

## **THE ANALYSIS OF PREDICATE LOGIC ON OBAMA’S SPEECH IN UNIVERSITY OF INDONESIA**

Eva Agustin Nurlaeli <sup>1</sup>  
S. R. Pramudyawardhani <sup>2</sup>

<sup>1</sup> the Graduate of English Education Study Program  
Peradaban University Bumiayu – Brebes  
E-mail: agustineva16@gmail.com  
Phone: +62 857 4719 9541

<sup>2</sup> the Lecturer of English Education Study Program  
Peradaban University Bumiayu – Brebes  
E-mail: pramudyawardhani81@gmail.com  
Phone: +62 815 663 5360

### **Abstract**

The aim of this study is to analyse predicate logic realized on Obama’s Speech in University of Indonesia. The source of data is Obama’s speech script. The writers use Aarts theory, descriptive qualitative method, *Simak Bebas Libat Cakap*, and *Teknik Bagi Unsur Langsung*. The writers use six steps to analyse the data. The writers download the speech script, divide all the data in speech into clauses, rewrite each clause, identify the parts of the clause in terms of predicate logic, describe the predicate logic in speech, and draw the conclusion. It can be concluded that there are 230 clauses divided in 3 types of

predicate logic analysis. They are 105 clauses which belong to one place predicate, 122 clauses which belong to two place predicate, and 3 clauses which belong to three places predicate.

**Keywords:** Syntax, analysis, predicate logic, speech script, Obama

## **A. Introduction**

Speech is a part of public speaking. Public speaking is a form of communication done orally about a thing or topic in front of many people. The goal is to influence, change opinion, teach, educate, provide explanations and provide information to certain communities in a particular place.

Aarts (2001: 92) states that predicate logic is predicates and their arguments in a formal notation used in a branch of philosophy. To know the implementation of predicate logic the writer chooses Obama's speech script.

Obama is the famous person in the world as the forty-fourth president of United States and he has the first African American generation too who is elected as President of United States. Obama's speech script describes the story of Indonesia since the days when he lived there and describes about three areas that are closely related and fundamental to human progress – development, democracy, and religion.

Based on the explanation above, the writers feel interested in analysing Obama's speech script through predicate logic.

## **B. Literature Review**

Predicate logic is predicates and their arguments in a formal notation used in a branch of philosophy (Aarts, 2001: 92). In Syntax notions there

are intransitive verb, transitive verb and ditransitive verb.

#### 1. Intransitive Verb

The first type of verb in English is intransitive verb. Intransitive verbs are English verbs that cannot or do not take objects. Some common intransitive verbs in English include: cough, die, dream, go, sit, and sneeze.

#### 2. Transitive Verb

The second type of verb in English is transitive verb. Transitive verbs are English verbs that take objects. Transitive verbs take only one object. Some common transitive verbs in English include: borrow, clean, eat, kick, swallow, and write.

#### 3. Ditransitive Verb

The third type of verb in English is ditransitive verb. Ditransitive verbs are English verbs that take both direct objects and indirect objects. Some common ditransitive verbs in English include: bring, buy, catch, give, pass, and trade.

Below we can find some further examples of sentences containing argument-taking predicates (Aarts, 2001: 91-92). Each time the predicates are in bold type and the arguments are in italic.

1. *Henry* **smiled**.
2. *The police* **investigated** *the allegation*.
3. *Sara* **gave** [*Pete*] [*a parcel*].
4. *Melany* **bet** [*Brian*] [*a pound*] [*that he would lose the game of squash*].

The sentences above can be represented by the formulae as follows:

1. S (h)
2. I (p, a)

3. G (s, p, p)
4. B (m, b, p, c) (c=clause)

Semantic predicates are represented by a single capital letter, corresponding to the first letter of the verb. Arguments are represented by lower-case letters. They indicate the first letter of the associated argument(s). They are enclosed in brackets. This notation enables us to represent only predicates and their associated arguments.

### **C. Method of Investigation**

Descriptive qualitative method is used by the writers to analyse predicate logic on Obama's speech in University of Indonesia. The writers analyse the data qualitatively and present the findings descriptively.

The source of data in this study is Obama's speech script. The speech script is taken from the website: <https://nasional.tempo.co/read/291064/pidato-lengkap-obama-di-balairung-universitas-indonesia>.

To collect the required data, the writers download the script from the website and write down every clause using *Simak Bebas Libat Cakap* (SLBC) technique, in which the research is done by the writers without being involved in the event. The writers act as observer.

To segment each element of the clause the writers use *Teknik Bagi Unsur Langsung* by which a construction is divided into several parts of constituents. The steps are: identifying the parts of clause in the term of predicate logic, describing the predicate logic in speech, and establishing the conclusion of the analysis predicate logic.

## D. Findings and Discussion

The analysis is represented by the identification of each clause.

### 1. Types of Predicate Logic on Obama's Speech Script

The clauses belong to one place predicate, two place predicate, and three place predicate.

- a. There are 105 one place predicates: *That has meant so much to me; But I look forward to coming back a year from now; I first came to this country; As a young boy, I was coming to a different world; That I would one day come back to Jakarta as President of the United States; A truth that I came to know as a boy; Before I go any further; I want to Cairo last June; As always, the United States stands with Indonesia in responding to this natural disaster; And families take in the displaced; I know; That I once knew; Let me begin with a simple statement; Jakarta looked very different in those days; We moved to Menteng Dalam; Where we lived in a small house with a mango tree out front; He firmly believed; I stayed here for four years; That she kept returning to Indonesia over the next twenty years to live, work, and travel pursuing her passion of promoting opportunity in Indonesia's villages, particularly for women and girls; So much has (thing) changed in the four decades; I don't think; Any of us could have anticipated; The Jakarta has grown to a teeming city of nearly ten million with skyscrapers; While my Indonesian friends and I used to run in fields with water buffalo and goats; And while Indonesia as a young nation focused inward; This (Indonesians) change*

*extends to politics; (I) who have sacrificed on behalf of this great country; When I moved to Jakarta; When I moved to Indonesia; Even though my step-father had served in the Army the violence; And (my stepfather) killing during that time of political upheaval was largely unknown to me; In recent years, the world has watched with hope and admiration; (You) who have ensured; That in Indonesia there will be no turning back; But even as this land of my youth has changed in so many ways; So today, I return to Indonesia as a friend; Since the days when I lived here; When I lived in Jakarta; I will focus on three areas; That are closely related, and fundamental to human progress development, democracy, and religion; From the shock of the Asian financial crisis in the 1990s to the millions lifted out of poverty; And what we learned in the recent economic crisis; That is growing with prosperity; And so we are investing more in Indonesia; Indonesia should lead on the world stage; Because the way we grow will determine the quality of our lives and the health of our planet; That is exactly what we are doing; That we have committed to double the number of America and Indonesian students studying in our respective countries; And more American students to come study in this country; (I) translate into a better life for human beings; Today, we sometimes hear; That democracy stands in the way of economic progress; But that is not what I saw on my trip to India; And that is not what I see in Indonesia; Your achievements demonstrate that democracy and development reinforce*

*one another; Our own Constitution spoke of the effort to forge a “more perfect union”; And that is a journey we have travelled ever since enduring Civil War and struggles to extends rights to all of our citizens; Like other countries that emerged from colonial rule in the last century; But you also ultimately decided that freedom cannot mean replacing the strong hand of a colonizer with a strongman of your own; You go through ups and down; That stands in the way of opportunity; a commitment to transparency; That Indonesians have fought for is what holds this great nation together; From those (Indonesians) who fought in the Battle of Surabaya 55 years ago today; (The message of the Indonesians) to the students who marched peacefully for democracy in the 1990s; An insistence that every child born in this country should be treated equally; Whether the come from Java or Aceh; Bali or Papua; That effort extends to the example that Indonesia sets abroad; The liberty of knowing that your leader is accountable to you; And that you won't be locked up for disagreeing with them; That I want to address today; A priority to begin to repair these relations; I said then; And I will repeat now; That no single speech can eradicate years of mistrust; But I believed then; And I believe today; But I believe; And (we) give in to a future of suspicion and mistrust; We cannot give in to doubt or cynicism or despair; Or we can choose to do the hard work of forging common ground; That is what we have done; That is what we will do; Issues that I*

*addressed in Cairo; But those (we) who want to build must not cede ground to terrorists; (We) who seek to destroy; In Afghanistan, we continue to work with a coalition of nations to build the capacity of the Afghan government to secure its future; And we will continue to support Iraq as it forms an inclusive government; Israelis and Palestinians restarted direct talks but enormous obstacles remain; That peace and security will come easy; And the others I have spoken about today; For our world has grown smaller and while those forces; They also empower those who seek to derail progress; That once lived in peace; What we share as human beings can be lost; Yet our nations show that hundreds of millions who hold different beliefs can be united in freedom under one flag; (The young people) who will study in each other's schools; But its name and history also speak to what makes Indonesia great; Islands rising above an ocean named for peace; People choose to worship God as they please; Ancient traditions endure even as a rising power is on the move; A child of a different race (who is) coming from a distant country; That I received upon moving here; That spark of the divine lies within each of us; And that the people of this world can live together in peace; and May our two nations work together with faith and determination to share these truths with all mankind.*

- b. There are 122 two place predicates: *(I) thank you for this wonderful welcome; (I) thank you to the people of Jakarta; (I) thank you to the people of Indonesia; That I made it to*



*Indonesia; As President, I have made it; I have made it clear; And that Michelle was able to join me; We had a couple of false starts this year; When Indonesia hosts the East Asia Summit; Particularly those (they) who have lost loved ones; As neighbors help neighbors; That the strength and resilience of the Indonesian people will pull you through once more; When my mother married an Indonesian man named Lolo Soetoro; But the people of Indonesia quickly made me feel at home; Betchacks outnumbered automobiles in those days; And the highway quickly gave way to unpaved roads and kampongs; I learned to love Indonesia while flying kites, running along paddy fields, catching dragonflies, and buying satay and baso from the street vendors; Most of all, I remember the people; The old men and women who welcomed us with smiles; He children who made a foreigner feel like a neighbor; And the teacher who helped me learn about the wider world; My ties here helped me appreciate the common humanity of all people; In this way, he reflected the spirit of religious tolerance; And that (he) remains one of this country's defining and inspiring characteristics; A time (that) helped shape my childhood; A time (that) (I) saw the birth of my wonderful sister, Maya; A time (that) (I) made such an impression on my mother; For her entire life, my mother held this place and its people close to her heart; Since I boarded a plane to move back to Hawaii; If you asked me or any of my schoolmates; (They) who knew me back then; And few (I) could have anticipated the*

*remarkable story of Indonesia over these last four decades; Skyscrapers that dwarf the Hotel Indonesia and thriving centers of culture and commerce; A growing Indonesia now plays a key role in the Asia Pacific and the global economy; He watched his own father and older brother leave home to fight and die in the struggle for Indonesian independence; That (I) followed great suffering and conflict in parts of this country; Indonesians had their independence; In the years since then Indonesia has charted its own course through an extraordinary democratic transformation from the rule of an iron fist to the rule of the people; As Indonesians embraced the peaceful transfer of power and the direct election of leaders; That I learned to love (those things) about Indonesia; And this is why Indonesia will play such an important role in the 21<sup>st</sup> century; But also as a President who seeks a deep and enduring partnership between our two countries; Yesterday, President Yudhoyono and I announced a new, Comprehensive Partnership between the United States and Indonesia; We are increasing ties between our government in many different areas; And just as importantly we are increasing ties among our people; With the rest of my time today, I'd like to talk about why the story is so important to the United States, and to the world; I just told the story of Indonesia; What that means is that we have a stake in each other's success; America has a stake in an Indonesia; America has a stake in an Indonesia; America has a stake in an Indonesia; America has a stake in the*

*success of the Indonesian people; Because a rising middle class here means new markets for our goods; And we are opening doors for America and Indonesians to do business with one another; That plays its rightful role in shaping the global economy; When seven or eight countries could come together to determine the direction of global markets; So that emerging economies like Indonesia have a greater voice and bear greater responsibility; That pursues sustainable development; That is why we are developing clean energy technologies that can power industry and preserve Indonesia's precious natural resources; And America welcomes your country's strong leadership in the global effort to combat climate change; Underneath the headlines of the day, we must build bridges between our peoples; We want more Indonesian students in our schools; So that we can forge new ties that last well into this young century; It's about whether a child can learn the skill they need to make it in a changing world; That have transformed the Jakarta; That I once knew technology and trade the flow of people and goods; Like any democracy you have known setbacks along the way; But it is precisely this effort that has allowed us to become stronger and more prosperous; While (this effort) also becoming a more just and free society; And it goes beyond casting a ballot; It takes strong institutions to check the concentration of power; It takes open markets that allow individuals to thrive; It takes a free press and an independent justice system to root out*

*abuse and excess and to insists upon accountability; It takes open society and active citizens to reject inequality and injustice; These are the forces that will propel Indonesia forward; And it will require a refusal to tolerate the corruption; That is the message of the Indonesians who have advanced this democracy story; (The message of the Indonesians) to the students who marched peacefully for democracy in the 1990s; (The message of the Indonesians) to leaders who have embraced the peaceful transition of power inn this young century; That will stitch together this remarkable Nusantara hat stretches from Sabang to Merauke; Indonesia took the initiative to establish the Bali Democracy Forum; An open forum for countries to share their experiences and practices in fostering democracy; The nations of Southeast Asia must have the right to determine their own destiny; And the United States will strongly support that right; But the people of Southeast Asia must have the right to determine their own destiny as well; That is why we condemned election in Burma; That is why we are supporting your vibrant civil society in working with counterparts across the region; The opportunity to get an education and to work with dignity; When I heard the call to prayer across Jakarta; But we also know that relations between the United States and Muslim communities have frayed over many years; And (I) called for a new beginning between the United States and Muslims around the world; One that creates a path for us to move beyond our differences;*

*That we have a choice; And (we) commit ourselves to the steady pursuit of progress; And I can promise you no matter what setbacks may come; We know well the issues; That have caused tensions for many years; We have made some progress but much more work remains to be done; Meanwhile, we have made progress on one of our commitments our effort to end the war in Iraq; Instead, all of us must defeat al Qaeda and its affiliates; (All of us) who have no claim to be leaders of any religion certainly not a great, world religion like Islam; You have made progress in rooting our terrorists and combating violent extremism; Our shared interest is in building peace in a war-torn land; A peace that provides no safe-haven for violent extremists; And that provides hope for the Afghan people; 100.000 American troops have left Iraq; Iraqis have taken full responsibility for their security; And we bring all of our troops home; In the Middle East we have faced false starts and setbacks; We will spare no effort in working for the outcome; That connect us have unleashed opportunity; One bomb in a marketplace can obliterate the bustle of daily commerce; One whispered rumour can obscure the truth; (We) which have travelled different paths; Through the entrepreneur forging ties that can lead to prosperity; Earlier today, I visited the Istiqlal mosque; I admired its soaring minaret, imposing dome, and welcoming space; Istiqlal means independence; That contains some of God's most beautiful creations; The ability to see yourself in all individuals; I found this spirit*

*in the greeting; and The stories of Indonesia and America tells us.*

- c. There are 3 three place predicates: *That gives every Indonesian a stake in their government and a belief that the freedom; and we bring our troop's entire home; and that the story of both America and Indonesia gives us hope.*

## 2. The Form of Predicate Logic on Obama's Speech Script

From the above analysis, there are 230 forms of predicate logic realized in Obama's speech script: T (i, y); M (i, i); J (m, m); H (w, c); M (t); C (i); H (i, e); G (i); L (t, o); S (u); H (n, n); T (f); K (i); P (s, y); B (m); M (m, i); M (p, m); L (l); O (b, a); G (h, w); M (w); L (w); L (i, i); R (i, p); W (o, u); M (c, f); H (t, m); H (t, m); B (h); R (h, s); R (h, o); S (i); H (t, s); S (i, b); M (i, i); R (s); H (m, p); C (t); B (i, p); A (y, m); K (t, m); T (i); A (u); A (i, r); G (j); D (s, h); R (i); F (i); P (i, k); C (i); W (h, f); S (i); M (i); F (i, g); S (f); K (f); H (i, i); C (i, i); W (w); E (i, p); E (y); T (t); C (l); L (i, t); P (i, r); R (i); S (p, d); A (p, p); I (w, t); T (i, s); T (i, s); L (i); F (i); R (t); L (a); H (w, s); L (w); H (a, s); G (t); M (r, n); I (w); O (w, d); P (t, i); C (c); E (t, e); L (i); P (t, d); G (w); D (w, c); W (a, c); B (w, b); D (w); C (w); W (w, i); C (a); F (w, t); L (c, s); T (t, j); K (i, t); T (i); H (w); S (d); S (i); D (a); K (y, s); S (c); H (w); A (e, u); B (e, s); E (c); D (y); G (y); G (i, b); T (i, i); T (i, o); T (i, f); P (f, i); R (i, r); S (t); G (t, i, s); F (i); A (m, d); M (m); E (m, p); S (t, t); B (c); C (t); E (e); T (i, i); S (f, e); H (n, r); S (u, r); H (p, r); C (w, e); S (w, y); K (l); L (y); G (o, e); W (i); H (i, c); K (w, r); B (p); C (i, n); C (o, p); S (i); R (i); E (s); B (i); H (w, c); G (w, i); C (w); C (w, o); P (i, y); D (w); K (w, i); C (t, t); A (i); M (w, p); D (u, q); H (u,

c); W (w); S (w); M (y, p); C (w); S (o, i); P (p, s); P (t, h); L (a, i); T (i, f); B (w, t, h); F (w, y); T (i); C (p); S (w, e); S (i); G (w); C (t, u); S (t); O (o, b); O (r, t); L (t); S (w); G (h, u, h); T (w, p); S (n); S (y); F (e, t); V (i, i); A (i, i); S (i); M (i, i); C (t, s); R (i); C (p); E (a); S (a, y); C (c); F (i, s); R (i); V (c, m); F (i, i); L (s); T (s, u); L (p, t); W (o, t).

## **E. Conclusion**

Obama's speech script describes the story of Indonesia since the days when Obama lived there and describes about three areas that are closely related and fundamental to human progress – development, democracy, and religion. In Syntax notion there are intransitive verb, transitive verb and ditransitive verb.

It can be inferred that predicate logic analysis on Obama's speech script has all types of predicate logic. There are 105 clauses which belong to one place predicate (intransitive verb), 122 clauses which belong to two place predicate (transitive verb), and 3 clauses which belong to three place predicate (ditransitive verb).

## **Acknowledgement**

The writers would like to express the deepest gratitude to Dede Nurdiawati, S.Pd., M.Pd as the Head of English Education Study Program of Peradaban University.

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