

Beautiful Empathy

now with Artificial Intelligence and Blockchain

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The Story

Beautiful Empathy is a collaborative app/board/computer game in which players collaborate to create a unique and colorful mosaic.

The game has no scoring system and there is no official winner.

The main outcome of the game is the mosaic built together.

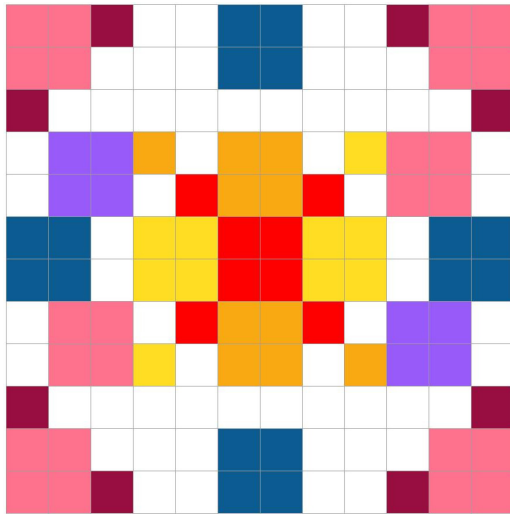


Figure 1: Mosaic created with an early version of the game, using a now deprecated color map.

Lita loves art. She is happy when surrounded by beauty. For her house,

Lita wants a unique mosaic, a completely original piece. For that, she hires her favourite artists (you) to paint a shared mosaic in turns.

But before a painting session, Lita likes to spend some time with the painters, trying to understand them. When Lita guesses the painter's minds in these little chats, the artist becomes extra motivated, and is capable of doing more artwork.

By the end, all that matters is that the painters and Lita, are happy with the resulting artwork.

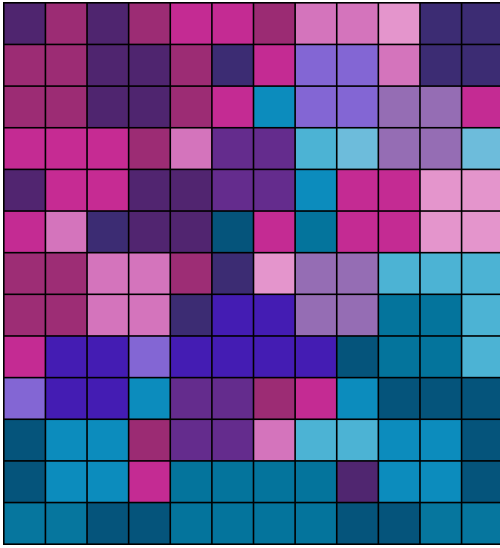


Figure 2: Mosaic created with the circle color map.

Game Script

The game is played in turns. On each turn, one player is the painter, who will *feel* words in sentences and paint on the mosaic. Another player is Lita, who tries to guess the painter’s mind. Typically, roles will rotate among players. Well-intentioned alterations on who plays Lita are welcome.

The Empathy

Lita tries to figure out which word did the painter choose to complete a sentence, out of two options.

Sentence:

The tree was [] in the middle of the forest

Options:

shaking — shinning

The painter must first read the sentence outloud with the two options, and quickly decide by instinct (and in silence) which one feels better, more fitting. Lita must then guess which of the two options the painter chose.

Empathy is key in this part.

At the end of 5 rounds of guesses, count the correct ones. The empathy can be simulated by a uniform random (“Only Beauty” option).

The Beauty

In this order, the painter:

- tries to *add a new color* to it’s palette
- draws cards to *see the shapes available*
- *place the tiles* on the mosaic

Add a New Color

Each player starts the game with one random color. To see if you get a new color, apply the following rules in order until one applies. Consider C is the number of colors owned by the painter, and G the number of correct guesses by Lita.

1. $C < 4$: Get a new color.
2. $G = 5$: Get a new color.

3. $G = 0$: Do not get a new color.
4. $C < G + 4$: Get a new color.

For example, a painter who owns 5 colors will get a new color if 2 or more questions were correctly answered by Lita. Five correct answers will always get the painter a new color, regardless of the colors already owned.

When adding a new color, the painter can choose any color directly connected to a color already owned. The colors each player owns are marked in the color map. A given color can only be owned by a single painter.

See Available Shapes

After trying to get a color, the painter will find the material it has to work on the mosaic. This will depend on the palette and Lita's empathy. A larger palette requires more paint, and more

correct guesses motivate the painter further. In detail:

• **Palette size 1 to 3:**

- If Lita guesses 0 or 1, paint for 2 small squares (1x1)
- If Lita guesses 2 or 3, paint for 4 small squares (1x1)
- If Lita guesses 4 or 5, paint for 6 small squares (1x1)

• **Palette size 4 to 6**

- If Lita guesses 0 or 1, paint for 8 small squares (1x1)
- If Lita guesses 2 or 3, paint for 4 small squares (1x1) and 2 big squares (2x2)
- If Lita guesses 4 or 5, paint for 8 small squares (1x1) and 2 big squares (2x2)

• **Palette size 7 or more**

- If Lita guesses 0 or 1, paint for 4 small squares (1x1) and 2 big squares (2x2)
- If Lita guesses 2 or 3, paint for 8 small squares (1x1) and 2 big squares (2x2)
- If Lita guesses 4 or 5, paint for 16 small squares (1x1)

Place the Tiles

All that is left to do is for the painter to place the tiles on the mosaic. The painter has absolute freedom to do so, while the other painters can comment on the artistic aspects of it, before and after it is done. The placed tiles can be of any color available in the painter's palette, and in any combination (different tiles, different colors).

Respect for the restrictions of big squares and the work of others, is highly encouraged but not enforced.

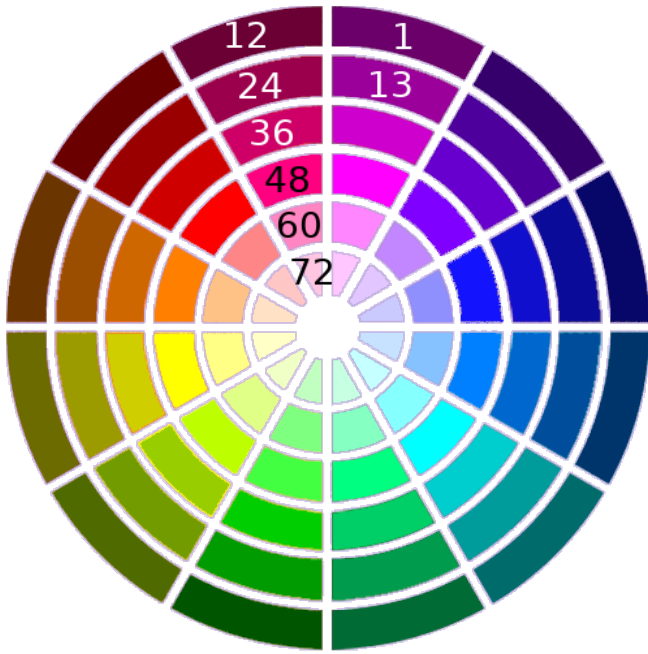


Figure 3: Circle72 Color map. 72 colors, Numbered clockwise, outside to inside, starting on the pink wedge. Each color is connected with the four colors that surround it. Inner and outer border colors are also connected to all other inner and outer border colors respectively.

At this point, this painter's turn is over. Call the next one in!

End of Game

The Game ends after six rounds. Or whenever you want. Once this is happens, take a look at the mosaic you created through empathy, and enjoy the beauty of your collaborative creation.

But wait...

The Artificial Intelligence, right... Well, turns out sentences used to motivate empathy in the game are generated by an AI. We use neural network based language models to generate random but coherent sentences. Then we use the same model to come up with pairs of

words which make the same sense in a position within the sentence. This way, when a player picks one word over the other, is out of subjectivity. If the player does so quickly, it becomes a soul-bounding subconscious response. ... and the blockchain ... guess you could turn your mosaics into NFTs or something? :)

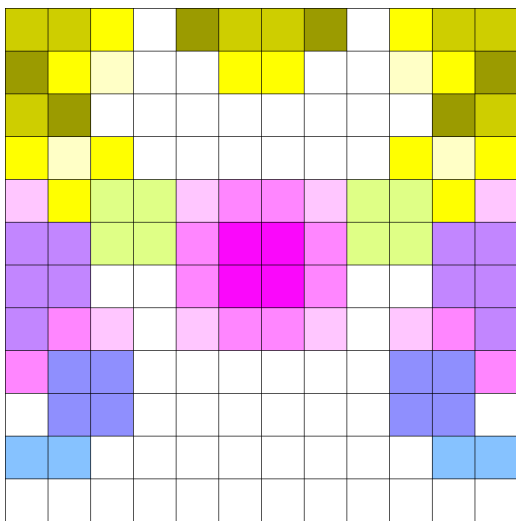


Figure 4: Mosaic created with Beautiful Empathy with the Circle71 color map.