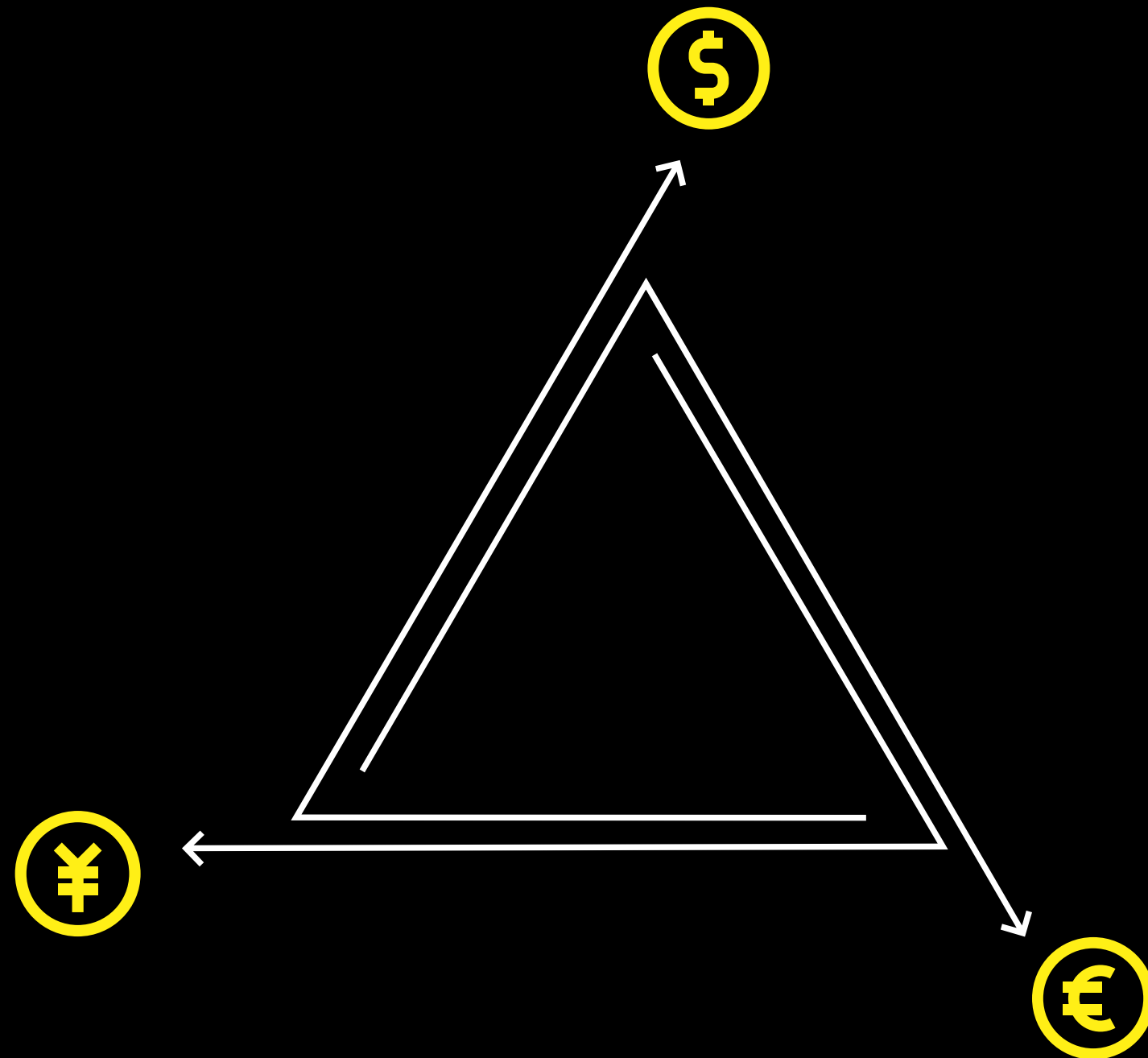


# TRIANGULAR ARBITRAGE

## SPOTTER



# PROBLEM:

Individuals strives to make profits based on the differences of the stock market related to the transfer value of certain currencies to other currencies. People want to use these discrepancies to figure out possible transfers that can make the most profit.





# PROGRAMS/LANGUAGE USED:

The code is written in python because we wanted to be able to create a GUI. The GUI is created using PySimpleGUI. We thought it was be helpful for the user to understand what is going on. To do this we coded a visual of how the triangular arbitrage converts from different currencies, using Turtle (a drawing tool that can be used in python).

# HOW IT WORKS:

Based on a library of currency rates, a comparison is made between the base currency (user's starting currency) to two other currencies. The program tries to find a discrepancy between the exchange currencies where a profit occurs.

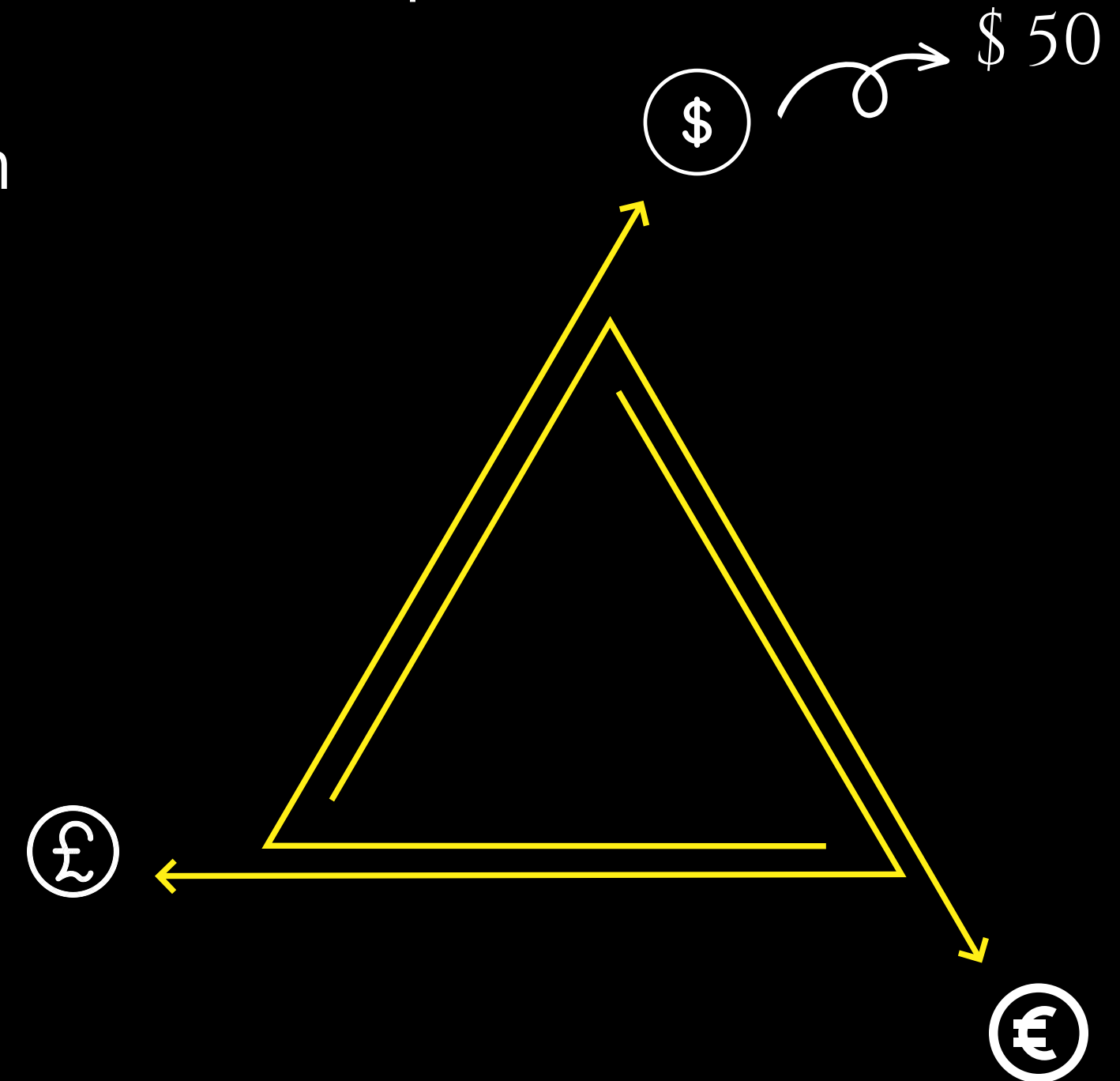
For example: If the user were to go to an airport with 100 USD and exchange it for Euros.

Then exchange the Euros for pounds.

Finally, exchange the pounds back to USD.

If the user gets 150 USD back

There was a profit of 50 USD made



# INTRICACIES OF PROGRAM/PROJECT:

1. The program requires the user to choose their base currency (BIT, LTC, ETH)
2. Then it gets the user's amount they would exchange/sell
3. The program will calculate between two different currencies if there was any type of profit made, from the best possible case
4. If there was any type of profit made, the program will state how much profit was made
5. For educational purposes, it will illustrate a triangle depicting the direction and type of conversion it made

# SOLUTION TO PROBLEM:

This program brings a solution, where it allows the user or individual to make some extra money based on the discrepancy of the market. Since these little discrepancies within the market would only appear for a quick second, the program quickly finds the best profit for the user, without the manual calculations.



# GROUP MEMBERS:



Philip Teague

teaguep22@students.ecu.edu



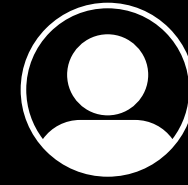
Jackson Barbour

barbourj22@students.ecu.edu



Kevin Anderson

andersonkev22@students.ecu.edu



Elias Hazboun

hazboun14@students.ecu.edu



Alyssa Kim

kima21@students.ecu.edu