CS 115 Project 2 FULL
Grading Sheet

http://www.cs.sonoma.edu/cs115/S17/proj/cs115_p2_rubric_full.html

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Correctness (65 points)

Board configuration (15 points)

5 pts. Game board dimensions match the images and descriptions provided in the assignment description (5x5 grid, margins as defined, color at card borders both when hidden and shown, etc).

5 pts. Board is comprised of the correct number of pieces (12 pairs of images plus an extra image), whose positions and identities are randomized each game.

5 pts. On game start, board is drawn with all cards hidden.

Click behavior (50 points)

5 pts. When the hidden card at coordinate (i,j) is clicked, the card at coordinate (i,j) is shown.

5 pts. The 'first pick' stays shown until a 'second pick' is made, at which point both are visible for a brief period of time (after this, what happens depends on if they match).

5 pts. When the 'first pick' and 'second pick' match, they stay visible and get a red 'X' drawn over their faces.

5 pts. When the 'first pick' and 'second pick' are not a match, they are hidden again.

5 pts. A red 'X' is never drawn over unmatched cards.

5 pts. Matched cards stay visible and stay marked with an 'X' for the duration of the game.
5 pts. When making a 'first pick', the following actions are ignored: clicking in the margins of the board, clicking cards that are matched.

5 pts. When making a 'second pick', the following actions are ignored: clicking in the margins of the board, clicking cards that are matched, clicking any unhidden cards (like the 'first pick').

5 pts. The winning condition gets detected when all pairs have been matched, and the `you_won()` function is called in this scenario.

5 pts. Program exits without any error messages if the graphics window is closed.

Programming Style (25 points)

Filename (1 point)

1 pt. Your program should obey the naming convention indicated in the assignment.

Docstring (3 points)

[3] There is a docstring at the top of the submitted file with your name (first and last), the course (CS 115) and assignment (Project 2), and a brief description of the program.

-1 Missing author name

-1 Missing or wrong course and/or assignment

-1 Missing or wrong description

Function behavior (4 points)

[3] Each function matches its description and each function implementation is not too long (no more than 20 lines of code).

-1 Not true of one function

-2 Not true of 1/2 or fewer of the functions.

-4 Not true of more than 1/2 of the functions.

Function documentation (3 points)

[3] You have completed the docstrings of all functions. Each function includes a docstring explaining the job it does, its input parameters, its return value, and any assumptions it makes about its inputs.
See `match_graphics.py` for examples of how to effectively document functions, their parameters and return values.

-1 Some function doctring is significantly incomplete.
-2 Some functions do not have completed doctrings.
-3 Most functions do not have completed docstrings.

**Other documentation (3 points)**

Not counting the docstrings for your program and functions, your program should contain at least three comments explaining aspects of your code that are potentially tricky for a person reading it to understand. You should assume that the person understands what Python syntax means but may not understand why you are doing what you are doing.

3 pts. You have at least 3 useful comments (1 point each)

**Variable declarations and naming (4 points)**

[4] Important variables have descriptive names that indicate what they are used for
-2 Variable declarations are not accompanied by comments
-2 Variables do not have names that suggest for what they are used

**Algorithm (2 points)**

1 Your algorithm is straightforward and easy to follow.
1 pt.
1 Your algorithm is reasonably efficient, with no wasted computation or unused variables.
1 pt.

**Catchall (5 pts)**

You will lose 5 points for having ANY statements outside of a function definition. There are only three exceptions to this rule:

- Import statements
- Definition of constants (variables whose values are known before the program runs and never modified)
- The call to `main`
For students using language features that were not covered in class, up to 5 points may be taken off if the principles of programming style are not adhered to when using these features. If you have any questions about what this means, ASK!