

## Lab 3: Multiples

due October 5th/6th, 2017

### Warm-Up Exercise

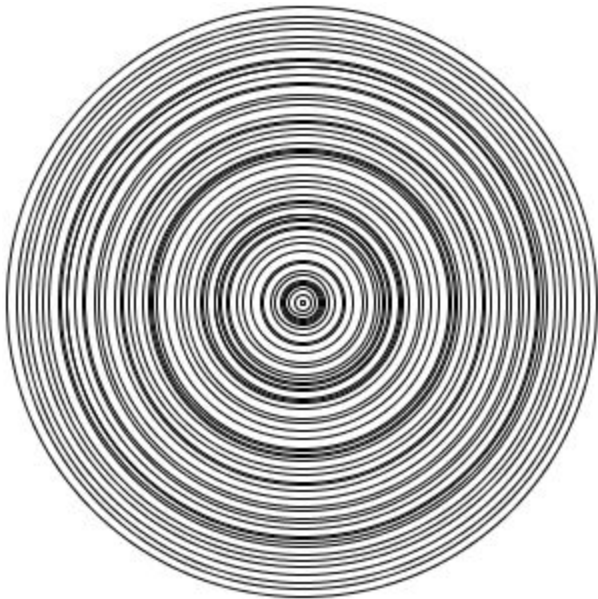
```
int y = 0;

void setup() {
  size(400, 400);
}

void draw() {
  if (y < height) {
    line (0, y, width-y, 0);
    y = y + 10;
  }
}
```

Turn this animation into a static picture using a loop.

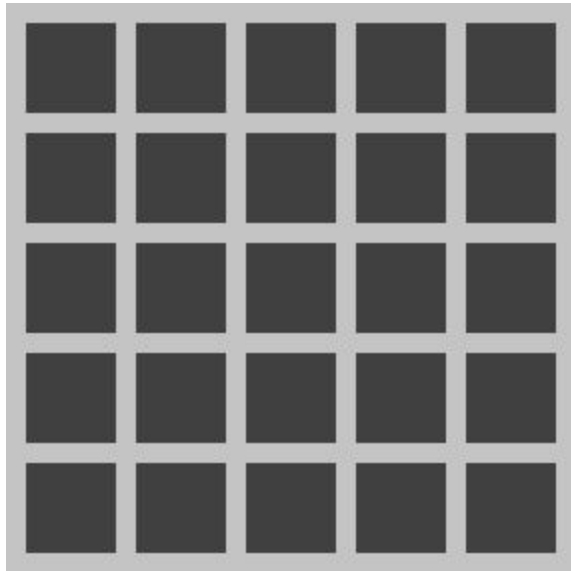
Use loops to draw the following pictures.



**VINYL:** Create 300x300 sketch window that displays random grooves in a vinyl record.



**GRADIENT:** Create A 256x256 sketch window that displays a color gradient using a series lines or rectangles. Use a while loop.



**HERMANN'S GRID:** Create a sketch that recreates the Hermann's illusion using for loop(s).

## Learning Objectives

- Design loops.
- Convert animations into static pictures using loops.
- Practice for & while loops

## Deliverables

- Your programs should start with a comment that includes your name, email, date, assignment description & collaboration statement.
- Bring a hardcopy of your programs (the source code, not the graphics) to your next lab period.
- Be prepared to run the Processing sketches and demonstrate your "[Theory of the Program](#)."