# Technology topics 09

So that I can enjoy my app development😃 (05/13/2022)

I was listening to [the latest episode](#) of Stacktrace in the Podcasts before. In this episode, they were talking about one of important things for app development, that is it's better to take not only efficient way of it, but also adding fun elements (such as animation) in it more. It was a very interesting topic. Thank you very much.😊 There is the example of Guilherme Rambo's [tweet](#). The following image is from his tweet:
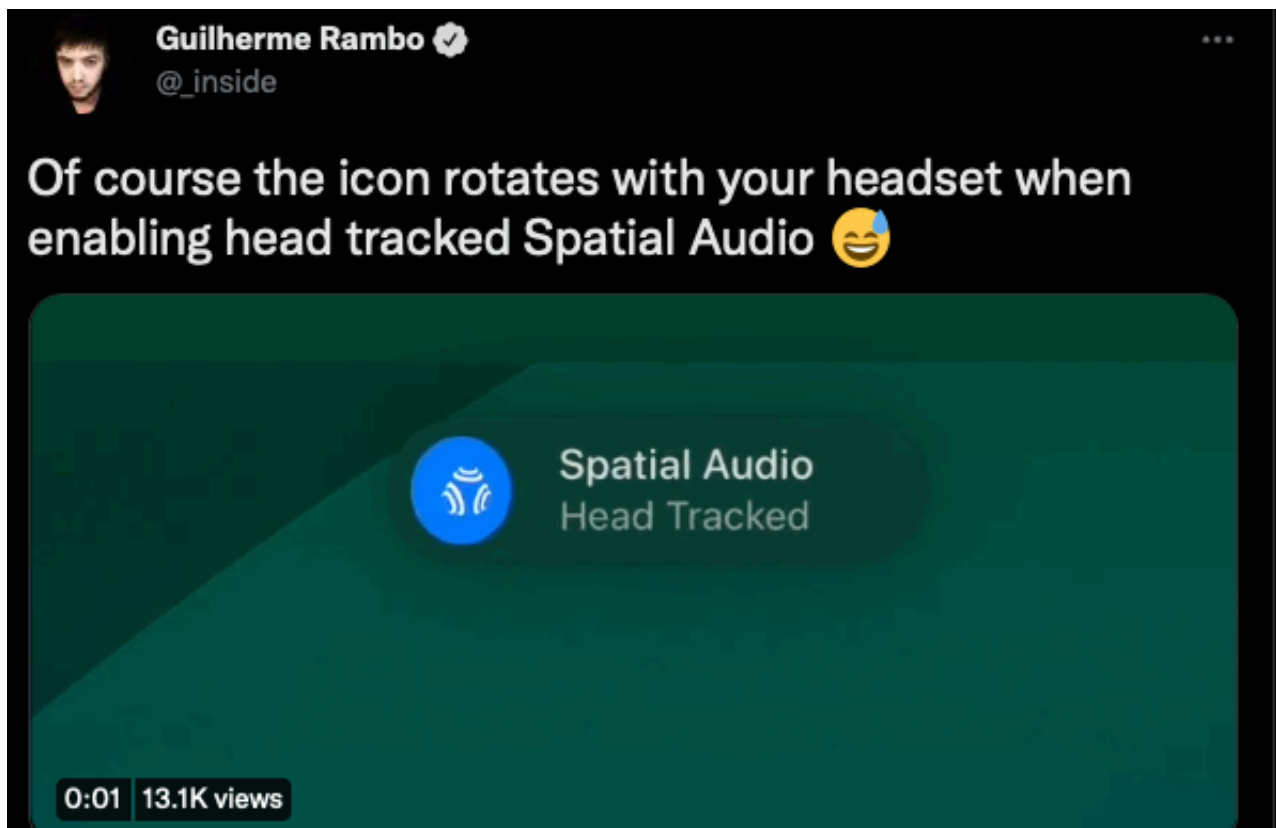
Also, in bayazuma's [tweet](#), there was the interesting animation asking for permission for web push notifications.😳 If you move the cursor close to the "Yes" button with the mouse, Mr. bear will be happy.😊 On the other hand, if you hover the cursor closer to the "No" button, he will get depressed and leave.😅 The following image is from his tweet:
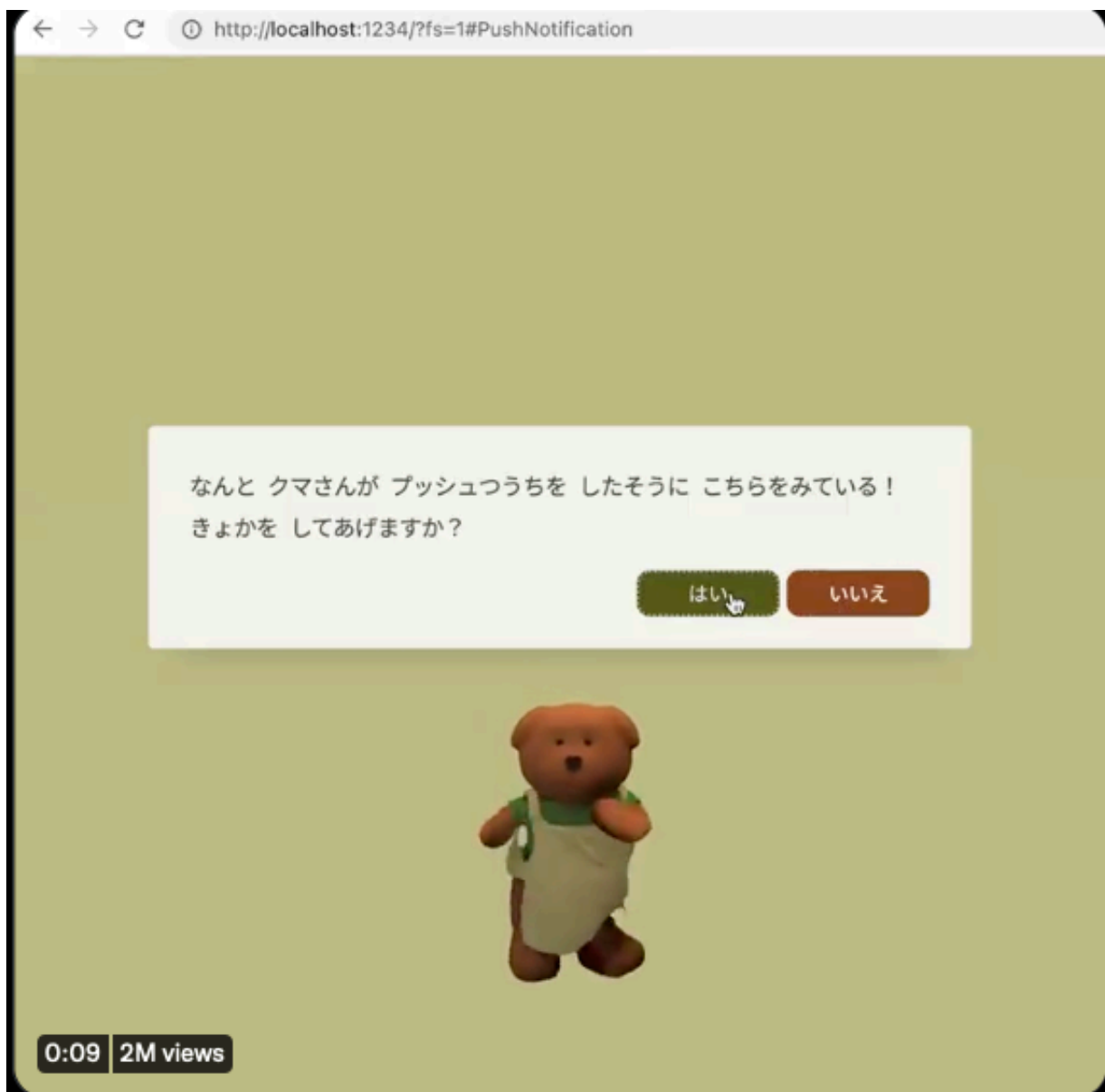
I was also making simple animations in my app. It was certainly fun when I was making it.😃 I was actually concerned about its CPU usage.😅 As an example, I took the

[video](#) of one of game scenes on my Japanese educational game app called Neumann Project.😃 I also wanted to make the game scene look like 3D, so I used the method [rotation3DEffect](#) to cards a lot.😅 I'll add it to app development little by little in the future. The following image is the part of one game scene of my app:
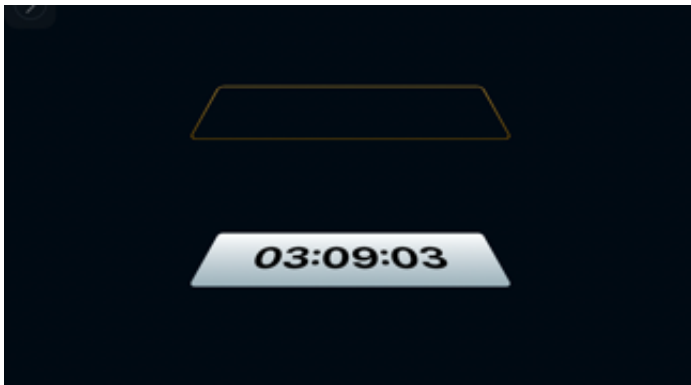
Also, I remembered that Bergensten was happily developing the Minecraft on the topic of ["Bergensten's passion for Minecraft💪(02/16/2022)"](#).😃

And Koma Tebe's [tweets](#) have been also showing his works like 3D. He has been tweeting his programs itself in a programming language called Processing.👏His tweets have a variety of works and are fun, and they are very helpful.😃He is also introduced in his previous tweet, but on the website [editor.p5js.org](#), you can replace your favorite his works (a program) with the program on this site and reproduce it by running it. It's fun.😊 I'm making the example in [the video](#).😃 As a reference, I'm trying to change the values of his program

and see what happens.


```
1   function draw()
    {for(z||createCanvas(w=400,w,WEBGL
    ),background(W=200),circle(0,0,X),
    rotateX(.5),i=9*-
    w;i<w;i+=W)push(x=-
    x),noFill(translate(x,90,i+z%w)),c
    one(50,-
    W,5,5),line(30,X,-30,X),C(20),pop(C
    (-20));z++}z=0,x=X=-80,C=a=>curve(x
    ,-w,0,a,X,0,a-2*x,X,W,x,-w,w)
```
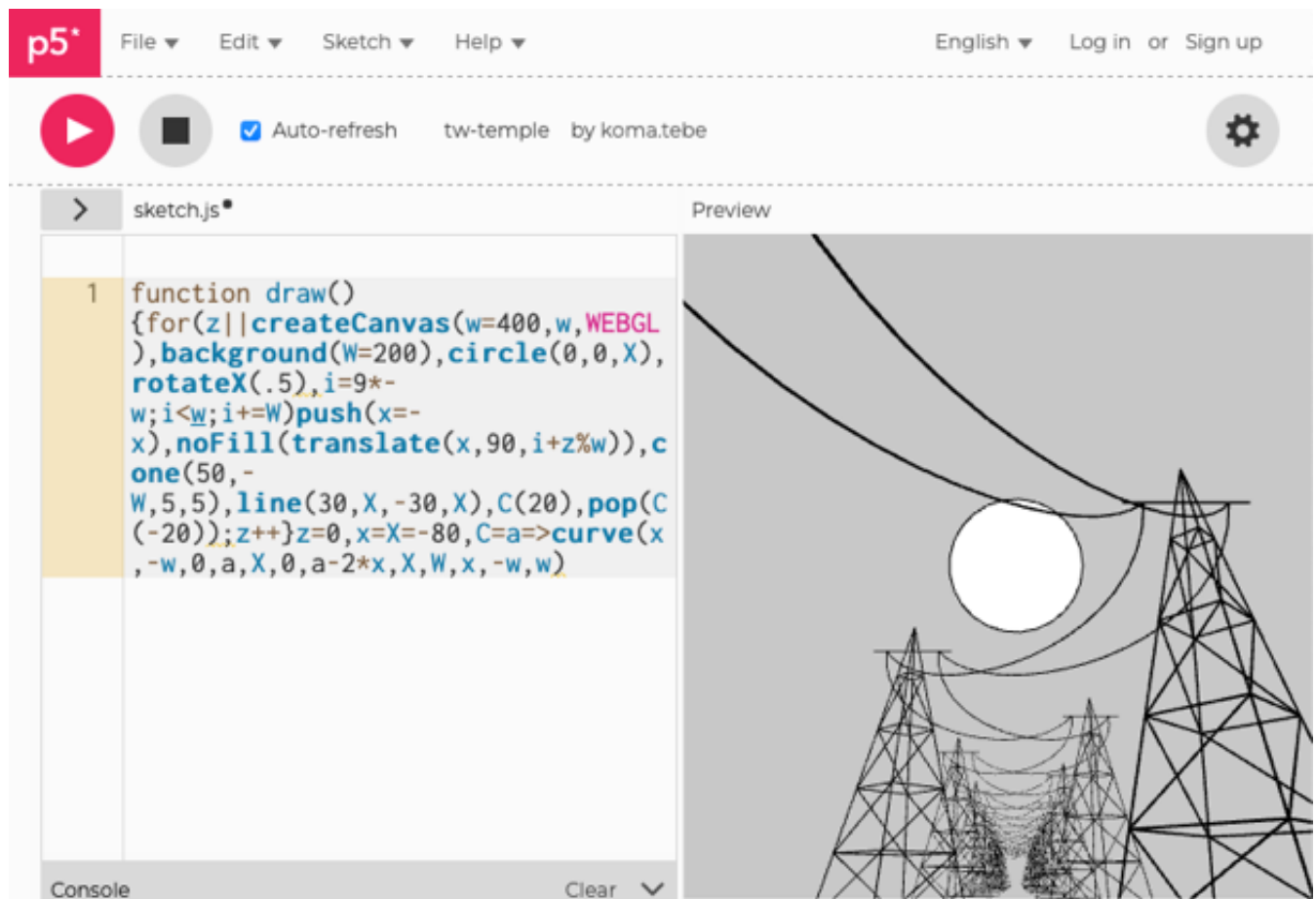
Image 1: This is his program.


```
1   function draw()
    {for(z||createCanvas(w=400,w,WEBGL
    ),background(W=200),circle(0,0,X),
    rotateX(.5),i=9*-
    w;i<w;i+=W)push(x=-
    x),noFill(translate(x,90,i+z%w)),c
    one(80,-
    W,5,5),line(30,X,-30,X),C(20),pop(C
    (-20));z++}z=0,x=X=-80,C=a=>curve(x
    ,-w,0,a,X,0,a-2*x,X,W,x,-w,w)
```
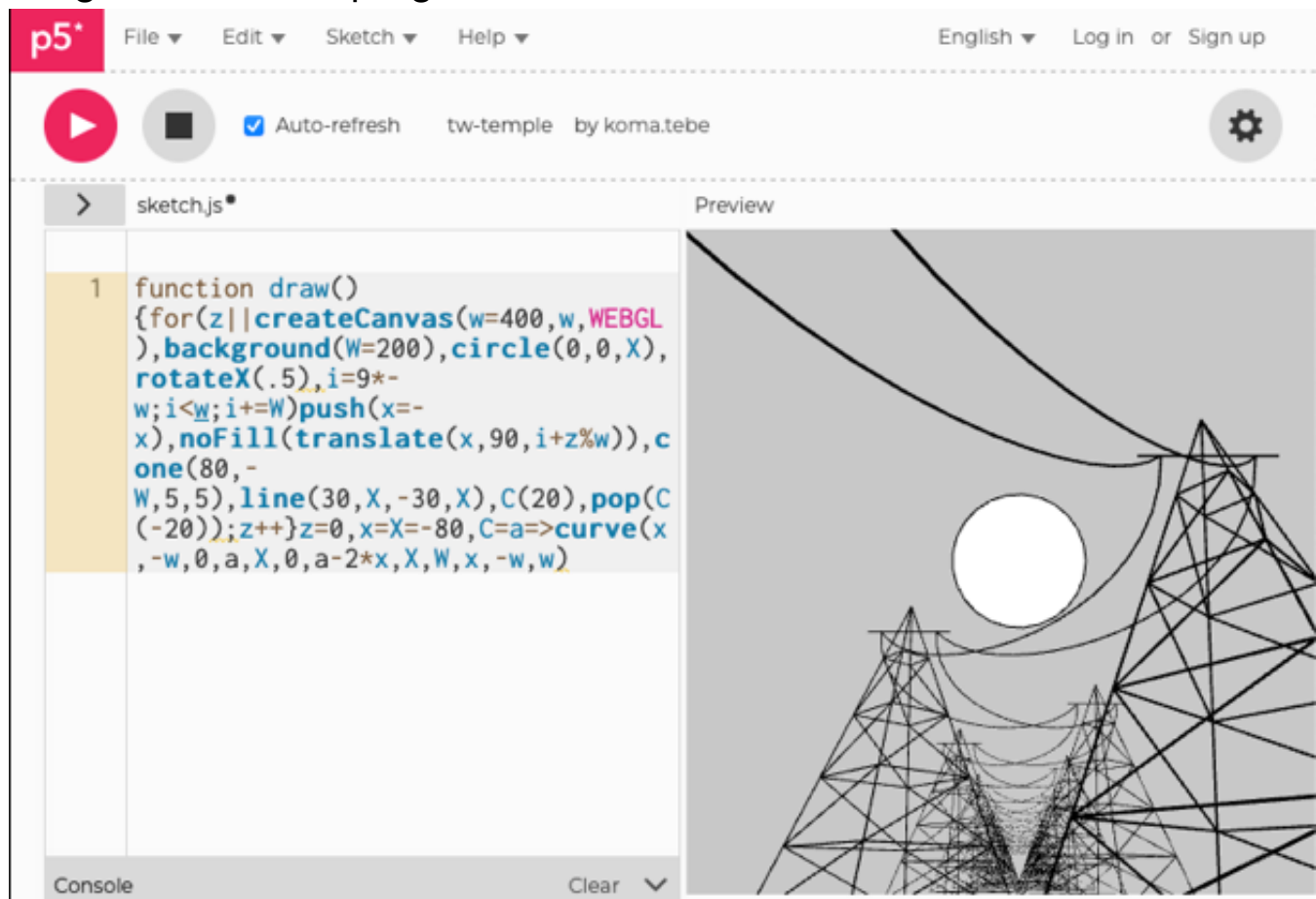
Image 2: If you change the cone (50, -W, 5, 5) in his program to cone(80, -W, 5, 5).


```
p5*    File ▼    Edit ▼    Sketch ▼    Help ▼                    English ▼    Log in  or  Sign up

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  >      sketch.js•                                      Preview

  1    function draw()
       {for(z||createCanvas(w=400,w,WEBGL
       ),background(W=200),circle(0,0,X),
       rotateX(.5),i=9*-
       w;i<w;i+=W)push(x=-
       x),noFill(translate(x,90,i+z%w)),c
       one(50,-
       W,5,5),line(30,X,-30,X),C(60),pop(C
       (-20));z++}z=0,x=X=-80,C=a=>curve(x
       ,-w,0,a,X,0,a-2*x,X,W,x,-w,w)

  Console                                    Clear  ∨
```
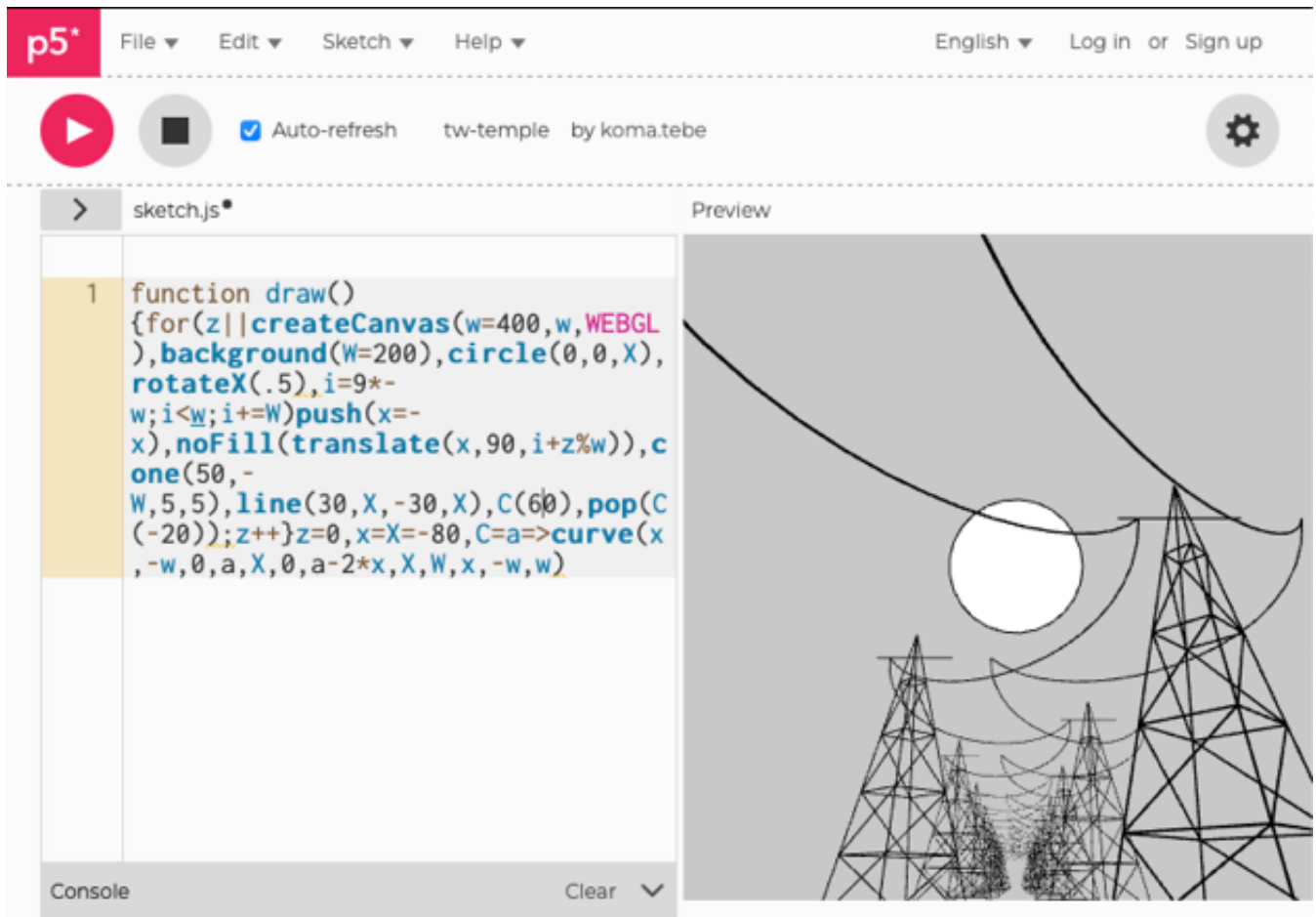
Image 3: If you change C(20) in his program to C (60).

Keywords: App Development, Animation, CPU Usage, Web Push Notification, Processing