VIT AP UNIVERSITY, ANDHRA PRADESH
Lab Sheet 10 : Compositing

Academic year: 2020-2021   **Branch/ Class:** B.Tech/M.Tech
Semester: Fall   **Date:**
Faculty Name: Prof.Nilesh chandra   **School:** SCOPE
Student name: Valiveti manikanta bhuvanesh   **Reg. no.:** 19BCD7088

1. Write a programme in openGL/p5.js/other to illustrate different lights available in computer graphics.

   https://p5js.org/reference/#/p5/lights

   https://p5js.org/reference/#/p5/ambientLight

   https://p5js.org/reference/#/p5/directionalLight

   https://p5js.org/reference/#/p5/pointLight

```
let t=0;
function setup() {
 createCanvas(300, 300,WEBGL);
}


function draw() {
 background(255);
 lights();
 rotateY(t * 0.3);
 rotateX(t * 0.3);
 box(100);
 t=t+0.05;
}
```
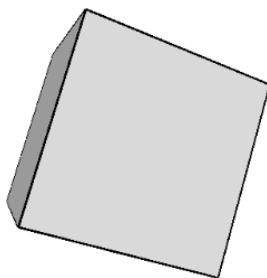
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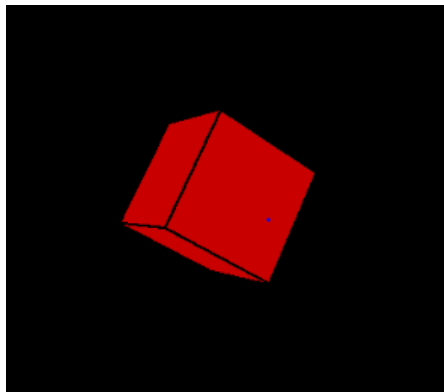
```
let t=0;

function setup() {

  createCanvas(300, 300,WEBGL);

}


function draw() {

  background(0);

  ambientLight(200);

  ambientMaterial(255,0,0);

  rotateY(t * 0.3);

  rotateX(t * 0.3);

  box();

  t=t+0.05;

}
```

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```
function setup() {
  createCanvas(100, 100,WEBGL);
}
function draw() {
  background(255);
  let dirX = (mouseX / width - 0.5) * 2;
  let dirY = (mouseY / height - 0.5) * 2;
  directionalLight(0, 0, 255,-dirX, -dirY, -1);
  box(40);
}
```



```
let t=0;
function setup() {
  createCanvas(100, 100,WEBGL);
}

function draw() {
  background(255);
  rotateY(t * 0.3);
  rotateX(t * 0.3);
  let dirX = mouseX - width / 2;
  let dirY = mouseY - height / 2;
```

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```
pointLight(255, 0, 0, dirX, dirY, 60);

box(40);

t=t+0.05;

}
```