

# Live Lecture Chat Window

January 24, 2024

**13:10:57 OK then I've got something wrong with my [Project 3] lighting**

For everyone else, the correct way to do the P3 lighting is:

```
Normal = RotateNormal( angx, angy, Normal );
```

```
Normal = normalize( gl_NormalMatrix * Normal );
```

That is, after perturbing the normal vector, be sure to transform it and normalize it.

**13:32:37 So the second sphere is to show the difference in sampling in s and t vs sampling in x y z?**

That's correct. Good way to say it.

**13:36:29 This is the video for the avatar attraction in Disneyworld. Spoiler Alert if you don't want to see it before hand:**

<https://www.youtube.com/watch?app=desktop&v=WEd5UonWJQ8>

OMG, what an amazing use of dome projection! Thanks, Franchesca!

Disney California Adventure has Soarin' Over California: <https://disneyland.disney.go.com/attractions/disney-california-adventure/soarin-over-california/>

Seattle has Wings Over Washington: <https://www.wingsoverwa.com/>

One of these just opened up in New York City, RiseNY: <https://www.riseny.co/tickets>