

## EMOTIONAL INTELLIGENCE OF AI CHARACTER VIVY IN THE ORIGINAL ANIME VIVY: FLUORITE EYE'S SONG

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**Abstract:** The discussion in this study is about the formation of emotional intelligence in AI characters in a literary work. The research data source is taken from the anime *Vivy: Fluorite Eye's Song* which is an original anime from Aniplex. The purpose of this study is to describe the formation of the emotional intelligence of an AI character named Vivy who is the main character in the anime *Vivy: Fluorite Eye's Song*. This research uses a qualitative descriptive method, namely by utilizing qualitative data that has been obtained and then described descriptively. The theory used to analyze is the theory of psychological analysis according to Goleman. The result of the research that has been done is the discovery of 5 elements of the formation of emotional intelligence in Vivy's character such as self-awareness, self-regulation, motivation, empathy, and social skills.

**Keywords:** goleman, emotional intelligence, psychoanalysis, vivy: fluorite eye's song

### RESEARCH BACKGROUND

AI (artificial intelligence) is growing over time (Karyadi, 2023). In this modern era, AI has begun to apply abilities such as learning, detecting, inferring, and understanding new things that are very similar to humans in general. So sooner or later the development of AI will make the world more practical (Sangseok, 2020). The development of AI is also often realized in literary works as a depiction of technological progress and its impact on humans (Kurniawan & Hayati, 2024). The depiction of technological progress and its impact on humans can be found, among others, in animated films or anime. Anime is one of the attractions that has become Japanese culture and is in great demand by many people, including in Indonesia (Toi, 2020). (Alien Jaya Setyasih Harini & GPH Dipokusumo, 2020) defines anime as an absorption of the word animation into animeshon then abbreviated to anime. According to Arsyad (Rozy, 2021) anime in the view of literary works has intrinsic elements that exist in dramas or films such as characters and characterizations, settings, themes, and mandates. Because it has these intrinsic elements, anime is often used as data for several studies, including psychological studies.

Psychology is the science of the soul or the science that explores human behavior and activity (Tarmizi, 2017). Psychology according to (Adnan Achiruddin Saleh, 2018) is a science of studying a person's behavior caused by the surrounding environment and what is experienced by that person. Psychological analysis can be linked to literary works because literature and psychology have in common discussing humans, the difference is that literature uses humans created by authors while psychology uses humans created by God (Wiyatmi, 2011). According to Wellek and Warren (Wiyatmi, 2011) the psychological approach to literary works focuses on the characters in them, and from this approach, the implied message hidden by the author can be found.

The literary work used by the author as a data source in this study is an anime entitled *Vivy: Fluorite Eye's Song*. The psychological approach used by the author is Goleman's theory to describe the

formation of emotional intelligence from an AI character named Vivy who is the main character in the anime *Vivy: Fluorite Eye's Song*.

The same research has also been conducted by (Faizah & Oemiati, 2020) with the title *Emotional Intelligence of Totto chan Characters by Tetsuko Kuroyanagi according to Goleman's Theory*. Faizah and Oemiati's research discusses the level of emotional intelligence of the main character Totto using the theory put forward by Goleman. The result of the study was the discovery of 7 elements of social skills in Totto's character in the form of confidence, curiosity, intention, self-control, relatedness, communication skills, and cooperation. The difference between Faizah and Oemiati's research and the author's research is that Faizah and Oemiati's research focused on elements that exist in building relationships, in contrast to the research conducted by the author, which focuses on 4 other elements such as self-awareness, self-regulation, motivation, and empathy. Another difference is that the author uses anime as research data, while Faizah and Oemiati's research uses novels as research data.

## **REVIEW OF RELATED LITERATURE**

Emotional intelligence is a person's ability to regulate and maintain the harmony of their emotions through the skills of self-awareness, self-regulation, motivation, empathy, and social skills (Goleman, 1995). Someone who has emotional intelligence can guide their emotions well and sort out satisfaction to regulate mood (Goleman, 1995). According to (Goleman, 1995) in his book, 5 elements represent his theory of emotional intelligence, namely:

### **Self-awareness**

Recognizing self-emotion or self-awareness is being aware of emotional states or thoughts about emotional states, if someone is less aware of their emotional state, it will be easily affected by their emotions. Self-awareness is the main requirement for controlling emotions. An example of the application of the ability to recognize emotions is to direct an individual in decision-making so that they have realistic standards for their abilities and have strong self-confidence (Adiningtiyas, 2015).

### **Self-regulation**

Self-regulation is a person's ability to handle their emotions so that unnecessary emotions can be controlled and achieve emotional well-being. Emotions that are harbored for too long will destroy one's stability. An example of an individual who successfully manages emotions is being able to comfort themselves when afflicted with a disaster (Nunuk Nur Shokhiyah, 2013).

### **Motivation**

Motivation is the ability to provide a motivational drive that can reassure oneself when taking the initiative to survive failure. Self-motivation must have the resilience to resist complacency and have a positive outlook and self-belief. An example of an individual who applies self-motivation skills usually has the power of positive thinking, enthusiasm, and self-confidence (Nasril & Ulfatmi, 2018).

### **Empathy**

Recognizing the emotions of others is the same as providing empathy and being able to feel what others feel. Someone who can empathize tends to be able to understand the social signs that others need, making him able to understand different points of view and have sensitivity to the feelings of others. An example of the application of the ability to recognize the emotions of others can be seen when deliberating and resolving disputes (Adiningtiyas, 2015).

### **Social skills**

Social skills is the ability to regulate emotions to relate to others so that social interaction is established. Someone who is successful in building relationships will find it easier to achieve success because they can communicate smoothly so that they become friends who are fun because of their communication skills, (Goleman, 1995) also explains that 7 elements represent the ability to build relationships in a person, namely:

#### **1. Confidence**

Having self-confidence and always thinking positively in achieving their goals. An example of the application of belief is when a father supports a child's decision to reach their goals by assisting so that the child can develop their quality (Faizah & Oemiati, 2020).

#### **2. Curiosity**

It is a feeling when someone likes to look for or investigate new things that are positive for them. Examples of the element of curiosity are often found in babies who are always curious about the things in front of them (Faizah & Oemiati, 2020).

#### **3. Intention**

It is an ability that has a high ambition to succeed in achieving something. An example of the application of the element of intention is when a student studies hard to get a satisfactory score on the exam (Faizah & Oemiati, 2020).

#### **4. Self-control**

It is the ability to adjust and direct oneself to behave according to age. An example of the element of self-control can be described when a child is given a task given by the teacher, someone who has strong self-control can be responsible and complete the task (Faizah & Oemiati, 2020).

#### **5. Relatedness**

It is the ability to understand each other by involving oneself with others. An example of the element of relatedness is when a child sees his friend crying alone because he is injured, the child drops himself and pretends to be injured so that his friend's cries subside. (Faizah & Oemiati, 2020).

#### **6. Communication skills**

It is the ability to exchange opinions and feelings with others. An example of the application of the elements of communication skills is when you want to be more intimate with someone, exchanging opinions is needed to foster a sense of trust and mutual understanding between the two (Faizah & Oemiati, 2020).

#### **7. Cooperation**

It is an ability needed in group activities, namely balancing one's own needs with the needs of others. Examples of the application of the element of cooperation are often found when teachers create study groups, and from these study groups students are assigned to solve a problem together (Faizah & Oemiati, 2020).

### **RESEARCH METHOD**

The author uses a qualitative descriptive method as a research method. Nana Syaodih Sukmadinata (Destiani Putri Utami, 2021) explains that descriptive qualitative research is used as a method to describe and describe natural phenomena or human engineering in the form of words and behaviors

displayed from the depiction of the conditions studied into narrative descriptions. The research data source was taken from the anime *Vivy: Fluorite Eye's Song*, especially on emotional intelligence in Vivy's character. The theory used to analyze is the theory of psychological analysis according to Goleman.

## RESULTS AND DISCUSSION

The author found 5 elements that form emotional intelligence in Vivy's character in the anime *Vivy: Fluorite Eye's Song* by Goleman's theory, in the form of self-awareness, self-regulation, motivation, empathy, and social skills as follows:

### Self-awareness

- Vivy : 十度目の警告です。出て行ってください。  
Matsumoto : 十度目の返答ですが、まあそう言わずに。お話ししましょう。  
Vivy : 話すことなんかありません。  
Matsumoto : 全ては話すことから始まるんですよ。こんな話知ってます？  
話がつまらないイケメンと話が面白い顔がある人ではですね--  
Vivy : 出て行ってください。明日もステージがあるんです。episode 1 (13:22)  
Vivy : *Jyuudome no keikoku desu. Deteitte kudasai.*  
Matsumoto : *Jyuudome no hentou desu ga, maa sou iwazuni. Ohanashi shimashou.*  
Vivy : *Ohanashi koto nanka arimasen.*  
Matsumoto : *Subete ha hanasu kotokara hajimarundesuyo. Konna hanashi shittemasu? Hanashi ga tsumaranai ikemen to hanashiga omoshiroi kao ga are no hito dewa desdune--.*  
Vivy : *Deteitte kudasai ashita mo suteeji ga arundesu.*  
Vivy : This is my tenth warning. Please leave.  
Matsumoto : This is my tenth answer, "please don't talk like that". Let's talk.  
Vivy : I don't have anything to talk to you about  
Matsumoto : Everything starts with a conversation. Have you ever heard this?  
"The handsome man is boring and the ugly man who is not boring is--"  
Vivy : I have a show tomorrow, please go.

The story is about an error in Vivy's AI program that made Vivy unconscious. After Vivy performed maintenance, a new program called matsumoto suddenly appeared and mysteriously entered Vivy's brain.

Matsumoto entered Vivy's program like a virus and continued to disturb Vivy as if she wanted to talk to Vivy about something important. Vivy, who felt disturbed, finally got angry and repeatedly told Matsumoto to leave so as not to disturb her. Vivy could not contain her anger because 10 times her warnings were ignored by matsumoto. The feeling of anger felt by Vivy is an element of self-awareness because, from her feelings of anger, Vivy expressed it by cutting off matsumoto's talk and not wanting to talk to matsumoto. Vivy's behavior of cutting off matsumoto's talk and not wanting to talk to matsumoto is a decision on Vivy's awareness of her feelings of anger, this is what gives Vivy the ability of self awareness.

### Self-regulation

- Saeki 博士 : どこに？  
Vivy : 停止プログラムが効かない以上、方法は一つです。グレスを破壊します。  
Saeki 博士 : 待ってくれ。彼女がいなかったら、僕は--  
Vivy : 今ここで彼女を止めないと、多くの人が犠牲になる。グレスの使命は人の命を助けることなのでしょ。  
Saeki 博士 : デイバ!!!

Vivy : 今の私はディバではありません。私の名前はヴィヴィ。episode 6 (15:43)

Saeki 博士 : *Doko ni?!*

Vivy : *Teishi purogurame ga kikanai ijyou, houhou wa hitotsu desu. Guresu wo hakaishimasu.*

Saeki 博士 : *Mattekure! Kanojo ga inakattara, boku wa--*

Vivy : *Ima koko de kanojo wo tomenai to, ooku no hito ga gisei ni naru. Guresu no shimei wa hito no inoci wo tasukeru koto na no deshous.*

Saeki 博士 : *Diva!!*

Vivy : *Ima no watashi wa Diva dewa arimasen. Watashi no namae wa Vivy.*

Saeki 博士 : Where are you going?!

Vivy : Since the termination program failed, then there was only one way. I will destroy Grace.

Saeki 博士 : Wait! If he's gone I-

Vivy : If I don't stop her now, there will be more victims. Grace's mission is to save humans, right?

Saeki 博士 : Diva!!

Vivy : Now I'm not a diva. My name is Vivy.

The story is about the tense debate that occurred between Vivy and Professor Saeki when they were about to destroy the metal float.

Because Vivy and matsumoto's initial plan to destroy the metal float has failed, there is only one way to destroy or kill the AI named Grace so that the metal float stops. Vivy is initially reluctant to carry out the plan because Grace is her sister and also the fiancé of Professor Saeki, but after thinking clearly, Vivy finally agrees to the plan to kill Grace. Vivy makes a difficult decision because, on the one hand, there is Vivy's desire to save Grace without having to kill her so Vivy must put aside her feelings because Grace is her sister and also the fiancée of Professor Saeki. If Vivy does not destroy Grace there will be many casualties in the future. Vivy's ability to put aside emotions and Vivy's decision to kill Grace so that her goal of saving humanity is achieved is proof that Vivy can manage her emotions.

## Motivation

Vivy : 松本。このビルを崩します。

Matsumoto : 何を考えてるんです?とうとう壊れましたか。僕たちはそうなる前にここから出しつー

Vivy : あそこはこのビルのレンダリングセンターでした。無人です。爆破のきろはコントロール出来るんですよ。

Matsumoto : 出来ますけれども、やろうとしてる事がめちゃくちゃですよ。あなたは--

Vivy : 使命を果たすんです。あなたと私の。 episode 2 (13:20)

Vivy : *Matsumoto. Kono biru wo kuzushimasu.*

Matsumoto : *Nani wo kangaeterundesuka. Toutou kowaremashitaka. Bokutachi ha sou naru maeni koko kara dashitsu-*

Vivy : *Asoko wa kono biru no rendaringu sentaa deshita. Mujin desu. Bakuha no kiro wa kontorooru dekirundesuyone.*

Matsumoto : *Dekimasukeredomo, yarou to shiteru koto ga mechakucha desuyo. Anata wa-*

Vivy : *Shimei wo hatasundesu. Anata to watashi no.*

Vivy : Matsumoto. I will demolish this building.

Matsumoto : What are you thinking. You're broken, aren't you? We have to get out of here before--

Vivy : It was the rendering center of this building. There are no guards. You can control the range of the explosion, right?

Matsumoto : You can, but it's too reckless. You--

Vivy : I will complete my mission, your mission and my mission.

The story is about Vivy and matsumoto when pressed by the Toak troops (anti-AI organization) who continued to attack, finally, Vivy came up with the crazy idea to blow up the building that was being occupied by Vivy and matsumoto.

The reason Vivy wants to blow up the building she is currently occupying is so that the building collapses towards the rendering center building next to it so that it becomes a bridge for Vivy and Matsumoto to escape from Toak's troops. Matsumoto was surprised and thought Vivy was crazy for wanting to blow up the building. To carry out Vivy's crazy idea takes great courage and motivation. This motivation was triggered by the conditions being experienced by Vivy, namely being pressed by Toak's troops, which required Vivy to act to survive so as not to be caught by Toak's troops. Taking the initiative to blow up the building by Vivy is proof that Vivy can motivate herself.

## Empathy

Vivy : そうだ、言い忘れていました、ゆいさん。  
 Yui : なんです？  
 Vivy : 私もあなたと同じ考えです。人間と AI は一緒に立って、一緒に歩いていくべきだと思っています。いつの日かきっと。episode 13 (10:21)  
 Vivy : *Souda, iiwasureteimashita, Yui-san.*  
 Yui : *Nandesu?*  
 Vivy : *Watashi mo anata to onaji desu. Ningen to AI wa ishoni tatte, ishoni aruiteiku beki da to omotteimasu. Itsu no hi ka kitto.*  
 Vivy : Oh yeah, I forgot to tell you, Yui-san.  
 Yui : What?  
 Vivy : My thinking is the same as yours. Humans and AI should stand together, and walk together. Someday I'm sure.

The story is about Vivy who is about to go to the battlefield, Vivy calls Yui to express her thoughts that Vivy also has the same thoughts as Yui, namely that humans and AI must coexist.

Vivy's thoughts about how humans and AI should coexist are obtained from Vivy's encounters with various kinds of people and AI that coexist with each other so that there is no need for war. Vivy has a sense of empathy that makes Vivy able to feel how beautiful it is if humans and AI coexist and can understand Yui's perspective on humans and AI must coexist because she has the same thoughts. Vivy's sense of empathy is proof that Vivy can recognize other people's emotions.

## Social skills

### 1) Curiosity

Vivy : ドクター、心とは何でしょうか。  
 Doctor : ん？  
 Vivy : 私の使命は歌で皆を幸せにすることで、その為に心を込めて歌えるようになって、メインステージに立つことを目標としています。  
 Doctor : まあ、声が優れているのは君の特徴だ。問題は、心というのは単なる言葉遊びだよ。心とは感情だ。意識だ。魂だ。現状の科学で断定は出来ない。ディバ、君にとって心を込めるとはどういう事かな。いつか答えを決めたら、教えてくれ。episode 3 (03:06)  
 Vivy : *Dokuta, kokoro to wa nandeshouka.*  
 Doctor : *Hmm?*  
 Vivy : *Watashi no shimei wa uta de minna wo shiawaseni suru koto de, sono tame ni kokoro wo komete utaeru youni natte, mein suteeji ni tatsu koto mokuhyou to shiteimasu.*  
 Doctor : *Maa, koe ga sugureteiru noha kimi no tokuchou da. Mondai wa, kokoro toiu*



*no wa tannaru kotoba asobi dayo. Kokoro to wa kanjyou da. Ishiki da. Tamashi da. Genjyou no kagaku de dantei wa dekinai. Diva kimi ni totte kokoro wo komeru to wa dou iu koto kana. Itsuka kotae wo kimetara, oshiete kure.*

Vivy : Doctor, what does "heart" mean?  
 Doctor : Hmm?  
 Vivy : My mission is to make everyone happy through my singing, and for that I must sing with all my heart, and make the main stage my goal.  
 Doctor : Well, your uniqueness is your melodious voice. The thing is, heart is a play on words. Heart is an emotion. A thought. A soul. It can't be explained through today's science. Diva what do you mean by all your heart? When you know the answer let me know.

The story is about Vivy getting confused with the word 心を込めて (whole heart).

For Vivy, giving maximum happiness to the audience through singing is an obligation. But to fulfill this obligation, Vivy must sing with all her heart like a human. Vivy is just an AI programmed to sing, not understanding what "heart" means in the word 心を込めて (Whole heart). After Vivy does maintenance, Vivy tries to ask her maintenance doctor about 心を込めて in the hope that the doctor will give Vivy the answer she needs. Vivy's ignorance about the meaning of the word "heart", gives rise to the desire of curiosity which is the feeling of wanting to investigate and find out something new about what "heart" means in the word 心を込めて (Whole heart). To satisfy her curiosity, Vivy makes her maintenance doctor an object in the hope that he can provide answers that can fulfill Vivy's curiosity.

## 2) Intention

NaVi : メインステージって、いつのことになるや。  
 Vivy : 期限は重要ではありません。約束したんですから。メインステージを目指して、歌い続けるだけです。  
 NaVi : なんか方法あるの？  
 Vivy : 人間みたいに心を込めて歌えれば、きっと。episode 1 (08:26)  
 NaVi : *Mein suteejitte, itsu no koto ni naru yara.*  
 Vivy : *Kigen wa jyuuyou dewa arimasen. Yakusoku shitandesukara. Mein suteeji wo mezashite, utaitsudzukeru dake desu.*  
 NaVi : *Nanka houhou aruno?*  
 Vivy : *Ningen mitai ni kokoro wo komete utaereba, kitto.*  
 NaVi : Main Stage, when can you get there?  
 Vivy : The deadline is not important. Because I promised her. I'll keep singing until I can.  
 perform on the main stage.  
 NaVi : Do you have a way to do this?  
 Vivy : If I sing like a human... I'm sure I can.

The story is about Vivy who promises to keep singing until she can perform on the main stage.

Hearing Vivy's statement that she wanted to perform on the main stage, NaVi doubted Vivy by asking when and how Vivy could perform on the main stage. According to Vivy, as long as she is alive, Vivy does not care when she performs on the main stage, because the most important thing for Vivy is to sing like a human being with all her heart so that her singing can touch the hearts of the audience. Vivy expressed her intention to perform on the main stage because she had made an appointment with her friend. The desire to successfully perform on the main stage is the element in Goleman's theory, namely intention.

### 3) Cooperation

- Matsumoto : あなたを信用しましょうディバ。あの塔を伸ばさない為、未来の戦争を回避する為、力を貸してください。
- Vivy : 使命に反さないなら。episode 2 (18:58)
- Matsumoto : *Anata wo shinyouhimashou Diva. Ano tou wo nobasanai tame, mirai no sensou kaihisuru tame, chikara wo kashitekudasai.*
- Vivy : *Shimei ni hansanai nara.*
- Matsumoto : I will trust you Diva. In order to prevent the tower from growing taller and future wars, please help me.
- Vivy : As long as it doesn't go against my mission.

The story is about matsumoto explaining what will happen in the next 100 years, where AI starts wars and wipes out humanity.

Matsumoto asks Vivy for help to prevent the rapid development of AI and stop the war that will occur in the next 100 years. Vivy accepts Matsumoto's offer to stop the war between AI and humans on the condition that it does not hinder her mission to make everyone happy with her singing. Vivy can balance the needs of her mission of making everyone happy with her singing with the needs of matsumoto's mission which is to stop the war between AI and humans. Because if humanity perishes it will make Vivy fail. This reason makes Vivy accept cooperation with matsumoto to save humanity and make humanity happy with her singing. This is the reason for the emergence of the element of cooperation in Vivy.

### CONCLUSION

Based on the results of the analysis that has been carried out by the author, it can be concluded that in Vivy's character, 5 elements form emotional intelligence according to Goleman's theory, namely, self-awareness, self-regulation, motivation, empathy, and social skills. self-awareness is shown from the feelings of anger felt by Vivy, which is an element of self-awareness because, from her feelings of anger, Vivy expresses it by cutting off matsumoto's talk and not wanting to talk to matsumoto. Vivy can also manage her emotions by putting her emotions aside and making the decision to kill Grace so that her goal of saving humanity is achieved. Motivation is triggered by Vivy taking the initiative (blowing up the building) which requires her to have the courage to take the initiative. The element of empathy is shown by Vivy through a sense of empathy that makes her able to feel what Yui feels and understand Yui's perspective. Then there are also 3 elements of social skills such as curiosity, intention, and cooperation which complement the emotional formation of Vivy's character by Goleman's theory.

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