



# What is our GOAL for this MODULE?

We used our knowledge to change the lane and create an identification of the player's car.

# What did we ACHIEVE in the class TODAY?

- Added the condition to move the car to left and right when the arrow key is pressed
- Added some identification to help the player identify which is their car.

# Which CONCEPTS/CODING BLOCKS did we cover today?

- text() function
- keylsDown()



#### How did we DO the activities?

1. Initialize the value of xVel and yVel.

2. Add the condition to move the car left and right when the respective arrow key is pressed.

```
js > 🖈 Game.js > 😘 Game > 😚 play
                 //use data form the database to display the cars in y direction
// y = displayHeight - allPlayers[plr].distance;
cars[index-1].x = x;
cars[index-2].x = x;
                   cars[index-1].y = y;
                   if (index === player.index){
  cars[index - 1].shapeColor = "red";
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                      camera.position.x = displayWidth/2;
                      camera.position.y = cars[index-1].y
              if(keyIsDown(UP_ARROW) && player.index !== null){
                player.distance +=10
                 player.update();
              console.log(displayHeight)
                 if(keyIsDown(38) && player.index !== null){
                   yVel += 0.9;
                      if(keyIsDown(37)){
                       if(keyIsDown(39)){
                            xVel += 0.2:
```

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3. Change the index value of the player's car.

```
JS Game.js X
JS Game.js > % Game > 1 play
                                                       > player.distance
                                                                                An 函。* ? of 2
        Player.getPlayerInfo();
        if(allPlayers !== undefined){
          image(track, 0,-displayHeight*4,displayWidth, displayHeight*5);
   console.log(displayHeight);
          var index =0;
          var x =200;
          var y;
          for(var plr in allPlayers){
           index = index + 1;
         x = 200+ (index * 200) + allPlayers[plr].xPos;
           y = displayHeight - allPlayers[plr].distance;
//position the cars a little away from each other in x direction
           //use data form the database to display the cars in \gamma direction
           cars[index-1].x = x;
            cars[index-1].y = y;
            textAlign(CENTER);
            textSize(20);
            text(allPlayers[plr].name, cars[index - 1].x, cars[index - 1].y + 75);
```

4. Include the code to move the car.

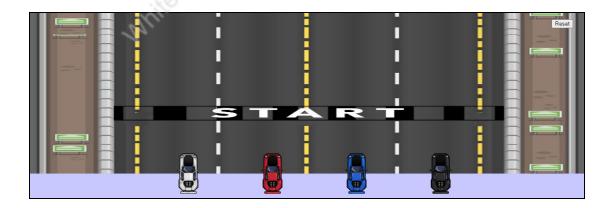
```
JS Game.js > ધ Game > 😚 play
                                                    > player.distance
       //if(player.distance <
        if(keyIsDown(38) && player.index !== null){
          yVel += 0.9;
             if(keyIsDown(37)){
                xVel -= 0.2;
             if(keyIsDown(39)){
                 xVel += 0.2;
   player.distance += yVel;
    yVel *= 0.98;
    player.xPos += xVel;
    xVel *= 0.985;
    player.update();
    //display sprite:
    drawSprites();
```

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5. Add the initial state of xPos inside player.js.

```
JS Player.js > 😭 Player
  class Player {
                                          > player.distance
    constructor(){
     this.index = null;
     this.distance = 0;
     this.xPos = 0;
     this.name = null;
     this.place = 0; }
    getCount(){
     var playerCountRef = database.ref('playerCount');
     playerCountRef.on("value",(data)=>{
    playerCount = data.val();
    updateCount(count){
    update(){
```





6. Reduce the speed of the car once it reaches the end by adding the conditions.

```
Game.js > 😘 Game > 🕥 play
                     text(allPlayers[plr].name, cars
                                                              > player.distance
                     if (index === player.index){
                        cars[index - 1].shapeColor = "red";
                        camera.position.x = displayWidth/2;
                        camera.position.y = cars[index-1].y
                  if(keyIsDown(38) && player.index !== null){
    yVel += 0.9;
    if(keyIsDown(37)){
        xVel -= 0.2;
    }
    if(keyIsDown(39)){
        xVel += 0.2;
    }
                if(player.distance < 2150){
                             xVel += 0.2;
                   }else if(keyIsDown(38) &&
                                                           > 0 && player.index !== null){
                       yVel -= 0.1;
                       xVel *= 0.9;
                   }else{
                       yVel *= 0.985;
                        xVel *= 0.985;
```



7. Include the player identification.

```
JS Game.js
is > JS Game.js > 😘 Game > 😚 play
                     image(track, 0,-displayHeight*4,displayWidth, displayHeight*5);
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                     var index =0;
                     var x =200;
                     var y;
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                     for(var plr in allPlayers){
                       index = index + 1;
                       x = 200 + (index * 200) + allPlayers[plr].xPos;
                       y = displayHeight - allPlayers[plr].distance;
                       // x = x + 200,

//use data form the database to display the cars
                      // y = displayHeight - allPlayers[plr].distance;
                       cars[index-1].x = x;
                       cars[index-1].y = y;
                       textAlign(CENTER);
                       textSize(20);
                       text(allPlayers[plr].name, cars[index - 1].x, cars[index - 1].y + 75);
                       it (index === player.index){
                         cars[index - 1].shapeColor
```



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# PRO-C41



# What's NEXT?

In the next class, you will be learning to create obstacles and add sounds to our car racing game.

#### **EXTEND YOUR KNOWLEDGE:**

1. Learn more about the keycode.