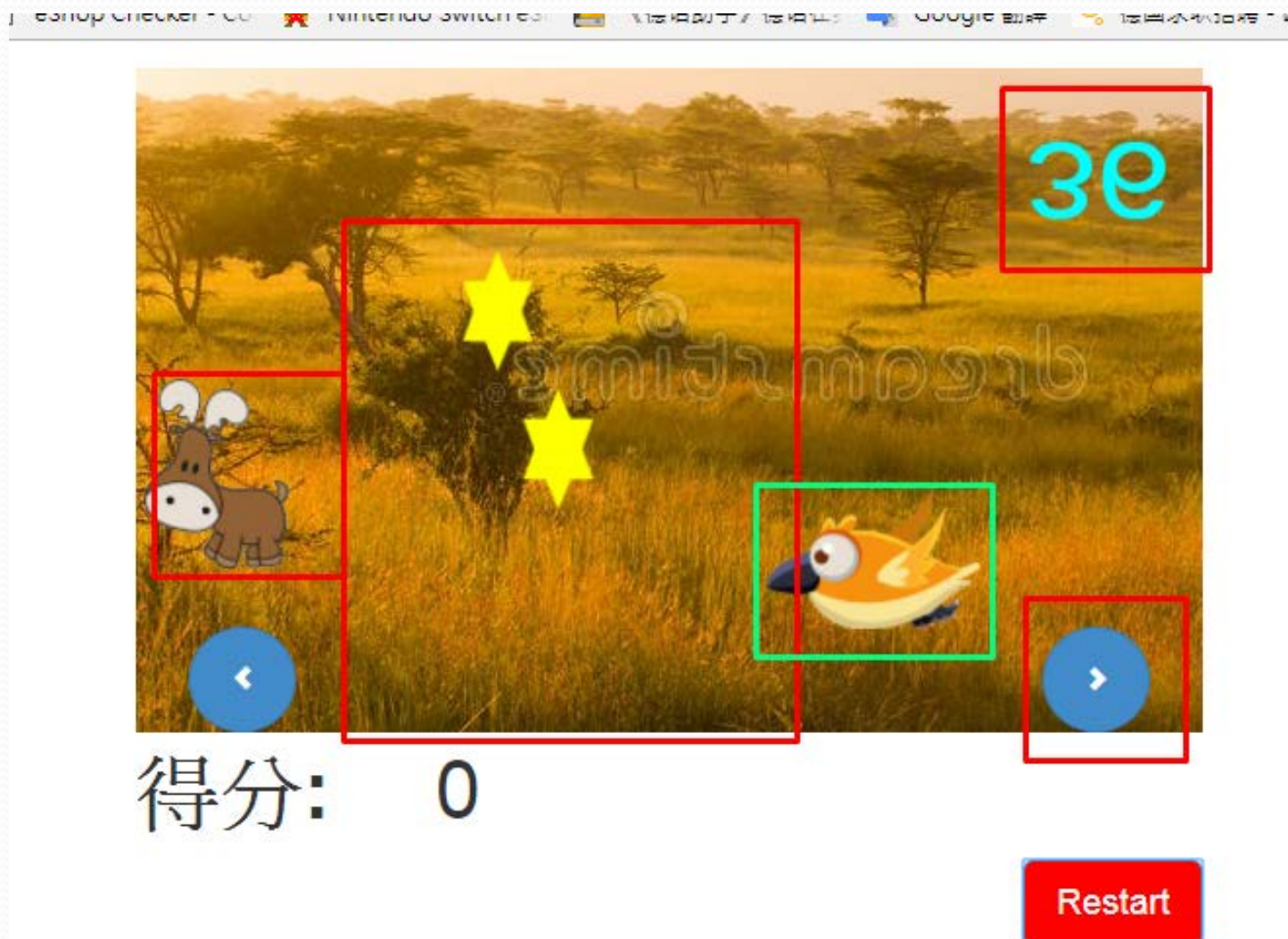


小專題報告

鄭植諺

2018/04/25

Layout



Display two digits

- timeChar = (gameTime+1000).toString().substr(2,2);



Digits Turn Animation

- Add and remove with different setInterval()

```
.digitTurn{  
  animation:turn 1s linear;  
}  
  
@keyframes turn{  
  from {transform:rotateX(0deg);}  
  to {transform:rotateX(360deg);}  
}
```

```
var timeChar;  
var time2 = setInterval(function(){  
  timeChar = (gameTime+1000).toString().substr(2,2);  
  $("#timer").html(timeChar);  
  $("#countDown").addClass("digitTurn");  
  if (gameTime == 0){  
    clearInterval();  
  }  
  if(pointCounter%3 ==1){  
    setStarAndDraw();  
  }else{  
    ctx.clearRect(0,0,c.width,c.height);  
  }  
  gameTime--;  
}, 1000);  
  
setInterval(function(){  
  $("#countDown").removeClass("digitTurn");  
}, 2000);
```

- <https://www.youtube.com/watch?v=9bOlAFoFyoA>

Background image Button

```
#bannerImage {  
  position: absolute;  
  top: 0px;  
  width: 3000%;  
  height: 90%;  
  background-color: red;  
  background-image: url('images/grass2.jpg');  
  background-repeat: repeat-x;  
  left: -1000%;  
  transition: all 0.5s linear;  
}
```



```
var time3;  
$("#turnRightButton").bind({  
  'mouseenter': function(){  
    time3 = setInterval(function(){  
      // backgroundImageXLocation= backgroundImageXLocation%200;  
      // alert(backgroundImageXLocation);  
      $("#bannerImage").attr("style", "left: -"+backgroundImageXLocation+"%");  
      backgroundImageXLocation+=5;  
    }, 300)  
  },  
  'mouseleave': function(){  
    clearInterval(time3);  
  }  
})
```

Direction detection for once

- Otherwise, accumulation speeding-> use fire

```
var fired = false; //flag for press once detection
var time4;
document.onkeydown = function(evt) {
    if(!fired && evt.keyCode==39) { //if excute as fire==false
        fired = true;
        // do something
        time4 = setInterval(function(){
            $("#bannerImage").attr("style","left: -"+backgroundImageXLocation+"%");
            backgroundImageXLocation+=3;
        },300);
    }else if(!fired && evt.keyCode==37){
        fired = true;
        // do something
        time4 = setInterval(function(){
            $("#bannerImage").attr("style","left: -"+backgroundImageXLocation+"%");
            backgroundImageXLocation-=3;
        },300);
    }
};

document.onkeyup = function() {
    if(evt.keyCode==39 || evt.keyCode==37){ //without this would cause trigger by all the keybottom
        fired = false;
    }
}
```

clear all the setInterval()

```
function clearAllInterval() {  
    var highestIntervalId = setInterval("");  
    for (var i = 0; i < highestIntervalId; i++) {  
        clearInterval(i);  
    }  
}
```


Selector with MultiSelector

```
$("#startButton, #restartButton").click(function() {-  
    clearAllInterval();  
    pointCounter = 0;  
    $("#pointBoard").text(pointCounter);  
    var gameTime = 60;  
  
    var time2 = setInterval(function() {-  
  
        $("#timer").html(gameTime);  
        if (gameTime == 0) {-  
            clearAllInterval();  
        }  
        gameTime--;  
    }, 1000);
```


Class function Star(){}



```
Star.all=[];

function Star(x, y, r, p, m, starColor, ctx){
    this.x = x;
    this.y = y;
    this.r = r;
    this.p = p;
    this.m = m;
    this.starColor = starColor;
    this.ctx = ctx;
    this.checkClicked=false;
    Star.all.push(this);

    this.draw = function (){
        this.ctx.save();
        this.ctx.beginPath();
        this.ctx.translate(this.x, this.y);
        this.ctx.fillStyle=starColor;
        this.ctx.moveTo(0,0-this.r);
        for (var i = 0; i < this.p; i++)
        {
            this.ctx.rotate(Math.PI / this.p);
            this.ctx.lineTo(0, 0 - (this.r*this.m));
            this.ctx.rotate(Math.PI / this.p);
            this.ctx.lineTo(0, 0 - this.r);
        }
        this.ctx.fill();
        this.ctx.restore();
    };

    this.remove = function(){
        Star.all.splice(Star.all.indexOf(this), 1);
    }
}
```

Star Draw

- Call the function every sec. and update every ten sec.

```
var gameTime = 60;
var timeChar;

var time2 = setInterval(function() {
    timeChar = (gameTime+1000).toString().substr(2,2);
    $("#timer").html(timeChar);
    $("#countDown").addClass("digitTurn");
    if (gameTime == 0) {
        clearInterval();
    }
    setStarAndDraw();
    if(gameTime%10 ==5){
        ctx.clearRect(0,0,c.width,c.height);
        var counter=Star.all.length;
        while(counter--){
            Star.all[counter].remove();
        }
    }
    gameTime--;
}, 1000);
```

```
function setStarAndDraw() {
    ctx.clearRect(0,0,c.width,c.height);
    //var counter=Star.all.length;
    while(Star.all.length < starNumber){
        var randomStarX = Math.floor(Math.random()*c.width);
        var randomStarY = Math.floor(Math.random()*c.height);
        while(randomStarX > 0.6*c.width){
            randomStarX = Math.floor(Math.random()*c.width);
        }
        while(randomStarY > 0.6*c.height){
            randomStarY = Math.floor(Math.random()*c.height);
        }
        var star = new Star(randomStarX+30,randomStarY+30,20,6,0.6,"");
    }
    Star.drawAll();
}
```

```
Star.drawAll=function(){
    for(var i=0; i<Star.all.length;i++){
        if(Star.all[i].checkclicked==false){
            Star.all[i].draw();
        }
    }
}
```

Star Click Event Detection

```
document.onclick= checkStarClick;

function checkStarClick(event){

    var mouseY=event.clientY;
    var mouseX=event.clientX;
    var counter=Star.all.length;

    function StarPos(){
        this.x;
        this.y;
    }

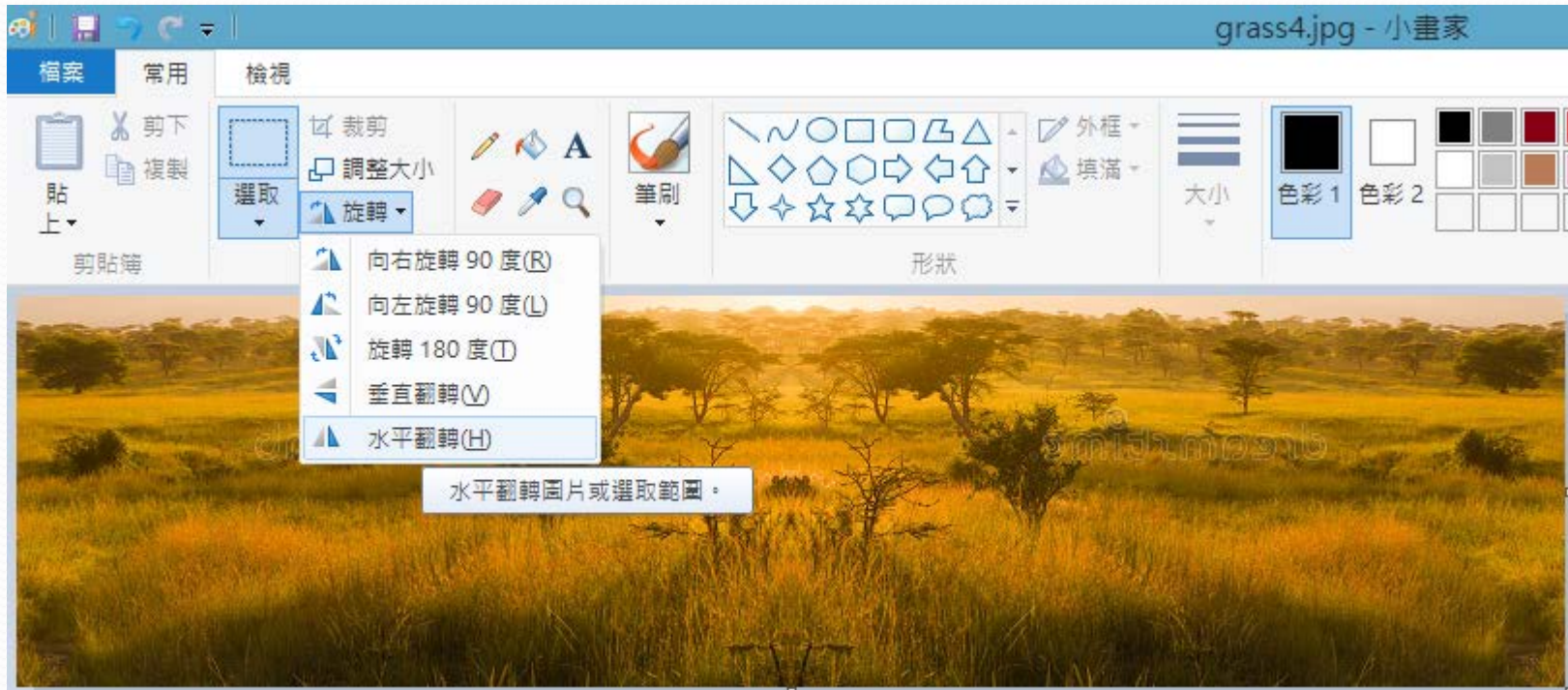
    while(counter--){
        try{
            var rect = c.getBoundingClientRect();
            var starPos= new StarPos();
            starPos.x=rect.left + Star.all[counter].x; //get actual P
            starPos.y=rect.top + Star.all[counter].y;

            if(Math.sqrt((starPos.x-mouseX)*(starPos.x-mouseX)+
                (starPos.y-mouseY)*(starPos.y-mouseY))
                < 30){

                if(!Star.all[counter].checkclicked){

                    Star.all[counter].checkclicked=true;
                    starAudio.play();
                    pointCounter++;
                    $("#pointBoard").text(pointCounter);
                    // starNow.x=-500;
                    // starNow.y=-500;
                }
            }
        }catch(e){
            //do nothing
        }
    }
}
```

Background image



- <http://www.dreamstime.com/royalty-free-stock-photography-african-savannah-misty-morning-light-serengeti-national-park-tanzania-image67663867>

音效

```
<audio id="audio" src="sound/fireSound.ogg"></audio>
```

```
var audio = document.getElementById('audio');
```

```
audio.play();
```

- 來源
- <http://tw.yisell.com/>(槍聲)
- <http://forums.wasabistudio.ca/viewtopic.php?f=70&t=35276>(馬利)
- 剪輯 <https://mp3cut.net/tw/>
- Note: 用.mp3有時候只會撥一次，後來用.ogg(<https://www.online-convert.com/>)

圖檔來源



- http://bpic.588ku.com/element_origin_min_pic/17/11/30/oco98cfifoefb94bcec9eo3298eeob6d.jpg
- <http://588ku.com/suca/7522351.html>
- <https://cn.dreamstime.com/%E5%BA%93%E5%AD%A7%E7%85%A7%E7%89%87-%E5%9C%A8%E6%9C%89%E8%96%84%E9%9B%BE%E7%9A%84%E6%97%A9%E6%99%A8%E5%85%89%E7%9A%84%E9%9D%E-%E5%A4%A7%E8%8D%89%E5%8E%9F-image67663867>

線上去背

- <https://pixlr.com/editor/>





Q&A



謝謝大家

- <http://sheep0222.pixnet.net/blog/post/55814811-%5Bjavascript%5D%E5%8F%96%E5%BE%97%E6%8C%89%E4%B8%8B%E9%8D%B5%E7%9B%A4%E4%B A%8B%E4%BB%B6>

[javascript]取得按下鍵盤事件

分享:      讚 1

今天幫人家找取得按下鍵盤某鍵後的事件，

找了一下順便記錄起來，

本來只有用`event.which`，

後來還說IE沒作用，又再找了一下，

加了`event.keyCode`就好了，

IE跟Chrome都能用。

LocalStorage for Username

```
firstUserName = $("#userNameTextBox").val();  
if(!localStorage["firstUserName"]){  
    {  
        localStorage.setItem("firstUserName", firstUserName);  
        if(!localStorage["firstUserName"]){  
            localStorage.setItem("firstUserName", "Unknown");  
        }  
    }  
}  
  
document.getElementById("userNameTextBoxRestart").value = localStorage["firstUserName"];  
document.getElementById("userNameTextBoxRestart").onkeyup = doChange;  
  
if(!localStorage["firstUserName"]){  
    {  
        localStorage.setItem("firstUserName", "Unknown");  
    }  
}  
  
function doChange() {  
    localStorage.setItem("firstUserName", this.value);  
}
```