Sigilizer: Data-Driven Art - Generate Animated Sigils from Text

This project is a data-driven **art** endeavor that transforms phrases into unique sigils (symbolic representations) by converting the input into hexadecimal code. The resulting sigils are plotted and animated, blending data, design, and creativity into a visual art form.

Features

- **Data-Driven Art**: Converts phrases into visual art through hexadecimal representations.
- **Sigil Generation**: Draws a unique sigil based on the phrase's hexadecimal code.
- **Animated Sigil Creation**: Animates the sigil creation process and saves it as a GIF.
- **Customizable**: Modify the input phrase to create your own unique sigils.

Requirements

- Python 3.9 or higher
- Required libraries:
    - matplotlib
    - numpy
    - pillow

Install the dependencies using:

```
pip install matplotlib numpy pillow
```

Usage

To generate a sigil and save it as a GIF, use the following code in a Jupyter notebook or a Python script:

```
# Example usage
target_phrase = "Every phrase has a unique sigil."
output_gif = "target_sigil.gif"
animate_sigil(target_phrase, output_gif)

print(f"Target sigil saved as: {output_gif}")
```

This will create an animated GIF of the sigil based on your input phrase and save it as target_sigil.gif.

How It Works

1. **Phrase to Hexadecimal**: The input phrase is transformed into its hexadecimal equivalent using the phrase_to_hex() function.
2. **Sigil Drawing**: The draw_circular_sigil_with_text() function plots points on a circular path, with the number of points corresponding to the length of the hexadecimal string.
3. **Animation**: The animate_sigil() function animates the creation process and saves the result as a GIF.

Example

Here's an example sigil for the phrase "Every phrase has a unique sigil.":

Project Inspiration

This project is inspired by the intersection of **data** and **art**. I enjoy using data to create visual works, exploring how information can be transformed into compelling imagery. Sigils are ancient symbols of intention and energy, and this project blends that concept with modern data-driven techniques to produce unique pieces of animated art.

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