

```
info(){
   This project is a 2D Golf video game contains a
   field, some obstacles, two holes and two balls;

    The field splited into two sides each side is

   independent, one ball, one hole and its own
   obstacles:

    The player should get the ball into the target in

   each side but simultaneously controlling both
   balls;
```

```
Install('Game') {
    01 Git clone('Link'){
           Link = Click Here;
        }
           02 Installing('compiler'){
                 Compiler = MingW;
```

```
Running
                              Installing
Run('Game') {
Run the following command[(MinGW) -f MakeFile];
MinGW should indicates to make exe file in the
compiler directory, and MakeFile is a cmake file
in the game directory;
```

```
Learning('Programmatic Physics') {
  [How to] 'make the ball slow down continually
  while it is moving';
   [How to] 'reverse the movement direction of the
  ball when it hits a wall/object';
```

## Learning

```
. . .
        if ( getVelocity().x > 0.001 || getVelocity().x < -0.001 || getVelocity().y > 0.001 || getVelocity().y < -0.001 )
            if (velocity1D > 0)
               velocity1D -= friction * deltaTime;
            else
               velocity1D = 0;
            velocity.x = (velocity1D/launchedVelocity1D)*abs(launchedVelocity.x)*dirX;
            velocity.y = (velocity1D/launchedVelocity1D)*abs(launchedVelocity.y)*dirY;
```

```
.
        if (getPos().x getCurrentFrame().w > 640/(2 - index))
            setVelocity(-abs(getVelocity().x), getVelocity().y);
        else if (getPos().x < 0 \quad (index*320))
            setVelocity(abs(getVelocity().x), getVelocity().y);
            dirX = 1:
        else if (getPos().y getCurrentFrame().h > 480)
            setVelocity(getVelocity().x, -abs(getVelocity().y));
        else if (getPos().y < 0)</pre>
            setVelocity(getVelocity().x, abs(getVelocity().y));
```

That's it!

## Thank you;

Another src Code