

# What is your major addiction?

1. Smoke

2. Tobacco

3. Alcohol

4. None



17:40:54

Smoking shortened your life by 25 years on average.

But Hey! You should be know that you are not the only one. There are 1 billion people smoes everyday around the world and you guys are shortening your life by 25 years average.

## A death clock

Generative art and code.

A death clock crafted with p5.js processing library with HTML5 canvas element. The project is based on manipulation of p5.js library and canvas element of html that allows more robust control over generating art with code.

On the other hand, use of canvas element means user is only able to interact. user can not copy any text from the screen unless user is familiar with use of JavaScript.

## Tasks

- Create an interactive clock.

## Features

- use of HTML5 canvas.
- based on p5.js JavaScript processing library.
- web based.

## Development Technologies



## Setup the canvas.

```
function setup() {
  background(backgroundColor);
  var cnv = createCanvas(800, 800);
  cnv.parent("#canvas-container");

  // Clock Setup
  angleMode(DEGREES);

  cx = width / 2;
  cy = height / 2;

  var radius = min(width, height) / 2;
  secondsRadius = radius * 0.71;

  // Button Structure
  let hwidth = 800;
  buttons[0] = new Mybutton(100, 90, 120, 50, 10, "1. Smoke");
  buttons[1] = new Mybutton(300, 90, 120, 50, 50, "2. Tobacco");
  buttons[2] = new Mybutton(470, 90, 120, 50, 150, "3. Alcohol");
  buttons[3] = new Mybutton(640, 90, 120, 50, 225, "4. None");

}
```

## Draw on canvas.

```
function draw() {
    background(backgroundColor);

    // Main Question Text

    push();
    textSize(32);
    textAlign(CENTER);
    fill(122, 201, 67);
    translate(400, 0);
    textFont(dFont);
    text('What is your major addiction?', 0, 50);
    pop();

    // Display Buttons
    buttons.forEach(function(element) {
        fill("#3FA9F5");
        element.display();
    })

    // Clock
    clockHands();
    clockBody();
}
```

```
    // Answers
    fill(255, 255, 255);
    textSize(24);
    textAlign(CENTER);
    textFont(dFont);
    text(txtDisplay[txtChoice], -300, 600,
    600, 100);

    // Sympathy Text
    push();
    // translate(400, 00);
    // textAlign(CENTER);
    fill(255, 255, 0);
    textSize(14);
    text("But Hey! You should know that you
    are not the only one. There are 1 billion
    people smokes everyday around the world and
    you guys are shortening your life by 25 years
    average.", -300, 700, 600, 200);
    pop();
}
```

## Clock body

```
// Clock Body
function clockBody() {
  var fontSize = 0.7;
  var numDistance = 360 / 12;
  let charCounter = 49;
  for (i = 0; i < 12; i++) {

    push();
    translate(00, 350);
    rotate(numDistance * i);
    // textFont("Arial");
    textStyle(BOLD);
    textAlign(CENTER);
    fill(220);
    textSize(24 * fontSize);
    rotate(210);
    var nums = i;
    console.log("numbers are = " + nums);
    // rotate();
    var numb = text(i + 1, 0, 120);
    numb.

    pop();
  }
};
```

## Clock hands

```
function clockHands() {
  let hr = hour();
  let min = minute();
  let sec = second();
  let endSec = map(sec, 0, 60, 0, 360);
  let endMin = map(min, 0, 60, 0, 360);
  let endhr = map(hr % 12, 0, 12, 0, 360);
  // background('#222');
  push();
  translate(400, 350);
  rotate(-90);

  strokeWeight(8);
  push();
  translate(-150, -150);
  stroke("#fff");
  noFill();
  if (sec > 30) {

    // rect(0, 0, 300, 300, 150 / (sec % 30));
    // console.log(150 / (sec % 30));
    // 31 = 150, 32 = 145, 33 = 140, 34, 35...60 = 0

    let newSec = map(sec, 31, 60, 150, 0);
    console.log(newSec);
    rect(0, 0, 300, 300, newSec);

  } else {
    rect(0, 0, 300, 300, sec * 5);
    console.log(sec * 5);
  }
  pop();
}
```



## Movement of clock hands

```
push();
rotate(endSec);
stroke("#7AC943");
line(0, 0, 80, 0);
pop();

stroke(200, 100, 150, 255);

push();
rotate(endMin);
stroke("#3FA9F5");
line(0, 0, 60, 0);
pop();

stroke(100, 200, 150, 255);

push();
rotate(endhr);
stroke("#FF7A00");
line(0, 0, 40, 0);
fill(100, 200, 150, 255);
pop();
```

Deep understanding with a in-action demo.

Click on image or the link below.

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<http://liquidcharcoal.com/aau/wnm699/addictionclock/>