CORRELATION AMONG GRAMMAR MASTERY AND VOCABULARY SIZE TOWARD TRANSLATION ABILITY ON REPORT TEXT

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Abstract
The crucial problem of translating Indonesia to English language are the students’ lack of knowledge and mother tongue (source language) that two of them are grammar and vocabulary. The researcher focused to measure the correlation among grammar mastery and vocabulary size toward translation ability on report text at seventh semester students in State Islamic Institute of Palangka Raya that use quantitative method with a correlational design. The researcher’s instruments were three test which were grammar mastery, vocabulary size, and translation test that were tested to the 32 students’ translation class in academic year 2017/2018. The numerical data were analyzed by Pearson Product Moment that showed that: (1) the most students got “fail” (43.75%) grammar mastery, (2) the most students got “excellent” (46.875%) vocabulary size, (3) the most students got “enough” (87.5%) translation ability. The significant correlation among three variables were proved by correlation coefficient 0.604 (strong category), \( F_{\text{change}} > F_{\text{table}} = 8.349 > 3.33 \), and the contribution of grammar mastery and vocabulary size delivered 36.5%. Thus, it sums that students’ grammar mastery and vocabulary size correlate with the quality of students’ translation ability on report text at seventh semester students in academic year 2017/2018.

Keywords: Grammar Mastery, Vocabulary, Translation

INTRODUCTION
The four skill of language is the fundamental skill necessary for language with different functions and advantages to communicate. The four skills need the equipment and the other component to support the efficiency of speech. The two elements of language are Grammar and Vocabulary. The can call by language equipment to help the skills; reading, speaking, listening, and writing.

The first is grammar. According to Azam (2014, p. 62) explain that grammar is a thing to express the necessary part that gives the essential to language. As cited in Debata (2013, p. 483), grammar defines the system and the way of gathering of words that it will be created as wonderful sentence. He supposes between people who use grammar and who do not use grammar with two bikers. The first biker just knows how to bike without knowing the engines’ working. On the contrary, second biker understands both how to bike and engines’ working. It makes second biker easier to repair than first biker when some trouble comes. According to Richards & Schmidt (2010, p. 251), grammar is the way of word and phrases as a language system that are bounded into sentence. Based on the grammar interpretation above, the researcher sums that grammar is a thing or system to support the English language study with specific rules to express the comprehending word in a sentence.
The second is vocabulary. According to Azam (2014, p. 63) stated that vocabulary is the property and the equipment of language. Hasan & Subekti (2017, p. 56) state that Vocabulary means words that someone knows then use those (words) to communicate with others in a particular language. In communication, people need language production to send a message or information. According to Berg (2014, p. 1), the total number language in the world is 7100. When people communicate with the other country, they should translate it with their mind and ability to comprehend the information.

In research article of Jixing (2013, p. 108) also describe that translation register the point to transfer the information from SL into TL. He believes The concept of excellent proportionate of translation is the closest essential of meaning and style. Some phenomena in real life show that the mark of students IAIN Palangka Raya of Indonesia - English translation class lower than the mark of English-Indonesia translation class. The researcher did the pre-interview with some students’ to make sure the crucial problem of translating Indonesia into the English language, then they believed that it depended on the target language. Because of Indonesian learning English as a foreign language. So when the students translate the SL into TL, the mother language style is still followed. Also, it supported by research journal of Utami (2017, p. 192), when students’ transference sentence pattern of Indonesia - English, there is the two problem, which are the students’ mother tongue (SL) and lack of knowledge.

Based on the explanation, the researcher sums translation is a process of exchangeable oral and written messages from source language (SL) to target language (TL). The concept of grammar, vocabulary, and translation show there is a correlation among grammar mastery and vocabulary size on translation ability. Grammar and vocabulary as equipment language and the component language will be affected on an English translation.

METHOD

The researchers used quantitative method with correlational design. According to Creswell (2012, p. 338), the correlation had been a type of non-experimental research method that assessed and understood the numerical data relationship between two or more variable. The researcher’s instruments were three test which were grammar mastery, vocabulary size, and translation test that were tested to the 32 students’ translation class in academic year 2017/2018. All test used Google Form. It saw in table below:

| No | Instrument Name | Language Skill and Component | Item of Test | Type of Instrument |
|----|----------------|-----------------------------|--------------|--------------------|
| 1  | Longman Preparation Course for TOEFL | Grammar Mastery | 40 Items | Multiple Choice |
| 2  | Vocabulary Level Test | Vocabulary Size | 90 Items | Matching Test |
| 3  | Translation Test | Translation Skill | 1 Paragraph | Translate an Essay |

RESULTS AND DISCUSSION
Results

1. Result of Grammar Mastery Test
In this research, the quantity of Grammar mastery test was 40 items that adopted by Longman Preparation Course for TOEFL. The researcher used the multiple-choice and error analysis category for 32 students of the Indonesia-English Translation class. The test was conducted on Wednesday, 13th of January 2021 by using Google Form.

| No | Code | X1  | X^2  |
|----|------|-----|------|
| 1  | S-1  | 30  | 900  |
| 2  | S-2  | 50  | 2500 |
| 3  | S-3  | 77.5| 6006.25 |
| 4  | S-4  | 27.5| 756.25 |
| 5  | S-5  | 75  | 5625 |
| 6  | S-6  | 15  | 225  |
| 7  | S-7  | 35  | 1225 |
| 8  | S-8  | 45  | 2025 |
| 9  | S-9  | 42.5| 1806.25 |
| 10 | S-10 | 40  | 1600 |
| 11 | S-11 | 35  | 1225 |
| 12 | S-12 | 45  | 2025 |
| 13 | S-13 | 30  | 900  |
| 14 | S-14 | 22.5| 506.25 |
| 15 | S-15 | 82.5| 6806.25 |
| 16 | S-16 | 50  | 2500 |
| 17 | S-17 | 30  | 900  |
| 18 | S-18 | 95  | 9025 |
| 19 | S-19 | 40  | 1600 |
| 20 | S-20 | 55  | 3025 |
| 21 | S-21 | 32.5| 1056.25 |
| 22 | S-22 | 27.5| 756.25 |
| 23 | S-23 | 27.5| 756.25 |
| 24 | S-24 | 70  | 4900 |
| 25 | S-25 | 35  | 1225 |
| 26 | S-26 | 62.5| 3906.25 |
| 27 | S-27 | 97.5| 9506.25 |
| 28 | S-28 | 40  | 1600 |
| 29 | S-29 | 32.5| 1056.25 |
| 30 | S-30 | 77.5| 6006.25 |
| 31 | S-31 | 60  | 3600 |
| 32 | S-32 | 30  | 900  |
| TOTAL  | 1515 | 86450 |
The result of student’s Grammar mastery showed that the lowest score was 15, while the highest score was 97.5. The mean of score was 47.34, mode of score was 30, median of score was 40, and standard deviation of score was 21.79. Then, it included five level of students Grammar mastery score. The distribution detail saw at the table below:

| Category    | Score Interval | Frequency | Percentage |
|-------------|----------------|-----------|------------|
| Excellent   | 80-100         | 3         | 9.375%     |
| Good        | 66-79          | 4         | 12.5%      |
| Enough      | 56-65          | 2         | 6.25%      |
| Less        | 40-55          | 9         | 28.125%    |
| Fail        | 30-39          | 14        | 43.75%     |

2. Result of Vocabulary Size Test
Vocabulary size test was 90 items matching test that divided into three-level. They were 3000 level, 6000 level, and academic vocabulary level of the word. It adopted by Vocabulary Level Test Version 2 by Paul Nation as cited Bayazidi & Saeb (2017, p. 37). The researcher conducted the test by using Google Form which should answer in 100 minutes.

| No | Code | Total | X2 | X2^2   |
|----|------|-------|----|--------|
| 1  | S-1  | 34.44 | 1156 |
| 2  | S-2  | 84.44 | 7056 |
| 3  | S-3  | 60    | 3600 |
| 4  | S-4  | 44.44 | 1936 |
| 5  | S-5  | 92.22 | 8464 |
| 6  | S-6  | 66.66 | 4489 |
| 7  | S-7  | 82.22 | 6724 |
| 8  | S-8  | 90    | 8100 |
| 9  | S-9  | 83.33 | 6889 |
| 10 | S-10 | 82.22 | 6724 |
| 11 | S-11 | 47.77 | 2304 |
| 12 | S-12 | 51.11 | 2601 |
| 13 | S-13 | 77.77 | 6084 |
| 14 | S-14 | 50    | 2500 |
| 15 | S-15 | 73.33 | 5329 |
| 16 | S-16 | 56.66 | 3249 |
| 17 | S-17 | 11.11 | 121  |
| 18 | S-18 | 93.33 | 8649 |
| 19 | S-19 | 86.66 | 7569 |
| 20 | S-20 | 88.88 | 7921 |
| 21 | S-21 | 55.55 | 3136 |
Based on the table, it saw that the lowest score of student’s vocabulary was 11.11, while the highest was 95.55. The mean of students’ vocabulary size score was 66.63, the mode of the score is 82.22, the median score was 76.66 and the standard deviation was 24.25. The vocabulary size had a five-level category with different score interval that explained the table below:

**Table 5. The Distribution of Students’ Vocabulary Size**

| Category | Score Interval | Frequency | Percentage |
|----------|----------------|-----------|------------|
| Excellent | 80-100         | 15        | 46.875%    |
| Good     | 70-79          | 3         | 9.375%     |
| Fair     | 60-69          | 2         | 6.25%      |
| Poor     | 50-59          | 4         | 12.5%      |
| Bad      | <50            | 8         | 25%        |

3. Result of Translation Test
The translation test of this research was a paragraph of report text in Indonesia language that participants had to translate into the English language by using Google Form. The researcher gave 100 minutes and did not allow to use of Google Translate while doing the test. The result of the translation test interpreted the table below:

**Table 6. The Result of Translation Score as Variable Y**

| NO | CODE | SCORE | TOTAL | FINAL SCORE |
|----|------|-------|-------|-------------|
|    |      | GRADER 1 | GRADER 2 |            |
| 1  | S-1  | 40      | 70     | 110         | 55          |
| 2  | S-2  | 35      | 74     | 109         | 54.5        |
| 3  | S-3  | 40      | 78     | 118         | 59          |
| 4  | S-4  | 40      | 60     | 100         | 50          |

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According to data in table 4.5 above, two graders assessed the result of the translation test. Because translation needed the subjective assessment, the first-grader was the expert lecture of Translation that was qualified, and the second-grader was the researcher itself. The data of first graders saw that the lowest score of students translation was 25, the highest score was 60, the mean was 34.68, the median was 32.5, the mode was 30, and the standard deviation was 6.71.
Then, the data of second graders showed that the lowest score was 60, the highest score was 85, the mean was 73.09, the median was 75, the mode was 78, and the standard deviation was 7.23. Both scores of first grader and second grader added and divided two by the researcher to have the final score. Based on the final score, the data showed the lowest score of students translation was 42.5, the highest score was 72.5, the mean was 5.89, the median was 54.75, the mode was 55, and the standard deviation was 5.67.

The translation level divided into five categories of translation scores. It showed in the table below:

| Category     | Score Interval | Frequency | Percentage |
|--------------|----------------|-----------|------------|
| Almost Perfect | 86-90          | 0         | 0          |
| Very Good    | 76-85          | 0         | 0          |
| Good         | 61-75          | 1         | 3.12%      |
| Enough       | 46-60          | 28        | 87.5%      |
| Worse        | 20-45          | 3         | 9.37%      |

Based on errors’ interpretation of student's translation above, the researcher got the conclusion from first grader and second grader of common errors that faced by students translation. It showed in the table below:

| No | Sentence                                                                 | Explanation                                                                                   |
|----|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1. | In Japanese society, a geisha is a woman who is professionally trained to entertain men, especially businessmen in restaurants parties. | For the first sentence, the students could give the variety of “addition”, thus article “a” could give at a certain phrase. |
| 2. | People’s view about geisha as prostitutes is not accurate.               | Some students used inappropriate vocabulary to describe the meaning of “pelacur” as like whore, slut, harlot, and bitch. They were harsh words category, The better one used “prostitute or courtesan” even the meaning was still same. |
| 3. | Geisha itself means an artist.                                          | Almost a whole students translated “istilah Geisha” to be “the name of Geisha”. Besides, it would be appropriate used “in term of Geisha” or “Geisha”. |
| 4. | Even so, their main job is to offer light and pleasant conversation.     | In this case, the using of connector was still had incorrect. Commonly, they used “even though, although, though” that it used for connecting between two clauses. If the students wanted to use it, they should separated the sentence, and changed the punctuation. But, if the participants wanted to follow the original sentence, they should use even |
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|   |   |
|---|---|
| 5. | Traditionally, geisha were like indentured servants, left by their parents to the geisha houses to accommodate, feed, and train them. | Don’t use preposition before adverb of manner. The word of “traditionally” showed the time signal of past tense that followed the context. It meant, the tenses used past tense. A lot students didn’t use the word “indentured”, they prefer used the word “bonded, tied up”. Indenture itself meant bind (someone) by an indenture as an apprentice or laborer. It closer to the context. Commonly, the students used “dormitory” to interpret “asrama”. Beside, based on background knowledge of Geisha, Javanese were called it by Geisha house or Geisha quarter. Because of there was “to”, the next word should use present pattern. Beside, if it was without “to” it should use past pattern. |
| 6. | Most modern Geisha build an association, even though the profession as a whole has declined since World War II. | The phrase “modern Geisha” showed the time signal “now”, so it used present pattern to describe it. The word “association” more appropriate than “unity/union” that used by a lot students. Even so, it words were understandable by the reader. |
| 7. | Geisha have to quit their job when they get married, and the one who retire without being married often become dance or music teachers. | Some students used “have to” and the others used “must”. Both of them were correct translation. But, according to the meaning, “have to” more appropriate in this context. The words “quit”and “stop” were used by participants. Both of them were correct translation, but the “quit” more appropriate to use in this context. Some students used “without married” that married itself was adjective class. Without should followed by noun or gerund as like without being married, without marriage, and without marrying someone (should be followed by object). |

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Table 9. Correlation of Grammar Mastery and Translation Ability on Report Text

|                  | Grammar Mastery | Translation Ability |
|------------------|-----------------|---------------------|
| **Correlation**  |                 |                     |
| Grammar Mastery  | Pearson         | .590**              |
| Sig. (2-tailed)  |                 | .000                |
| N                | 32              | 32                  |
| Translation Ability | Pearson     | .590**              |
| Sig. (2-tailed)  |                 | .000                |
| N                | 32              | 32                  |

**. Correlation is significant at the 0.01 level (2-tailed).

The researcher calculated the data by using SPSS 18. The table 4. 15 interprets the Pearson Product Moment Correlation Coefficient is 0.590 at the 0.01 or 1% level of significant. Then, the Significant (2-tailed) is 0.000 which lower than 0.05. Accorded to calculation of degree freedom, if \( r_{count} > r_{table} \), there is significant correlation between variables. On the contrary, if \( r_{count} < r_{table} \), there is no significant correlation between variables. In this case, \( r_{table} = N-2, 32-2=30, r_{table}=0.463 \). It explains that \( r_{count} > r_{table} = 0.590 > 0.463 \), and the significant (2-tailed) 0.000 < 0.05, which means there is correlation between grammar mastery and translation ability on report text. Thus, there is a significant correlation between grammar mastery and translation ability on report text.

5. Correlation of Vocabulary Size and Translation Ability on Report Text

Table 10. Correlation of Vocabulary Size and Translation Ability on Report Text

|                  | Vocabulary Size | Translation Ability |
|------------------|-----------------|---------------------|
| **Correlation**  |                 |                     |
| Vocabulary Size  | Pearson         | .395*               |
| Sig. (2-tailed)  |                 | .025                |
| N                | 32              | 32                  |
| Translation Ability | Pearson     | .395*               |
| Sig. (2-tailed)  |                 | .025                |
| N                | 32              | 32                  |

*. Correlation is significant at the 0.05 level (2-tailed).

The table shows that data of Pearson Correlation Coefficient is 0.395 at 0.05 or 5% level of significant. Then the value of Significant (2-tailed) is 0.025 which is 0.025 < 0.05. The number of students is 32 that must minus (-) 2 to get \( r_{table} \), it is \( r_{table} = N-2, 32-2, r_{table} = 0.361 \). If \( r_{count} > r_{table} \), there is any significant correlation between variables. On the contrary, if \( r_{count} < r_{table} \), there is no any significant correlation between variables. Accorded to the data, it explains that Significant (2-tailed) is 0.025 < 0.05, and \( r_{count} > r_{table} = 0.395 > 0.361 \) which means there is
correlation of vocabulary size and translation ability. Thus, there is a significant correlation between students’ vocabulary size and translation ability on report text.

6. Correlation among Grammar Mastery, Vocabulary Size, and Translation Ability on Report Text

Table 11. Correlation Among Grammar Mastery, Vocabulary Size, and Translation Ability on Report Text

| Model | R     | R Square | Adjusted R Square | Std. Error of the Estimate | Change Statistics | F Change | df1 | df2 | Sig. F Change |
|-------|-------|----------|-------------------|----------------------------|-------------------|----------|-----|-----|---------------|
|       | .604  | .365     | .322              | 4.672                      | R Square Change   | .365     | 8.349| 2   | .001          |

a. Predictors: (Constant), Vocabulary Size, Grammar Mastery

Based on model summary table, correlation coefficient among grammar mastery, vocabulary size on translation ability is 0.604. As the researcher explained at chapter 3, the value range of 0.604 is strong category. Then, the table shows the Significant F Change is 0.001 which means 0.001 < 0.05. In addition, the contribution of grammar and vocabulary size delivers 36.5%, while 63.5% the other variables. It explains the alternative hypothesis (Ha) was accepted, and the null hypothesis (H0) was rejected.

After that, the researcher measures the Multiple Determinant Coefficient (MDC) to prove the variance distribution of a dependent variable (Y) that analyze by linear regression and independent variable (X):

\[ \text{MDC} = (r_{xy})^2 \times 100\% \]

\[ \text{MDC} = (0.604)^2 \times 100\% \]

\[ \text{MDC} = 36.48\% \]

The table interprets result data of F change is 8.349, df1 is 2, and df2 is 29. Also, the researcher looks at F table score compares with F change. They were F change > F table = 8.349 > 3.33, which concludes there is a significant correlation among students’ Grammar mastery and Vocabulary toward Translation ability on report text.

**Discussion**

As stated in Merc (2019), the translation is influenced by some factors that one of them are using of grammar and lexical in text. In this case, the students’ grammar mastery have common
errors of article and tense use. According to Oxford Dictionary, Stevenson (2010), tense is the transformation of verb that influenced certainly time and place. The verb transformation while translating report text presents and creates the arduous thing. For the example, the report text generally use present tense, but if tense’s context is straightforward to another tense, we shall follow it first, then rebound the original one. Generally, Putri (2019) stated that students EFL help by mastering grammar, especially while translating SL into TL. It includes the consideration on grammar. In addition, The previous research that conducted by Oktari, Mukhtar, & Arasuli (2019) believed that the students difficulties grammar when they translate the text is determine the sentence patterns while producing the text.

According to Merc (2019), the cultural of native language affect on diction. The lot of students have lack of knowledge that generate them use inappropriate vocabulary. Besides, demanding students of translating report text to avoid the errors diction find out the background knowledge of context. In this case, the context tell “a Geisha” that students must master “the Geisha” material before translate it. Based on Robinson (2019), the one of nine aspects of translator reliability have to the detail attention on distinct context and collocation. The selection vocabulary have to exactly compatible on background knowledge to release the good translation. For the example, some students use the word “bitch” to interpret the “prostitute”. As a context, Geisha is an artist. So the word “bitch” inappropriate to the background knowledge. The improper of vocabulary is effected by minimum students’ size vocabulary. They do not have a number variety of word that use in translating.

Based on Utami (2017, p. 192), when students’ transference sentence pattern of Indonesia - English, there is the two problem, which is the students’ mother tongue (SL) and lack of knowledge. In this case, the researcher points are grammar and vocabulary size toward students’ translation ability. When students translate the text, they shall master grammar to create the improper sentence, and the intensity of vocabulary that the evidence among them explains at the previous sub-chapter. Who do not mastered them well, the errors translation will take effect. Both variables that mention at the previous study which are the correlation between grammar mastery on translation ability and vocabulary size on translation are analogously with the result of this research. Even though the researcher does not invent the study who conducts among three variables, the result data and statement of previous study prove that there is correlation among grammar mastery and vocabulary size toward translation ability on report text.

**CONCLUSION**

The conclusion that consider SPSS 18.0 program that believe by the researcher are:

1. The alternative hypothesis was obtained which grammar mastery and translation ability on report text showed up the positive correlational at seventh semester of English Study Program in academic year 2017/2018 in State Islamic University Palangka Raya. It proved by $r_{count} > r_{table}$ (0.590 > 0.463). It means the mastering grammar at students significantly influence translation ability.

2. The alternative hypothesis between vocabulary size and translation ability on report text was accepted which showed up the positive correlational at seventh semester of English Study Program in academic year 2017/2018 in State Islamic University Palangka Raya at $r_{count} > r_{table}$ (0.395 > 0.361). It means the number of vocabulary that students know, the quality ability of translation appears.

3. The correlation among grammar mastery and vocabulary size toward translation ability on report text were proved by the statistic data of value range of 0.604, Significant F Change
0.001 < 0.05, and the contribution of grammar and vocabulary size delivered 36.5%, while 63.5% the other variables.

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