



Linguistics

The Analysis of Metaphors of Modality in The Book *Into the Magic Shop: A Neurosurgeon Quest to Discover the Mysteries of the Brain and the Secrets of the Hearts* by James R Doty, MD

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A B S T R A C T

The metaphor of modality is a language variation in the expression of modality. Analyzing the metaphor of modality is important to see the degree of certainty of utterances in communication. The theory by M.A.K Halliday (1994), specifically the metaphor of modality, was applied to see the use of the metaphor of modality in the autobiography book. This study aimed to find the types and values of the metaphor of modality used by the writer in the book. The method of this study was a descriptive qualitative method. The data collected were labeled based on the mental process elements and mood elements in the box. This research found that there are 110 data containing metaphors of modality found in the book *Into The Magic Shop*. All of the data is categorized into types and values of metaphors of modality. The types are probability with 56 (50.91%) data, usuality 2 (1.82%) data, the type of obligation has 38 (34.55%) data, and lastly, inclination with 14 (12.73%) data. Then, the value of metaphor of modality found which are high with 51 (46.36%) data, median value with 41 (32.27%) data, and low value with 18 (16.36%) data. The most occurred type found in the book is the probability type of metaphor of modality, and followed with the most dominant value of metaphor of modality is high value of metaphor of modality.

I. INTRODUCTION

The language users combine different clauses in order to make meaning. In combining the clauses, there are possibility that they combine the metaphors of modality to express their opinion. The metaphors of modality are important to see the perspectives of the language users in the conversations (Thompson, 2014). Expressing opinions and judgement in the communication environment is related to the interpersonal metafunction proposed by Halliday. The interpersonal metafunction concerns the speech action, including the personality and the feelings of the speakers in the communication (Lipson, 2007).

In the communication environment sometimes misunderstanding might occur between the language users. Specifically, misunderstanding that occurs in the conversation contains metaphors of modality. In order to avoid misunderstanding in the communication environment, the knowledge about metaphors of modality is important for all the language users. The use of metaphors of modality in the conversation helps the language users express their opinions, ideas, and judgement. When expressing their ideas the language users would be applying different styles and choices of words (Bloor & Bloor, 2004). The Metaphors of modality realize in the form of projection clause that contains a proposition or a word that indicates certainty, belief, possibility, or others as long it expresses a judgment or opinion. (Halliday &

Matthiessen, 2014).

Through this research, the writers are interested in analyzing the metaphors of modality in the book *Into the Magic Shop: A Neurosurgeon Quest to Discover the Mysteries of the Brain and the Secrets of the Hearts* written by James R. Doty, M D to see how the author uses the language which is the metaphor of modality in expressing his opinions and judgment related to the author's personal experience. The writers also want to show the readers of this research related to the degree of certainty in the expression of metaphors of modality used by the writer throughout his journey in the book. Furthermore, the writers want to focus on finding the types and values of metaphors of modality used in the book.

The autobiography book consisting of thirteen chapters showed the experience of the author itself when interacting with different people and his journey on finding his truest desire. This book also contains self-relaxation for the readers. In conducting this research, it is hoped it will attract more people and students to understand how important is the metaphor of modality in the written and spoken language. This research is also expected to provide explanations related to the metaphor of modality, including which elements of expression of the metaphor of modality are used in the autobiography book.

II. METHOD

The data of this research are the written form of language which is an autobiography book. The data taken from the book *Into the Magic Shop...* by James R Doty, MD. James R. Doty, M D is a clinical professor of neurosurgery at Stanford University. He is also a founder of the Center for Compassion and Altruism Research and Education. The book *Into the Magic Shop...* was published first in February 2016. This book is one of the famous books written by James R. Doty, M D. The book consists of 244 pages excluding the title page, copyright page, dedication page and acknowledgement page. The data are taken in the form of clauses that contain the expression of metaphors of modality.

In collecting the data, the writers take all of the data manually from the book *Into the Magic Shop...* There are several procedures in collecting the data. First, the writers of this research read the book *Into the Magic Shop...* by James R. Doty, M D carefully and multiple times. Second, the writers will identify the expression that contains the types and values of the metaphor of modality in the book by highlighting the expression that contains the metaphor of modality. Last, the author classifies the data by applying the Halliday (1994) theory of functional linguistics, specifically the theory of metaphor of modality.

In analyzing the data, the writers first apply the transitivity and modal theory in labeling all of the element in the data. Furthermore, the writers apply the techniques from Miles, Huberman, and Saldana (2014). Using Miles, Huberman, and Saldana techniques suitable in analyzing written text because the techniques may help in finding the data of metaphor of modality in the book. There are three major flows of activity in analyzing the data based on Miles, Huberman and Saldana (2014). The three of them are data condensation, data display, and conclusion drawing or verification.

Data condensation is the process of selecting data, focusing, simplifying, abstracting, and/or transforming data that appear in the full corpus or body of the written-up field notes, interview transcripts, documents, and other empirical materials (Miles, Huberman, and Saldana, 2014). In this research, the writers select the data that contain the metaphor of modality expression in the form of clauses in the book *Into the Magic Shop: A Neurosurgeon's Quest to Discover the Mysteries of the Brain and the Secrets of the Heart* by James R Doty, M.D.

Data display is an organized, compressed assembly of information that allows conclusion drawing and action (Miles, Huberman, and Saldana, 2014). In this research, all the data is displayed in the form of tables and diagram box. The table is the frequency and percentage of types and values of metaphor of modality in the book *Into the Magic Shop...* by James R. Doty, M D. Furthermore, the data found displayed in the diagram box form contains the labels of each elements in the expression of modality. All of the data found would be analyzed, however only the representative of each findings presented in the discussion section. The representative is the 10% of each type and value found in the book. All of the data that has been analysed can be seen in the appendix section that shown the classification of types and values of metaphor of modality and the label of the element in mental process and mood elements.

The last step in data analysis by Miles, Huberman, and Saldana is conclusion drawing and verification. In the beginning of the data collection, the researcher of qualitative analysis interprets what things mean by noting patterns, explanations, casual flows, and propositions. In this research, the conclusion of this research will consist of the types and values of the metaphor of modality in the book *Into the Magic Shop...* by James R. Doty, MD and how these data are found in the book. The author of this research also will be conduct the evaluation in order to verify the data, information, and result of the analysis.

III. RESULTS AND DISCUSSION

The results of the analysis, there are found 110 data total of the expression of metaphors of modality found in the book *Into the Magic Shop*. Those data classified into types and values of the metaphors of modality. The first findings of this research will be described in the following table:

	Types of Metaphors of Modality		Frequency	(%)
1	Modalization	Probability	56	50.91
		Usuality	2	1.82
2	Modulation	Obligation	38	34.55
		Inclination	14	12.73
Total			110	100

Table 1. Types of Metaphors of Modality in the book Into The Magic Shop

Based on the table above, it shows that the most dominant type of metaphors of modality found in the book is the probability type which has 56 occurrences. It means that in the book *Into The Magic Shop...* by James R Doty MD, the author tends to use the expression of metaphor of modality that indicates a probability. The use of expression of probability by the writer in the book is to express his opinions and helps the writer implying the judgement in the utterances. Following the probability types, the second place for the most occurrences is obligation with 38 occurrences. The metaphorical expression of modality obligation used by the writer in the book implies the politeness strategy in giving command without offended others in the conversation.

Furthermore, the third type of metaphor of modality found in the book is inclination types of modality. The total of data from the types of inclination is 14 (12.73%) occurrences. The use of expression of modality inclination in the book by the writer shows the willingness of the writer to do something. This expression used to deliver his interest in the topic related to his journey becoming a neurosurgeon. The least types of probability found in the book is usuality which is 2 (1.82%) occurrences. The expression of usuality used to show the frequency of event occurring in the book. With the least amount of data of usuality it could be interpret that the authors rarely count the frequency of the event occurs in the book.

Based on the findings of the types of metaphors of modality in the book *Into the Magic Shop...* by James R Doty, MD, here is the example of each type of the metaphors of modality found in the book.

Probability Types of Metaphors of Modality in the book Into the Magic Shop

Metaphorical Form of Modality: Probability

I know absolutely nothing about magic or thumb-tip tricks: I'm sorry to say.

The example above is the expression of probability used by the writer in the book. The probability type of metaphor of modality is realized through the mental clause '*I know*'. The expression of metaphors of modality probability shows how the authors convey their opinions by using metaphorical expression of modality. The clause '*I know*' indicates the utterance containing the metaphors of modality. The clause has a function conveying the writer opinions and the degree of the judgment of the writers towards something from the interaction in the book. The mental clause used in expressing the metaphor of

modality categorize as process mental cognitive. The mental verb that used in the expression indicates the use of metaphor of modality in order to express the certainty, belief and opinion of the writer.

I	know	absolutely nothing about magic or thumb-tip tricks	
Senser	Process: Mental-cognitive	Phenomenon	
Datum 7 Congruent Form	I certainly know absolutely nothing about magic or thumb-tip tricks.		
I	certainly	know	absolutely nothing about magic or thumb-tip tricks
Subject	Adjunct: Mood	Predicator	Adjunct: Circumstantial

The example above is the expression of probability used by the writer in the book. The probability type of metaphor of modality is realized through the mental clause 'I know'. The expression of metaphors of modality probability shows how the authors convey their opinions by using metaphorical expression of modality. The clause 'I know' indicates the utterance containing the metaphors of modality. The clause has a function conveying the writer opinions and the degree of the judgment of the writers towards something from the interaction in the book. The mental clause used in expressing the metaphor of modality categorize as process mental cognitive. The mental verb that used in the expression indicates the use of metaphor of modality in order to express the certainty, belief and opinion of the writer.

Usuality Types of Metaphors of Modality in the book Into the Magic Shop

Metaphorical Form of Modality: Usuality

I left earlier than **usual** for the magic shop: because it was it was expected to be one of the hottest August days on record in Lancaster

I	left earlier	than	usual	for the magic shop			
Subject	Predicator		Attributive clause	Adjunct: circumstantial			
Datum 50 Congruent Form	I left earlier than I usually did for the magic shop						
I	left	earlier	than I	usually	did	for the magic shop	
Subject	Predicator			Adjunct: Mood	Finite	Adjunct: Circumstantial	

The data example above presents the use of expression of modality in the degree of usuality. The usuality type of metaphor of modality shows the oftenness of something in the communication. The clause 'earlier than usual' indicates the types of usuality. The expression used the word 'usual' in delivering how often the event is occurred. The expression of usuality from the book shows the frequency of his activity that is not he usually did.

Obligation Types of Metaphors of Modality in the book Into the Magic Shop

Metaphorical Form of Modality: Obligation

I want you to imagine you are a leaf blowing in the wind.

I	want	you to imagine you are a leaf blowing in the wind.	
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Senser	Process: Mental-Desiderative	Phenomenon	
Datum 20 Congruent Form	You must imagine you are a leaf blowing in the wind.		
You	must	imagine	you are a leaf blowing in the wind
Subject	Finite	Predicator	Adjunct: Circumstantial

From the example above, the obligation type of metaphor of modality is realized by mental clause indicates by the clause ‘*I want*’. The mental process of obligation categorizes into desiderative mental clause. Using mental verb in expressing metaphor of modality shows the writer intention of giving command to others in in the conversation. When using the metaphorical expression of obligation by the writer indicates the politeness strategy in the interpersonal relationship. It means that using the expression of obligation makes the utterances less intimidating and polite.

Inclination Types of Metaphors of Modality in the book Into the Magic Shop

Metaphorical Form of Modality: Inclination

I wanted to learn what she had to teach me: but the whole situation felt so weird.

I	wanted	to learn what she had to teach me, but the whole situation felts so weird.	
Senser	Process: Mental-Desiderative	Phenomenon	
Datum 22 Congruent Form	I must learn what she had to teach me,		
I	must	learn	what she had to teach me
Subject	Finite	Predicator	Adjunct: Circumstantial

The inclination type of metaphor of modality is realized in the proposition that contains the mental verb. In this type of metaphor of modality, the mental clause ‘*I wanted*’ indicates the degree of inclination in the communication environment between the speaker and the listener writes by the writer of the book. The mental process in the expression of inclination categorizes as desiderative mental process. The use of metaphorical expression of modality inclination helps shows how the authors are keen to do something through out their journey to become neurosurgeons.

The second finding of this research is the values of metaphors of modality used by the writer in the book. According to Halliday, the value of metaphors of modality is divided into three degree of value. Each of the value of metaphors of modality attached to the expression of metaphors of modality. The three degrees of metaphor of modality are high, median and low. In this research, the total amount of values of metaphor of modality in the book *Into The Magic Shop...* written by James R Doty MD is 110 data that attach to each expression of types of metaphor of modality. Each of the types of metaphors of modality has its own values based on the expression used in the book. Following table is the total values of metaphor of modality and table of each values on the types of metaphor of modality:

	Types of Metaphors of Modality	Frequency	(%)
1	High	51	46.36
2	Median	41	32.27
3	Low	18	16.36
Total		110	100

Table 2. Value of Metaphors of Modality in the book Into The Magic Shop

Based on the table above, it can be seen that the most occurred value in the expression of metaphors of modality in the book *Into the Magic Shop* is high value which has 51 occurrences. Then, the next value is median value of metaphors of modality with 41 occurrences. The last degree of value found in the book is low value which has 18 occurrences. Each of the value of metaphors of modality found in the book is connected to the types of metaphors of modality. It means that all of the types of metaphors of modality found in the book has specific value of metaphors of modality.

Moreover, the example of each values of metaphors of modality presented below.

High Value of Metaphors of Modality

Metaphorical Form of Modality: Probability

Value of Metaphor of Modality: High

and while it's the last thing on his mom's mind now: ***I know*** it will matter to her later.

I	know	it will matter to her	later
Senser	Process: Mental-Cognitive	Phenomenon	Circumstances: Location-Time
Datum 3 Congruent Form	I certainly know that it will matter to her later.		
I certainly	know	it will matter to her later	
Subject	Adjunct: Mood	Predicator	Adjunct: Circumstantial

The example above is the high value of the probability type of metaphors of modality. The use of mental verb 'know' in the expression of metaphors of modality categorize as high value. The data identify as high value because of the expression carries the implication that the speaker probably understands or awares of the event occurred.

Median Value of Metaphors of Modality

Metaphorical Form of Modality: Obligation

Value of Metaphor of Modality: Median

I'm going to count to three: and ***I just want*** you to start telling me a story.

and	I	just	want	you to start telling me a story
	Senser		Process: Mental-Desiderative	Phenomenon
Datum 27 Congruent Form	You should start telling me a story			
You	should	start	telling me a story	
Subject	Finite	Predicator	Adjunct: Circumstantial	

In the example above, the senser of the mental process is 'I' who is sensing the phenomenon. The metaphor of modality realizes in the form of mental process which shown by the clause 'I just want'. This clause identifies as median value if obligation because it presents the degree of command from the speaker to the 'you' in the book. This clause shows that the senser give a command to the listener to begin telling the story to the senser.

Metaphorical Form of Modality: Usuality

Value of Metaphor of Modality: Median

I left earlier than usual for the magic shop: because it was it was expected to be one of the hottest August days on record in Lancaster

I	Left earlier	than	usual	for the magic shop		
Subject	Predicator		Attributive clause	Adjunct: circumstantial		
Datum 50 Congruent Form	I left earlier than I usually did for the magic shop					
I	left	earlier	than	I usually	did	for the magic shop
Subject	Predicator			Adjunct: Mood	Finite	Adjunct: Circumstantial

In the example above, the usuality type of metaphor of modality is realized by the attributive clause ‘*than usual*’. Not only that the clause also shows the degree of the expression of usuality. This clause identifies as median value of usuality because it has the expression that indicates the median value of usuality which is ‘*usual*’. The identification of median value is based on the congruent form below the expression of metaphor of modality.

Low Value of Metaphors of Modality

Metaphorical Form of Modality: Inclination

Value of Metaphor of Modality: Low

and I am so mad *I just want* to tear down the curtain: and scream at them.

I	just	want	to tear down the curtain			
Senser		Process: Mental-Desiderative	Phenomenon			
Datum 29 Congruent Form	I’m willing to tear down the curtain and scream at them.					
I	‘m	willing	to tear down the curtain	and	scream at them	
Subject	Finite	Predicator	Adjunct: Circumstantial		Complement	

In the clause above, the type of inclination represents by mental verb. The senser of this clause is ‘I’ which experience the phenomenon. The mental verb ‘*want*’ categorize as process mental desiderative. This data identifies as low value of inclination because the speaker imply that he or she is not keen about his or her statement.

IV. CONCLUSIONS

Based on the result and discussion, it shows that there are total 110 data that contain the metaphors of modality in the book *Into the Magic Shop* by James R Doty, MD. The data contain the expression of the metaphor of modality that consists of types and values of the metaphor of modality. All of the types, such as probability, usuality, obligation, and inclination, occurred in the book *Into The Magic Shop*. As well as all the values of the metaphor of modality, which are high, median, and low. Based on those data, the book’s dominant type of metaphor of modality is the probability type of modality. It shows that 56 occurrences of data contain probability type of metaphor of modality. Meanwhile, the most dominant value of metaphor of modality in the book *Into The Magic Shop* is the high value of metaphor of modality. There are found 51 data that have a high value of modality.

All of the expressions of the metaphor of modality found in the book *Into The Magic Shop* written by James R Doty, M.D, realized mainly by a mental verb in the mental process. Examples of the mental verb used by the writer in the book include ‘I think’, ‘I want’, ‘I guess’, and ‘I want’. In addition, the expression of the metaphor of modality is also realized by attributive clause, such as ‘as usual’, ‘it expected’. The use of the metaphor of modality in expressing the writer’s opinions, proposals, and judgement shows the variety of language in the book *Into The Magic Shop*. This study shows that the metaphor of modality can be found in various types of text, not only in scientific, novels, or textbooks but also in an autobiography book. Not only that, the use of the metaphor of modality by the authors reveal the importance of indirect expression or a non-straightforward strategy of communication is important to lessen the superiority towards others in communication. Using the metaphor of modality in the book also shows the politeness of the authors in expressing their experience of becoming neurosurgeons.

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