Project title:	ect title: Music Visualizer	
Topic:	Understanding how to draw 3d objects in p5js.	
What progress have you made on this topic?		
	an optional argument to pass when creating a canvas that produces a 3d e. "WEBGL" in createCanvas function.	

What problems have you faced and were you able to solve them?

At first I tried to learn how to plot 3d objects on a 2d plane using math. I quickly found out that this was not as easy as I first thought. I was struggling to get a basic rotating cube at first and eventually gave up.

What are you planning to do over the next few weeks?

I plan to make some sort of 3d object that can move to the music.

Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?

Yes I am. I'm moving closer to my goal slowly.

Project title:	ject title: Music Visualizer	
Topic:	Drawing a sphere in p5js.	
What progress ha	ave you made on this topic?	
_	ilt-in function to make a sphere in p5js but it wasn't the kind of sphere I ally looked at some videos online about spheres and how to get certain	
What problems h	ave you faced and were you able to solve them?	
that good. It didn't look	le to use the built-in function to make my music visualizer but it wasn't a nice and it just wasn't what I wanted. I spent a lot of time studying math be how I could implement it into my code.	
What are you pla	nning to do over the next few weeks?	
I plan to use the sphere	I have made and make it "dance" to the music.	
•	t to successfully complete your project? If you aren't ill you address the issue?	
Yes. Slowly but surely.		

Project title:	Music Visualizer
Topic:	Making the sphere "dance"
What progress have you made on this topic?	

What progress have you made on this topic?

It took me a while but I finally got a working way to make the sphere "dance." I just had to create an offset from the musics amplitude and frequencies divided by some value and multiply that by my sphere coordinates giving the illusion of a "dance."

What problems have you faced and were you able to solve them?

It took me a while to understand how to offset the vertices of the sphere to make it look correct and good.

What are you planning to do over the next few weeks?

Add some customization to the sphere. Right now it is just some circles that make a sphere.

Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?

Yes. I've got the foundation and now I can add more to it.

Project title:	Music Visualizer		
Topic:	WEBGL Project Errors		
What progress have you made on this topic?			
When changing the can	vas type to "WEBGL" I ran into many problems.		
What problems h	ave you faced and were you able to solve them?		
provided one was outda a 3d space is not nice. I	ebgl. Turns out I needed to find the updated ps.DOM.js file because the ted. After updating the DOM file, I ran into more errors as rendering 2d in had to add canvases using the createGraphics function and had to change it to work in a WEBGL canvas.		
What are you plai	nning to do over the next few weeks?		
Add customization to th	ne sphere.		
Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?			
Yes, but I'm a little behi	ind now.		

Project title:	Music Visualizer	
Topic:	Customizing the sphere	
What progress have you made on this topic?		
I added sliders and text	for the rotation of the sphere. As well as a slider for the amplitude divisor.	
What problems h	ave you faced and were you able to solve them?	
1	d. I had a lot of problems when implementing the rotation sliders as they the sphere in 3d space. It took me a while to find a work around.	
What are you plai	nning to do over the next few weeks?	
Add a volume slider.		
-	to successfully complete your project? If you aren't ll you address the issue?	
Yes. Back on track.		

Project title:	Music Visualizer	
Topic:	Volume Slider and Different Music	
What progress ha	ave you made on this topic?	
I've made a volume slic the music file you want	ler as some of the music I chose was very loud. I added a screen to choose to play first.	
What problems h	ave you faced and were you able to solve them?	
load the file that was ret	sing the createFileInput and using it to select music. I wasn't sure how to turned. After that was the volume slider. Because I was using a WEBGL er to have the Text and Slider for the Volume to be overlaid over	
What are you plan	nning to do over the next few weeks?	
Add Microphone, fix sc	aling issues, and add new spheres.	
Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?		
Yes. Almost done.		

Project title:	Music Visualizer
Topic:	Microphone, Errors, and Spheres

What progress have you made on this topic?

I added a way to use your microphone as an input to the sound. I fixed some errors on the other visualizers that caused it to look weird. I also added some cool looking spheres to my visualization. The spheres were almost the same as the original but I changed their functions a little bit to give some cool looks. I also added a selector to choose the type sphere you want.

What problems have you faced and were you able to solve them?

The microphone was by far the most annoying. I first had to learn how to get microphone inputs. After that I had to somehow connect the input to the sound. And after that I added a button to switch between the 2(Music and Microphone), and was having many issues. Sometimes when the music wasn't played first the microphone would not work. There was a visual error happening on the "needles" visualization that caused it to stretch. The stretch was because of the view angle of the camera in 3d space while viewing a 2d canvas. The canvas was scaling with the resolution of the screen while the perspective of the camera was moving closer to the Origin (0,0,0). This was fixed by scaling the canvas by the ratio of the previous screen size by the new one. This work around works but causes the render to look stretched a bit. The only fix would be to not have a WEBGL canvas.

What are you planning to do over the next few weeks?

Adding some more customization.

Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?

Yes. Al	most	done.
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Project title:	Project title: Music Visualizer	
Topic:	More Customization	
What progress have you made on this topic?		
I added buttons for auto	rotation, auto zooming, and rainbow colors.	
What problems h	ave you faced and were you able to solve them?	
couldn't figure out why of RGB to have a rainbo	For some reason the colorMode was defaulting to the HSB mode. I but it wouldn't go away no matter what. Found a way to use hue instead ow effect and it fixed it. Rotation and zooming were a lot simpler but had ove" the camera towards the sphere. I ended up just scaling the sphere on.	
What are you plan	nning to do over the next few weeks?	
Submit the project		
•	to successfully complete your project? If you aren't ill you address the issue?	
Yes. I'm done.		