

# ABS 29

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**Cognitive Style and Learning Strategy Effect on The Students' Ability in  
Writing Indonesian Narrative Text**

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**ABSTRACT**

This paper investigates cognitive style and learning strategy effect on students' ability in writing narrative text in bahasa Indonesia. This study was conducted on the VII grade students at Madrasah Tsanawiyah Ibnu Taimiyah Bogor, West Java. Treatment by level design and two-factorial ANOVA analysis with  $\alpha = 0.05$  were applied in this experimental study. The sample was 40 students grouped into experiment classes and 40 students was grouped into control classes. To collect the data, this research were used writing test and GEFT instruments. The findings showed the ability to write a narrative writing in Bahasa Indonesia of students having a field independent cognitive style was higher than that of students having a field dependent cognitive style.

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**Keywords.**

inquiry-based communicative learning strategy, expository-based communicative learning strategy, writing narrative text, cognitive style

**1. Introduction**

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That writing is the most difficult skill for the second language to master, there is no doubt. As stated by Richards and Renandya, the difficulty lies not only in generating and organizing ideas, but also in translating these ideas into readable text (Richards & Renandya, 2002, p. 303). That case, the difficulty in writing learning conducted on grade VII MTs Ibnu Taimiyah's students. Their narrative text in bahasa Indonesia insufficient in ideas, organizing, function of word, and mechanic.

In a learning process, the teacher should be creative to find an appropriate leaning strategy. As stated by Brown, an interaction between the approach and practice of teaching in class is a key to the creation of dynamic and spirited teaching (Richards & Renandya, 2002, p. 11). Teachers' experience in class can support the teacher to find and practice that learning strategy. Considering teachers' experience in class, the principles of a teaching approach should not be rigid.

In this study, a communicative approach was adapted with inquiry and expository teaching methods. A communicative approach, as stated by

Kumaravadivelu in Brown, is an approach with authenticity, acceptability, and adaptability values (Brown, 2007, p. 45). According to Bruce Joyce and Marsha Wei, an inquiry teaching method is a method which makes students as the center of learning (child-centered learning) whereas in an expository method, teacher is the center of learning (teacher-centered learning) (Bruce R. Joyce, Marsha Weil, 2015, p. 311). The adaptation of communicative approach with inquiry method is called an inquiry-based communicative language learning and the one with expository method is called an expository-based communicative language learning strategy.

<sup>1</sup> The study of the relationship between learning strategies and cognitive styles interest many researchers. Changju Shi from School of Foreign Language and Cultures, Nanjing Normal University, China <sup>1</sup> focuses on relationship between cognitive styles and learning strategies of 184 second-years English majors from the Foreign Language School of a university in Wuhan. In this study, quantitative data is presented. Two self-reported inventories are employed. Learning Survey Style is used to examine the learning style of the participants and the Chinese version of Oxford's Strategy Inventory for Language Learning (SILL) is conducted to survey the subjects' learning strategies. The results show that cognitive styles have significant influence on learners' choices of learning strategies. Synthesizing style, sharpener style, field-independent style, and

impulsive style of cognitive styles correlate positively almost with every strategy presented in this paper, so they turn to be the most influential cognitive styles that have an impact on learners' learning strategy choices (Shi, 2011).

The other study related to communicative language learning in class was titled <sup>26</sup> *Students' Output in Communicative Language Teaching Classrooms* by Ahamad Shah and Normala Othman. The study was conducted in two learning classes, one of which was in a university in Malaysia. In this study, data were collected from two classes of elementary and intermediate levels in a Malaysian university. Interaction between teacher and students in class was recorded and analyzed. This was expected to motivate students to modify their utterances. Results of the study showed that the chance of output production was not always applicable to students. This indicated the necessity of adaptation by teacher during the interaction process in class in order to improve communication and make a better language teaching (Mohamed, Ismail, Ahamad, Shah, & Othman, 2006).

There are internal and external factors that influence the student's learning succes. One of the internal factors is cognitive style. Herman A. Witkin was one of the pioneers of the theory of cognitive style and a learning style by using the field-dependency and field-independency concepts (Witkin, 2016). Compared to field-dependent learner type, learners with field-independent type

are considered to be independent in developing their skills. In this study, the instrument developed by Othman, Raskin, and Witkin, known as a group embedded figures test (GEFT), was used as the instrument to develop the cognitive style. This instrument was used to measure <sup>20</sup> students' ability to find a simple form hidden in a complex pattern. The test consisted of three parts containing 7 problems in the first part, 9 in the second part, and 9 in the third part. Through this test, students were grouped into <sup>33</sup> field independent and field dependent cognitive style learners.

In the class, most of the teacher use a single teaching strategy to students who have different cognitive styles when teaching narrative essays in the class. Therefore, it is necessary to improve teaching <sup>32</sup> strategies in the teaching and learning process. The teaching strategies that fit with the cognitive style of students in order that the learning objective is improved. In this study, the researcher conducted a study using <sup>2</sup> inquiry-based communicative language learning strategies and expository-based communicative language learning strategies.

In this study, an inquiry-based communicative language learning strategy was implemented in experimental classes. Cognitive style of students was determined before the learning process started. The narrative writing ability of <sup>31</sup> students with field independent cognitive style was expected to improve after

they received narrative writing materials by using an inquiry-based communicative language learning strategy. Likewise, that <sup>12</sup> of students with field dependent cognitive style was expected to improve after they received narrative writing materials by using an expository-based communicative language learning strategy.

This research concerns in the writing skills of junior high school learners either grade 7, 8, or 9. and equivalent taught both in grades VII, VIII, and IX. Writing narration is one of the subject taught continuously for the three grades. The genre mapping of Indonesian language subject carried out based on the basic competencies of KI-3 and KI-4 of Junior High School Curriculum 2013, the narrative writing materials focus on narrative stories and local fables/legends for grade 7, drama narration for grade 8, and inspiring story narratives for grade 9.

The hypothesis in this study is the ability to write a narrative writing in Bahasa Indonesia of students in the <sup>4</sup> field independent cognitive style group is higher than that of students in the field dependent cognitive style group. The tested statistical hypothesis was:

$$H_0 : \mu_{B1} \leq \mu_{B2}$$

$$H_1 : \mu_{B1} > \mu_{B2}.$$

## 2. Method

John W. Creswell stated that an experimental research is conducted to assess whether an idea (practice or procedure) affects the results or dependent variables (Cresswell, 2012). An experimental method in a 2 x 2 factorial design was used in this research. A 2 x 2 factorial design was used and the layout of the experiment is shown in Table 2.1.

Table 2.1 The Experimental Design

Cognitive Style (B)	Learning Strategy (A)	
	Inquiry-based Communicative Language Learning Strategy (A <sub>1</sub> )	Expository-based Communicative Language Learning Strategy (A <sub>2</sub> )
<i>Field Independent</i> (B <sub>1</sub> )	A <sub>1</sub> B <sub>1</sub>	A <sub>2</sub> B <sub>1</sub>
<i>Field Dependent</i> (B <sub>2</sub> )	A <sub>1</sub> B <sub>2</sub>	A <sub>2</sub> B <sub>2</sub>
Ability to Write a Narrative Writing in <i>Bahasa Indonesia</i>	Result of Narrative Writing in <i>Bahasa</i> <i>Indonesia</i>	Result of Narrative Writing in <i>Bahasa</i> <i>Indonesia</i>

Notes:

Dependent Variable: Ability to Write a Narrative Writing in *Bahasa*

*Indonesia*



Treatment Variables:

A = Learning Strategy<sup>2</sup>

A1 = Inquiry-based Communicative Learning Strategy

A2 = Expository-based Communicative Learning Strategy

Attribute Variables :

B = Cognitive Style

B1 = Field Independent Cognitive Style<sup>29</sup>

B2 = Field Dependent Cognitive Style

A<sub>1</sub>B<sub>1</sub> = Students participating in learning process using an inquiry-based communicative strategy and having field independent cognitive style<sup>3</sup>

A<sub>2</sub>B<sub>1</sub> = Students participating in learning process using an expository-based communicative strategy and having field independent cognitive style<sup>3</sup>

A<sub>1</sub>B<sub>2</sub> = Students participating in learning process using an inquiry-based communicative strategy and field dependent cognitive style<sup>3</sup>

A<sub>2</sub>B<sub>2</sub> = Students participating in learning process using an expository-based communicative strategy and field dependent cognitive style<sup>23</sup>

The population in this study was all 180 students of Grade VII in odd semester, academic year of 2017/2018 in MTs Ibnu Taimiyah, Bogor. These students were divided into six learning groups, namely VII A, VII B, VII C, VII D, VII E, and VII F. All students had equal chance to be selected as samples in this study.

Samples were taken by using a cluster random sampling method. Wibisono stated that in a cluster random sampling method, all elements of a population share equal chance and are known to be selected as subjects. For example, if there are 1000 elements and the researcher needs to select 100 subjects, each element will have a 0.1 chance to be selected as subject. This sampling method is known as a simple random sampling which has the smallest bias and offers a good generalizability (Wibisono, 2013, p. 86).

Four of six classes of Grade VII including VII A, VII B, VII D, and VII E in MTs Ibnu Taimiyah, Bogor were selected by using a drawing method. Then, another drawing was taken to select 2 classes as experiment and control classes. The drawing was conducted by using ballot paper. Each ballot paper was identified as either experiment or control class. Results of the drawing showed that classes VII A and VII D were selected as experiment classes and classes VII D and VII F as control classes.

Twenty of 59 students in the experiment class had a <sup>3</sup> field independent cognitive style and 20 students had a field dependent cognitive style. Nineteen students were excluded from the subject of the study. These students followed a narrative writing in Bahasa Indonesia by using an inquiry-based communicative strategy. Twenty of 58 students in the control class had a <sup>3</sup> field independent cognitive style and 20 students had a field dependent cognitive style. Eighteen students following a narrative writing in Bahasa Indonesia by using an expository-based communicative strategy were excluded from the subject of the study.

In grouping the students <sup>1</sup> into field independent cognitive style and field dependent cognitive style in both experiment and control classes, 33% of students of high score group and 33% of students of low score group were selected. This was in line with what was stated by Dali S. Naga that subjects of the study could be divided into three parts which should not be equal in number. The top part was called the highest group and the bottom part, which was usually as big as the top part, was called the lowest group. No attention was given the middle part (Naga, 1992, p. 51).

The experiment class was the one followed by students who became the samples of the study. These students were given a learning process by using an inquiry-based communicative language learning strategy in a narrative writing class by

considering the students' field independent and field dependent cognitive styles.

Meanwhile, students in the control class were sample students who followed a narrative writing learning process by using an expository-based communicative language learning strategy by considering the students' field independent and field dependent cognitive styles.

### 3. Findings and Discussion

Discussion was done on descriptive data of students' ability in narrative writing in Bahasa Indonesia and results of the hypothesis test described previously. The followings are the results of the test of the study hypothesis.

Table 3.1 Ability of Narrative Writing in Bahasa Indonesia Score Calculation Results

Cognitive Style Learning Strategy	Inquiry-based Communication	Expository-based Communication	Total
<i>Field independent</i>	n = 20 $\sum x = 87$ $\sum x^2 = 7569$	n = 20 $\sum x = 74$ $\sum x^2 = 5476$	n = 40 $\sum x = 80$ $\sum x^2 = 6400$
<i>Field dependent</i>	n = 20 $\sum x = 76$ $\sum x^2 = 5776$	n = 20 $\sum x = 81$ $\sum x^2 = 6561$	n = 40 $\sum x = 77$ $\sum x^2 = 5929$
Total	n = 40 $\sum x = 81$ $\sum x^2 = 6561$	n = 40 $\sum x = 77$ $\sum x^2 = 5929$	n = 80 $\sum x = 157$ $\sum x^2 = 24649$

Notes:

n : number of data in each cell

$\bar{x}$  : mean score of narrative writing ability

There was a different ability in narrative writing in Bahasa Indonesia between

8 students having field independent cognitive style (A1) and students having field

dependent cognitive style (A2). Results of two-way interrow analysis of variance showed that  $F_{\text{calculated}}$  (4.123) was higher than  $F_{\text{table}}$  (3.97) at a significant level of  $\alpha = 0.05$ . This meant that  $H_0$  was rejected and  $H_1$  was accepted. Therefore, the second hypothesis stating that there is a different ability of narrative writing in Bahasa Indonesia between <sup>8</sup>students having field independent cognitive style (A<sub>1</sub>) and students having field dependent cognitive style (A<sub>2</sub>) was accepted at a significant level of  $\alpha = 0.05$ . This indicated that the ability to write a narrative text of students having <sup>4</sup>a field independent cognitive style was higher than that of students having a field dependent cognitive style.

<sup>16</sup>Students in the field independent cognitive style group had better ability to write narrative text in Bahasa Indonesia than those in the <sup>3</sup>field dependent cognitive style group did. <sup>3</sup>This might be caused by the finding that <sup>3</sup>students in the field independent cognitive style group had higher analytical ability than those in the <sup>3</sup>field dependent cognitive style group. Writing a narrative text in Bahasa Indonesia requires strong analytical and abstraction ability in order to produce a writing which has good content and organization.

<sup>16</sup>Students in the field independent cognitive style group had better ability to analyze data in the form of interesting experiences which were experienced by the students themselves or others than those in the <sup>3</sup>field dependent cognitive

style group. With better analysis ability, students in the field independent cognitive style group had better availability of narrative materials than those in the field dependent cognitive style group did.

These students were easier to be independent and did not depend on others with authority. In general, in order to draw a conclusion or finish a work, they believed more in their own or standardized values.

In contrast, students in the field dependent cognitive style group, in the language learning process, tended to have dependency on other people having authority in certain thing and had preferences in works requiring cooperation with others. In order to draw conclusions they needed guidance from authority holder or peer groups.

#### 4. Conclusion

Based on the results of data analysis described previously, the following conclusion was drawn. The ability to write a narrative writing in Bahasa Indonesia of students having a field independent cognitive style was higher than that of students having a field dependent cognitive style.

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