

University of Surrey Widening Participation and
Outreach Coding Hub

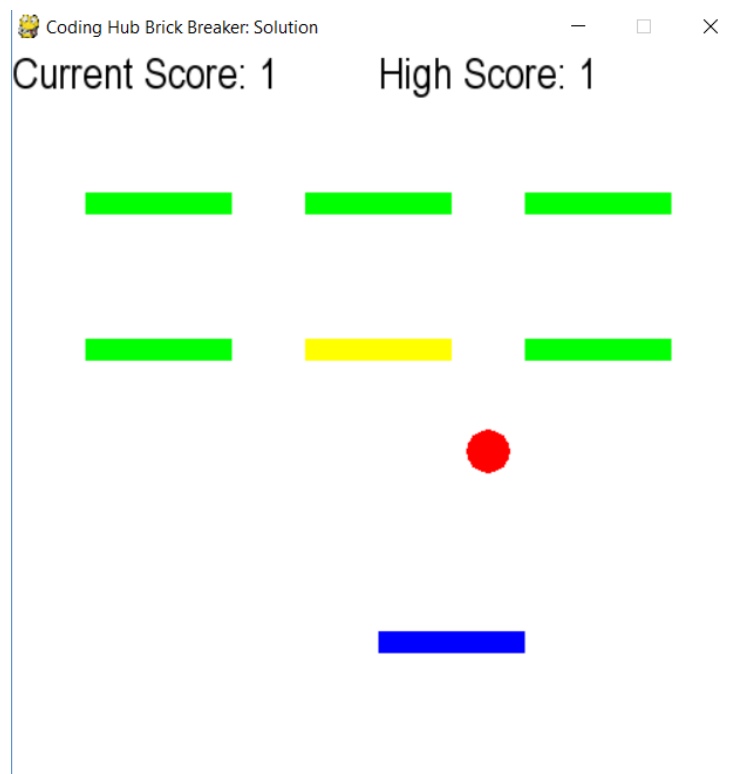
The Final Game

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Congratulations! You made it to the final day of our Coding Hub! We hope that you had as much fun as we did. By now you should be able to control a paddle on the screen and possibly even see a ball bouncing around. Today we will give you the code to complete the game and be able to play it. It will look like this:



To get the full code on your PC you will need to download it from a github repository. Go to the following link and download the source code of the game:

<http://github.com/WillScottJackson/PyGameBrickBreaker>

The code is well commented so we hope that you will understand what is every line responsible for.

Follow up

Now that you have a full game running try to experiment a bit. Can you add more bricks? Perhaps some of them can have special forces, for example can make the ball faster, or add an extra ball to the screen? Can you make the bricks fall down when you hit them? Perhaps you want to add a picture as a background of your game? Experiment! Remember: the only limit to what your game looks like is your own imagination!

Programming resources

If you want to try some new ideas you might need some help. Luckily, all the information you need is in internet.

Pygame is the python module that we build our game with. On their website you can find examples of other games and description of all the available functions:

<http://www.pygame.org/docs/index.html>

Stackoverflow is a website where people ask all types of questions about programming. You can find solutions to many bugs that you will be fighting with:

<http://stackoverflow.com/>

If you want to learn more python, there are plenty free online courses. Browse through these websites and find a course you like:

<https://www.codecademy.com/> <https://www.udacity.com/>

Or you may be tempted to try to compete against some other programmers:

<https://www.codewars.com/>

Get inspired and dive into programming. We hope it will be a great adventure for you! Good luck!