資傳3A A6254970 陳致元

<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>無標題文件</title>

</head>

<body>

<input id="f1" type="file">

<br>

<button onClick="gogo()">人臉</button>

<button onClick="gogogo()">美白</button>

<table>

<tr>

<td><img id="i1"><canvas id="c1" style="display:none"></canvas></td>

<td><img id="i2"><canvas id="c2" style="display:none"></canvas></td>

</tr>

</table>

<script>

var f1=document.getElementById("f1");

var c1=document.getElementById("c1");

var fileReader = new FileReader();

f1.addEventListener("change",readimg);

fileReader.addEventListener("load",loadimg);

function readimg()

{

fileReader.readAsDataURL(f1.files[0]);

}

function loadimg()

{

i1.src = fileReader.result;

c1.style.display="none";

i1.style.display="inline-block";

i2.src = fileReader.result;

c2.style.display="none";

i1.style.display="inline-block";

}

function gogogo(a,b)

{

c2.width=i1.width;

c2.height=i1.height;

var c2d=c2.getContext("2d");

c2d.drawImage(i1, 0, 0);

var imgData = c2d.getImageData(0, 0, c2.width, c2.height);

var 亮度滑桿值=parseInt(a);

var 對比滑桿值=parseInt(b);

var 對比滑桿值=對比滑桿值/100;

for(var i=0;i<imgData.data.length;i+=4)

{

imgData.data[i]=127.5+(imgData.data[i]-127.5)\*(1+對比滑桿值)+亮度滑桿值; //紅

imgData.data[i+1]=127.5+(imgData.data[i+1]-127.5)\*(1+對比滑桿值)+亮度滑桿值; //綠

imgData.data[i+2]=127.5+(imgData.data[i+2]-127.5)\*(1+對比滑桿值)+亮度滑桿值; //藍

}

c2d.putImageData(imgData, 0, 0);

c1.style.display="inline-block";

}

function gogo()

{

c1.width=i1.width;

c1.height=i1.height;

var c2d=c1.getContext("2d");

c2d.drawImage(i1, 0, 0);

var imgData = c2d.getImageData(0, 0, c1.width, c1.height);

for(var i=0;i<imgData.data.length;i+=4)

{ var Y=0.299\*imgData.data[i]+0.587\*imgData.data[i+1]+0.114\*imgData.data[i+2]

var Cb=-0.169\*imgData.data[i]-0.331\*imgData.data[i+1]+0.499\*imgData.data[i+2]+128

var Cr=0.499\*imgData.data[i]-0.418\*imgData.data[i+1]-0.0813\*imgData.data[i+2]+128

if(Cb>150){

imgData.data[i]=255 //紅

imgData.data[i+1]=255 //綠

imgData.data[i+2]=255 //藍

}

else

{

imgData.data[i]=0//紅

imgData.data[i+1]=0 //綠

imgData.data[i+2]=0

}

if(Cr>150){

imgData.data[i]=255 //紅

imgData.data[i+1]=255 //綠

imgData.data[i+2]=255 //藍

}

else

{

imgData.data[i]=0//紅

imgData.data[i+1]=0 //綠

imgData.data[i+2]=0

}

}

c2d.putImageData(imgData, 0, 0);

c1.style.display="inline-block";

}

</script>

</body>

</html>