Atelier Processing : typographie

fontViewer.pde

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/**************************************************

  Nécessite l'installation de la librairie "Drop"

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import java.awt.Font;
import drop.*;

SDrop drop;


PFont defaultFont;
PFont font;
Font nativeFont;
int size = 32;
int margin = 2;

ArrayList<MyGlyph> glyphs = new ArrayList();
int iFirst, iLast;
float yOffset = 0;
float yVel = 0;
float yMax = 0;
int selected = -1;
//ArrayList


void setup() {
  size(800, 600);
  //fullScreen();
  printArray(PFont.list());

  // Drag & drop
  drop = new SDrop(this);

  text(' ', 0, 0);  // dirty hack to get processing's default font
  defaultFont = g.textFont;

  //loadFontFile("NotoEmoji-VariableFont_wght.ttf");
}


void loadFontFile(String fontFile) {
  font = createFont(fontFile, size);
  nativeFont = (Font) font.getNative();
  textFont(font);
  glyphs.clear();
  selected = -1;

  int x = margin;
  int y = font.getSize() + margin;
  int numChars = 0;
  for (int i = 0; i < 0x10ffff; i++) {
    if (nativeFont.canDisplay(i)) {
      numChars++;
      MyGlyph glyph = new MyGlyph();
      glyph.codepoint = i;
      glyph.s = new String(Character.toChars(i));
      glyph.w = textWidth(glyph.s);
      glyph.h = font.getSize();
      if (x + glyph.w + margin > width) {
        x = margin;
        y += font.getSize() + margin;
      }
      glyph.x = x;
      glyph.y = y;
      x += glyph.w + margin;
      glyphs.add(glyph);
    }
  }
  if (!glyphs.isEmpty())
    yMax = max(0, glyphs.get(glyphs.size()-1).y + 4 * margin - height);

  println(numChars, "glyphs in font");
}


void draw() {
  background(255);
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  if (font == null)
    return;

  yOffset = constrain(yOffset + yVel, 0, yMax);
  yVel *= 0.9;

  pushMatrix();
  translate(0, -yOffset);

  textFont(font);
  fill(0);
  iFirst = glyphs.size();
  iLast = 0;
  for (int i = 0; i < glyphs.size(); i++) {
    MyGlyph glyph = glyphs.get(i);
    if (glyph.y > yOffset && glyph.y - glyph.h < height + yOffset) {
      if (i == selected)
        fill(255, 0, 0);
      else
        fill(0);
      text(glyph.s, glyph.x, glyph.y);
      if (i < iFirst)
        iFirst = i;
      if (i > iLast)
        iLast = i;
    }
  }

  if (selected >= 0) {
    MyGlyph glyph = glyphs.get(selected);
    textFont(defaultFont);
    textSize(18);
    String text = String.format("%d | 0x%h", glyph.codepoint, glyph.codepoint);
    float tw = textWidth(text);
    float th = defaultFont.getSize();
    fill(255, 220);
    noStroke();
    rect(glyph.x + 0.5*(glyph.w - tw), glyph.y + 4, tw + 16, th + 8, 8);
    fill(0, 0, 255);
    text(text, glyph.x + 0.5*(glyph.w - tw) + 8, glyph.y + 4 + th + 4);
  }
  popMatrix();
}


void mousePressed() {
  selected = -1;

  if (keyPressed && keyCode == 16)
    println("maj");

  for (int i = iFirst; i <= iLast; i++) {
    MyGlyph glyph = glyphs.get(i);
    if (mouseX > glyph.x && mouseX < glyph.x + glyph.w &&
        mouseY + yOffset > glyph.y - glyph.h && mouseY + yOffset < glyph.y) {
      selected = i;
      println(glyph.s);
      break;
    }
  }
}


void mouseWheel(MouseEvent event) {
  yVel += 2 * event.getCount();
}


class MyGlyph {
  public String s;
  public int codepoint;
  public int x, y;
  public float w, h;
}


void dropEvent(DropEvent theDropEvent) {
  if (theDropEvent.isFile() && (theDropEvent.toString().endsWith(".ttf") || theDropEvent.toString().endsWith(".otf"))) {
    loadFontFile(theDropEvent.toString());
  }
}
```

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