word *elder* means 'an aged person'. When added suffix *-ly* the meaning becomes 'relating to aged person'. For the comparison between NYT and TJP, it showed that NYT only found 3 data and NYT found 8 data.

**g. Suffix *-ous***

This finding showed that suffix *-ous* can attach to noun and verb words, as stated in the table below:

Table 1.8 The results of suffix *-ous*

NYT		TJP	
Base	Derivative	Base	Derivative
Suspicion(N)	Suspicious	Contagion(N)	Contagious
Contagion(N)	Contagious	Infect(N)	Infectious

Thus, the pattern for the findings is:

**Stem 1 (N) + *-ous* = Stem 2 (Adj)**

For the meaning, suffix *-ous* changed the meaning into ‘relating to, qualities of’. For example, *contagious* means ‘relating to the condition of a disease that can pass to other’. For the comparison, both of the news have a less tendency to use suffix *-ous*, with 2 data in NYT and 3 data in TJP.

**h. Suffix *-ic/-ical***

The last suffix that occurred in both news is *-ic/-ical*. In NYT, there are 2 allomorphs of suffix *-ic* that occurred which are *-ic* and *-ical*. While in TJP, only suffix *-ic* occurred.



Table 1.9 The results of suffix *-ic/-ical*

NYT		TJP	
Basse	Derivative	Base	Derivative
Apocalypse(N)	Apocalyptic	Specify(V)	Specific
Gene(N)	Genetic	Science(N)	Scientific
Type(N)	Typical		

For both news, the suffix *-ic* and *-ical* attached to noun and verb words.

Thus, the finding results two patterns for this suffix.

1. **Stem 1 (N) + *-ic/-ical* = Stem 2 (Adj)**
2. **Stem 1 (V) + *-ic* = Stem 2 (Adj)**

For the meaning, suffix *-ic* change the meaning into ‘relating to’. For example, *apocalyptic* means ‘relating to the final destruction or end of the world’. For the comparison, both of the news have a slight deviation. There are 3 data which used two allomorphs in NYT, while there are 4 data in NYT which only used suffix *-ic*.

## 2. Morphophonemic Change

This part provides the data of morphophonemic change that occurred in each news. This phenomenon found in the words that have affixation process, but not every word produced morphophonemic change inside. O’Grady and Guzman (1996) classifies morphophonemic change into ten which are, loss of phoneme, addition of phoneme, simple consonant change, stress shift, dissimilation, assimilation, change of syllabic vowel or diphthong, synthesis, gradation, and suppletion. The following table shows the number of morphophonemic changes that found in this research

Table 2.1 The results of morphophonemic change frequency

<b>Morphophonemic Change</b>	<b>Occurrences</b>			
	<b>NYT</b>	<b>%</b>	<b>TJP</b>	<b>%</b>
Loss of Phoneme	2	2,2%	-	0%
Addition of Phoneme	3	3,4%	5	9,1%
Simple Consonant Change	29	32,6%	18	32,7%
Stress Shift	18	20,2%	15	27,3%
Dissimilation	-	0%	-	0%
Assimilation	-	0%	-	0%
Change of Syllabic Vowel or Diphthong	25	28,1%	5	9,1%
Synthesis	-	0%	-	0%
Gradation	12	13,5%	12	21,8%
Suppletion	-	0%	-	0%
<b>Total</b>	<b>89</b>	<b>100%</b>	<b>55</b>	<b>100%</b>

Based on the data that shown in the table, the researcher found there are 89 data of morphophonemic change occurred in *New York Times* and 55 data in *The Jakarta Post*. The change which commonly occurred in both news is simple consonant change with 29 data (32,6%) in *New York Times* and 18 data (32,7%) in *The Jakarta Post*. This is due to the affixation process which increases the complexity of the morphophonemic process over time, for example in the structure of word formation, the most common structure is consonant-vowel-consonant (C-V-C) and suffixes which mostly appears first in vowels. This process generally results in morphophonemic changes in the final consonant phoneme after adding a suffix, one of the examples is ‘Genus’ /'dʒinəs/ becomes ‘General’ /'dʒenərəl/. This is why the simple consonant change gained the highest number in this study, because this process commonly affected the change of morphophonemic on the last consonant after adding by suffix.

The analysis will be shown of each change. The process of the change will be shown in the form of phonological rules by O’Grady (2016) to write the analysis systematically.

#### a. Loss of Phoneme

This change may appear on the base word or stem that loss the phoneme when the word added by suffix. The data are shown in the table as below:

Table 2.2 The results of loss of phoneme

Base	Derivative
Elect /ɪ'lekt/	Eligible /'ɛlɪdʒəbəl/

In those examples, both of the base words ended with /t/. After adding by the suffix, the /t/ lost in the derivative words. The process is written systematically in phonological rule.

$$/t/ \rightarrow \emptyset / \_\_ [+syllabic]$$

For the comparison of the finding, there are 2 data in NYT and no finding in TJP.

#### b. Addition of Phoneme

This morphophonemic change happened when there is addition in the word after adding suffix.

Table 2.3 The results of AOP in NYT

No.	Base	Derivative
1.	Conserve /kən'sɜrv/	Conservative /kən'sɜrvətɪv/
2.	Imagine /ɪ'mædʒən/	Imaginative /ɪ'mædʒənətɪv/
3.	Gene /dʒin/	Genetic /dʒə'nɛtɪk/

In these findings, there are two examples which have different suffix resulted different addition phoneme. First, the words that have added by suffix – *ive* have an addition that connected the end of base word and the suffix, that are /ə/ and /t/. For the second example, the word has added by suffix –*ic*, resulted the adding of /ɛ/ and /t/. for the process is stated below:

$$1. \quad \emptyset \rightarrow /ə/ + /t/ / \_\_ [+syllabic]$$

$$2. \quad \emptyset \rightarrow /ɛ/ + /t/ / \_\_ [+syllabic]$$

Table 2.4 The results of AOP in TJP

No.	Base	Derivative
1.	Represent /ˌreprəˈzent/	Representative /ˌreprɪˈzentətɪv/
2.	Specify /ˈspesəˌfaɪ/	Specific /spəˈsɪfɪk/
3.	Science /ˈsaɪəns/	Scientific /ˌsaɪənˈtɪfɪk/

Meanwhile in this news, there are 3 kinds of process of addition phoneme.

There are 2 words that have a same suffix, but resulted different phoneme which are:

1.  $\emptyset \rightarrow /ə/ + /t/ / \_\_ [+syllabic]$
2.  $\emptyset \rightarrow /k/ / [+syllabic] \_\_$
3.  $\emptyset \rightarrow /ɪ/ + /f/ / \_\_ [+syllabic]$

For the comparison, there are a slight deviation between NYT and TJP.

There are 3 data in NYT and 5 data in TJP, it shows that NYT has less tendency to use the process of addition of phoneme.

### c. Simple Consonant Change

This process happened when there is consonant change in a base or stem word when added by suffix.

Table 2.5 The results of SCC in NYT

No.	Base	Derivative
1.	Essence /ˈesəns/	Essential /ɪˈsenʃəl/
2.	Preference /ˈprefərəns/	Preferential /ˌprefəˈrenʃəl/
3.	Substance /ˈsʌbstəns/	Substantial /səbˈstænʃəl/
4.	Rus /rus/	Rural /ˈrʊərəl/

5.	Locus /'ləʊkəs/	Local /'ləʊkəl/
6.	Genus /'dʒɪnəs/	General /'dʒenərəl/
7.	Virus /'vaɪrəs/	Viral /'vaɪrəl/

The researcher divided the analysis based on the suffix. For this data, the data that have added by suffix –al is 7 data from 34. thus, the consonants that have changed is mostly alike. There are 3 kinds of pattern, which are:

1. /s/ → /ʃ/ / [+nasal] \_\_\_\_ [+syllabic]
2. /s/ → /l/ / [+syllabic] \_\_\_\_
3. /s/ → /r/ / [+syllabic] \_\_\_\_ [+syllabic]

For the next finding, the words have added suffix –able. There are 3 words and have 2 kinds of consonant change.

Table 2.5.1 The results of SCC by suffix –able

No.	Base	Derivative
1.	Elect /ɪ'lekt/	Eligible /'elɪdʒəbəl/
2.	Transmit /trænz'mɪt/	Transmissible /træns'mɪsəbəl/

The first consonant change is the change of /t/ into /s/. Because of the words are in between of vowel. The [+alveolar, +plosive] change into [+alveolar, +fricative]. The patterns are as stated below:

1. /t/ → /s/ / [+syllabic] \_\_\_\_ [+syllabic]
2. /k/ → /dʒ/ [+syllabic] \_\_\_\_ [+syllabic]

for the next finding is the words which have added by suffix –ous.

Table 2.5.2 The results of SCC by suffix –ous

No.	Base	Derivative
1.	suspicion /sə'spɪʃən/	Suspicious /sə'spɪʃəs/
2.	Contagion /kən'teɪdʒən/	Contagious /kən'teɪdʒəs/

Those words have a same consonant change, /n/ phoneme in the last stem that have added by suffix. Because of the words have a same first suffix. The end phoneme of the base word is /ən/, after adding by suffix –ous that sound /əs/, the change that happened is only the last phoneme, /n/ becomes /s/. the pattern is:

/n/ → /s/ / [+syllabic] \_\_\_\_

For the next is suffix –ive. The word is *comprehend* that changed into *comprehensive*.

Table 2.5.3 The results of SCC by suffix –ive

No.	Base	Derivative
1.	Comprehend /ˌkæmpri'hend/	Comprehensive /ˌkæmpri'hensɪv/

/d/ → /s/ / [+nasal] \_\_\_\_ [+syllabic]

The consonant is in between of [+alveolar, +nasal] word, /n/ and syllabic vowel. after adding by suffix, the phoneme /d/ becomes /s/ that has a same property as the phoneme before the suffix, /n/.

Table 2.5.4 The results of SCC by suffix –ic

No.	Base	Derivative
1.	Apocalypse /ə'pækə'lips/	Apocalyptic /ə'pækə'liptɪk/

For the next consonant change is the change of /s/ into /t/. this process happened in the word *apocalypse* after added by suffix –ic. On the other theory,

the suffix *-ic* is usually written as *-tic*, but Plag (2002) wrote it *-ic*. The process is written as:

**/s/ → /t/ / [+plosive] \_\_\_\_ [+syllabic]**

Table 2.6 The results of SCC in TJP

No.	Base	Derivative
1.	Substance /'sʌbstəns/	Substantial /səb'stænfəl/
2.	Office /'ɒfəs/	Official (2) /ə'fiʃəl/
3.	Essence /'esəns/	Essential /ɪ'senʃəl/
4.	Locus /'ləʊkəs/	Local /'ləʊkəl/
5.	Genus /'dʒɪnəs/	General /'dʒenərəl/

The researcher found 18 data of consonant change in *The Jakarta Post*, which attached to suffix *-al*, *-ible*, *-ic*, *-ive*, and *-ous*. In suffix *-al*, the consonant that has changed is /s/. The phoneme of /s/ changed into 3 kinds, /ʃ/, /l/, and /r/. Almost all the words change the phoneme /s/ into /ʃ/, but *latin* words has changed /s/ phoneme into another phoneme, /r/ and /l/.

1. /s/ → /ʃ/ / [+plosive] \_\_\_\_ [+syllabic]

2. /s/ → /l/ / [+plosive] \_\_\_\_ [+syllabic]

3. /s/ → /r/ / [+syllabic] \_\_\_\_ [+syllabic]



The next process happens in suffix *-ible*, the word *transmit* changed into *transmissible*.

Table 2.6.1 The results of SCC by suffix *-ible*

No.	Base	Derivative
1.	Transmit /trænz'mɪt/	Transmissible (2) /træns'mɪsəbəl/

The addition of suffix *-ible*, changed the /t/ into /s/. The word /t/ is in between of syllabic vowels. Both of the phoneme are [+alveolar], then change from /t/ [+plosive] into /s/ [+fricative]. It could be written as

/t/ → /s/ / [+syllabic] \_\_\_\_ [+syllabic]

Table 2.6.2 The results of SCC by suffix *-ic*

No.	Base	Derivative
1.	Science /'saɪəns/	Scientific /,saɪən'tɪfɪk/

In this process, the consonant change at the end of stem word. The /s/ sound is pronounced, but after the suffixation it change into /t/ sound. It can be written in the rule below

/s/ → /t/ / [+nasal] \_\_\_\_ [+syllabic]

Table 2.6.3 The results of SCC by suffix *-ive*

No.	Base	Derivative
1.	Extend /ɪk'stend/	Extensive /ɪk'stensɪv/

This process also changes the end of the stem after adding the suffix *-ive*, /d/ become /s/ in between nasal and syllabic environment. The process can be written as:

/d/ → /s/ / [+nasal] \_\_\_\_ [+syllabic]

Table 2.6.4 The results of SCC by suffix *-ous*

No.	Base	Derivative
1.	Contagion /kən'teɪdʒən/	Contagious (2) /kən'teɪdʒəs/
2.	Infect /ɪn'fekt/	Infectious /ɪn'fektʃəs/

This suffix *-ous* has 2 different consonants that changed, but both of the words change into fricative phoneme. As written in the rules:

1. /n/ → /s/ / [+syllabic] \_\_\_\_
2. /t/ → /ʃ/ / [+plosive] \_\_\_\_ [+syllabic]

For the comparison, there are 29 data in NYT and 18 data in TJP. It showed that TJP has less tendency to use the process of simple consonant change than NYT.

#### d. Stress Shift

This process is happened when the stress moves from the first syllable to the second or third syllable and vice versa. This process found almost in every suffix.

Table 2.7 The results of Stress Shift in NYT

No.	Base	Derivative
1.	Agriculture /ˈægrɪˌkʌltʃər/	Agricultural /ˌægrəˈkʌltʃərəl/
2.	Essence /ˈesəns/	Essential /ɪˈsenʃəl/
3.	Preference /ˈprɛfərəns/	Preferential /ˌprɛfəˈrɛnʃəl/
4.	Origin /ˈɔrɪdʒən/	Original /əˈrɪdʒənəl/
5.	Substance /ˈsʌbstəns/	Substantial /səbˈstænʃəl/
6.	Execute /ˈɛksəˌkjut/	Executive /ɪgˈzɛkjətɪv/

7.	Negate /nɪ'geɪt/	Negative /'nɛɡətɪv/
8.	Elect /ɪ'lekt/	Eligible /'elɪdʒəbəl

Table 2.8 The results of stress shift in TJP

No.	Base	Derivative
1.	Substance /'sʌbstəns/	Substantial /səb'stænʃəl/
2.	Office /'ɒfɪs/	Official /ə'fɪʃəl/
3.	Origin /'ɔrɪdʒən/	Original /ə'rɪdʒənəl/
4.	Essence /'esəns/	Essential /ɪ'senʃəl/
5.	Specify /'spesə, faɪ/	Specific /spə'sɪfɪk/
6.	Science /'saɪəns/	Scientific /,saɪən'tɪfɪk/
7.	Relate /rɪ'leɪt/	Relative /'relətɪv/
8.	Negate /nɪ'geɪt/	Negative /'nɛɡətɪv/

There are 2 kinds of processes in stress shift, the first syllable stress moves to the second syllable and the second syllable stress moves to the first syllable. But the most used is the first syllable stress moves to the second syllable. This process of stress shift cannot be written using phonological rules, because there is no changing of phoneme in the word. For the comparison, there is a slight deviation between 18 data in NYT and 15 data in TJP.

### e. Change of Syllabic vowel or Diphthong

This process change the syllabic vowel or diphthong because of the addition of suffix. The data written in the table as below:

Table 2.9 The results of CSVD in NYT

No.	Base	Derivative
1.	Agriculture /ˈægrɪˌkʌltʃər/	Agricultural /ˌægrəˈkʌltʃərəl/
2.	Nation /ˈneɪʃən/	National /ˈnæʃənəl/
3.	Computation /ˌkəmpjʊˈteɪʃən/	Computational /ˌkəmpjʊˈteɪʃənəl/
4.	Rus /rʊs/	Rural /ˈrʊərəl/
5.	Genus /ˈdʒɪnəs/	General /ˈdʒɛnərəl/
6.	Execute /ˈeksəˌkjʊt/	Executive /ɪgˈzekjʊtɪv/
7.	Equity /ˈekwəti/	Equitable /ˈekwətəbəl/
8.	Posse /ˈpasi/	Possible /ˈpɒsəbəl/
9.	Type /taɪp/	Typical /ˈtɪpɪkəl/
10.	Gene /dʒiːn/	Genetic /dʒiːˈnetɪk/

In this process, there are 3 kinds of change, vowel to vowel, diphthong to vowel, and diphthong to diphthong. Meanwhile, there are 4 kinds of process in *The Jakarta Post*.

Table 2.10 The results of CSVD in TJP

No.	Base	Derivative
1.	Nation /ˈneɪʃən/	National /ˈnæʃənəl/
2.	Genus /ˈdʒɪnəs/	General /ˈdʒɛnərəl/
3.	Specify /ˈspesəˌfaɪ/	Specific /spəˈsɪfɪk/
4.	Represent /ˌreprɛˈzent/	Representative /ˌreprɛˈzentətɪv/

5.	Authority /ə'θɔrə <u>t</u> i/	Authoritative /ə'θɔrə, <u>t</u> eɪtɪv/
----	----------------------------------	---

The researcher divides the changing into four types; vowel to vowel, diphthong to vowel, vowel to diphthong, and diphthong to diphthong. Each kind will be represented by an example, because of the changing is various and there are many examples. Even there is only an example that will be analyzed, but the pattern of the change is the same.

#### - Vowel to vowel

In this part, the vowel changes into vowel on the root or the stem. But, in this data the changing only happened in the root word. For example, *Computation* /,kəmpjə'teɪʃən/ becomes *Computational* /,kəmpju'teɪʃənəl/. The changing happened in the root word and change the syllabic vowel into another vowel. It can be applied in phonological rules as in:

/ə/ → /ʊ/ / [+approximant, +voiced] \_\_\_\_ [+plosive]

Another example is *Genus* /'dʒɪnəs/ becomes *General* /'dʒɛnərəl/. vowel /i/ changed into /ɛ/. It can be applied in phonological rules as in:

/i/ → /ɛ/ / [+affricate] \_\_\_\_ [+nasal]

#### - Diphthong to vowel

Another changing is diphthong to vowel that happened on the root or the stem. For example, *Specify* /'spesə, fai/ becomes *Specific* /spə'sɪfɪk/. The change of /ai/ into /i/ can be written in phonological rules

/ai/ → /i/ / [+fricative] \_\_\_\_ [+plosive]

### - Vowel to diphthong

This changing happened when vowel in the root word changed into diphthong after adding suffix. There is no example in *The Jakarta Post*, the researcher only found an example in *New York Times*. For example, *Authority* /ə'θɔrəti/ becomes *Authoritative* /ə'θɔrə,teɪtɪv/. Vowel /i/ changed into /ei/ as in phonological rules

$$/i/ \rightarrow /ei/ \text{ / [+plosive] } \_\_\_ \text{ [+plosive]}$$

### - Diphthong to diphthong

Same as vowel to vowel, diphthong changed into another diphthong. The researcher only found the same word on both news which is *Nation* /'neɪʃən/ becomes *National* /'næʃənəl/. it can be applied in phonological rules, as in

$$/ei/ \rightarrow /æ/ \text{ / [+nasal] } \_\_\_ \text{ [+fricative]}$$

## f. Gradation

Gradation happened when derivation process involves stress shift. It usually involves several vowel changes. There are 2 kinds of change, vowel that changed by losing stress and acquiring stress.

Table 2.11 The results of Gradation in NYT

No.	Base	Derivative
1.	Essence /'ɛsəns/	Essential /'ɛsɛnʃəl/
2.	Preference /'prɛfərəns/	Preferential /,prɛfə'renʃəl/
3.	Origin /'ɔrɪdʒən/	Original /'ɔrɪdʒənəl/
4.	Substance /'sʌbstəns/	Substantial /səb'stæʃənəl/
5.	Execute /'ɛksə,kjut/	Executive /'ɛg'zɛkjətɪv/

6.	Negate /nɪ'geɪt/	Negative /'nɛɡətɪv/
7.	Elect /ɪ'lekt/	Eligible /'elɪdʒəbəl

Table 2.12 The results of gradation in TJP

No.	Base	Derivative
1.	Substance /'sʌbstəns/	Substantial /səb'stænjəl/
2.	Office /'ɒfɪs/	Official /ə'fɪʃəl/
3.	Origin /'ɒrɪdʒən/	Original /ə'ɪrɪdʒənəl/
4.	Essence /'esəns/	Essential /ɪ'sɛnjəl/
5.	Specify /'spɛsəfaɪ/	Specific /spə'sɪfɪk/
6.	Relate /rɪ'leɪt/	Relative /'rɛlətɪv/
7.	Negate /nɪ'geɪt/	Negative /'nɛɡətɪv/

Each example involves losing and acquiring stress, thus the analysis divides into vowel change resulting from losing stress and acquiring stress. The researcher will take some examples to be analysis, because of each data has a same pattern of change. For example, *Essence* /'esəns/ becomes *Essential* /ɪ'sɛnjəl/ in *New York Times*. there are 2 kinds of change, vowel that losing stress and acquiring stress. For the first pattern, it can be applied in phonological rules as in,

$$/ɛ/ \rightarrow /I/ \text{ / } \_\_\_ \text{ [+fricative, -voiced] }$$

the second change is /ə/ becomes /ɛ/, it can be written as in,

$$/ə/ \rightarrow /ɛ/ \text{ / } \text{ [+fricative, -voiced] } \_\_\_ \text{ [+nasal, +voiced] }$$

another example from the data in *The Jakarta Post* is *Substance* /'sʌbstəns/ added by suffix-al becomes *Substantial* /səb'stænʃəl/. the first vowel change in the stem caused by the losing stress, /ʌ/ becomes /ə/ as in,

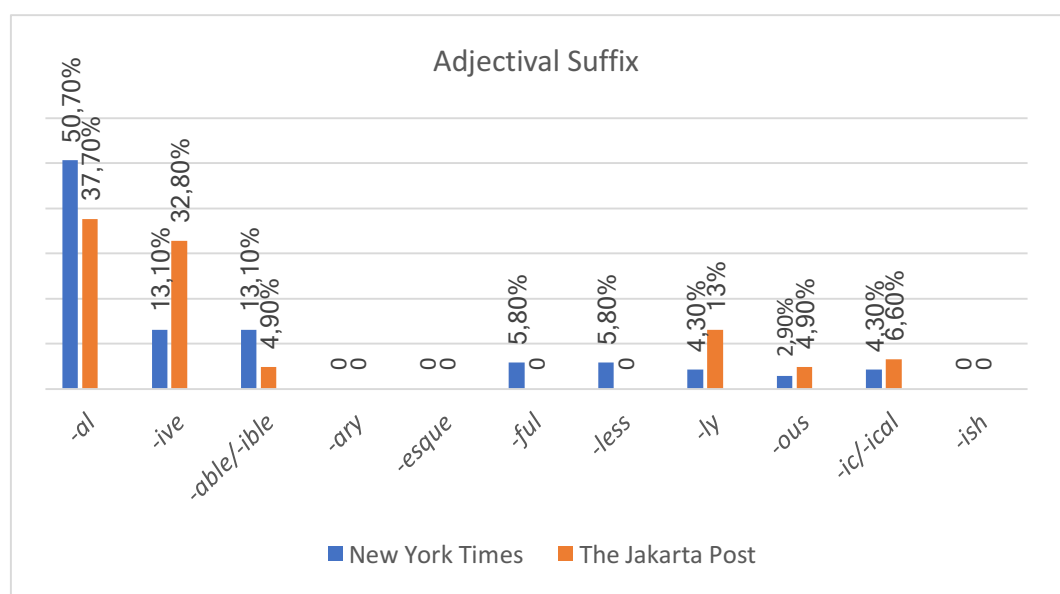
/ʌ/ → /ə/ / [+fricative, -voiced] \_\_\_\_ [+plosive, +voiced]

the other vowel change caused by acquiring stress, /ə/ becomes /æ/ as in,

/ə/ → /æ/ / [+plosive, -voiced] \_\_\_\_ [+nasal, +voiced]

## B. Discussion

This study focuses on the morphophonemic change on adjectival suffixes that occurred in five titles news in *New York Times* and *The Jakarta Post*, and also how the process of morphophonemic change by O'Grady and Guzman (1996) happened. This discussion found that not all kinds of adjectival suffixes that proposed by Plag (2002) were used in this study. According to Plag, there are 11 kinds of adjectival suffixes, which are *-al*, *-ive*, *-able/-ible*, *-ary*, *-esque*, *-ful*, *-less*, *-ly*, *-ous*, *-ic/-ical*, and *-ish*.



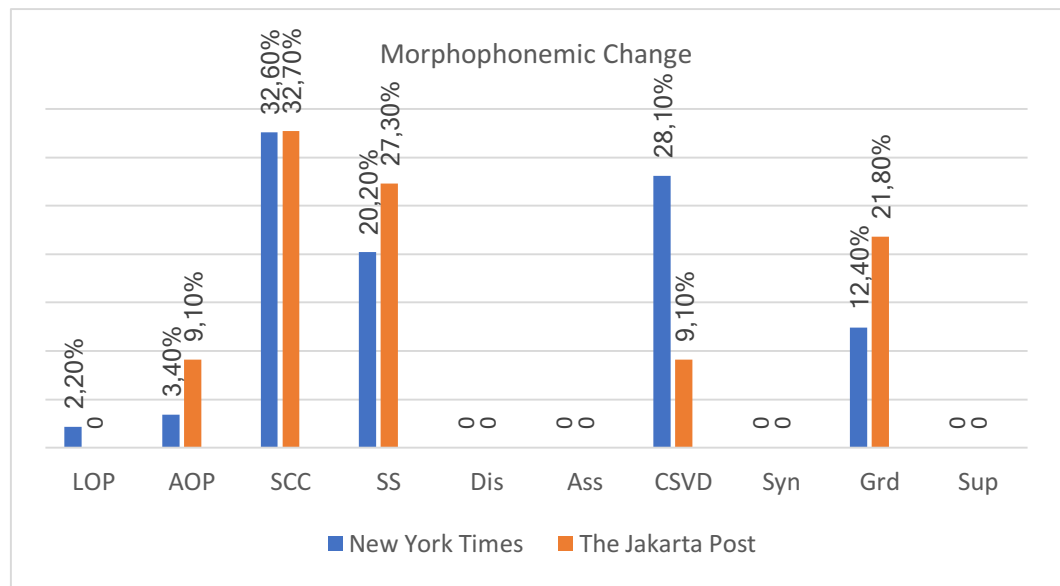


From the chart, we can know the frequency of adjectival suffixes in both news. We can conclude that suffix *-al* is the most frequently used in both news, with 50,7% in New York Times and 37% in The Jakarta Post. It is affected by the connection of health topic words and suffix *-al* which has a meaning of ‘relating to, process of, or an action’ according to Plag (2002). So, that the suffix *-al* is the most used, because of it has the most relate meaning to the use of health terms in this covid news.

Adjectival suffix itself needs root to be attached. In this study, the researcher found there are some root words to which adjectival suffix can attach. In both news, the researcher found a similarity that the root words are the same. Word classes to which adjectival suffix can attach are Noun, Verb, and also Adjective. Three of those words make each pattern in derivation process.

1. **Stem 1(N) + Adjectival suffix = Stem 2(Adj)**
2. **Stem 2(V) + Adjectival suffix = Stem 2(Adj)**
3. **Stem 3(Adj) + Adjectival suffix = Stem 2(Adj)**

On the other side, the process of morphophonemic change is also happened, because of the addition of morpheme that changed the phoneme of the word. As stated in the chart below



From the chart, we can know that the most frequently used in both news are simple consonant change. With 34% in New York Times and 32,7% in The Jakarta Post.

O'Grady and Guzman (1996) divided morphophonemic change into 10 kinds which are, loss of phoneme, addition of phoneme, simple consonant change, stress shift, dissimilation, assimilation, change of syllabic vowel or diphthong, synthesis, gradation, and suppletion. From the finding in NYT, there are only 6 kinds of morphophonemic change which are loss of phoneme, addition of phoneme, simple consonant change, stress shift, change of syllabic vowel or diphthong, and gradation. In addition, there are 5 kinds in TJP which are, addition of phoneme, simple consonant change, stress shift, change syllabic vowel or diphthong, and gradation. From

Loss of phoneme occurs when there are one or more phonemes that normally present than missing after the addition of affixation. There are 6 data (6,2%) in NYT and there is no finding in TJP. The process written in

phonological rules to make it systematically, such as Elect /ɪ'lɛkt/ becomes Eligible /'ɛlɪdʒəbəl/. The loss of /t/ in the stem could be written /t/ → Ø / \_\_\_\_

**[+syllabic]**

Addition of phoneme happens when one or two allomorphs of a morpheme lacks one or more phonemes which are present in the other. There are 3 data (3,1%) in NYT and 5 data (9,1%) In TJP. One of the examples is Specify /'spɛsə,fai/ becomes Specific /spə'sɪfɪk/. The change can be written as Ø → /k/ **[+syllabic]** \_\_\_\_

Simple consonant change is normally changed the final consonant of the stem. With 33 data (34%) in NYT and 18 data (32,7%) in TJP. Which mean, this change is the commonly used of morphophonemic change in each news. One of the examples is Science /'saɪəns/ becomes Scientific /,saɪən'tɪfɪk/. The suffixation changes the /t/ sound as in, /s/ → /t/ / **[+nasal]** \_\_\_\_ **[+syllabic]**.

Stress shift is the moving process of the intensity to the other sound. There are 18 data (18,5%) in NYT and 15 data (27,3%) in TJP. One of the examples from the data is Essence /'ɛsəns/ becomes Essential /ɪ'senʃəl/. The stress moves from the first syllable to the second syllable. This process cannot be applied in phonological rules, because there is no changing of the phoneme.

Change of syllabic vowel or diphthong is the simple process that is very prevalent in English, it is the changing of syllabic vowel or diphthong after the addition of affixation. There are 25 data (25,8%) in NYT and 5 data (9,1%) in TJP. The researcher divided the types of changing into four types, those are vowel to vowel, vowel to diphthong, diphthong to vowel, and diphthong to diphthong.

The changing from vowel - diphthong and diphthong - vowel mostly happen because the changed of the environment; as manner and place of articulation which surround the vowel. Also, when the word ended in vowel while the suffix is also started with a vowel, it will affect the changing of vowel. For example, Specify /'spesə,faɪ/ becomes Specific /spə'sɪfɪk/. The /aɪ/ has added by suffix -ic, and changed into /ɪ/. The changing is affected by the changing of the environment, which means the adding consonant /c/ in the end of word, and the word which ended in vowel; the suffix which started in vowel. The process can be written as /aɪ/ → /ɪ/ / [+fricative] \_\_\_\_ [+plosive].

Meanwhile the changing from vowel - vowel and diphthong - diphthong happened in center of the word not in the position that has added by suffix, also the word has ended with a consonant when the suffix is started with vowel, vice versa. Unlike the previous pattern, this process mostly has no environment changed which surround. For example, Genus /'dʒɪnəs/ becomes General /'dʒenərəl/. The changing happened in the center of the word and the rule can be written as /i/ → /ɛ/ / [+affricate] \_\_\_\_ [+nasal].

Gradation is the process of vowel change that caused by the process of stress shift, but there are some cases that not affected the vowel. There are 12 data (12,4%) in NYT and 12 data (21,8%) in TJP. The researcher divided the analysis into 2 kinds, the changing by losing stress and acquiring stress. For example, Substance /'sʌbstəns/ added by suffix-al becomes Substantial /səb'stænfəl/. The first vowel change in the stem caused by the losing stress, /ʌ/ becomes /ə/ as in,

/ʌ/→/ə/ / [+fricative] \_\_\_\_ [+plosive]. The other vowel change caused by acquiring stress, /ə/ becomes /æ/ as in, /ə/→/æ/ / [+plosive] \_\_\_\_ [+nasal].

However, there are similarities and differences between the findings of this study and previous studies. Regardless in the used of different theory, Ristiani (2015) also found stress shift, and consonant and vowel change in the process of nominalization. Although the morphological process which being analyzed is different, but the process of morphophonemic that mostly found are the same. In Rizkinauli (2019), the study focused on the morphological process of agentive nouns, especially on the base word and its related meaning. This study also tends to look for the base word and related meaning of the base word which can be attached by the adjectival suffix.

Also, in Mahendra, Indrawati, and Aryawibawa (2017) used the same theory of Plag (2002). The result showed that there were found adjectival suffix that divided into 2 types of class-changing suffix as in this study and class-maintaining suffix. Then in Khasanah, Adis, Rukayah, Vesakha, and Permana (2017) they also focused on derivational suffix and found 4 types of derivational suffix, noun-forming suffix, adjective-forming suffix, verb-forming suffix, and adverb-forming suffix. Although the focus is same, but they did it more general and this study tries to focus on adjectival suffix.

On the other hand, some points of the finding in this study also indicate the differences with the previous studies. Dewi, Indrayani, and Soemantri (2020) did the analysis of morphophonemic, but the findings were divided the morphemic and phonemic on each part. It is different with this study, which focuses on

morphophonemic about the changing of phoneme because of the merging of two morphemes.

Meanwhile Sitohang (2016) analyzed the same morphophonemic process with this study, but Sitohang only focused on assimilation process. It seems different with this study that has no finding on assimilation process. On another discussion, Wahyutriyuni, Suarnajaya, and Agustini (2017) discussed the same morphophonemic with this study. But, they used a different theory from Nida (1949) and found there were 5 processes of morphophonemic, which were assimilation, loss of consonant phoneme, loss of vowel, palatalization, and nasalization. Loss of consonant phoneme and loss of vowel were called loss of phoneme in O'Grady and Guzman (1996). Also, there are no palatalization and nasalization in O'Grady and Guzman's theory. So, there is no finding of assimilation, palatalization, and nasalization in this study, because of the using of different theory.

Other differences also found in morphological aspect in existing studies (Shangrela, 2020; Ampa, Basri & Ramdayani, 2019; Umami, 2021). Those previous studies focused on morphological process in a big circle, which were classifying the affixation process that found. It seemed general, so in this study the researcher focuses the analysis on adjectival suffixes which are found in New York Times and The Jakarta Post.

## CHAPTER IV

### CONCLUSION AND SUGGESTION

This chapter provides the results of this study, based on the findings and discussion. This chapter aims to answer research questions from the previous chapter in this study based on the data that have been analyzed using the theories of adjectival suffix from Ingo Plag (2002) and morphophonemic theory from O’Grady and Guzman (1996). In addition, the suggestion is given to help the next researchers improve their research.

#### A. Conclusion

According to the results of findings and discussion in the previous chapter, this study found that *New York Times* has more tendency to use the adjectival suffix. It is known from the finding, that the finding of adjectival suffixes in *New York Times* is more various than *The Jakarta Post*. From 5 titles in each news and 11 kinds of adjectival suffixes, there are 8 kinds of adjectival suffixes in *New York Times* and 6 kinds in *The Jakarta Post*.

The researcher also found a similarity that the root words that can be attached by adjectival suffixes are the same. Word classes to which adjectival suffix can attach are Noun, Verb, and also Adjective.

For morphophonemic change, *New York Times* is also used various processes. From 10 types of morphophonemic change by O’Grady, there are 6 types in *New York Times*, those are loss of phoneme, addition of phoneme, simple consonant change, stress shift, change of syllabic vowel or diphthong, and

gradation. Meanwhile in *The Jakarta Post*, there are 5 types of morphophonemic change, those are addition of phoneme, simple consonant change, stress shift, change of syllabic vowel or diphthong, and gradation. From the finding, we can know that The Jakarta Post has less tendency to use the process, on the other hand, New York Times uses more processes than The Jakarta Post in the writing process.

This study also found the adjectival suffix that commonly used in both news is suffix *-al*. In addition, morphophonemic change that commonly used in both news is simple consonant change.

## **B. Suggestion**

This study focuses to find morphophonemic change on adjectival suffixes, in this case, it is possible for the future researcher to analyze using another phonological process and morphological process. This study also focuses collecting the data from written text in online news, which is free and easy to access. This data might have lacked and need to enlarge, so the researcher suggests the future research to collect the data from audio-text and being comparing to written text data. It will make the study more complex.

The last suggestion, the researcher in this study only use corpus tool as the instrument, in order to get the more complex research if use corpus as the method in the future research. It will make the researcher easier to analyze and collecting the data.



## REFERENCES

- Akmajian, Adrian, Richard A. Demers, and Robert M. Harnish. (1984). *Linguistics: An Introduction to Language and Communication Second Edition*. Cambridge: The MIT Press.
- Ampa, A. T., Muhammad Basri, D., & Ramdayani, S. (2019). A Morphophonemic Analysis on The Affixation in The Indonesian Language. *International Journal of Scientific & Technology Research*, 8(7).
- Baker, Paul. (2010). *Corpus Methods in Linguistics. Research Methods in Linguistics*. New York: Continnum International Publishing Group.
- Booij, G. (2012). *The grammar of words: An introduction to linguistic morphology*. Oxford University Press.
- Crabtree, M., Powers, J., & Ohio State University. (1991). *Language files: Materials for an introduction to language*. Columbus: Ohio State University Press.
- Chaer, A. (2008). *Morfologi Bahasa Indonesia*. Jakarta. PT: Rineka Cipta.
- Cresswell, J.W. (2014). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches (4<sup>th</sup> ed.)*. London: Sage Publications.
- Crystal, D. (2008). *A Dictionary of Linguistics and Phonetics*. Miami: Blackwell Publishing.
- Dewi, O. C., Indrayani, L. M., & Soemantri, Y. S. (2020). The Morpho-Phonemic Processes in Indonesian Advertisement's Slogans. *Celtic: A Journal of Culture, English Language Teaching, Literature and Linguistics*, 7(2), 151-162.
- Fromkin, V. (2000). *Linguistics: An introduction to linguistic theory*. Malden, Mass: Blackwell.
- Gadsby, A. (2000). *Longman Dictionary of American English*. England: Pearson Education Limited.
- Gunawan, I. M. Y., Kodong, F., & Lasut, T. M. (2019). Proses Morfofonemik Dalam Bahasa Inggris Dan Bahasa Bali (Suatu Analisis Kontrastif). *Jurnal Elektronik Fakultas Sastra Universitas Sam Ratulangi*, 7.

- Katamba, F. (1989). *An introduction to phonology* (Vol. 48). London: Longman.
- Katamba, Fromkin. (1994). *Morphology*. Chatman, Kent: Mackay of Chatman PLC.
- Kelly, Gerald. (2000). *How to Teach Pronunciation*. England: Pearson Education Limited.
- Khasanah, H. U., Adis, E. D., Rukayah, D., Vesakha, M., & Permana, T. (2017). Derivational Morphology in English Language. *JOSAR (Journal of Students Academic Research)*, 2(1), 48-60.
- Lieber, Rochele. (2009). *Introducing Morphology*. New York: Cambridge University Press.
- Lyons, J. (1968). *Introduction to theoretical linguistics* (Vol. 510). Cambridge university press.
- Mahendra, I. K. D., Indrawati, N. L. K., & Nyoman, I. (2017). Derivational English Suffixes with Reference to the Jakarta Post. *Jurnal Humanis, Fakultas Ilmu Budaya Unud*, 19 (1): 45-51.
- McArthur, T., & Macarthur, T. (1998). *The English Languages*. Cambridge University Press.
- McMahon, April. (2002). *An Introduction to English Phonology*. Edinburgh: Edinburgh University Press.
- Moleong, L. J. (2007). *Metodologi Penelitian Kualitatif*. Bandung: PT. Remaja Rosdakarya.
- O'Grady, W., & Guzman, V. P. (1996). *Morphology: The Analysis of Word Structure*. In W. O'Grady, F. Katamba, & M. Dobrovolsky, *Contemporary Linguistics: An Introduction* (pp. 132-173). Edinburgh: Longman Pearson Education Ltd.
- O'Grady, William and de Guzman videa P. (1980). *Contemporary Linguistics*. New York: St. Martin's Press
- O'Grady, William, John Archibald, Mark Aronoff, and Janie Rees-Miller. (2005). *An Introduction to Contemporary Linguistics Fifth Edition*. New York: Bedford/ St. Martin's Press.

- O'grady, W., & Archibald, J. (2015). *Contemporary linguistic analysis: An introduction*. Pearson Canada.
- Plag, I. (2002). *Word-Formation in English*. Cambridge: Cambridge University Press.
- Raharjo, Mudjia. (2020). *Pengantar Metodologi Penelitian Studi Kasus Metode Campuran (Mixed Method), Penelitian dan Pengembangan (R&D)*. CV Mazda Media Publishing. Malang.
- Ramlan. (1985). *Morphology: Suatu Tinjauan Deskriptif*. Yogyakarta: CV. Karyono.
- Ristiani, O. (2015). *Nominalization and Morphophonemic Process in the English Words Attached by Suffix-ion*. Thesis. Yogyakarta: Universitas Sanata Dharma.
- Rizkinauli, F. (2019). *Morphological Processes of The Derivational Suffixes {-Er} And {-Ist} In Agentive Nouns*. Thesis. Yogyakarta: Universitas Sanata Dharma.
- Sibarani, Robert. (2002). *An Introduction to Morphology*. Medan: PODA.
- Sitohang, C. S. (2016). *Morphophonemic Process Found in Selected Motivational Short Stories*. Thesis. Medan: Universitas Sumatera Utara.
- Sukarsono. (2009). *Morphology*. Tulungagung: Tiara Press.
- Umami, N. (2021). *An Analysis of Morphological and Morphophonemic Process of Alay Variation in The Comments of Boy William Instagram Account*. Thesis. Salatiga: Institut Agama Islam Negeri Salatiga.
- Wahyutriyuni, K., Suarnajaya, I. W., & Agustini, D. A. E. (2018). The Morphophonemic Change of Borrowed English Words in Info Komputer Magazines. *Jurnal Pendidikan Bahasa Inggris undiksha*, 5(2).
- Wardough, Ronald. (1977). *Introduction to Linguistics (2<sup>nd</sup> Ed)*. New York: Mc.Graw – Hill Book Company.
- Yule, G. (2010). *The Study of Language*. United States of America: Cambridge University Press.
- Zubaidi, N. (2013). *Realisasi Keluhan Oleh Pembelajar Asing Bahasa Indonesia: Kajian Pragmatik Bahasa Antara (Interlanguage Pragmatics)*. (Dissertation, Gadjah Mada University, Yogyakarta, Indonesia).

## CURRICULUM VITAE



**Faradannisa Putri Kinasih** was born in Malang on September 1, 1999. She graduated from SMA Negeri 9 Malang on 2016. She started her higher education on 2017 at English Literature Department in UIN Maulana Malik Ibrahim Malang and finished her study on 2021. During her study, she had participated PIONIR IX 2019 in UIN Malang as Liaison Officer (LO) of English debate competition and also became E-Buddy tutor in English Literature Department for 2 periods.

# APPENDIX

## Screen capture of Lancsbox 5.1.2

### 1. Suffix *-al*

The screenshot shows the Lancsbox 5.1.2 interface. The search bar at the top contains the query *al*. The results are displayed in a table with columns: Index, File, Left, Node, Right, and Display Text. The search results are filtered to show only files containing the suffix *-al*. The table shows 30 results, with the first 10 rows visible. The text in the 'Left' column is truncated, and the 'Right' column shows the corresponding text from the source files. The 'Node' column shows the part of speech (POS) for each word.

Index	File	Left	Node	Right	Display Text
3	2-NYT.txt	toward hard-to-reach segments of the population (like	rural	residents or homeless people), or to people	
4	2-NYT.txt	Jacinto Mountains is best known for an	annual	music festival that draws 100,000 fans a	
5	2-NYT.txt	from Purdue University estimate that about 500,000	agricultural	workers have tested positive for the virus	
6	2-NYT.txt	navigate and the hours-long waits that were	typical	at mass vaccination sites. Once they agreed	
7	2-NYT.txt	Desert Healthcare District. In March 2020, the	federal	government designated farmworkers as essential— a status	
8	2-NYT.txt	2020, the federal government designated farmworkers as	essential-	a status that enabled them to continue	
9	2-NYT.txt	Disease Control and Prevention has advised giving	agricultural	workers early access to the vaccine, but	
10	2-NYT.txt	remain. Most have not yet started vaccinating	several	workers, though many have identified them as	
11	2-NYT.txt	more than half under 44. In California,	agricultural	counties hope in March to expand eligibility	
12	2-NYT.txt	March to expand eligibility to the entire	several	work force. Colorado, Idaho, Michigan and Wisconsin	
13	2-NYT.txt	of the large meatpacking industry, people without	legal	status will be vaccinated last, officials said	
14	2-NYT.txt	of health policy at Farmworker Justice, a	national	advocacy organization. Gov. Gavin Newsom, after a	
15	2-NYT.txt	farmworkers in the Central Valley, the state's	agricultural	hearland. "What this county has done no	
16	2-NYT.txt	hours in the parking lot of a	local	middle school. David Huettner, 73, said those	
17	2-NYT.txt	reading the main story "We have a	moral	responsibility to make sure that we do	
18	2-NYT.txt	Ruiz, a Democrat, who has been visiting	rural	communities to encourage residents to get vaccinated.	
19	2-NYT.txt	not safe, because disinformation has proliferated on	social	media. Others fear that being vaccinated could	
20	2-NYT.txt	most of the workers raised their hands.	several	know someone who had died. ADVERTISEMENT Continue	
21	2-NYT.txt	there's a cure?" But after the talk,	preferential	workers returned to the fields to harvest	
22	2-NYT.txt	she could not remember undocumented immigrants getting	rural	treatment for anything in her 21 years	
23	3-NYT.txt	In This County, Everybody is Eligible The	general	area outside Phoenix is one of the	
24	3-NYT.txt	U.S. to open vaccinations up to the	federal	public. This is what success looks like. * * * * *	
25	3-NYT.txt	supplies to the most vulnerable first. The	general	Centers for Disease Control and Prevention recommended	
26	3-NYT.txt	United States to open eligibility to the	municipal	population, offering a glimpse of what vaccination	
27	3-NYT.txt	now," said Gina Paul, 53, a retired	social	clerk who was getting her second dose	
28	3-NYT.txt	as well as resistance to mask-wearing and	rural	distancing measures, among some people in the	
29	3-NYT.txt	Went to the F.B.I. Image Unlike some	local	counties, Gila County has hospitals in Globe,	
30	3-NYT.txt	the virus could surge again worries some	essential	officials. "I don't want people to think	

The screenshot shows the Lancsbox 5.1.2 interface. The search bar at the top contains the query *al*. The results are displayed in a table with columns: Index, File, Left, Node, Right, and Display Text. The search results are filtered to show only files containing the suffix *-al*. The table shows 29 results, with the first 10 rows visible. The text in the 'Left' column is truncated, and the 'Right' column shows the corresponding text from the source files. The 'Node' column shows the part of speech (POS) for each word.

Index	File	Left	Node	Right	Display Text
1	1-TJP.txt	body of evidence that the vaccine— which	several	countries have advised against giving to over-65s—	
2	1-TJP.txt	either (Pfizer) or (AstraZeneca) vaccine resulted in	substantial	reductions in the risk of Covid-19-related hospitalisation	
3	1-TJP.txt	at the London School of Hygiene and	Tropical	Medicine, said the results "provide further evidence	
4	1-TJP.txt	have insisted since the results of Phase-III	clinical	trials that their vaccine is safe and	
5	1-TJP.txt	and effective among people aged over 65,	several	countries currently advise against administering it to	
6	1-TJP.txt	hospital and so reducing risk of death".	Official	data released Monday showed that both the	
7	2-TJP.txt	Kingdom, exactly one year after Indonesia's first	local	cases were discovered— making the country's battle	
8	2-TJP.txt	of the outbreak, accelerate research and expand	analytical	epidemiology studies. "This means that we'll be	
9	2-TJP.txt	on where these cases were detected, but	national	Covid-19 task force spokesperson Wiku Adisasmito told	
10	2-TJP.txt	Adisasmito told The Jakarta Post that an	official	statement would be issued later. Citing several	
11	2-TJP.txt	official statement would be issued later. Citing	several	studies, British scientists have said it was	
12	2-TJP.txt	Brazil. Interactive content by Flourish In	general,	currently available vaccines were believed to still	
13	2-TJP.txt	"The best strategy, assuming there's still no	social	mutation, is to carry out surveillance in	
14	2-TJP.txt	enough to only mandate hand-washing, mask-wearing and	clinical	distancing without limiting mobility, and at the	
15	3-TJP.txt	health experts said Tuesday they are halting	additional	trials of convalescent blood plasma in patients	
16	3-TJP.txt	placebo. Doctors looked at how many needed	medical	care or outright hospitalization, or who died,	
17	3-TJP.txt	out in India and published in the	medical	journal BMJ said the treatment offered limited	
18	4-TJP.txt	a mass rollout that is seen as	vital	taming one of the world's worst	
19	4-TJP.txt	the AstraZeneca vaccine, Jonathan Van-Tam, deputy chief	medical	officer for England, said the results "vindicated"	
20	4-TJP.txt	a plan for life to return to	normal	by the end of June. The latest	
21	5-TJP.txt	growing body of "evidence of coloniality in	global	health research and decision-making". Researchers analysed more	
22	5-TJP.txt	published in the 10 leading health and	medical	journals between January 1 and September 30,	
23	5-TJP.txt	"Health policy is not only informed by	original	research; sensible, contextually appropriate guidelines, opinions and	
24	5-TJP.txt	appropriate guidelines, opinions and commentary are also	original	to improving the functioning of healthcare systems,"	
25	5-TJP.txt	especially true during times of surge, when	original	research can be challenging to produce in	
26	5-TJP.txt	and research are needed to guide the	local	pandemic response," they concluded. The authors called	
27	5-TJP.txt	their studies are more representative of the	global	population. "The time has come that authoritative	
28	5-TJP.txt	to turn to authors and ask where	local	representation is on papers describing health systems	
29	5-TJP.txt	African countries produced three percent of the	global	share of Covid-19 publications during this period.	

## 2. Suffix *-ive*

lancsbox #LancsBox 5.1.2

KWIC GraphColl Wheel Words Ngrams Text Wizard

Corpora KWIC: (/.\*ive/i)/.\*j/i

Search (/.\*ive/i)/.\*j/i Occurrences 11 (16.11) Texts 5

Index	File	Left	Node	Right
1	1-NYT.txt	be. All three authorized vaccines are highly	protective,	and the differences among them pale in
2	2-NYT.txt	the workers tested for the virus had	positive	results. The Rev. Francisco Gómez at Our
3	2-NYT.txt	that about 500,000 agricultural workers have tested	positive	for the virus and at least 9,000
4	2-NYT.txt	we were making plans," said Janell Percy,	executive	director of Growing Coachella Valley, a farmer
5	2-NYT.txt	that they prioritized farmworkers- they developed a	comprehensive,	innovative strategy to ensure vaccine access and
6	2-NYT.txt	they prioritized farmworkers- they developed a comprehensive,	innovative	strategy to ensure vaccine access and acceptance
7	2-NYT.txt	chip to track you; there is no	negative	effect; you don't lose your fertility," Montserrat
8	3-NYT.txt	measures, among some people in the deeply	conservative	county, where President Biden lost by 34
9	3-NYT.txt	officials say they also adopted a more	imaginative	approach to vaccinations, especially after Gila County
10	4-NYT.txt	decide a course of treatment. It was	negative	for cancer. The vaccine had most likely
11	5-NYT.txt	Eek mutation renders the current vaccines less	effective	by blunting the body's immune response. (The

lancsbox #LancsBox 5.1.2

KWIC GraphColl Wheel Words Ngrams Text Wizard

Corpora KWIC: (/.\*ive/i)/.\*j/i

Search (/.\*ive/i)/.\*j/i Occurrences 26 (88.80) Texts 4/5

Index	File	Left	Node	Right
1	1-TJP.txt	AstraZeneca vaccine	effective	in over-80s: study PATRICK GALEY AGENCE FRANCE-PRESSE
2	1-TJP.txt	appears to be more than 80 percent	effective	at preventing severe illness among elderly, at-risk
3	1-TJP.txt	giving to over-65s-- is both safe and	effective	in older people. Researchers at the University
4	1-TJP.txt	patients were tested for Covid-19, and the	positive	and negative cases were separated into two
5	1-TJP.txt	tested for Covid-19, and the positive and	negative	cases were separated into two data groups.
6	1-TJP.txt	nine of the 36 (25 percent) Covid-19	positive	patients had received the AstraZeneca jab. Among
7	1-TJP.txt	received the AstraZeneca jab. Among the Covid-19	negative	patients, 13 out of 90 (18.9 percent)
8	1-TJP.txt	jab. The difference between the proportion of	positive	and negative cases who had received a
9	1-TJP.txt	difference between the proportion of positive and	negative	cases who had received a single vaccine
10	1-TJP.txt	Pfizer vaccine, 18 out of 245 Covid-19	positive	patients had received a single dose, compared
11	1-TJP.txt	compared to 90 of the 269 Covid-19	negative	among people aged over 65, several countries
12	1-TJP.txt	Covid-19-related hospitalisation in elderly, frail patients with	extensive	co-morbid disease," the authors said. Stephen Evans,
13	1-TJP.txt	"provide further evidence that the vaccines are	effective	both in an older age group less
14	1-TJP.txt	trials that their vaccine is safe and	effective	among people aged over 65, several countries
15	1-TJP.txt	in January that the AstraZeneca jab was	quasi-ineffective	among over-65s. Only around a quarter of
16	1-TJP.txt	the Pfizer vaccine are both roughly equally	effective	at keeping elderly and frail people out
17	1-TJP.txt	AstraZeneca/Oxford and the Pfizer vaccine were "highly	effective"	in reducing infections and severe illness among
18	2-TJP.txt	insufficient equipment and high costs for processing	positive	samples to determine the complete DNA sequence
19	4-TJP.txt	Pfizer and AZ Covid jabs "highly	effective"	in elderly: UK study NEWS DESK AGENCE
20	4-TJP.txt	Pfizer and Oxford-AstraZeneca vaccines have been "highly	effective"	in reducing coronavirus infections and severe illness
21	4-TJP.txt	either vaccine is more than 80 percent	effective	at preventing hospitalisation around three to four
22	4-TJP.txt	Pfizer," he added. Both vaccines "are highly	effective	in reducing COVID-19 infections among older people
23	4-TJP.txt	Monday. The number of Covid admissions to	intensive	care units among people aged over 80
24	5-TJP.txt	the authors of the study said the	relative	lack of research on Africa or authored
25	5-TJP.txt	play in ensuring their studies are more	representative	of the global population. The time has
26	5-TJP.txt	global population. The time has come that	authoritative	journals need to turn to authors and

Filtering complete

## 3. Suffix *-able/-ible*

lancsbox #LancsBox 5.1.2

KWIC GraphColl Wheel Words Ngrams Text Wizard

Corpora KWIC: (/.\*able/i)/.\*j/i

Search (/.\*able/i)/.\*j/i Occurrences 16 (23.43) Texts 4/5

Index	File	Left	Node	Right
1	1-NYT.txt	vaccine be distributed equitably. Will I be	able	to choose which vaccine I receive? That's
2	2-NYT.txt	got word vaccines were going to be	available,	we were making plans," said Janell Percy,
3	2-NYT.txt	their immigration status. The odds of being	able	to sign up for a vaccine online
4	2-NYT.txt	urban areas because they do not have	reliable	transportation or the ability to leave work
5	2-NYT.txt	eligible for vaccines, have turned away immigrants	unable	to show a Social Security number. In
6	2-NYT.txt	announced that California would make 34,000 vaccines	available	to farmworkers in the Central Valley, the
7	2-NYT.txt	snagged appointments for vaccines through the process	available	to most California residents- mainly over 65-
8	2-NYT.txt	wheelchairs in his retirement community had been	unable	to reach vaccination events like this one.
9	2-NYT.txt	retired waitress who had still not been	able	to sign up for a vaccine, questioned
10	2-NYT.txt	everywhere are grappling with how to achieve	equitable	vaccine distribution. President Biden has repeatedly said
11	2-NYT.txt	town of Winchester. "The vaccine is now	able	for you," she said. "Many people wish
12	2-NYT.txt	take the vaccine; that way, I'll be	able	to keep working." Two rows over, America
13	3-NYT.txt	or target scarce supplies to the most	vulnerable	first. The federal Centers for Disease Control
14	3-NYT.txt	lines in Gila County said they were	able	to open up vaccinations for all adult
15	3-NYT.txt	was also helpful that many residents were	able	to drive to sites in Phoenix, about
16	5-NYT.txt	found just a single case of this	formidable	combination, but genetic analysis suggested that the

#LancsBox 5.1.2

KWIC

GraphColl

Wheel

Words

Ngrams

Text

Wizard

Corpora

KWIC: (/.\*ble/i)/.\*J/i

Search

Search (/.\*ble/i)/.\*J/i

Occurrences 9 (13.18)

Texts 5

▼ Corpus

Corpus 1

▼ Context 7

▼ Display Text

Index

File

Left

Node

Right

1

1-NYT.txt

try to immunize Americans as quickly as

possible.

Much is still to be determined about

2

1-NYT.txt

& Johnson vaccine, though, it may be

possible

to effectively choose what you get by

3

2-NYT.txt

to most of us, and they are

invisible

to most of us, but they produce

4

2-NYT.txt

where people older than 65 are currently

eligible

for vaccines, have turned away immigrants unable

5

3-NYT.txt

Covid Vaccine? In This County, Everybody is

Eligible

The rural area outside Phoenix is one

6

3-NYT.txt

the beginning. Deliver shots as swiftly as

possible

by allowing anyone who wanted one to

7

4-NYT.txt

of Breast Imaging, offers similar advice. "If

possible,

and when it does not unduly delay

8

5-NYT.txt

mutation that may make the variant less

susceptible

to vaccines. The researchers have so far

9

5-NYT.txt

guard yet while there's still these more

transmissible

variants circulating."

#LancsBox 5.1.2									
KWIC	GraphColl	Wheel	Words	Ngrams	Text	Wizard			
			Corpora	KWIC: (/.*able/i)/.*J/i					
<div><div></div><div>Search</div></div>									
Search (/.*able/i)/.*J/i									
Occurrences 2 (6.83)		Texts 1/5		▼ Corpus		Corpus 2		▼ Context 7	
								▼ Display Text	
Index	File	Left	Node	Right					
1	2-TJP.txt	Interactive content by Flourish in general, currently	available	vaccines were believed to still offer protection					
2	2-TJP.txt	With the existing limitations, Wien said, labs	capable	of genome surveillance should focus on the					

#LancsBox 5.1.2											
KWIC	GraphColl	Wheel	Words	Ngrams	Text	Wizard					
Corpora				KWIC: (/.*ble/i)/.*J/i							
<div>Search (/.*ble/i)/.*J/i</div>				<div>Occurrences 2 (6.83)</div>							
<div>Texts 1/5</div>				<div>▼ Corpus</div>		<div>Corpus 2</div>		<div>▼ Context 7</div>		<div>▼ Display Text</div>	
Index	File	Left		Node		Right					
1	2-TJP.txt										
2	2-TJP.txt										

#### 4. Suffix -ful

#LancsBox 5.1.2

KWIC

GraphColl

Wheel

Words

Ngrams

Text

Wizard

Corpora

KWIC: (/.\*ful/i)/.\*J/i

Search

Search (/.\*ful/i)/.\*J/i

Occurrences 4 (5.86)

Texts 2/5

▼ Corpus

Corpus 1

▼ Context 7

▼ Display Text

Index	File	Left	Node	Right
1	3-NYT.txt	as well. But it has been so	successful	at vaccinating its residents that it is
2	3-NYT.txt	percent plunge in new cases. "I'm so	thankful	to be in this position right now,"
3	3-NYT.txt	help get vaccinations organized. It was also	helpful	that many residents were able to drive
4	4-NYT.txt	to all the patients undergoing surveillance after	successful	prior treatment of cancer," said Dr. Constance

#### 5. Suffix -less

#LancsBox 5.1.2

KWIC

GraphColl

Wheel

Words

Ngrams

Text

Wizard

Corpora

KWIC: (/.\*less/i)...

▼

Search

Search (/.\*less/i)...

Occurrences 4 (5.86)

Texts 2/5

▼ Corpus

Corpus 1

▼ Context 7

▼ Display Text

Index	File	Left	Node	Right
1	1-NYT.txt			
2	4-NYT.txt	of the population (like rural residents or	homeless	people), or to people who might not
3	4-NYT.txt	ways to ease patients' fears and avoid	needless	testing. - - - - - 4? Covid-19 vaccinations at the Community
4	4-NYT.txt	at allaying fears and helping patients avoid	needless	testing for a harmless condition that will
		helping patients avoid needless testing for a	harmless	condition that will go away in a

## 6. Suffix *-ly*

#LancsBox 5.1.2						
KWIC	GraphColl	Wheelk	Words	Ngrams	Text	Wizard
Corpora KWIC: (/.*ly/i)/.*/i						
Search (/.*ly/i)/.*/i Occurrences 7 (10.25) Texts 4/5						
Index	File	Left	Node	Right	Display Text	
1	2-NYT.txt	and Prevention has advised giving agricultural workers	early	access to the vaccine, but states have		
2	2-NYT.txt	is core to his coronavirus response, but	early	data shows that doses have been slower		
3	3-NYT.txt	a few limits, though some aspects of	daily	life in the county, like high school		
4	3-NYT.txt	Phoenix, about 90 minutes away, easing the	early	demand for vaccines in Gila County. Image		
5	4-NYT.txt	higher, and that many more cases are	likely	to show up on imaging like mammograms,		
6	5-NYT.txt	virus is both more contagious, and more	deadly	than the original version, and is expected		
7	5-NYT.txt	Louis, who led the study. It's too	early	to say whether the variant in Oregon		

#LancsBox 5.1.2						
KWIC	GraphColl	Wheelk	Words	Ngrams	Text	Wizard
Corpora KWIC: (/.*ly/i)/.*/i						
Search (/.*ly/i)/.*/i Occurrences 10 (34.15) Texts 4/5						
Index	File	Left	Node	Right	Display Text	
1	1-TJP.txt	percent effective at preventing severe illness among	elderly	at-risk individuals after a single dose, according		
2	1-TJP.txt	in the risk of Covid-19-related hospitalisation in	elderly	frail patients with extensive co-morbid disease," the		
3	1-TJP.txt	of the immunisation drive, even among the	elderly	Paul Hunter, a professor in medicine at		
4	1-TJP.txt	are both roughly equally effective at keeping	elderly	and frail people out of hospital and		
5	1-TJP.txt	in reducing infections and severe illness among	elderly	people. France earlier this week advised that		
6	2-TJP.txt	hospitalizations and deaths. These refer to the	unlikely	as well as people with comorbidities who,		
7	3-TJP.txt	plasma intervention caused no harm, it was	elderly	to benefit patients, the National Institutes of		
8	3-TJP.txt	of antibodies and for patients hospitalized with	early	stages of Covid or with a limited		
9	4-TJP.txt	and AZ Covid jabs 'highly effective' in	elderly	UK study NEWS DESK. AGENCE FRANCE-PRESSE London,		
10	4-TJP.txt	reducing coronavirus infections and severe illness among	elderly	people in Britain, with a more than		

## 7. Suffix *-ic*

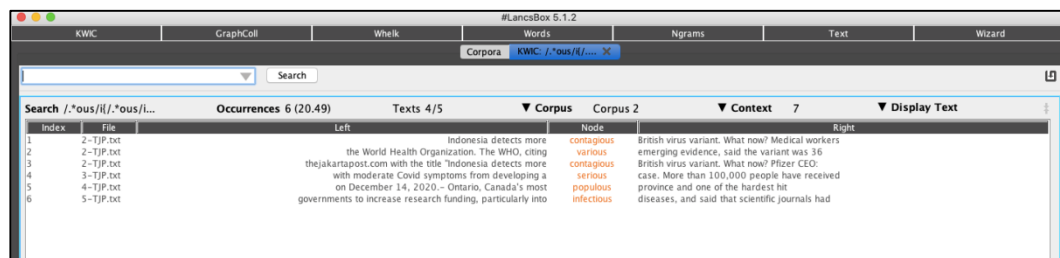
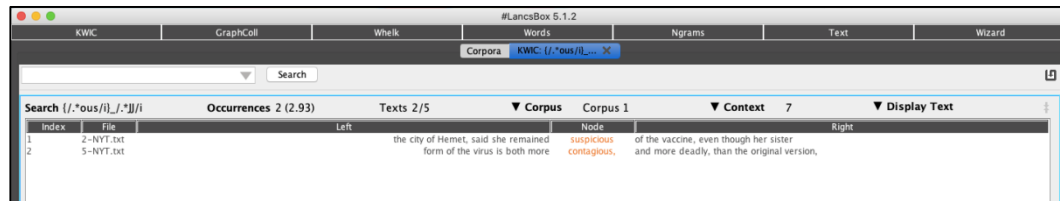
#LancsBox 5.1.2						
KWIC	GraphColl	Wheelk	Words	Ngrams	Text	Wizard
Corpora KWIC: (/.*ic/i)/.*/i						
Search (/.*ic/i)/.*/i Occurrences 9 (13.18) Texts 4/5						
Index	File	Left	Node	Right	Display Text	
1	1-NYT.txt	months- features that promise greater flexibility as	public	health officials try to immunize Americans as		
2	2-NYT.txt	burials a week. "You're talking about an	apocalyptic	situation," he said. Ending the virus's rampage		
3	2-NYT.txt	registering for government programs or flocking to	public	vaccination sites, and the idea of offering		
4	2-NYT.txt	with the Health Department, Ms. Percy spends	freemist	days juggling calls between the county about		
5	2-NYT.txt	Be His Third? How Bad Is Our	Pandemic	Drinking Problem? ADVERTISEMENT Continue reading the main		
6	3-NYT.txt	election. Editors' Picks How Bad Is Our	Pandemic	Drinking Problem? My Boyfriend Has Two Partners.		
7	3-NYT.txt	the hospital just hoping to get some	basic	information about the vaccine. "They told me,		
8	5-NYT.txt	single case of this formidable combination, but	genetic	analysis suggested that the variant had been		
9	5-NYT.txt	said. Editors' Picks How Bad Is Our	Pandemic	Drinking Problem? He Said He Loved Her.		

#LancsBox 5.1.2						
KWIC	GraphColl	Wheelk	Words	Ngrams	Text	Wizard
Corpora KWIC: (/.*ical/i)/.*/i						
Search (/.*ical/i)/.*/i Occurrences 4 (5.86) Texts 4/5						
Index	File	Left	Node	Right	Display Text	
1	2-NYT.txt	navigate and the hours-long waits that were	typical	at mass vaccination sites. Once they agreed		
2	3-NYT.txt	Ratcliff received her second dose at the	medical	center in Globe, Credit: Juan Arredondo for The		
3	4-NYT.txt	swollen nodes in recently immunized people, and	medical	journals have begun publishing reports aimed at		
4	5-NYT.txt	Subscribe to The Times Lab studies and	clinical	trials in South Africa indicate that the		

#LancsBox 5.1.2						
KWIC	GraphColl	Wheelk	Words	Ngrams	Text	Wizard
Corpora KWIC: (/.*ic/i)/.*/i						
Search (/.*ic/i)/.*/i Occurrences 6 (20.49) Texts 2/5						
Index	File	Left	Node	Right	Display Text	
1	3-TJP.txt	the US since the start of the	pandemic	and many more elsewhere in the world,		
2	5-TJP.txt	2020. (Reuters/Siphwe Sibeko) Just four percent of	scientific	research published on Covid-19 is relevant to		
3	5-TJP.txt	contained content related to Africa or a	specific	African country, the analysis found. In the		
4	5-TJP.txt	African authors have historically been under-represented across	scientific	research. "Health policy is not only informed		
5	5-TJP.txt	research are needed to guide the local	pandemic	response," they concluded. The authors called for		
6	5-TJP.txt	particularly into infectious diseases, and said that	scientific	journals had a role to play in		



## 8. Suffix *-ous*



## Adjectival Suffix

### 1. NYT (69 words)

#### Suffix *-al* (35 words)

No.	Base	Suffix	Derivational
1.	rus	-al	Rural (7)
2.	agriculture	-al	Agricultural (5)
3.	essence	-al	Essential (4)
4.	Sever	-al	Several (3)
5.	Nation	-al	National
6.	locus	-al	Local (4)
7.	preference	-al	preferential
8.	genus	-al	General (3)
9.	profession	-al	Professional
10.	origin	-al	original
11.	clinic	-al	clinical
12.	computation	-al	computational
13.	virus	-al	Viral (2)
14.	substance	-al	substantial

#### Suffix *-ive* (9 words)

No.	Base	Suffix	Derivational
1.	Protect	-ive	protective
2.	execute	-ive	executive
3.	comprehend	-ive	comprehensive
4.	innovate	-ive	innovative
5.	negate	-ive	Negative (2)
6.	conserve	-ive	conservative
7.	imagine	-ive	imaginative
8.	effect	-ive	effective

**Suffix –able (6 words) –ible (3 words)**

No.	Base	Suffix	Derivational
1.	Avail	-able	Available (4)
2.	Rely	-able	Reliable
3.	equity	-able	Equitable
4.	Posse	-ible	Possible (4)
5.	Elect	-ible	Eligible (2)
6.	transmit	-ible	transmissible

**Suffix –ful (4 words)**

No.	Base	Suffix	Derivational
1.	Success	-ful	Successful (2)
2.	Thank	-ful	Thankful
3.	help	-ful	Helpful

**Suffix –less (4 words)**

No.	Base	Suffix	Derivational
1.	Home	-less	Homeless
2.	Need	-less	Needless (2)
3.	harm	-less	harmless

**Suffix –ly (3 words)**

No.	Base	Suffix	Derivational
1.	Day	-ly	Daily
2.	Like	-ly	Likely
3.	Dead	-ly	Deadly

**Suffix –ous (2 words)**

No.	Base	Suffix	Derivational
1.	Suspicion	-ous	suspicious
2.	contagion	-ous	contagious

**Suffix –ic (2 words) –ical (1 word)**

No.	Base	Suffix	Derivational
1.	Apocalypse	-ic	apocalyptic
2.	gene	-ic	genetic
3.	Type	-ical	Typical

## 2. TJP (62 words)

### Suffix *-al* (23 words)

No.	Base	Suffix	Derivational
1.	sever	<i>-al</i>	Several (3)
2.	substance	<i>-al</i>	substantial
3.	tropic	<i>-al</i>	tropical
4.	clinic	<i>-al</i>	Clinical (2)
5.	office	<i>-al</i>	Official (2)
6.	locus	<i>-al</i>	Local (4)
7.	nation	<i>-al</i>	national
8.	genus	<i>-al</i>	General
9.	addition	<i>-al</i>	additional
10.	globe	<i>-al</i>	Global (3)
11.	origin	<i>-al</i>	Original (2)
12.	essence	<i>-al</i>	essential
13.	analytic	<i>-al</i>	analytical

### Suffix *-able/-ible* (3 words)

No.	Base	Suffix	Derivational
1.	avail	<i>-able</i>	available
2.	transmit	<i>-ible</i>	Transmissible (2)

### Suffix *-ic* (4 words)

No.	Base	Suffix	Derivational
1.	specify	<i>-ic</i>	specific
2.	science	<i>-ic</i>	Scientific (3)

### Suffix *-ive* (20 words)

No.	Base	Suffix	Derivational
1.	effect	<i>-ive</i>	Effective (11)
2.	negate	<i>-ive</i>	Negative (4)
3.	extend	<i>-ive</i>	Extensive
4.	intense	<i>-ive</i>	intensive
5.	relate	<i>-ive</i>	relative
6.	represent	<i>-ive</i>	representative
7.	authority	<i>-ive</i>	authoritative

### Suffix *-ly* (8 words)

No.	base	suffix	derivational
1.	elder	<i>-ly</i>	Elderly (8)

### Suffix *-ous* (4 words)

No.	Base	Suffix	Derivational
1.	Contagion	<i>-ous</i>	Contagious (2)
2.	Infect	<i>-ous</i>	Infectious

## MORPHOPHONEMIC CHANGE

### 1. New York Times

No.	Base words	Derivational words	LoP	AoP	SCC	SS	Dis	As	CSVD	Syn	Grd	Sup
		<b>SUFFIX -AL</b>										
1.	Agriculture /ˈægrɪ kʌltʃər/	Agricultural (5) /ˌægrəˈkʌltʃərəl/				5V			5V			
2.	Essence /ˈɛsəns/	Essential (4) /ɪˈsɛnʃəl/			4V	4V					4V	
3.	Nation /ˈneɪʃən/	National /ˈnæʃənəl/							V			
4.	Preference /ˈprɛfərəns/	Preferential /ˌprɛfəˈrɛnʃəl/			V	V					V	
5.	Profession /prəˈfɛʃən/	Professional /prəˈfɛʃənəl/										
6.	Origin /ˈɔrɪdʒən/	Original /əˈrɪdʒənəl/				V					V	
7.	Clinic /ˈklɪnɪk/	Clinical /ˈklɪnɪkəl/										
8.	Computation /ˌkʌmpjʊˈteɪʃən/	Computational /ˌkʌmpjuˈteɪʃənəl/							V			
9.	Substance /ˈsʌbstəns/	Substantial /səbˈstæʃənəl/			V	V					V	
10.	Rus /rʊs/	Rural (7) /ˈrʊərəl/			7V				7V			
11.	Locus /ˈloʊkəs/	Local (4) /ˈloʊkəl/			4V							
12.	Genus /ˈdʒɪnəs/	General (3) /ˈdʒɛnərəl/			3V				3V			

13.	Virus /'vaɪrəs/	Viral (2) /'vaɪrəl/			2V							
14.	Sever /'sevər/	Several /'sevərə/										
		<b>SUFFIX -IVE</b>	<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Protect /prə'tekt/	Protective /prə'tektɪv/										
2	Execute /'eksə,kjʊt/	Executive /'ɪg'zɛkjətɪv/				V			V		V	
3	Comprehend / ,kəmpri'hend/	Comprehensive / ,kəmpri'hensɪv/			V							
4	Innovate /'ɪnə'veɪt/	Innovative /'ɪnə'veɪtɪv/										
5	Conserve /kən'sɜrv/	Conservative /kən'sɜrvətɪv/		V								
6	Imagine /ɪ'mædʒən/	Imaginative /ɪ'mædʒənətɪv/		V								
7	Effect /ɪ'fekt/	Effective /ɪ'fektɪv/										
8	Negate /nɪ'geɪt/	Negative (2) /'nɛɡətɪv/				2V					2V	
		<b>SUFFIX -ABLE</b>	<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Avail /ə'veɪl/	Available (4) /ə'veɪləbəl/										
2	Rely /rɪ'laɪ/	Reliable /rɪ'laɪəbəl/										
3	Equity /'ɛkwəti/	Equitable /'ɛkwətəbəl/							V			
4	Posse /'pasi/	Possible (4) /'pasəbəl/							4V			
5	Elect /ɪ'lekt/	Eligible (2) /'elɪdʒəbəl/	2V		2V	2V					2V	

1	Transmit /trænz'mɪt/	Transmissible /træns'mɪsəbəl/			V							
		<b>SUFFIX –FUL</b>	<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Success /sək'ses/	Successful (2) /sək'sesfəl/										
2	Thank /θæŋk/	Thankful /'θæŋkfəl/										
3	Help /hɛlp/	Helpful /'hɛlpfəl/										
		<b>SUFFIX –LESS</b>	<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Home /hoʊm/	Homeless /'hoʊmləs/										
2	Need /nid/	Needless (2) /'nidləs/										
3	Harm /hɑrm/	Harmless /'hɑrmləs/										
		<b>SUFFIX –LY</b>	<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Day /deɪ/	Daily /'deɪli/										
2	Like /laɪk/	Likely /'laɪkli/										
3	Dead /dɛd/	Deadly /'dɛdli/										
		<b>SUFFIX –OUS</b>	<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Suspicion /sə'spɪʃən/	Suspicious /sə'spɪʃəs/			V							
2	Contagion /kən'teɪdʒən/	Contagious /kən'teɪdʒəs/			V							
		<b>SUFFIX –IC/-ICAL</b>	<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Type /taɪp/	Typical /'tɪpɪkəl/							V			
2.	Apocalypse /ə'pəkeɪlɪps/	Apocalyptic /ə'pəkeɪ'lɪptɪk/			V	V						

3.	Gene /dʒɪn/	Genetic /dʒəˈnetɪk/		V					V			
	<b>TOTAL (97)</b>		6	3	33	18	0	0	25	0	12	0
	<b>100%</b>		6,2%	3,1%	34%	18,5%	0	0	25,8%	0	12,4%	0

## 2. The Jakarta Post

No	Base Words	Derivational Words	LoP	AoP	SCC	SS	Dis	As	CSVD	Syn	Grd	Sup
		<b>SUFFIX –AL</b>										
1	Substance /ˈsʌbstəns/	Substantial /səbˈstænʃəl/			V	V					V	
2	Clinic /ˈklɪnɪk/	Clinical (2) /ˈklɪnɪkəl/										
3	Office /ˈɒfəs/	Official (2) /əˈfɪʃəl/			2V	2V					2V	
4	Nation /ˈneɪʃən/	National /ˈnæʃənəl/							V			
5	Addition /əˈdɪʃən/	Additional /əˈdɪʃənəl/										
6	Globe /ɡləʊb/	Global (3) /ˈɡləʊbəəl/										
7	Origin /ˈɒrɪdʒən/	Original (2) /əˈrɪdʒənəl/				2V					2V	





3	Relate /rɪˈleɪt/	Relative /ˈrelətɪv/				V					V	
4	Represent /ˌreprəˈzent/	Representative /ˌreprɪˈzentətɪv/		V					V			
5	Authority /əˈθɔrəti/	Authoritative /əˈθɔrəˌteɪtɪv/							V			
6.	Negate /nɪˈgeɪt/	Negative (4) /ˈnegətɪv/				4V					4V	
7.	Extend /ɪkˈstend/	Extensive /ɪkˈstensɪv/			V							
<b>SUFFIX –LY</b>			<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Elder /ˈeldə/	Elderly (8) /ˈeldərli/										
<b>SUFFIX –OUS</b>			<b>LoP</b>	<b>AoP</b>	<b>SCC</b>	<b>SS</b>	<b>Dis</b>	<b>As</b>	<b>CSVD</b>	<b>Syn</b>	<b>Grd</b>	<b>Sup</b>
1	Contagion /kənˈteɪdʒən/	Contagious (2) /kənˈteɪdʒəs/			2V							
2	Infect /ɪnˈfekt/	Infectious /ɪnˈfekʃəs/			V							
<b>TOTAL (55)</b>			0	5	18	15	0	0	5	0	12	0
<b>100%</b>			0	9,1%	32,7%	27,3%	0	0	9,1%	0	21,8%	0