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Bottom-up or Top-down Reading Strategies: Reading Strategies used by ELESP Students'

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ABSTRACT

To strengthen the understanding of reading, a reader needs to apply a certain strategy. Although previous research on reading strategies has been carried out, little research has been devoted to investigating reading strategies involving EFL learners. This study aimed to find out the reading strategies used by the students of the English Language Education Study Program of FKIP ULM. It applied a descriptive quantitative approach involving 60 students. The data was collected by using a questionnaire and interview guidelines. The findings showed that students employed bottom-up and top-down strategies, such as reading the title to determine the text's main idea, reading the first paragraph, concentrating on the first and last sentences, reading the passage quickly, reading the difficult part aloud, focusing on the first sentence, guessing the meaning, and taking notes. These findings suggest that more exercises are needed to develop reading strategies to help students achieve the reading target more effectively.

Keywords: Bottom-up, reading, reading strategies, top-down.

1. INTRODUCTION

English is the main international language taught in Indonesian schools. The expectation is that school graduates will be able to compete at an international level that requires English proficiency in the four language skills such as listening, speaking, reading, and writing. Regarding reading skills, many Indonesian students are still not aware of the benefits of having good reading habits, let alone reading in English as a foreign language.

Reading in foreign language contexts has always remained an important issue [1]. In terms of reading skills, Grabe and Stoller [1] defined reading as "the ability to draw meaning from the printed page and interpret this information appropriately". It is influenced by three factors: the text, the reader, and the reading situation. They read as beginning with identifying the smallest units of language, i.e., letters, which are followed by the next level (words) that are joined together to make sentences, which in turn make paragraphs. English language learners who use at least two languages for processing struggle with developing English reading comprehension skills. They have culturally different schemata and limited English vocabulary knowledge [2].

Specifying a purpose for reading, planning what to do or what steps to take, previewing the text, predicting the contents of the text or section of the text, checking predictions, posing questions about the text, finding answers to posed questions, connecting text to

background knowledge, summarizing information, rereading, guessing the meaning of a new word from context, utilizing discourse markers to see the relationship, connecting one portion of the text to another, paying attention to text structure, rereading, guessing the meaning of a new word from context, critiquing the author, critiquing the text, determining how well the reasons for reading were met, commenting on what was learned from the text and making inferences are all common reading strategies used by readers. [3].

Reading ability is measured at all levels of the educational system, including university students in Indonesia. The standard of competence and basic competencies of English reading skills for university students that must be achieved is to understand academic literacy. However, there are several main problems faced by students in reading comprehension. The students still have difficulty finding the general idea of a text, identifying the meaning of words, and finding main ideas.

To overcome the problems above, there are two kinds of reading strategies. The first is bottom-up; it focuses on the development of basic skills, matching sounds with letters, syllables, and words used in writing the text. The second strategy is top-down, which is based on the reader's prior knowledge to comprehend a written text. Reading activities of the bottom-up strategy starts from a basic introduction to writing and sounding out words to recognize the grapheme, morpheme, and word, and identify grammatical structures, sentences,

and text. In a top-down strategy, the reading activities begin with forecasting from the title of the reading text that permits them to restrict the scope of their reading.

Studies have been carried out to investigate reading strategies applied by EFL learners. The results show that EFL learners are aware of almost all effective reading strategies, though each one is not used individually [4]. Another study found that EFL learners used global strategies, problem-solving strategies, and support strategies [5]. Hence, this study focuses on investigating the reading strategies applied by students, that is the bottom-up and top-down reading strategies. This research aims to investigate the reading strategies used by ELESF students of the FKIP ULM batch 2019, specifically the top-down and bottom-up reading strategies.

2. LITERATURE REVIEW

Reading is one of the important academic skills needed by students as a source of knowledge and gratification. Reading can be described as a process of decoding, interpreting, and comprehending written information. It's a thorough procedure. It implies perceiving and identifying letters, words, spelling patterns, and major linguistic units in a precise, sequential manner [6]. Reading is a guessing game in psycholinguistics. It entails the interaction between thinking and words.

There are at least five main purposes for comprehensive reading [7]. All these purposes require the necessary skills to be accomplished efficiently. These purposes include:

- a. Reading for Specific Information
- b. Application Reading
- c. Reading for Pleasure and Entertainment
- d. Reading for Ideas
- e. Reading for Understanding
- f. Reading for Information
- g. Reading for General Main Points
- h. Selected Main Points Reading

Reading strategies are planned, goal-oriented acts that help readers comprehend and develop the meaning of a text. Reading strategies are "mental processes that readers consciously choose to use in accomplishing reading tasks" [8]. Reading strategies are cognitive games in which readers engage in a variety of interactions with textual content. This includes planning, deciding the purpose, and selecting what to read before reading [9]. Reading strategies are heuristic techniques or procedures that readers use to process and comprehend information offered in a text.

The importance of reading strategies in developing learners' reading proficiency has been supported by various empirical research, which will be discussed later in this paper. Talking about reading strategies, Hall [10] argued "it is sometimes difficult to distinguish a learning strategy from 'an immediate coping technique',

and strategies can also be applied automatically even though they are commonly conceptualized as conscious actions." As a result, a strategic reader should be adaptive to a variety of reading situations and be able to choose the best strategy for each situation to enhance comprehension.

Many reading strategies can be used by the readers' activity of reading. The strategies will help them comprehend the text. Rice [11] confirms this claim by presenting a variety of pre-reading, reading, and post-reading strategies that a reader could employ. Setting reading goals, thinking about what is already known about the topic, and studying the structure of a text are all strategies he recommends before starting to read. Activating prior knowledge, creating connections between essential ideas, overcoming comprehension challenges, drawing notes in the margins, or underlining major points of the material are all examples of while-reading strategies. Re-reading significant points, skimming the material, or summarizing the passage are all examples of post-reading strategies.

Additionally, effective readers employ strategies to comprehend what they read before, during, and after reading [12].

1. Before reading, they:
 - a) Use prior knowledge to think about the topics.
 - b) Make predictions about the probable meaning of the text.
 - c) Preview the text by skimming and scanning to get a sense of the overall meaning.
2. During reading, they:
 - a) Identifying what is important.
 - b) Monitor understanding by questioning, thinking about, and reflecting on the ideas and information in the text.
 - c) Anticipating what is to come next.
3. After reading, they:
 - a) Reflect upon the ideas and information in the text.
 - b) Make connections between what they've read and their own experiences and expertise.
 - c) Clarify their understanding of the text.
 - d) Extend their understanding in critical and creative ways.

Many experts in reading have classified the strategies of reading into various strategies which are bottom-up, top-down, and interactive models [13].

a. Bottom-up Strategies

This strategy is described as a procedure that incorporates perceptual accuracy, sound, and the ability to discover a series of texts, words, spelling patterns, and other language units. Readers attempt to comprehend the text by constructing meaning from the smallest to the greatest components.

Bottom-up reading strategies do not cover the full picture of the reading process, especially for meaningful

comprehension [14]. Bottom-up reading is the strategy to interpret letters, sounds, words, and structures until the entire text is decoded to comprehend the meaning of the text, and it is often used in the lower-level reading process. This may also explain why many students become vocalized and subvocalized readers.

According to the explanation above, bottom-up reading strategies involve analyzing the linguistics units. Readers attempt to comprehend the text by building textual meaning from the smallest to the greatest units, then changing prior information and making predictions.

b. Top-down Strategies

Top-down reading strategy is characterized as a reading procedure or psycholinguistics guessing game. Top-down reading strategies emphasize the importance of schemata, or prior experiences and background knowledge, in understanding a literary work. In top-down reading strategies, the reader must have knowledge, comprehension, and language skills that play a major role in interpreting the meaning of the text [15].

The top-down reading strategy posits that reading earnings through the processing of larger units of language. In other words, the focus of these strategies is on the knowledge a reader possesses. These reading strategies explain that readers bring other knowledge sources into the reading process. Rather than perceiving readers as passive decoders of meaning, as in the bottom-up explanation, readers are reconstructing meaning from the text.

c. Interactive model

In the interactive model, according to [16], the reader engages with the text to expand its meaning, and he or she combines many types of knowledge, including linguistic or common knowledge (as a result of bottom-up processing) and schematic knowledge (through top-down processing). Compared to strictly top-down or bottom-up reading strategies, interactive reading models appear to provide a more accurate conception of reading success. Interactive models provide a better estimate of the existing information on the use of orthographic, linguistic, syntactic, semantic knowledge, and conceptual frameworks when combined with an assumption of compensatory processing, which assumes that a deficit in any specific process will result in a significant reliance on other sources of knowledge, regardless of their level in the processing hierarchy [17].

Some research has been conducted focusing on reading strategy. The study [18] explored the use of English as a Foreign Language (EFL) reading strategies used by high school students. The results of the research indicated a high awareness of reading strategy use among EFL high school students. Global reading strategies were picked by students, followed by problem-solving strategies and support strategies. Female students were more likely than male students to

employ EFL reading strategies. The effects of employing EFL reading skills were also mentioned.

With an eye to the aforementioned studies representing the preferred reading strategies on reading comprehension, this study focuses on bottom-up and top-down reading strategies of L2 reading strategies in ELESP students at FKIP Lambung Mangkurat University in Banjarmasin.

3. METHOD

This research used a descriptive quantitative approach to identify the most preferred reading strategies students apply when reading English texts. The subjects of the research were 60 students of ELESP FKIP ULM selected by using the purposive sampling technique. To collect the data, questionnaires and interview guidelines were utilized.

The Survey of Reading Strategies (SORS) was used to measure the frequency of reading strategies that EFL learners applied while reading English texts. Meanwhile, the Reading Strategies Questionnaire (RSQ) was used to assess two main types of reading strategies: top-down and bottom-up. Both questionnaires were of the closed-ended type.

In analyzing the data, descriptive statistics were used to rank order the preferred reading strategies used by students. Finally, an interview was carried out to explore the detailed data of what reading strategies they used and strengthen the data from the questionnaires.

The key for interpreting students' responses in the questionnaires is presented in Table 1.

Table 1. Key to Measure the Use of Reading Strategies

Mean Score	Level of Reading Strategies Use
1.0-1.9	Very low use
2.0-2.4	Low use
2.5-3.4	Medium use
3.5-3.9	High use
4.0-5.0	Very High use

4. RESULT AND DISCUSSION

4.1 Students Reading Strategies while Reading English Text

The first section of the questionnaire was used to measure the frequency of reading strategies that EFL learners applied while reading English texts. The following statistics below were computed for this section:

Table 2. The Descriptive Statistics of Survey of Reading Strategies by Means

No	Item Description	N	Mean	SD
1	When text becomes difficult, I do read too	60	4.4667	0.74712

	slowly for my study needs.			
2	I guess the meaning of unfamiliar words or phrases when I'm reading.	60	4.3667	0.75838
3	When I read, I guess the meaning of unknown words or phrases.	60	4.1833	0.81286
4	Before reading, I do predict by looking at the title.	60	4.1833	0.74769

As the data exhibits, the mean score for item 1 is 4.4667 (very high use--- M> 4.0) while the mean score for items 2, 3, 4 are lower but still in very high use student reading strategies. If the text is difficult to grasp, the students slow down their reading to understand the content of the text. Related to item number 1, the findings indicate that most ELESF students think when the sentences become difficult to understand, they will read them again to find the meaning of the text. Besides taking care of the reading speed the participants also prefer to predict the content of the text by looking at the title and guessing the meaning of unknown words or phrases as item number 3 and 4 stated.

4.2 Measurement of Bottom-up and Top-Down Reading Strategies.

The Reading Strategies Questionnaire (RSQ) was utilized to measure two kinds of reading strategies: bottom-up and top-down reading strategies.

Table 3. The Descriptive Statistics of Reading Strategies (Bottom-up and Top-Down)

No	Item Description	B/T	Mean	SD
9	Depending on the text's difficulty, I adjust my reading speed.	B	4.0833	0.82937
2	I use the title to help predict the contents.	T	3.9667	0.84305
8	I start reading from the first paragraph and read through to the last paragraph.	B	3.8667	0.99943
13	If I do not understand something such as a word or phrase, I guess it means using clues from the text.	T	3.8333	0.84706

The results of the survey show that two types of reading strategies were measured: bottom-up and top-down reading strategies. Bottom-up reading strategies are the most commonly used reading strategies by students. Bottom-up reading strategies are related to strategies implemented to interpret the subsequent starting from the small component, which includes word level to sentence level. It means most ELESF students try to understand language by looking at individual meanings of grammatical characteristics of the most basic unit of the text (words for reading).

Related to the interview result, it showed that SNO, RE, and N agreed with the most chosen statement in the questionnaire. Bottom-up reading strategies adjust the rate of reading depending on the text difficulty. The habit of following the line in the text with a pen or finger is a simple thing, but it turns out to be one of the characteristics of bottom-up reading strategies. In the interview, RE said that if she does not know the specific meaning of terms in the text, she tries to figure out what they imply by looking at the context.

SNO and N prefer to start reading from the first paragraph and read through to the last paragraph if they understand the context of the text. SNO, RE, and N have the same habit of reading the difficult section aloud to trigger their knowledge about the difficult word. Both of them pay more attention to the sentence's tense and adjust their reading speed according to the text's complexity. Meanwhile, RE prefers to decide what she should pay attention to and what she should ignore when reading texts.

The result of the interview also strengthens the findings of top-down reading strategies. MA and HPL as a representative of top-down reading strategies agreed with the statement in the questionnaire "I use the title to help predict the contents". When reading a text, MA makes a figure/picture in his mind about what the text is saying. Top-down reading strategies focus on the knowledge a reader possesses. Skipping the sentences that are not understood is one of the characteristics of top-down reading strategies. Meanwhile, bottom-up reading strategies try to understand the meaning of each word in the text.

Based on the findings, the reading strategies that were mostly used are bottom-up reading strategies followed by top-down reading strategies in the second position. Students employed bottom-up and top-down strategies, such as reading the title to determine the text's main idea, reading the first paragraph, concentrating on the first and last sentences, reading the passage quickly, reading the difficult part aloud, focusing on the first sentence, guessing the meaning, and taking notes.

By using bottom-up reading strategies, the students are trying to understand the meaning of words by using the context. One of the characteristics of bottom-up reading strategies is reading the difficult section aloud. Reading aloud helped students gain confidence in their ability to pronounce new or unfamiliar words, and it also increased their ability to memorize words [19].

Moreover, the bottom-up strategy wastes more time while reading, but the students say it does not matter because online learning in the pandemic era COVID-19 makes them have more time to read the whole text.

The second set of strategies used by ELESF students are top-down reading strategies. Students which use top-down reading strategies have their aim in mind by guessing what the text's theme or substance will be about and using their prior knowledge to comprehend and overview the text [20]. The students briefly considered what they might confront in the literary texts to gain an overview of the author's ideas. Readers can use predictions, activating background knowledge, and then checking confirmation, and then checking confirmation or refutations of the predictions in top-down strategies [12].

Scanning was used by students. Scanning suggested reading slowly and carefully and picking out certain keywords or phrases [21]. Students used scanning when they found questions about specific information. In line with top-down reading strategies, marking important parts is one of the characteristics. Students who have top-down reading strategies prefer to underline important parts while they are reading English text. They used this strategy to identify important information. Scanning helped them to find the specific information more easily.

Related to the speed of reading, most students with bottom-up strategies prefer to adjust the rate of reading depending on the text's difficulty. The purpose is to understand the meaning of each word in the text. The participants are also rereading the difficult section of the text. Beale [22] pointed out speed reading strategies as "people who know how to skim and scan are flexible readers. They read according to their purpose and get the information they need quickly without wasting time. They do not need everything that increases their reading speed." Reading slowly can make the brain wander and it will not remember anything. Reading too fast can cause the information to be lost.

Bottom-up reading strategies result in students following the lines in the text with a pen or finger to ensure sentence structure and understanding of what each pronoun refers to. The reader tries to understand the text by relying on the visual information that is on the page [23]. The brain plays an important role in interpreting the words that come from the brain, and it makes someone read faster. They combine the word meaning to get the understanding of phrases, sentences, and paragraphs until they reach the entire meaning while following the lines in the text. Students claimed that those strategies helped them focus when reading text.

Guessing was used by ELESF students' batch 2019 in the reading activity. They used it in identifying vocabulary. The students guessed the meaning of vocabulary by considering the text and context. Relating the background knowledge to the textual information is also used while they are reading. Therefore, it helped them identify vocabulary. Related to the top-down

strategies, contextual guessing is the most important skill used by most readers in attacking new words [24].

Talking about visualization in reading, readers tend to imagine things they are reading. When they can construct their imagination to be alive, the process of comprehending messages is ongoing. In line with the statement, [25] stated mental imagery expects readers to develop images of the text in their minds; however, there might be a possibility that learners do not follow the instruction. Thus, instructing participants to create visual images of the text might be a potential strategy to interpret and process the message.

CONCLUSION

Based on the analysis of the findings, there were two reading strategies widely used by English Language Education Study Program students batch 2019 in EFL reading, namely: bottom-up reading strategies followed by top-down reading strategies in the second position. The result found that students with bottom-up reading strategies are trying to understand the meaning of words by using context. The characteristics of bottom-up reading strategies that have been found in this study are: reading the difficult section aloud, rereading the difficult part, and following the line in the text with a pen or finger. The second set of strategies used by students are top-down reading strategies. Students with top-down reading strategies emphasize previous experience and relating the background knowledge to the textual information while they are reading. Moreover, the results showed that students used scanning when they found a question about specific information. Students underline the important parts while reading an English text. In line with top-down reading strategies, marking the important parts is one of the characteristics. Although participants already have their reading strategies, they also adjust the reading strategy they use according to the situation.

AUTHORS' CONTRIBUTIONS

Author 1 contributed to the design of the study, data collection, and data analysis. Authors 2 and 3 were involved in research design, data analysis, and the writing format.

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