



# Youth Perspectives on Jerome Polin's YouTube: Global Insights in Mathematics Learning

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**Abstract.** This study aims to determine the perceptions of teenagers in Candi Wangkal Village regarding Jerome Polin's Youtube shows as math learning. The method used in this research is qualitative research and uses perception theory. Data collection is collected using interviews, documentation and using data analysis techniques in the form of data reduction, data presentation, and conclusion drawing. With the technique of determining informants using purposive sampling. The results of this study indicate that adolescents' perceptions of Jerome Polin's Youtube as math learning can be seen from the first 3 elements, namely the results of research from the perceiver side show that teenagers in Candi Wangkal Village have an interest in learning math, because for teenagers in Candi Wangkal Village after watching Youtube Jerome Polin they find it much easier to understand math. With the existence of Jerome Polin's Youtube, teenagers get motivation from Jerome to like math lessons, because Jerome Polin motivates them that learning math is not that difficult, therefore teenagers in Candi Wangkal Village are interested in learning math. In terms of the target, it shows that the hand movements that Jerome Polin has done to convey math are very clear so that teenagers understand math more easily. In terms of situation, it shows that teenagers prefer to learn math through Jerome Polin's Youtube rather than learning math at school, because for them learning math through Jerome Polin's Youtube is very fun and Jerome Polin provides jokes that make teenagers not easily bored to learn math through his YouTube.

**Keywords:** teenagers' perception, jerome polin's youtube, math learning

## 1 Introduction

As time goes by, the internet is a new media that requires information to a group of people around the world. Therefore, the process of developing internet features is called social media. According to Kaplan and Haenlein define social media as follows: Social Media is a set of internet-based applications that form an ideological foundation and web technology that allows for the creation of sharing content to be created by users. In general, social media have the same characteristics. (A) Messages sent and received include non-person users. (B) Messages are sent uncontrolled and freely (C) Sent messages are processed faster than other media. (D) The recipient of the message determines the time for dialog. In general, social media has been developing since 2010, the development of social media has developed according to the social situation of the people in the world. One of the social media that will be the center of attention of all ages is the classification of social media content, such as the Youtube video site. Therefore, many are interested in using the Youtube video platform in accordance with the theme of each user. With that Youtube videos are better known and used in the community. [1]

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In today's social media YouTube has become a platform for sharing and accessing videos. Youtube is a social media network that is very interested in young people, so Youtube can be utilized as one of the teaching media, because with the existence of Youtube, young people today can increase their interest and motivation to learn. [2]. Youtube serves to establish interactions and communication relationships between users to facilitate access to Youtube as an online communication medium. [3]. The presence of Youtube as a video content publishing facility in Indonesia continues to grow. The number of hours of content uploaded from Indonesia has more than doubled from year to year, and Youtube makes it easy for users to find interesting content on a variety of topics [4]. [4]. The development of media technology creates a network that is useful for connecting communication through electronic media with other media, namely the internet. The emergence of the internet began to change the position of old media moving to new media, namely YouTube social media. [5].

By using Youtube, many people are famous from this Youtube site, they are famous by uploading their videos on Youtube. In addition, Youtube can provide information news for a wide audience, so that Youtube can be accepted in the community as information with various contents. [6]

Among the many *channels* on Youtube there is one *channel* that is currently attracting the attention of researchers, this *channel* is the Ninghongo Manttapu *Channel* known as Jerome Polin, Jerome Polin is one of the Youtubers who is currently on the rise. Jerome Polin is a student at Waseda University in Tokyo. [7]. Jerome Polin's Youtube *channel* is one of the most famous and inspiring channels for millennials. In Jerome Polin's Youtube channel, most of them discuss the world of education starting from math battle videos, as well as video tips and tricks for answering math problems, so Jerome Polin's Youtube is very useful for students who have difficulty learning math. [8]

This study uses adolescent respondents, adolescence according to psychology is a period of transition from early childhood to early adulthood which enters the age of 12-20 years. Adolescence begins with rapid physical changes, dramatic weight and height gain and changes in body shape. [9]. At the age of 12-20 years, brain changes in adolescents reach perfection. At this stage of adolescence 12-20 years of age, adolescence begins when individuals are sexually mature where attitudes and behavioral patterns change greatly. [10]

In this study, researchers have conducted pre-research on October 20, 2022 via Smartphone on 6 teenagers in Candi Wangkal Village named Nur Rohma, Febriansyah, Tarisa, Anshor, Zein and also Khafidoh and from the results of this research show that 6 teenagers aged 12-20 in terms of perceivers show that teenagers have an interest in learning mathematics. This is because YouTube Jerome Polin can motivate teenagers to like math lessons so that Youtube Jerome Polin can motivate teenagers to learn math. However, some of the teenagers still experience difficulties in learning math because according to the teenagers the way of delivery from Jerome Polin is different from the way the teacher is delivered at school so that some teenagers find it difficult to learn math in the form of calculations. And there are also some teenagers who feel helped after seeing Jerome Polin's Youtube because according to them learning math through Jerome's Youtube the way the explanation has been done by Jerome Polin is very easy to understand, therefore teenagers really like watching Jerome Polin's Youtube.

In terms of delivery targets and hand gestures delivered by Jerome Polin, it is easy to understand and according to teenagers, Jerome Polin's delivery looks very relaxed and is accompanied by small jokes that make teenagers feel comfortable by watching Jerome Polin's youtube.

In terms of situation, teenagers prefer to learn math from Jerome Polin's Youtube rather than learning at school, because learning math on Jerome Polin's Youtube according to teenagers is

fun and the way it is delivered is very clear. Meanwhile, learning math at school according to teenagers is very boring so that teenagers find it very difficult to grasp math lessons, especially according to them the explanations that have been conveyed by the teacher are too serious so that teenagers prefer Jerome Polin's Youtube as their math learning.

## 2 Research Methods

This research uses qualitative research which aims to observe a person's daily life to understand their language and efforts about the world around them. [11]. According to Moleong, qualitative research is research that intends to understand the phenomenon of what has been experienced by research subjects, for example, perceptual behavior so that it can be understood that this qualitative research is research that is generally used to examine phenomena with an in-depth point of view. [12]

The subjects in this study were teenagers in Candi Wangkal Village. The object of this research is teenagers' perceptions of Jerome Polin's Youtube account as math learning in Candi Wangkal Village. This research is located in Candi Wangkal Village Rt 01 Rw 01. Researchers chose this place because it is an interesting and unique place that matches the topic that the researcher will choose.

The technique of determining the informants of this research uses purposive sampling with the criteria needed are adolescents aged 12-20 years.

Types and sources of data obtained from primary data and secondary data. Primary data is an object that is observed through a smartphone and there are informants to be interviewed. In other words, data obtained directly from a smartphone through an interview process. In this study, primary data is based on in-depth interviews with teenagers in Candi Wangkal Village. Meanwhile, secondary data is data that has been obtained from the results of other people's research or other sources of scientific information that are most relevant, researchers collect data by going through books, scientific journals, and previous research related to perception. [13]. The data collection techniques that researchers have used are interviews, documentation. The data analysis techniques used by researchers are data reduction, data presentation and conclusion drawing.

## 3 Results and Discussion

According to Robbins, there are 3 factors that can shape perception, namely:

### 3.1. Perceiver

Perceiver is a person's personality which is influenced by interest, motivation, and experience. [14]. In adolescents' perceptions of Youtube Jerome Polin as a math learner, the results of this study show that after watching Youtube Jerome Polin, teenagers in Candi Wangkal Village have an increased interest in learning mathematics, because Youtube Jerome Polin content can make it easier for teenagers to learn math so that teenagers prefer Youtube Jerome Polin as their math learning. Moreover, Jerome Polin often motivates teenagers to like math, and now thanks to Jerome Polin's Youtube, teenagers are more active in learning math.

However, some teenagers still have difficulty learning math because the delivery provided by Jerome Polin is different from the way conveyed by teachers at school, so teenagers find it difficult to learn math in the form of calculations. However, there are some teenagers who feel helped by Jerome Polin's Youtube because according to them after watching Jerome Polin's Youtube they do not feel any difficulties in learning math, because the explanation given by Jerome Polin is very easy to understand so they enjoy watching his Youtube.

### **3.2. Target**

The properties and objects that have been studied will affect perception. Associated with the target to be perceived are the following other attributes of the target such as movement, sound, size that form the way it will be perceived. [15]

In adolescents' perceptions of Jerome Polin's Youtube as learning math, the results of this study show that Jerome Polin's explanations and movements make it easy for teenagers to understand math, because the hand movements and explanations conveyed by Jerome Polin can help teenagers to understand math easily, especially the way Jerome Polin's delivery looks fun and is accompanied by small jokes that make teenagers feel more comfortable learning math on Youtube Jerome Polin.

### **3.3. Situation**

The atmosphere that can affect human perception contained in the surrounding environmental situation that will be researched later. Various elements in the surrounding environment will certainly be able to influence perception so it is important for researchers to see the context of objects or events.

In adolescents' perceptions of Jerome Polin's Youtube as learning math, the results of this study show that teenagers prefer to learn math through Jerome Polin's Youtube because the delivery made by Jerome Polin is very exciting and exciting so that teenagers choose Jerome Polin's Youtube as math learning. Teenagers prefer Jerome Polin's Youtube as math learning rather than learning directly at school, because learning directly at school for them is very boring and difficult to understand, especially the explanation that has been conveyed by the teacher is too serious so that teenagers prefer Jerome Polin's Youtube as their math learning.

## **4 Conclusions**

Based on the results of the discussion above, it can be concluded that, teenagers' perceptions of Youtube Jerome Polin as learning math in Candi Wangkal Village can be seen from 3 factors that form perceptions, namely the first perceiver from the results of the research above, it can be seen that teenagers have an interest in learning math, so they learn math through Youtube Jerome Polin. From Jerome Polin's Youtube, teenagers get motivation from Jerome to like learning math, because Jerome Polin convinces them that math is not that difficult, therefore through Jerome's words their difficulties can motivate them to like math lessons. However, there are some teenagers after watching Jerome Polin's Youtube who are still in math because they are not taught directly at school. And there are also some teenagers who feel no difficulty in learning math after watching Jerome Polin's Youtube, but rather teenagers find it helpful to do

math, because from the explanation that Jerome Polin has conveyed it is very easy to understand so that teenagers are helped to complete math lessons.

In terms of the target of teenagers' perceptions of Jerome Polin's Youtube as learning math in Candi Wangkal Village, it shows that all teenagers in Candi Wangkal Village after watching Jerome Polin's Youtube can understand math easily. And also from the movement that Jerome Polin has done is also clear. And make them believe that math lessons are not that difficult. With the existence of Jerome Polin's Youtube account, it can gradually change the ability of teenagers to better understand math lessons.

From the Situation of adolescents' perceptions of Jerome Polin's Youtube as learning math in Candi Wangkal Village, it shows that teenagers prefer to learn math through Jerome Polin's Youtube account rather than learning directly at school, because Jerome Polin discusses math in an exciting way and also the way of delivery provided by Jerome Polin is easy to understand. Whereas learning math at school, teenagers are more easily bored and difficult to understand, because learning at school, teenagers do not understand what the teacher has taught at school, and also the explanation given by the teacher is too serious, therefore teenagers prefer to learn math through Jerome Polin's Youtube account.

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