

The Reading Level of the Biology and Linguistics Abstracts

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Abstract—Fog Index is a readability test in the text which is introduced by Robert Gunning in 1952. This test is used to measure the difficultness of texts. This current research as a preliminary study tried to figure out the Fog Index of the Biology and Linguistics abstract which obtained from journal abstract indexed by Proquest. This research applied the qualitative research method. The data obtained are taken randomly and being described descriptively. The Fog Index is influenced by the two main elements. The first thing is the average of the total number of words in every sentence and the second thing is the hard word (three syllable or more). The result shows that the average of the total number of words in every sentence in the abstracts in Biology field is 22.10 while in the abstracts in Linguistics field is 29.37. The average of the hard word in Biology field 17.18 while in the Linguistics field is 15.28. Finally, the average of the Fog Index of the abstract in Biology field is 15.71 while in Linguistics field is 17.86. From the data mentioned, it is concluded that the abstracts in Linguistics field is more difficult to be understood than the Biology abstracts is.

Keywords— Reading Level, Biology abstract, Linguistics abstracts.

I. INTRODUCTION

IN Linguistics, text has a main role. A text can be classified into easy or difficult text. To ease in understanding texts depends on the difficulty of the texts. The difficultness of the texts is influenced by many factors. There is an argument that if a text is easy to be understood so it could be classified into the spoken text, in the other hand, if the text is not easy to be understood could be classified into written text. In this paper, the term spoken text does not mean something being uttered orally and written as something being written. The words spoken and written texts are the terms borrowed from Halliday (2004) and Gerot and Wignell (1995).

To classify the text is easy to be understood or not cannot be based on easiness or difficultness of the text but it should be proven scientifically. To proof the easiness and difficultness scientifically can be proven by counting the lexical density and grammatical intricacy of the text. This statement is related to Gerot and Wignell's argument (1995:161). They argue that there are differences between spoken and written text as the following argumentation.

“Spoken and written languages are both complex but in different ways. Spoken language tends to be complex grammatically and written language tends to be complex lexically. Spoken language tends to be grammatically

intricate whereas written language tends to be lexically dense.”

The argumentation says that spoken and written text has different features; they have different grammatical intricacy and lexical density of the text. This argumentation is also supported by Halliday (2004) in Presnyakova (2011:16) that argues.

“Typically, written language becomes complex by being lexically dense: it packs a large number of lexical items into each clause; whereas spoken language becomes complex by being grammatically intricate: it builds up elaborate clause complexes out of parataxis and hypotaxis.”

In this preliminary research, the present writer does not discuss the lexical density or the grammatical intricacy, since the present writer tries to figure out the Fog Index of the abstracts in Biology field and Linguistics field. The term Fog Index is also known as Reading Level. In the other words, the present writer discusses the Reading Level of the abstracts in Biology field and Linguistics field.

II. METHODOLOGY

In this preliminary research, the present writer tries to analyze and describe the data linguistically by applying the descriptive analysis. The abstracts as the data of the research are taken from the two different fields: Biology and Linguistics field. The Biology texts were chosen as the representation of natural science while the Linguistics texts were chosen as the representation of the social science. From the both types of texts, the present writer obtained the abstract of the articles which are published in scientific journals indexed by Proquest.

The present writer obtained eight abstracts from eight different Biology texts and also eight abstracts from eight different Linguistics texts. The calculation could be done by applying free software in <http://www.usingenglish.com/resources/text-statistics.php>. This software helps the present writer in calculating the Fog Index scale digitally.

III. FOG INDEX OF THE ABSTRACTS IN BIOLOGY AND LINGUISTICS FIELD

Fog Index is known as Gunning Fog Index. It is a test to measure the readability of a text. The test is supported by some supporting elements. It is supported by the total of words average in every sentence and the percentage of hard words. Hard words or sometimes called complex words are words consist of three or more syllables as described in the following

formula.

Formula 1

$$0.4 \left[\left(\frac{\text{words}}{\text{sentences}} \right) + 100 \left(\frac{\text{complex words}}{\text{words}} \right) \right]$$

Pay attention to the following text.

People like Mamma Mia. Kids like Mamma Mia. Teenagers love Mamma Mia. Parents love Mamma Mia. Grandparents love Mamma Mia.

The text is a paragraph consists of five simple sentences containing twenty words. Relating to the term of hard words, the text has two hard words: they are teenagers and grandparents. The two hard words have three syllables of each: teenagers (teen/age/ers) and grandparents (grand/pa/rents). It can be described that the fog index of the text is

$$\text{Fog index} = 0,4 \left[\left(\frac{20}{5} \right) + 100 \left(\frac{2}{20} \right) \right] = 0,4 [4+10] = 0,4 \times 14 = 5,6$$

Based on the calculation of the above, the Fog Index of the text 1 is 5.6 or it can be said that the readability level of the text scale is 5.6. Besides using the formula mentioned, it can be counted by the following formula 2.

Formula 2

$$\text{Reading Level (Grade)} = \left(\text{Average No. of words in sentences} + \text{Percentage of words of three or more syllables} \right) \times 0.4$$

The calculation of the grade or the Reading level bay using the formula 2 can be described in the following:

It is described that both of the formula (formula 1 and formula 2) have the same result; the scale is 5.6. The following is the result of the calculation by using the software.

Text Statistics

General Statistics		Word Length Breakdown		
		Length	Count	Graph
Total Word Count:	20	3 letter words	5	 25.0%
Total Unique Words:	9	4 letter words	6	 30.0%
Number of Sentences:	5	5 letter words	5	 25.0%
Average Sentence Length:	4.00	6 letter words	1	 5.0%
Number of Paragraphs:	1	7 letter words	1	 5.0%
Hard Words:	2 (10.00%) (what's this?)	9 letter words	1	 5.0%
Lexical Density:	45.00% (what's this?)	12 letter words	1	 5.0%
Fog Index:	5.60 (what's this?)			

From the description above, it is described that the total word count (the total word count in the text) is twenty, the total unique words (the total unique words people, like, Mamma, Mia, Kids, teenagers, love, parents, grandparents) is nine. The text containing one paragraph has five sentences and the average sentence length is four. The hard word found in the text is two or 10%: they are teenagers and grandparents. The software has also counted the Fog Index of the text or earlier called as the readability level of the text scale 5.6.

From the eight abstracts of the Biology texts and the eight abstracts of the Linguistics texts, the present writers found that

they have different average of sentence number, words in sentence, and hard words as described in the following table.

TABLE 1
NO OF SENTENCE, AVERAGE OF WORDS IN SENTENCE, AND HARD WORD, IN THE ABSTRACTS OF BIOLOGY TEXTS AND LINGUISTICS TEXTS

No	No of Sentence		Average of Words in Sentence		Hard Word (%)	
	Biology	Linguistics	Biology	Linguistics	Biology	Linguistics
1	7	5	23.29	24.6	12.88	14.45

2	11	7	13.73	28.71	23.18	18.91
3	7	4	24.43	30.5	21.05	19.67
4	6	7	31.17	28.57	17.11	12.5
5	9	7	27.56	40.14	9.68	20.64
6	10	5	18.7	30.8	21.39	14.94
7	10	9	17.8	29	12.92	12.26
8	8	5	20.12	22.6	19.25	8.85

The table 1 describes eight abstracts taken from Biology texts and eight abstracts taken from Linguistics texts. They have three different features: number of sentences, average of words in sentence, and the percentage of hard words. To make easier in understanding the data, the present writer describes the average of the number of sentences, words in sentence, and the percentage of hard words in the following table 2 as described in the following.

TABLE II
THE AVERAGE OF NUMBER OF SENTENCE, WORDS IN SENTENCE, AND HARD WORDS

OF THE ABSTRACTS IN BIOLOGY TEXTS AND LINGUISTICS TEXTS					
The Average of					
No of Sentence		Words in Sentence		Hard Word (%)	
Biology	Linguistics	Biology	Linguistics	Biology	Linguistics
8.50	6.13	22.10	29.37	17.18	15.28

From the first feature, the number of sentences, it is described that the average in Biology texts is 8.5 while the average in Linguistics texts is 6.13. From the data mentioned, it can be concluded that Biology texts have many sentences than Linguistics texts does.

The second feature is the average of words in sentence. From the data in table 1, the average of words in sentence in Linguistics texts is 29.37 while in Biology texts is 22.10. It can be concluded that Linguistics texts have many words in sentence that Biology texts does.

The third feature is the percentage average of hard words of each abstract both in Biology texts and Linguistics texts. It is described in the table 1 that the hard words of abstracts in Biology texts is 17.18% while the hard words of abstracts in Linguistics texts is 15.28%. The Biology texts have more hard words than Linguistics texts do. The following is the Text Statistics of each Biology text (Table 3) and Linguistics text (Table 5).

TABLE III
THE TEXT STATISTICS OF THE BIOLOGY ABSTRACTS

<p>Biology Text 1</p> <p>Text Statistics</p> <p>General Statistics</p> <p>Total Word Count: 163 Total Unique Words: 99 Number of Sentences: 7 Average Sentence Length: 23.29 Number of Paragraphs: 1 Hard Words: 21 (12.88%) (what's this?) Lexical Density: 60.74% (what's this?) Fog Index: 14.47 (what's this?)</p> <p>Word Length Breakdown</p> <table border="1"> <thead> <tr><th>Length</th><th>Count</th><th>Graph</th></tr> </thead> <tbody> <tr><td>1 letter words</td><td>3</td><td>11.8%</td></tr> <tr><td>2 letter words</td><td>27</td><td>16.6%</td></tr> <tr><td>3 letter words</td><td>38</td><td>23.3%</td></tr> <tr><td>4 letter words</td><td>16</td><td>9.8%</td></tr> <tr><td>5 letter words</td><td>16</td><td>9.8%</td></tr> <tr><td>6 letter words</td><td>7</td><td>4.3%</td></tr> <tr><td>7 letter words</td><td>14</td><td>8.6%</td></tr> <tr><td>8 letter words</td><td>12</td><td>7.4%</td></tr> <tr><td>9 letter words</td><td>14</td><td>8.6%</td></tr> <tr><td>10 letter words</td><td>12</td><td>7.4%</td></tr> <tr><td>11 letter words</td><td>2</td><td>1.2%</td></tr> <tr><td>12 letter words</td><td>1</td><td>0.6%</td></tr> <tr><td>14 letter words</td><td>2</td><td>1.2%</td></tr> <tr><td>16 letter words</td><td>2</td><td></td></tr> </tbody> </table>	Length	Count	Graph	1 letter words	3	11.8%	2 letter words	27	16.6%	3 letter words	38	23.3%	4 letter words	16	9.8%	5 letter words	16	9.8%	6 letter words	7	4.3%	7 letter words	14	8.6%	8 letter words	12	7.4%	9 letter words	14	8.6%	10 letter words	12	7.4%	11 letter words	2	1.2%	12 letter words	1	0.6%	14 letter words	2	1.2%	16 letter words	2		<p>Biology Text 2</p> <p>Text Statistics</p> <p>General Statistics</p> <p>Total Word Count: 151 Total Unique Words: 103 Number of Sentences: 11 Average Sentence Length: 13.73 Number of Paragraphs: 1 Hard Words: 35 (23.18%) (what's this?) Lexical Density: 68.21% (what's this?) Fog Index: 14.76 (what's this?)</p> <p>Word Length Breakdown</p> <table border="1"> <thead> <tr><th>Length</th><th>Count</th><th>Graph</th></tr> </thead> <tbody> <tr><td>1 letter words</td><td>8</td><td>5.3%</td></tr> <tr><td>2 letter words</td><td>25</td><td>16.6%</td></tr> <tr><td>3 letter words</td><td>19</td><td>12.6%</td></tr> <tr><td>4 letter words</td><td>17</td><td>11.3%</td></tr> <tr><td>5 letter words</td><td>14</td><td>9.3%</td></tr> <tr><td>6 letter words</td><td>7</td><td>4.6%</td></tr> <tr><td>7 letter words</td><td>9</td><td>6.0%</td></tr> <tr><td>8 letter words</td><td>7</td><td>4.6%</td></tr> <tr><td>9 letter words</td><td>16</td><td>10.6%</td></tr> <tr><td>10 letter words</td><td>14</td><td>9.3%</td></tr> <tr><td>11 letter words</td><td>4</td><td>2.6%</td></tr> <tr><td>12 letter words</td><td>4</td><td>2.6%</td></tr> <tr><td>13 letter words</td><td>3</td><td>2.0%</td></tr> <tr><td>14 letter words</td><td>2</td><td>1.3%</td></tr> <tr><td>15 letter words</td><td>1</td><td>0.7%</td></tr> <tr><td>17 letter words</td><td>1</td><td>0.7%</td></tr> </tbody> </table>	Length	Count	Graph	1 letter words	8	5.3%	2 letter words	25	16.6%	3 letter words	19	12.6%	4 letter words	17	11.3%	5 letter words	14	9.3%	6 letter words	7	4.6%	7 letter words	9	6.0%	8 letter words	7	4.6%	9 letter words	16	10.6%	10 letter words	14	9.3%	11 letter words	4	2.6%	12 letter words	4	2.6%	13 letter words	3	2.0%	14 letter words	2	1.3%	15 letter words	1	0.7%	17 letter words	1	0.7%
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<p>Biology Text 3</p> <p>Text Statistics</p> <p>General Statistics</p> <p>Total Word Count: 171 Total Unique Words: 108 Number of Sentences: 7 Average Sentence Length: 24.43 Number of Paragraphs: 1 Hard Words: 36 (21.05%) (what's this?) Lexical Density: 63.16% (what's this?) Fog Index: 18.19 (what's this?)</p> <p>Word Length Breakdown</p> <table border="1"> <thead> <tr><th>Length</th><th>Count</th><th>Graph</th></tr> </thead> <tbody> <tr><td>1 letter words</td><td>4</td><td>2.3%</td></tr> <tr><td>2 letter words</td><td>33</td><td>19.3%</td></tr> <tr><td>3 letter words</td><td>25</td><td>14.6%</td></tr> <tr><td>4 letter words</td><td>20</td><td>11.7%</td></tr> <tr><td>5 letter words</td><td>5</td><td>2.9%</td></tr> <tr><td>6 letter words</td><td>11</td><td>6.4%</td></tr> <tr><td>7 letter words</td><td>21</td><td>12.3%</td></tr> <tr><td>8 letter words</td><td>8</td><td>4.7%</td></tr> <tr><td>9 letter words</td><td>6</td><td>3.5%</td></tr> <tr><td>10 letter words</td><td>13</td><td>7.6%</td></tr> <tr><td>11 letter words</td><td>7</td><td>4.1%</td></tr> <tr><td>12 letter words</td><td>6</td><td>3.5%</td></tr> <tr><td>13 letter words</td><td>9</td><td>5.3%</td></tr> <tr><td>14 letter words</td><td>2</td><td>1.2%</td></tr> <tr><td>15 letter words</td><td>1</td><td>0.6%</td></tr> </tbody> </table>	Length	Count	Graph	1 letter words	4	2.3%	2 letter words	33	19.3%	3 letter words	25	14.6%	4 letter words	20	11.7%	5 letter words	5	2.9%	6 letter words	11	6.4%	7 letter words	21	12.3%	8 letter words	8	4.7%	9 letter words	6	3.5%	10 letter words	13	7.6%	11 letter words	7	4.1%	12 letter words	6	3.5%	13 letter words	9	5.3%	14 letter words	2	1.2%	15 letter words	1	0.6%	<p>Biology Text 4</p> <p>Text Statistics</p> <p>General Statistics</p> <p>Total Word Count: 187 Total Unique Words: 105 Number of Sentences: 6 Average Sentence Length: 31.17 Number of Paragraphs: 1 Hard Words: 32 (17.11%) (what's this?) Lexical Density: 56.15% (what's this?) Fog Index: 19.31 (what's this?)</p> <p>Word Length Breakdown</p> <table border="1"> <thead> <tr><th>Length</th><th>Count</th><th>Graph</th></tr> </thead> <tbody> <tr><td>1 letter words</td><td>7</td><td>3.7%</td></tr> <tr><td>2 letter words</td><td>36</td><td>19.3%</td></tr> <tr><td>3 letter words</td><td>32</td><td>17.1%</td></tr> <tr><td>4 letter words</td><td>18</td><td>9.6%</td></tr> <tr><td>5 letter words</td><td>13</td><td>7.0%</td></tr> <tr><td>6 letter words</td><td>19</td><td>10.2%</td></tr> <tr><td>7 letter words</td><td>13</td><td>7.0%</td></tr> <tr><td>8 letter words</td><td>21</td><td>11.2%</td></tr> <tr><td>9 letter words</td><td>9</td><td>4.8%</td></tr> <tr><td>10 letter words</td><td>5</td><td>2.7%</td></tr> <tr><td>11 letter words</td><td>4</td><td>2.1%</td></tr> <tr><td>12 letter words</td><td>6</td><td>3.2%</td></tr> <tr><td>13 letter words</td><td>2</td><td>1.1%</td></tr> <tr><td>20 letter words</td><td>1</td><td>0.5%</td></tr> <tr><td>23 letter words</td><td>1</td><td>0.5%</td></tr> </tbody> </table>	Length	Count	Graph	1 letter words	7	3.7%	2 letter words	36	19.3%	3 letter words	32	17.1%	4 letter words	18	9.6%	5 letter words	13	7.0%	6 letter words	19	10.2%	7 letter words	13	7.0%	8 letter words	21	11.2%	9 letter words	9	4.8%	10 letter words	5	2.7%	11 letter words	4	2.1%	12 letter words	6	3.2%	13 letter words	2	1.1%	20 letter words	1	0.5%	23 letter words	1	0.5%
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Text Statistics				Text Statistics			
General Statistics		Word Length Breakdown		General Statistics		Word Length Breakdown	
Total Word Count:	248	Length	Count	Total Word Count:	187	Length	Count
Total Unique Words:	123	1 letter words	10	Total Unique Words:	110	1 letter words	5
Number of Sentences:	9	2 letter words	35	Number of Sentences:	10	2 letter words	27
Average Sentence Length:	27.56	3 letter words	28	Average Sentence Length:	18.70	3 letter words	32
Number of Paragraphs:	1	4 letter words	46	Number of Paragraphs:	1	4 letter words	22
Hard Words:	24 (9.68%) (what's this?)	5 letter words	34	Hard Words:	40 (21.39%) (what's this?)	5 letter words	18
Lexical Density:	49.60% (what's this?)	6 letter words	34	Lexical Density:	58.82% (what's this?)	6 letter words	13
Fog Index:	14.89 (what's this?)	7 letter words	17	Fog Index:	16.04 (what's this?)	7 letter words	12
		8 letter words	9			8 letter words	25
		9 letter words	7			9 letter words	6
		10 letter words	8			10 letter words	12
		11 letter words	11			11 letter words	6
		12 letter words	7			12 letter words	4
		13 letter words	2			13 letter words	4
		14 letter words	1			14 letter words	2
						15 letter words	2

Text Statistics				Text Statistics			
General Statistics		Word Length Breakdown		General Statistics		Word Length Breakdown	
Total Word Count:	178	Length	Count	Total Word Count:	161	Length	Count
Total Unique Words:	107	1 letter words	1	Total Unique Words:	99	2 letter words	31
Number of Sentences:	10	2 letter words	28	Number of Sentences:	8	3 letter words	19
Average Sentence Length:	17.80	3 letter words	19	Average Sentence Length:	20.12	4 letter words	25
Number of Paragraphs:	1	4 letter words	29	Number of Paragraphs:	1	5 letter words	13
Hard Words:	23 (12.92%) (what's this?)	5 letter words	28	Hard Words:	31 (19.25%) (what's this?)	6 letter words	10
Lexical Density:	60.11% (what's this?)	6 letter words	9	Lexical Density:	61.49% (what's this?)	7 letter words	12
Fog Index:	12.29 (what's this?)	7 letter words	29	Fog Index:	15.75 (what's this?)	8 letter words	9
		8 letter words	12			9 letter words	18
		9 letter words	10			10 letter words	10
		10 letter words	8			11 letter words	5
		11 letter words	2			12 letter words	4
		12 letter words	1			13 letter words	5
		13 letter words	1			14 letter words	1
		14 letter words	1				
		17 letter words	1				

From the eight Biology abstracts, it can be summarized the average of the Fog Index or reading level as described in the following table.

TABLE IV
FOG INDEX OR READING LEVEL OF BIOLOGY ABSTRACTS

Fog Index or Reading Level of Biology Abstracts								
	Text 1	Text 2	Text 3	Text 4	Text 5	Text 6	Text 7	Text 8
Average	14.47	14.76	18.19	19.31	14.89	16.04	12.29	15.75
	15.7							

TABLE IV
THE TEXT STATISTICS OF THE LINGUISTICS ABSTRACTS

Linguistics Text 1				Linguistics Text 2			
Text Statistics		Text Statistics					
General Statistics		Word Length Breakdown		General Statistics		Word Length Breakdown	
Total Word Count:	123	Length	Count	Total Word Count:	201	Length	Count
Total Unique Words:	70	1 letter words	3	Total Unique Words:	108	1 letter words	3
Number of Sentences:	5	2 letter words	19	Number of Sentences:	7	2 letter words	34
Average Sentence Length:	24.60	3 letter words	21	Average Sentence Length:	28.71	3 letter words	33
Number of Paragraphs:	1	4 letter words	21	Number of Paragraphs:	1	4 letter words	26
Hard Words:	19 (15.45%) (what's this?)	5 letter words	8	Hard Words:	38 (18.91%) (what's this?)	5 letter words	13
Lexical Density:	56.91% (what's this?)	6 letter words	10	Lexical Density:	53.73% (what's this?)	6 letter words	11
Fog Index:	16.02 (what's this?)	7 letter words	8	Fog Index:	19.05 (what's this?)	7 letter words	15
		8 letter words	9			8 letter words	28
		9 letter words	16			9 letter words	8
		10 letter words	4			10 letter words	12
		11 letter words	2			11 letter words	6
		12 letter words	1			12 letter words	4
		13 letter words	1			13 letter words	4
						14 letter words	2
						17 letter words	1
						20 letter words	1

<h3>Linguistics Text 3</h3> <h4>Text Statistics</h4> <table border="0"> <tr> <th colspan="2">General Statistics</th> <th colspan="3">Word Length Breakdown</th> </tr> <tr> <td>Total Word Count:</td> <td>122</td> <td>Length</td> <td>Count</td> <td>Graph</td> </tr> <tr> <td>Total Unique Words:</td> <td>76</td> <td>1 letter words</td> <td>2</td> <td>11.6%</td> </tr> <tr> <td>Number of Sentences:</td> <td>4</td> <td>2 letter words</td> <td>21</td> <td>17.2%</td> </tr> <tr> <td>Average Sentence Length:</td> <td>30.50</td> <td>3 letter words</td> <td>14</td> <td>11.5%</td> </tr> <tr> <td>Number of Paragraphs:</td> <td>1</td> <td>4 letter words</td> <td>11</td> <td>9.0%</td> </tr> <tr> <td>Hard Words:</td> <td>24 (19.67%) (what's this?)</td> <td>5 letter words</td> <td>14</td> <td>11.5%</td> </tr> <tr> <td>Lexical Density:</td> <td>62.30% (what's this?)</td> <td>6 letter words</td> <td>12</td> <td>9.8%</td> </tr> <tr> <td>Fog Index:</td> <td>20.07 (what's this?)</td> <td>7 letter words</td> <td>13</td> <td>10.7%</td> </tr> <tr> <td></td> <td></td> <td>8 letter words</td> <td>11</td> <td>9.0%</td> </tr> <tr> <td></td> <td></td> <td>9 letter words</td> <td>8</td> <td>6.6%</td> </tr> <tr> <td></td> <td></td> <td>10 letter words</td> <td>4</td> <td>3.3%</td> </tr> <tr> <td></td> <td></td> <td>11 letter words</td> <td>3</td> <td>2.5%</td> </tr> <tr> <td></td> <td></td> <td>12 letter words</td> <td>2</td> <td>1.6%</td> </tr> <tr> <td></td> <td></td> <td>13 letter words</td> <td>2</td> <td>1.6%</td> </tr> <tr> <td></td> <td></td> <td>14 letter words</td> <td>4</td> <td>3.3%</td> </tr> </table>	General Statistics		Word Length Breakdown			Total Word Count:	122	Length	Count	Graph	Total Unique Words:	76	1 letter words	2	11.6%	Number of Sentences:	4	2 letter words	21	17.2%	Average Sentence Length:	30.50	3 letter words	14	11.5%	Number of Paragraphs:	1	4 letter words	11	9.0%	Hard Words:	24 (19.67%) (what's this?)	5 letter words	14	11.5%	Lexical Density:	62.30% (what's this?)	6 letter words	12	9.8%	Fog Index:	20.07 (what's this?)	7 letter words	13	10.7%			8 letter words	11	9.0%			9 letter words	8	6.6%			10 letter words	4	3.3%			11 letter words	3	2.5%			12 letter words	2	1.6%			13 letter words	2	1.6%			14 letter words	4	3.3%	<h3>Linguistics Text 4</h3> <h4>Text Statistics</h4> <table border="0"> <tr> <th colspan="2">General Statistics</th> <th colspan="3">Word Length Breakdown</th> </tr> <tr> <td>Total Word Count:</td> <td>200</td> <td>Length</td> <td>Count</td> <td>Graph</td> </tr> <tr> <td>Total Unique Words:</td> <td>122</td> <td>1 letter words</td> <td>15</td> <td>7.5%</td> </tr> <tr> <td>Number of Sentences:</td> <td>7</td> <td>2 letter words</td> <td>32</td> <td>16.0%</td> </tr> <tr> <td>Average Sentence Length:</td> <td>28.57</td> <td>3 letter words</td> <td>41</td> <td>20.5%</td> </tr> <tr> <td>Number of Paragraphs:</td> <td>1</td> <td>4 letter words</td> <td>32</td> <td>16.0%</td> </tr> <tr> <td>Hard Words:</td> <td>25 (12.50%) (what's this?)</td> <td>5 letter words</td> <td>19</td> <td>9.5%</td> </tr> <tr> <td>Lexical Density:</td> <td>61.00% (what's this?)</td> <td>6 letter words</td> <td>13</td> <td>6.5%</td> </tr> <tr> <td>Fog Index:</td> <td>16.43 (what's this?)</td> <td>7 letter words</td> <td>17</td> <td>8.5%</td> </tr> <tr> <td></td> <td></td> <td>8 letter words</td> <td>10</td> <td>5.0%</td> </tr> <tr> <td></td> <td></td> <td>9 letter words</td> <td>6</td> <td>3.0%</td> </tr> <tr> <td></td> <td></td> <td>10 letter words</td> <td>7</td> <td>3.5%</td> </tr> <tr> <td></td> <td></td> <td>11 letter words</td> <td>9</td> <td>4.5%</td> </tr> <tr> <td></td> <td></td> <td>12 letter words</td> <td>2</td> <td>1.0%</td> </tr> <tr> <td></td> <td></td> <td>14 letter words</td> <td>1</td> <td>0.5%</td> </tr> </table>	General Statistics		Word Length Breakdown			Total Word Count:	200	Length	Count	Graph	Total Unique Words:	122	1 letter words	15	7.5%	Number of Sentences:	7	2 letter words	32	16.0%	Average Sentence Length:	28.57	3 letter words	41	20.5%	Number of Paragraphs:	1	4 letter words	32	16.0%	Hard Words:	25 (12.50%) (what's this?)	5 letter words	19	9.5%	Lexical Density:	61.00% (what's this?)	6 letter words	13	6.5%	Fog Index:	16.43 (what's this?)	7 letter words	17	8.5%			8 letter words	10	5.0%			9 letter words	6	3.0%			10 letter words	7	3.5%			11 letter words	9	4.5%			12 letter words	2	1.0%			14 letter words	1	0.5%															
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TABLE V
FOG INDEX OR READING LEVEL OF LINGUISTICS ABSTRACTS

Fog Index or Reading Level of Linguistics Abstracts								
	Text 1	Text 2	Text 3	Text 4	Text 5	Text 6	Text 7	Text 8
Average	16.02	19.05	20.07	16.43	24.31	18.29	16.50	12.58
	17.9							

Besides counting the average of the Fog Index or Reading Level from the data in table 4 and table 5, the present writer could calculate the Fog Index or Reading Level the Biology and Linguistics abstracts from the table 2 as described in the following.

$$\text{Fog Index/ Reading Level (Grade)} = (22.10 + 17.18) \times 0.4 = 39.28 \times 0.4 = 15.7$$

Based on the calculation, the average of the Reading Level or the Fog Index of the abstracts in Biology texts is 15.7 while the Linguistics texts as followed.

$$\text{Fog Index/ Reading Level (Grade)} = (29.37 + 15.28) \times 0.4 = 44.65 \times 0.4 = 17.9$$

From the above calculation the Reading Level or the Fog Index of the abstracts in Linguistics texts is 17.9. From the data it can be concluded that the abstracts in the Linguistics texts are more difficult to understand than the Biology does since the Linguistics reading level is higher than the Biology.

Heydari (2012) describes the relation of the Reading level or Fog Index and estimated Reading Grades as described in the table 3.

TABLE III
FOG INDEX AND ESTIMATED READING GRADES

	<i>Fog-Index</i>	<i>Estimated Reading Grades</i>
	17	College graduate
	16	College senior
	15	College junior
	14	College sophomore
<i>Danger line</i>	13	College freshman
	12	High school senior
	11	High school junior
	10	High school sophomore
<i>Easy Reading Range</i>	9	High school freshman
	8	Eighth grade
	7	Seventh grade
	6	Sixth grade

From the Heydari's table in table 3, the average of the Fog index of the abstracts in Biology texts (15.71) is classified into in between College Junior and College Senior while the Linguistics texts (17.86) is classified into College Graduate as the highest estimated reading grades.

IV. CONCLUSION

After doing the analysis, the present writer concludes that the reading grades of the abstracts of the Linguistics texts is classified into College Graduate while the Biology texts is in between College Junior and College Senior since the Biology abstracts have many sentences than Linguistics texts does, Linguistics abstracts have many words in sentence that Biology abstracts does, Biology abstracts have more hard words than Linguistics abstracts do.

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