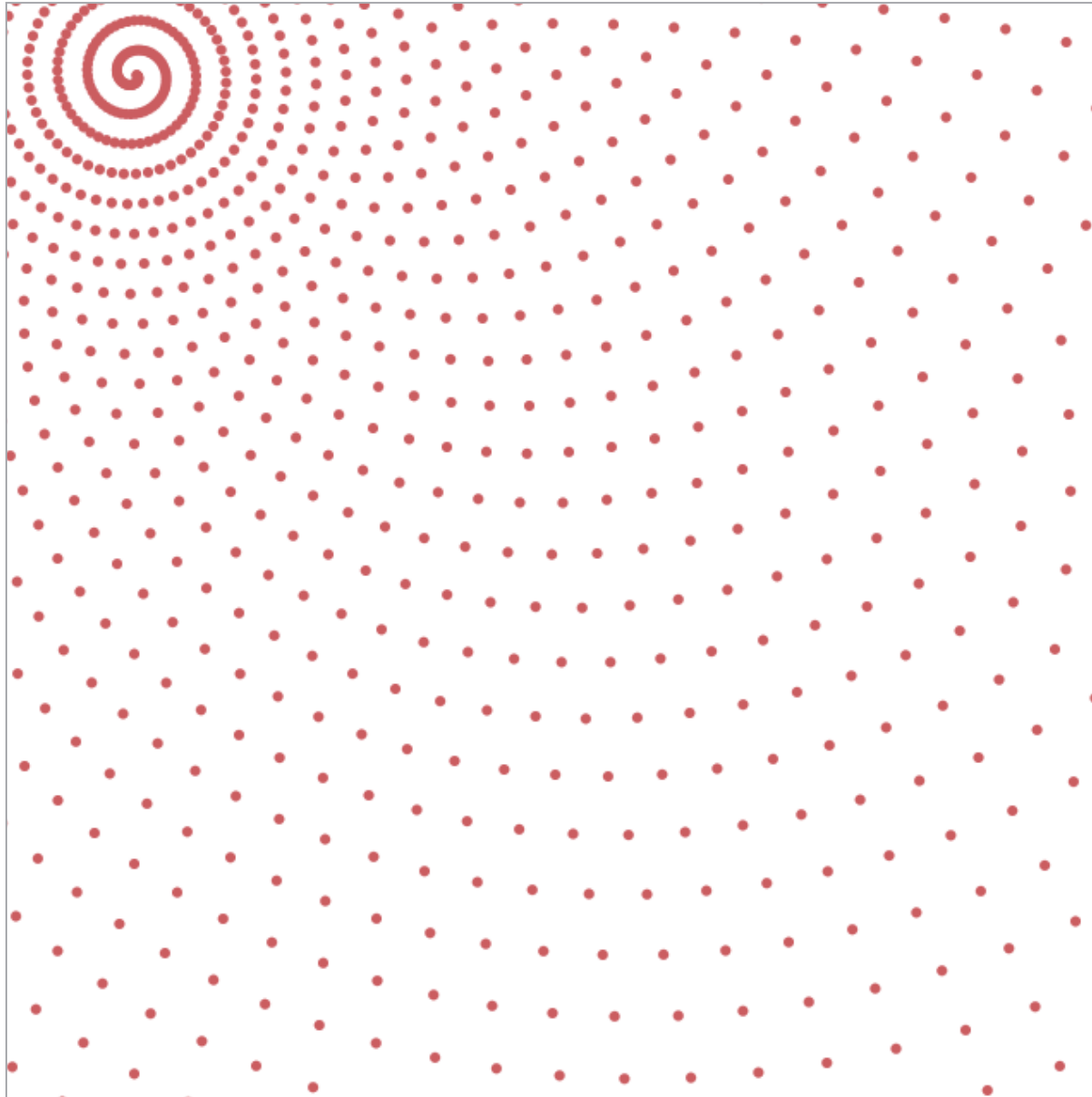


```
size(640,640);
background(255,255,255);
noStroke();
smooth();
float radius = 8;
for (int deg = 0; deg <
360*100; deg += 15) {
float angle = radians(deg);
float x = 75 + (cos(angle) *
radius);
float y = 42 + (sin(angle) *
radius);
ellipse(x, y, 6, 6);
radius = radius + 0.8;
fill(0,90,90);
saveFrame();
}
```

說明:以右上角為中心點向外擴
散的直線·直線是由原點所構
成

主題：擴散-直線擴散
參考程式碼：MIT.Processing p.125
姓名：馬佳琳
學號：4A41C002
班級：產設一乙 (A)



```
size(640,640);  
background(255,255,255);  
noStroke();  
smooth();  
float radius = 1.0;  
for (int deg = 0; deg <  
360*100; deg += 7) {  
float angle = radians(deg);  
float x = 75 + (cos(angle) *  
radius);  
float y = 42 + (sin(angle) *  
radius);  
ellipse(x, y, 6, 6);  
radius = radius + 0.34;  
fill(215,90,90);  
saveFrame();  
}
```

說明:以右上角為中心點向外擴
散的放射狀圓點

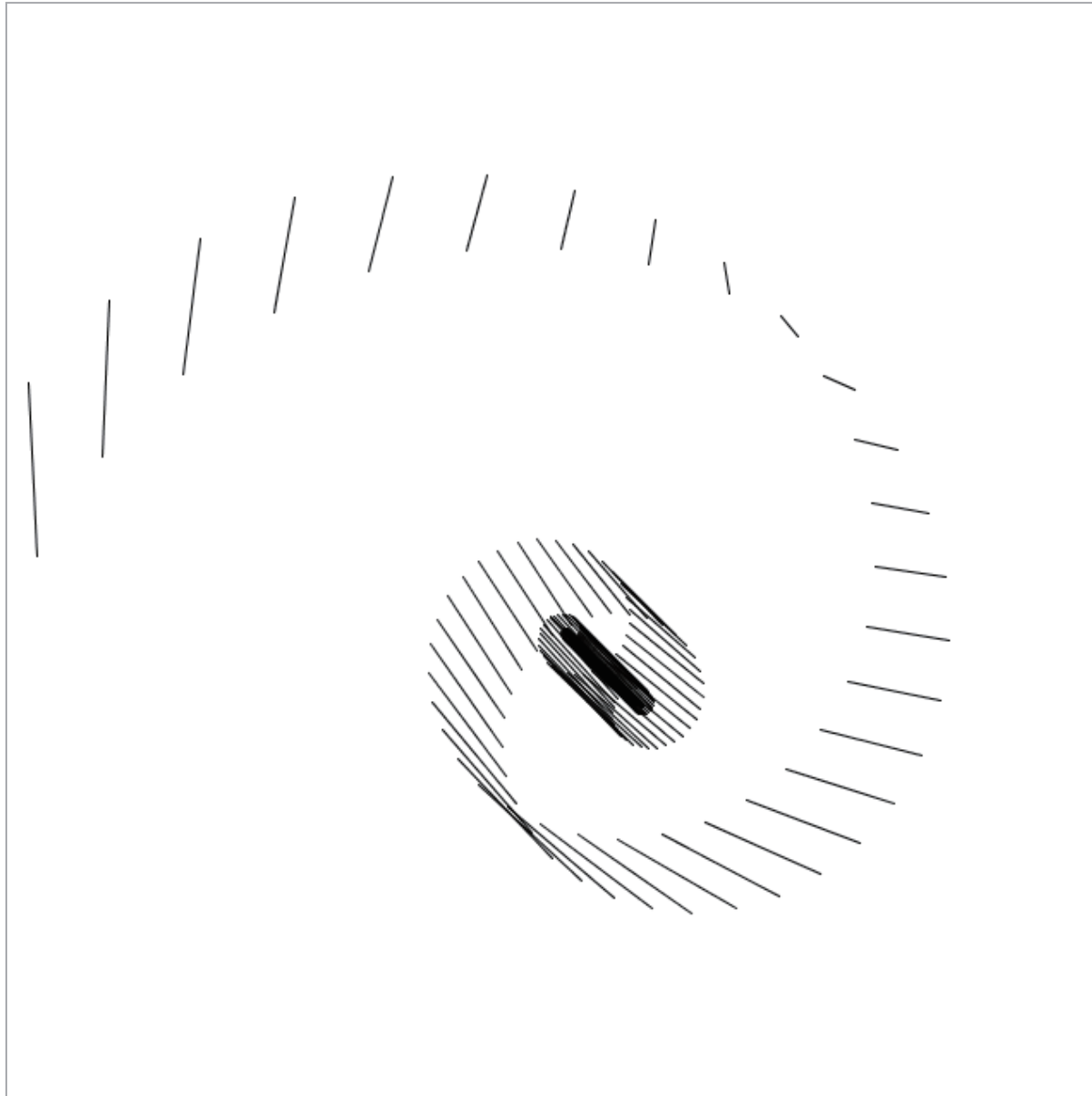
主題：擴散-放射擴散
參考程式碼：MIT.Processing p.125
姓名：馬佳琳
學號：4A41C002
班級：產設一乙 (A)



```
size(640,640);  
background(234,60,50);  
smooth();  
noStroke();  
fill(255, 60);  
translate(5, 15); // Set initial  
offset  
for (int i = 0; i < 20改; i++) { // 12  
repetitions  
scale(1.2); // Accumulate the  
scaling  
ellipse(3, 4, 18, 18);  
saveFrame(); }
```

說明:以右上角為中心點向外擴散的
環狀圓·顏色做了漸層的變化

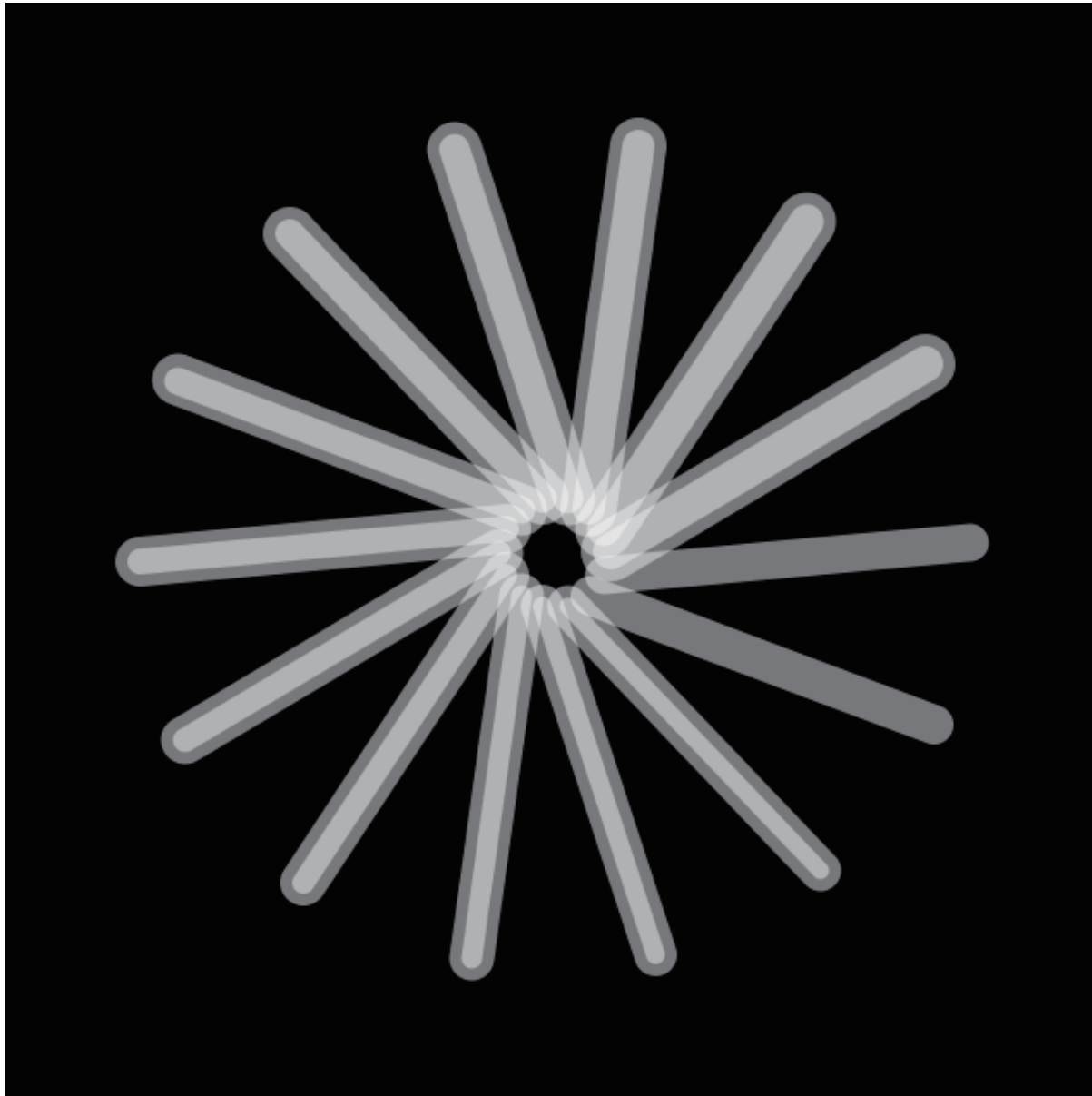
主題：擴散-環狀擴散
參考程式碼：MIT.Processing p.169
姓名：馬佳琳
學號：4A41C002
班級：產設一乙 (A)



```
size(640,640);
smooth();
background(255,255,255);
float radius = 0.99;
float cx = 320; // Center x- and
float cy = 360; // y-coordinates
float px = cx; // Start with center
as the
float py = cy; // previous
coordinate
for (int deg = 5; deg < 360*10;
deg += 11) {
float angle = radians(deg);
float x = cx + (sin(angle) *
radius+10);
float y = cy + (cos(angle) *
radius+10);
line(px-3, py-3, x+40, y+40);
radius = radius * 1.05;
px = x;
py = y;
saveFrame();}
```

說明:以中央為中心點向外擴散的環狀圖，線條間距和長度的改變

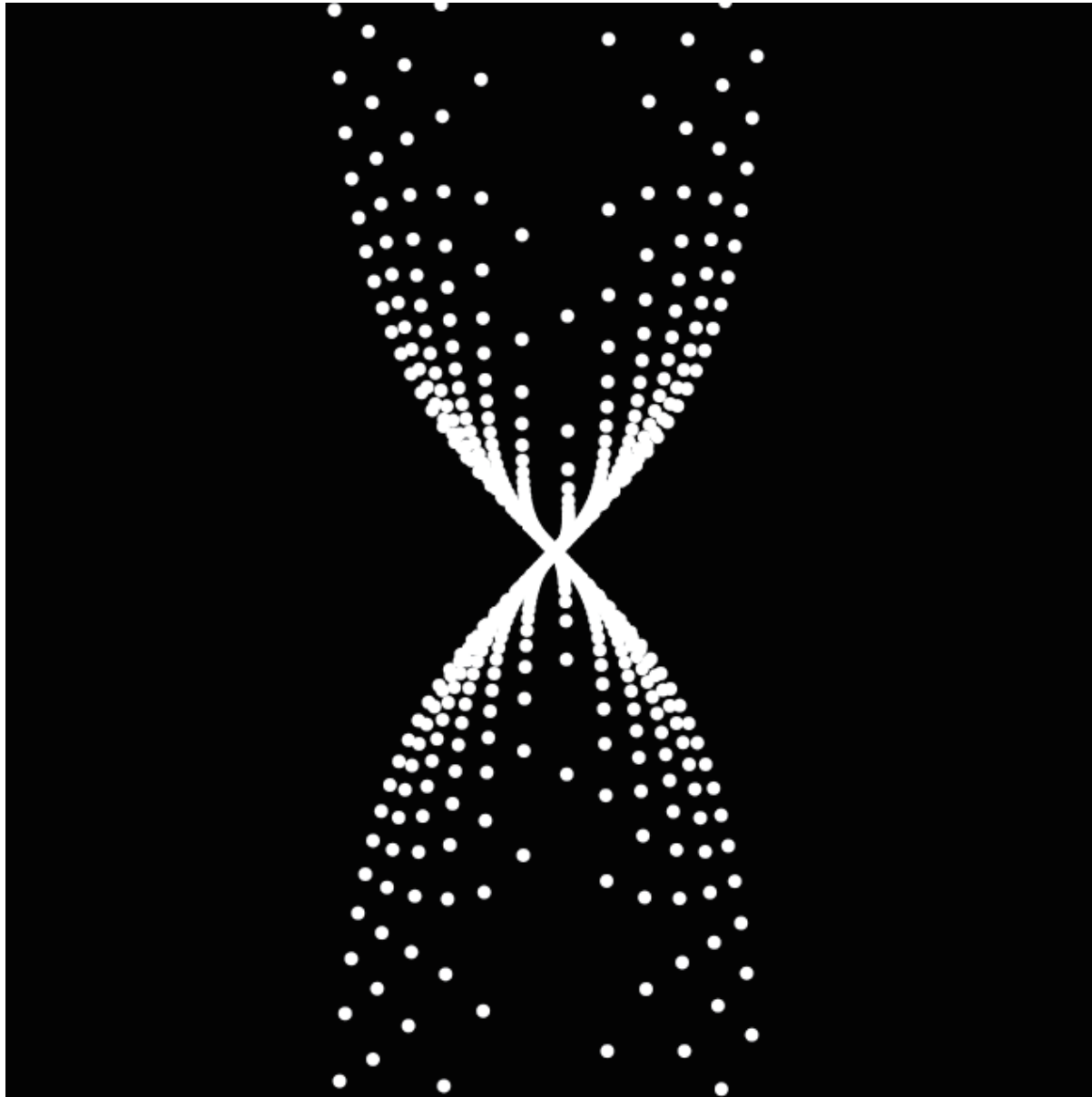
主題：擴散-螺旋擴散
參考程式碼：MIT.Processing p.152
姓名：馬佳琳
學號：4A41C002
班級：產設一乙 (A)



```
size(640,640);  
fill(8,12,12);  
background(0);  
smooth();  
stroke(255, 120);  
translate(320, 320); // Set initial  
offset  
for (int i = 8; i < 20+i/2.5; i++){ //  
18 repetitions  
strokeWeight(i+2); // Increase  
stroke weight  
rotate(PI/7); // Accumulate the  
rotation  
line(20, 25, 220, 100);  
saveFrame(); }
```

說明:以中央為中心點向外擴散的環狀
圖·線條改變了粗細·顏色上也有漸
層變化

主題：擴散-粗細
參考程式碼：MIT.Processing p.168
姓名：馬佳琳
學號：4A41C002
班級：產設一乙 (A)



```
size(640,640);  
background(0,0,0);  
noStroke();  
smooth();  
float radius = 1.0;  
for (int deg = 0; deg <  
360*6; deg += 3) {  
float angle = radians(deg);  
float x = 320 + (sin(angle) *  
radius);  
float y = 320 + (tan(angle) *  
radius);  
ellipse(x, y, 8, 8);  
radius = radius + 0.2;  
}
```

說明:以中央為中心點向外擴散
的對稱圖形

主題：擴散-對稱擴散
參考程式碼：MIT.Processing p.152
姓名：馬佳琳
學號：4A41C002
班級：產設一乙 (A)