```
// Manuale di Programmazione Cinematografica
// Daniele Olmisani, 2015
// Modern Times (1936)
final color PAPER = color(240);
final color INK = color(45, 60, 40);
void setup() {
  size(480, 640);
  noLoop();
void draw() {
  final float S = min(width, height);
  translate(0.5*width, 0.3*height);
  background(PAPER);
  drawGear( 0.0,
                      0.0, 0.16*S, 0.04*S, 0, 0.01*S);
  drawGear(0.21*S, 0.21*S, 0.11*S, 0.04*S, 0, 0.01*S);
  drawGear(0.02*S, 0.35*S, 0.10*S, 0.04*S, 0, 0.01*S);
  drawGear(0.12*S, 0.52*S, 0.07*S, 0.04*S, 0, 0.01*S);
  save("modern-times.png");
}
void drawGear(float x, float y, float r, float s, float a, float h) {
  pushMatrix();
    fill(INK);
    noStroke();
    translate(x, y);
    rotate(a);
    rectMode(CENTER);
    ellipseMode(CENTER);
    final int N = (int)((r*PI) / s);
    for (int i=0; i<N; i++) {</pre>
      rect(r, 0, s, s);
      rotate(TWO_PI / N);
    }
    ellipse(0, 0, 2*r, 2*r);
    fill(PAPER);
    ellipse(0, 0, h, h);
  popMatrix();
}
```