let capture;

let width = 640 ;

let height = 480 ;

let Bweather;

let rSlider, gSlider, bSlider;

function setup() {

createCanvas(width, height);

capture = createCapture(VIDEO);

capture.size(520, 440);

capture.hide();

}

function draw() {

background(200);

translate(width,0); // move to far corner

scale(-1.0,1.0); // flip x-axis backwards

image(capture, 0, 0, width, height);

translate(width,0); // move to far corner

scale(-1.0,1.0); // flip back to normal

button = createImg('https://i.imgur.com/OPVPKh7.png');

button.position(10,135);

button.mousePressed(temperature);

button = createImg('https://i.imgur.com/xeCsL98.png');

button.position(10,200);

//button.mousePressed(music);

button = createImg('https://i.imgur.com/7qshlSV.png');

button.position(10,275);

// button.mousePressed(moods);

button = createImg('https://i.imgur.com/j71bxyg.png');

button.position(560,275);

button.mousePressed(settings);

button = createImg('https://i.imgur.com/Eh84pkY.png');

button.position(560,325);

button.mousePressed(widgets);

button = createImg('https://i.imgur.com/wBEYhak.png');

button.position(560,375);

button.mousePressed(youtube);

button = createImg('https://i.imgur.com/DM0TD8c.png');

button.position(560,400);

button.mousePressed(facebook);

mn=minute();

hr=hour();

sc=second();

d=day();

m=month();

y=year();

fill(255);

textSize(28);

text( m+'/'+d+'/'+y,225,80);

fill(255);

textSize(28);

text( hr+':'+mn+':'+sc,250,50);

}

function temperature(){

loadJSON('https://api.openweathermap.org/data/2.5/forecast?q=Lubbock,us&APPID=89865a36aac515e4d383e822e4662c5b&units=metric',getweather);

if(Bweather){

for (let i=0; i<Bweather.list.length;i++){

fill(255);

text(new Date(Bweather.list[i].dt\_txt).format('hh:mmtt'),0,30\*i+20);

text(Bweather.list[i].main.temp,60,30\*i+20);

image(img0[i],90,30\*i-10);

}

}

function getweather(data0) {

Bweather = data0;

console.log(Bweather);

img0 = Bweather.list.map(w=>loadImage('https://openweathermap.org/img/wn/'+w.weather[0].icon+'.png'));

}

// format time from http://jsfiddle.net/BNkkB/1/

Date.prototype.format = function (format, utc){

return formatDate(this, format, utc);

};

function formatDate(date, format, utc){

var MMMM = ["\x00", "January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"];

var MMM = ["\x01", "Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"];

var dddd = ["\x02", "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"];

var ddd = ["\x03", "Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"];

function ii(i, len) { var s = i + ""; len = len || 2; while (s.length<len) s = "0" + s; return s; }

var y = utc ? date.getUTCFullYear() : date.getFullYear();

format = format.replace(/(^|[^\\])yyyy+/g, "$1" + y);

format = format.replace(/(^|[^\\])yy/g, "$1" + y.toString().substr(2, 2));

format = format.replace(/(^|[^\\])y/g, "$1" + y);

var M = (utc ? date.getUTCMonth() : date.getMonth()) + 1;

format = format.replace(/(^|[^\\])MMMM+/g, "$1" + MMMM[0]);

format = format.replace(/(^|[^\\])MMM/g, "$1" + MMM[0]);

format = format.replace(/(^|[^\\])MM/g, "$1" + ii(M));

format = format.replace(/(^|[^\\])M/g, "$1" + M);

var d = utc ? date.getUTCDate() : date.getDate();

format = format.replace(/(^|[^\\])dddd+/g, "$1" + dddd[0]);

format = format.replace(/(^|[^\\])ddd/g, "$1" + ddd[0]);

format = format.replace(/(^|[^\\])dd/g, "$1" + ii(d));

format = format.replace(/(^|[^\\])d/g, "$1" + d);

var H = utc ? date.getUTCHours() : date.getHours();

format = format.replace(/(^|[^\\])HH+/g, "$1" + ii(H));

format = format.replace(/(^|[^\\])H/g, "$1" + H);

var h = H > 12 ? H - 12 : H == 0 ? 12 : H;

format = format.replace(/(^|[^\\])hh+/g, "$1" + ii(h));

format = format.replace(/(^|[^\\])h/g, "$1" + h);

var m = utc ? date.getUTCMinutes() : date.getMinutes();

format = format.replace(/(^|[^\\])mm+/g, "$1" + ii(m));

format = format.replace(/(^|[^\\])m/g, "$1" + m);

var s = utc ? date.getUTCSeconds() : date.getSeconds();

format = format.replace(/(^|[^\\])ss+/g, "$1" + ii(s));

format = format.replace(/(^|[^\\])s/g, "$1" + s);

var f = utc ? date.getUTCMilliseconds() : date.getMilliseconds();

format = format.replace(/(^|[^\\])fff+/g, "$1" + ii(f, 3));

f = Math.round(f / 10);

format = format.replace(/(^|[^\\])ff/g, "$1" + ii(f));

f = Math.round(f / 10);

format = format.replace(/(^|[^\\])f/g, "$1" + f);

var T = H < 12 ? "AM" : "PM";

format = format.replace(/(^|[^\\])TT+/g, "$1" + T);

format = format.replace(/(^|[^\\])T/g, "$1" + T.charAt(0));

var t = T.toLowerCase();

format = format.replace(/(^|[^\\])tt+/g, "$1" + t);

format = format.replace(/(^|[^\\])t/g, "$1" + t.charAt(0));

var tz = -date.getTimezoneOffset();

var K = utc || !tz ? "Z" : tz> 0 ? "+" : "-";

if (!utc)

{

tz = Math.abs(tz);

var tzHrs = Math.floor(tz / 60);

var tzMin = tz % 60;

K += ii(tzHrs) + ":" + ii(tzMin);

}

format = format.replace(/(^|[^\\])K/g, "$1" + K);

var day = (utc ? date.getUTCDay() : date.getDay()) + 1;

format = format.replace(new RegExp(dddd[0], "g"), dddd[day]);

format = format.replace(new RegExp(ddd[0], "g"), ddd[day]);

format = format.replace(new RegExp(MMMM[0], "g"), MMMM[M]);

format = format.replace(new RegExp(MMM[0], "g"), MMM[M]);

format = format.replace(/\\(.)/g, "$1");

return format;

}

}

function settings() {

console.log("Settings coming soon")

/\* button = createImg('https://i.imgur.com/11Ezh1S.jpg');

button.position(120,75);

button.mousePressed(settings);\*/

//Settings Slider

rSlider = createSlider(0, 255, 0);

rSlider.position(300, 20);

gSlider = createSlider(0, 255, 0);

gSlider.position(300, 50);

bSlider = createSlider(0, 255, 0);

bSlider.position(300, 80);

const r = rSlider.value();

const g = gSlider.value();

const b = bSlider.value();

background(r, g, b);

text('red', rSlider.x \* 2 + rSlider.width, 35);

text('green', gSlider.x \* 2 + gSlider.width, 65);

text('blue', bSlider.x \* 2 + bSlider.width, 95);

}

function widgets() {

console.log("Widgets coming soon")

}

function facebook() {

console.log("Facebook coming soon")

}

function youtube() {

console.log("Youtube coming soon")

}