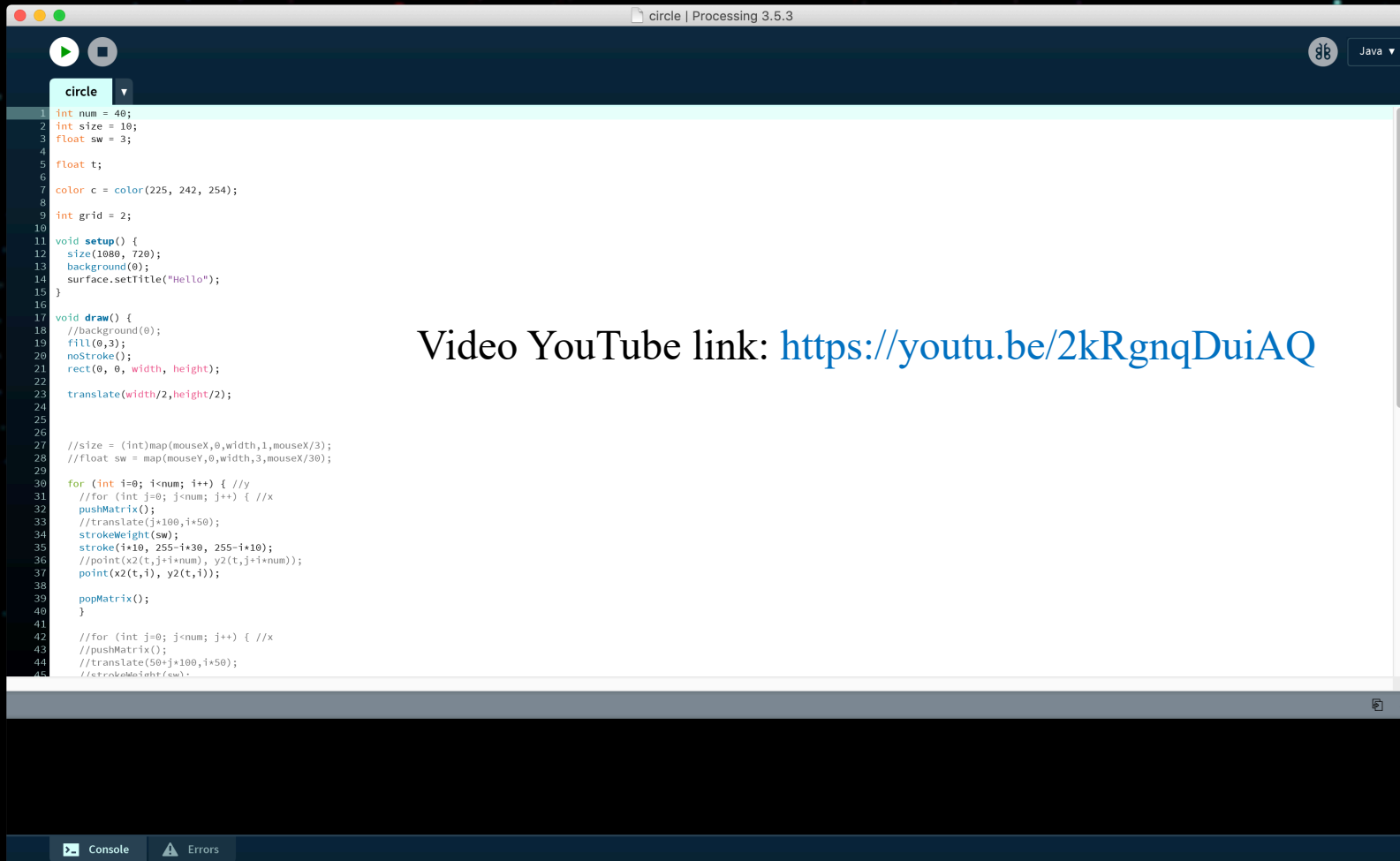




SM2105 Final Project II Generative Art (8/9)

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Medium - Processing



```
1 int num = 40;
2 int size = 10;
3 float sw = 3;
4
5 float t;
6
7 color c = color(225, 242, 254);
8
9 int grid = 2;
10
11 void setup() {
12   size(1080, 720);
13   background(0);
14   surface.setTitle("Hello");
15 }
16
17 void draw() {
18   //background(0);
19   fill(0,3);
20   noStroke();
21   rect(0, 0, width, height);
22
23   translate(width/2,height/2);
24
25
26
27   //size = (int)map(mouseX,0,width,1,mouseX/3);
28   //float sw = map(mouseY,0,width,3,mouseY/30);
29
30   for (int i=0; i<num; i++) { //y
31     //for (int j=0; j<num; j++) { //x
32     pushMatrix();
33     //translate(j*100,i*50);
34     strokeWeight(sw);
35     stroke(i*10, 255-i*30, 255-i*10);
36     //point(x2(t,j+i*num), y2(t,j+i*num));
37     point(x2(t,i), y2(t,i));
38
39     popMatrix();
40   }
41
42   //for (int j=0; j<num; j++) { //x
43     //pushMatrix();
44     //translate(50+j*100,i*50);
45     //strokeWeight(sw);
```

Video YouTube link: <https://youtu.be/2kRgnqDuiAQ>

It starts with a simple dot, which is the seed. The dot then starts to move, and it gets more friends.

They look robotic in the same way while looking alive in different directions and speeds. They can make beautiful and mesmerizing motions, just like the waves which are attractive in a sort of repetition.

This is the part where the dot develops visually. You may consider skipping this and go to the next page where the dot develops literally.

Generativity has a biological side. So, let's talk about biology. I think the human body can be similar. A dot is just like a cell, basic unit of organisms. A cell has its own system: a nucleus, cell membrane, cytoplasm etc. and substances pass through in and out. Just like the dot, moving circularly, go on and on.

Fun things happen when more cells come together. They become tissue, organ, system, organism, a talking human. It takes 100 muscles for a person to speak, not to mention how many cells are involved. It is fantastic to see how these little units work together to perform art.

Then we can repeat the process and change the dot unit into a person. A person has his/her own system: move, breath, eat, grow etc. and we live, work, love and pursue self-actualization.

People gather to achieve greater things. Thus family, community, society, world are constructed. We can look at man individually and see one kind of motion, while another kind of chemistry can also be explored when more people are getting together.

GenCircle – extended literature version

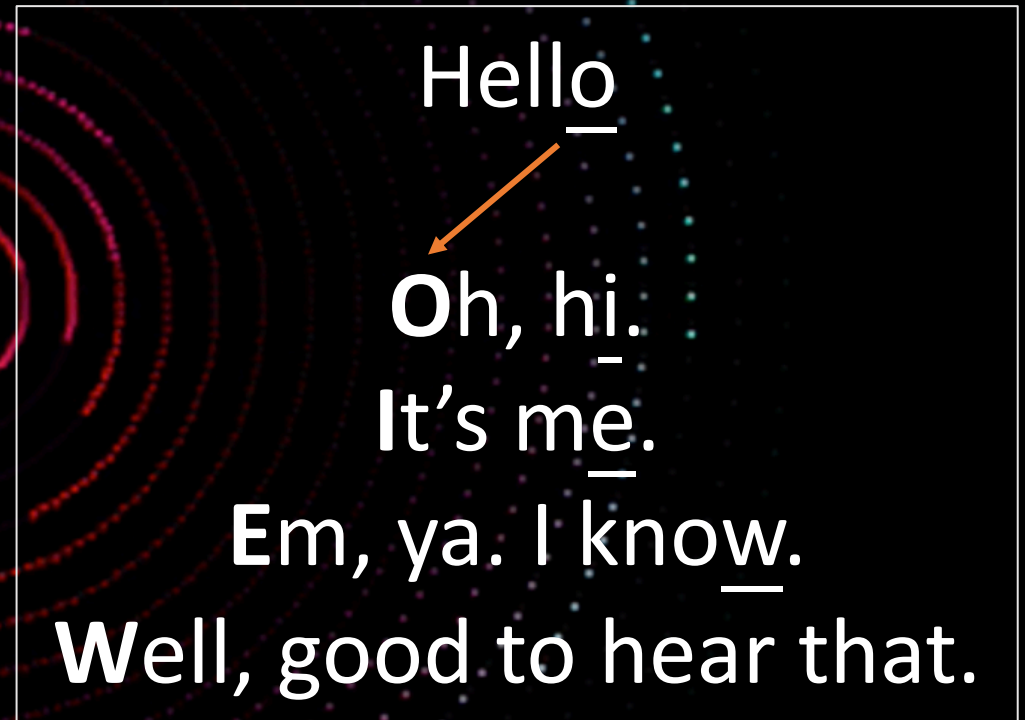
After those 180 words, I wrote down “A dot moves circularly.”

Then I think of extending it with some famous quotes and add some rules to make it generative.

*You may consider it as option II(9), or just count the above part into option II(8), or even count it all in one. I have no idea but as I think both are beautiful so I juxtapose them.

The rules are:

- 1) Each quote starts with the letter that the previous sentence ends with. Character version of anadiplosis 頂真法.
- 2) Don't repeat the letters.
- 3) Finally, back to the letter “a” and finish with own sentence.



Summary diagram?

A dot moves circularly.

“Years wrinkle the skin, but to give up enthusiasm wrinkles the soul.”

“Lack of education is an extraordinary handicap when one is being offensive.”

“Each day comes bearing its own gifts. Untie the ribbons.”

“Science has proof without any certainty. Creationists have certainty without any proof.”

“Fathers send their sons to college either because they went to college or because they didn't.”

“The average woman would rather have beauty than brains, because the average man can usually see better than he can think.”

“Knowing what you cannot do is more important than knowing what you can do.”

“Oh, never mind the fashion. When one has a style of one's own, it is always twenty times better.”

“Reality can be beaten with enough imagination.”

“Never try to teach a pig to sing. It wastes your time, and it annoys the pig.”

“Great anger is more destructive than the sword”

“Did you know that every two hours the nations of this world spend as much on armaments as they spend on the children of this world every year?”

“Rumor travels faster, but it doesn't stay put as long as truth.”

“How strange! When people borrow money, they bow to you and when you collect it, you have to bow to them.”

“Moving rocks today strengthens you for moving mountains tomorrow.”

“We were equals once when we lay new-born babes on our nurse's knees. We will be equal again when they tie up our jaws for the last sleep.”

“People are receiving billions and millions of dollar during the COVID-19 pandemic and it is an opportunity to them to take advantage but I realized that people forgot that the COVID-19 pandemic will end soon, and they must be prepare for something more tragic than the COVID-19 pandemic.”

“Coffee is my cup of tea.”

A dot gets some friends and they move together circularly.

I found these quotes from an online source: <https://www.quotes.net/>

I discovered that most words end with “e”, “y”, “t”, “s”, “d”, “g” while words end with “b”, “j”, “c”, “a” etc. barely appear.

You can see the pattern from the order of quotes.

Another interesting finding is that if you are looking for words ending with a “u”, the word “you” always appear.

At first, it is fun to skim through the quotes and find something crazy but wise. However, things changed when the choices are narrowed down as more and more letters have appeared.

In the middle, I may still spot some lovely quotes but I can’t copy them due to the repetition rule. Sometimes I even want to replace the selected quotes but turns out I can’t fulfil the first big rule.

In the end, trying to end the game, my eyes just keep jumping from one ending letter to the other. The process goes even harder after the letter “w”. I even searched each page of the letter “u” but I can’t find a good one that ends with an “a”. So I go backwards and try another “p” quotes. Unfortunately, I had to give up the “u”.

You may say there is no point. Or it can be a good exercise for secondary students to learn more quotes and polish their essays.

For me, I thought of two Cantonese sayings: “throwing school bags”(拋書包) and “taking others saliva”(執人口水尾).

The first one refers to a person boasting his/her knowledge by telling lots of books’ facts.

We use stronger words, like famous quotes, to strengthen and support our idea. The structure usually comes in the same way:

Topic sentence expressing our opinion, then supporting evidence, finally our conclusion. Just like rule (3). And obviously, we would want various supporting angles, like rule (2).

The second one refers to a person re-saying other people’s words and pretending it to be their own words.

I guess we all do this, even unconsciously. It is because people don’t create/say things from scratch. We learn, we input information and knowledge before we produce outputs.

We don’t necessarily copy others, but we learn from them, then we digest, integrate and end up generating our things. That is why our thoughts are just a combination of different thoughts.

The Cantonese expression is funny enough to draw a picture: we are taking the “end” of the saliva, which perfectly matches the rule of ending letter as well.

The background features a series of concentric dotted circles. The innermost circles are red, while the outermost circles are cyan. The dots are small and spaced evenly along each circle. The text is centered horizontally and vertically over the red circles.

What about being freer in our own words?

A dot gets some friends and they move together circularly.

Yelling, “Hey! What are you doing here?”

Eating or drinking is not allowed on the train or in the paid areas of stations. (bee beep...)

Staring at the moon, staring at the stars.

Soar into the cloud.

Dive into the sea.

Ask the air a question.

“No one can tell where you come from, can you?”

“Up the hill, down the river”, there’s an answer.

Rain drops for a reason.

Noon doesn’t tell the clock to point at twelve.

Electricity does.

The secret is held in someone’s hand.

Diamond, gold, can’t force it.

Till the time he wants to speak.

Kindly reveals with authority.

Yet, no one knows what the cost will be.