

```
const cvs = document.getElementById("snake");  
const ctx = cvs.getContext("2d");
```

```
// create the unit  
const box = 32;
```

```
// load images
```

```
const ground = new Image();  
ground.src = "img/ground.png";
```

```
const foodImg = new Image();  
foodImg.src = "img/food.png";
```

```
// load audio files
```

```
let dead = new Audio();  
let eat = new Audio();  
let up = new Audio();  
let right = new Audio();  
let left = new Audio();  
let down = new Audio();
```

```
dead.src = "audio/dead.mp3";  
eat.src = "audio/eat.mp3";  
up.src = "audio/up.mp3";  
right.src = "audio/right.mp3";  
left.src = "audio/left.mp3";  
down.src = "audio/down.mp3";
```

```
// create the snake
```

```
let snake = [];
```

```
snake[0] = {  
  x : 9 * box,  
  y : 10 * box  
};
```

```
// create the food
```

```
let food = {  
  x : Math.floor(Math.random()*17+1) * box,
```

```

    y : Math.floor(Math.random()*15+3) * box
}

// create the score var

let score = 0;

//control the snake

let d;

document.addEventListener("keydown",direction);

function direction(event){
    let key = event.keyCode;
    if( key == 37 && d != "RIGHT"){
        left.play();
        d = "LEFT";
    }else if(key == 38 && d != "DOWN"){
        d = "UP";
        up.play();
    }else if(key == 39 && d != "LEFT"){
        d = "RIGHT";
        right.play();
    }else if(key == 40 && d != "UP"){
        d = "DOWN";
        down.play();
    }
}

// cheack collision function
function collision(head,array){
    for(let i = 0; i < array.length; i++){
        if(head.x == array[i].x && head.y == array[i].y){
            return true;
        }
    }
    return false;
}

// draw everything to the canvas

function draw(){

```

```

ctx.drawImage(ground,0,0);

for( let i = 0; i < snake.length ; i++){
  ctx.fillStyle = ( i == 0 )? "green" : "white";
  ctx.fillRect(snake[i].x,snake[i].y,box,box);

  ctx.strokeStyle = "red";
  ctx.strokeRect(snake[i].x,snake[i].y,box,box);
}

ctx.drawImage(foodImg, food.x, food.y);

// old head position
let snakeX = snake[0].x;
let snakeY = snake[0].y;

// which direction
if( d == "LEFT") snakeX -= box;
if( d == "UP") snakeY -= box;
if( d == "RIGHT") snakeX += box;
if( d == "DOWN") snakeY += box;

// if the snake eats the food
if(snakeX == food.x && snakeY == food.y){
  score++;
  eat.play();
  food = {
    x : Math.floor(Math.random()*17+1) * box,
    y : Math.floor(Math.random()*15+3) * box
  }
  // we don't remove the tail
}else{
  // remove the tail
  snake.pop();
}

// add new Head

let newHead = {
  x : snakeX,
  y : snakeY
}

```

```
// game over

if(snakeX < box || snakeX > 17 * box || snakeY < 3*box || snakeY > 17*box ||
collision(newHead,snake)){
    clearInterval(game);
    dead.play();
}

snake.unshift(newHead);

ctx.fillStyle = "white";
ctx.font = "45px Changa one";
ctx.fillText(score,2*box,1.6*box);
}

// call draw function every 200 ms

let game = setInterval(draw,200);
```