

The name of the game is Hard Pong, this is because it is basically the classic game Pong but with a spin that increases its difficulty (or makes it more fun conditionally).

The game begins with one ball, if this ball collides with a paddle, 5 points are added to your current score, its trajectory is either inverted or the direction changes at a 50/50 chance. If the ball collides with a wall, an invisible barrier that the ball is not permitted to pass through, you lose one life, and the ball's trajectory is either inverted or randomly changed at a 50/50 chance.

The spin is that it has 4 paddles instead of two, one on each side of the square game panel, and upgrades that make the game interesting spawn randomly from the top of the reachable space of the ball.

The upgrades have a spawn chance of $1/250$ and disappear once they are collided with, they are either cyan, blue, green, yellow, or magenta.

The **cyan upgrade** spawns an extra ball near the one that collided with the upgrade with the same trajectory, unless there are already 6 balls on the field, since there is a ball cap of 6. If there is more than one ball on the field, once a ball hits a wall, it disappears.

The **blue upgrade** increases the speed that the ball that collided with it moves by one, increasing the difficulty of the game.

The **green upgrade** increases the current lives you have by one, unless you already have the max lives, which is 20.

The **yellow upgrade** makes ball collisions with paddles give double points (10) for 30 seconds, a timer is displayed in the bottom left corner of the game panel, once it reaches 0 the upgrade effects are disabled.

The **magenta upgrade**, the best upgrade, gives you invincibility, double points, an doubled balls, and doubled ball speed under a cap of 10 for 30 seconds. Once the time for this upgrade is over (displayed in the bottom left corner) all effects of this upgrade are disabled, except the doubled balls, when a ball hits a wall it is despawned unless there is only one ball remaining.

The top and bottom paddle are controlled by the same key input, W and D or left and right arrow keys. This means that they move at the same time. The left and right paddles operate the same, except that they are controlled by the W and S or up and down arrows.

In the bottom left of the game panel you will see the upgrade status of the game, Magenta upgrade timer, double points timer (if you don't have a magenta timer), number of balls and number of extra life upgrades collected.

Have fun!