

Earth_and_Moon_Example

//Earth and Moon Image Example

//images obtained from <http://clipart-library.com/>

//are allowed for "personal use"

//Mr. H.

PImage Earth, Moon, Space;

int r = 300;

int degree = 0;

float x;

float y;

void **setup()** {

size(800, 600);

Earth = loadImage("Earth-Free-Download.png");

Earth.resize(240,240);

Moon = loadImage("Moon-Free-Download.png");

Moon.resize(80,80);

Space = loadImage("Space-Free-Download.png");

Space.resize(800,600);

}

void **draw()** {

image(Space,0,0);

image(Earth,250,200);

//use sin() & cos() to create "circular" motion effect

x = 300+cos(radians(degree-90))*r;

y = 300-sin(radians(degree-90))*r*0.2;

image(Moon,x+50,y);

degree = degree + 1;

if (degree >= 360)

{

 degree = degree -360;

}

//place Earth on top of Moon when it appears further away

if(degree >= 90 && degree <= 270){

 image(Earth,250,200);

}

 delay(20);

}