Fractal code

size(200, 250);

surface.setSize(200, 250);

stroke(204, 102, 0);

strokeWeight(4);

rect(0, 0, 199, 249);

{

String[] words = { "1", "2", "3", "4", "5", "6", "7", "8", "9", "10", "11", "12", "13", "14", "15" };

int index = int(random(words.length));

println("Formula:", words[index]);

String s = words[index];

fill(20);

text(s, 67, 10, 70, 80);

;

{

String[] words2 = { "-1", "-0.5", "0", "0.5", "1", "1.5", "2", "2.5" };

int index2 = int(random(words2.length));

println("Numbers:", words2[index2]);

String s3 = words2[index2];

fill(20);

text(s3, 74, 27, 70, 80);}

{

String[] words2 = { "-1", "-0.5", "0", "0.5", "1", "1.5", "2", "2.5" };

int index2 = int(random(words2.length));

println(words2[index2]);

String s3 = words2[index2];

fill(20);

text(s3, 74, 42, 70, 80);}

{

String[] words2 = { "-1", "-0.5", "0", "0.5", "1", "1.5", "2", "2.5" };

int index2 = int(random(words2.length));

println(words2[index2]);

String s3 = words2[index2];

fill(20);

text(s3, 74, 57, 70, 80);}

{

String[] words2 = { "-1", "-0.5", "0", "0.5", "1", "1.5", "2", "2.5" };

int index2 = int(random(words2.length));

println(words2[index2]);

String s3 = words2[index2];

fill(20);

text(s3, 74, 72, 70, 80);}

{

String[] words2 = { "-1", "-0.5", "0", "0.5", "1", "1.5", "2", "2.5" };

int index2 = int(random(words2.length));

println(words2[index2]);

String s3 = words2[index2];

fill(20);

text(s3, 74, 87, 70, 80);}

{

String[] words2 = { "-1", "-0.5", "0", "0.5", "1", "1.5", "2", "2.5" };

int index2 = int(random(words2.length));

println(words2[index2]);

String s3 = words2[index2];

fill(20);

text(s3, 74, 102, 70, 80);}

{

String[] words2 = { "-1", "-0.5", "0", "0.5", "1", "1.5", "2", "2.5" };

int index2 = int(random(words2.length));

println(words2[index2]);

String s3 = words2[index2];

fill(20);

text(s3, 74, 117, 70, 80);}

{

String[] words2 = { "250", "500", "750", "1000", "1250", "1500", "1750", "2000" };

int index2 = int(random(words2.length));

println("Iterations:", words2[index2]);

String s3 = words2[index2];

fill(20);

text(s3, 74, 137, 70, 80);}

}

{

String[] words2 = { "1", "2", "3", "4", "5", "6", "7", "8", "9", "10", "11" };

int index2 = int(random(words2.length));

println("Filter:", words2[index2]);

String s2 = words2[index2];

fill(20);

text(s2, 50, 155, 70, 80);}

{

String s = "Formula:";

fill(20);

text(s, 7, 10, 70, 80);}

{

String s = "Numbers:";

fill(20);

text(s, 7, 27, 70, 80);}

{

String s = "Iterations:";

fill(20);

text(s, 7, 137, 70, 80);}

{

String s = "Filter:";

fill(20);

text(s, 7, 155, 70, 80);}

Fractal equations

1 - Z=Z\*Z-2

2 - Z\*C+1

3 - Z\*C+2\*P

4 - 1+Z\*C+P

5 - 1+Z\*C\*P

6 - 1+P+C\*Z

7 - P+C\*Z+0.5\*C

8 - P+C\*Z+0.9\*C-0.1

9 - Z=Z\*C-2/2

10 - Z=C\*P-2/2

11 - Z+1=Z\*Z\*(Z\*Z)+C

12 - Z+1=(Z\*Z\*(Z\*Z))+C+P

13 - Z+2=(Z\*Z\*(Z\*Z))+C\*P

14 - Z/10=(Z\*Z\*(Z\*Z))+C\*P

15 - Z/20=(Z\*Z\*(Z\*Z))+(C\*P+5)