tikz-penciline

Hand drawing with PGF/TikZ

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 \bowtie seb• $\alpha \tau$ •chezwam• $\partial \theta \tau$ •org

• @renard_0

o https://github.com/renard/tikz-penciline

2014/12/18 v1.0 initial version

tikz-penciline is based on percusse answer from StackExachange's $simulating\ hand\ drawn\ lines^1$. The original idead is to make a tikzpicture look like if it was hand drawn.

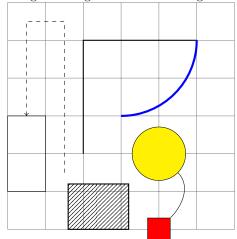
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This documentation was compiled on MacOSX using XHATEX 0.99991, PGF 3.0.0, tcolorbox 3.21 on December 29, 2014.

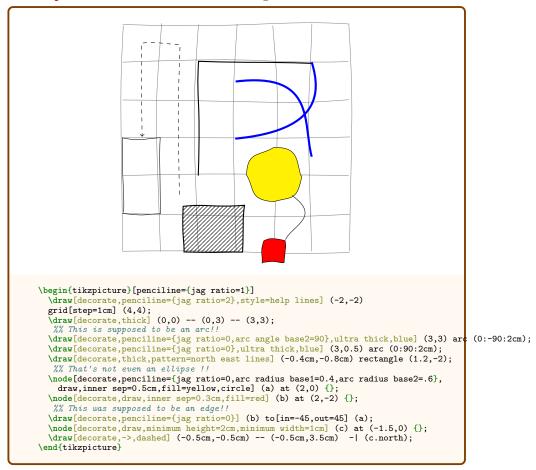
¹http://tex.stackexchange.com/questions/39296

1 Overview

The original image looks to someting similar to:



The penciline version looks to someting similar to:



2 Installation

To install the tkiz-penciline package copy its directory to either to

- \$TEXHOME/tex/latex/
- \$TEXMFHOME/tex/latex/
- ~/texmf/tex/latex/
- ~/Library/texmf/tex/latex/

3 Usage

Basically you only have to declare **penciline** and **decorate** option to path you want to look hand drawn.

3.1 customization

$$jag ration = \langle float \rangle \tag{2.0}$$

This value controls the *jag* value. The higher the it is, the most deformed the drawing will be. Best value are between 2 and 5.

If the path is a circle or an arc you should set **jag ratio** to 0 for better results.

$$segment x base1 = \langle float \rangle \tag{0.5}$$

This is the base for the x coordinate of first control point. The formula is given by:

length * (segment x base1 + segment x ratio1 * rnd)

This means by default that that the x coordinate is about in the middle of the segment.

$$segment x ratio1 = \langle float \rangle \tag{0.25}$$

This is the randomized ratio part of the x coordinate of first control point (see segment x base1).

$$segment x base2 = \langle float \rangle \tag{0.5}$$

Base for second control point (see segment x base1).

$$segment x ratio2 = \langle float \rangle \tag{0.25}$$

Random ratio for second control point (see segment x ratio1).

arc angle base1=
$$\langle float \rangle$$
 (20)

This is the base of the angle of the polar coordinate for the first control point. The formula is given by:

arc angle base1 + rand * arc angle ratio1

This means that the angle is arc angle base1 \pm arc angle ratio1.

arc angle ratio1= $\langle float \rangle$ (10)

This is the ratio (variable) part of the angle of the polar coordinate for the first control point (see arc angle base1).

arc radius base1=
$$\langle float \rangle$$
 (0.3)

This is the base of the radius of the polar coordinate for the first control point. The formula is given by:

length * arc radius base1 + rand * arc radius ratio1

arc radius ratio1=
$$\langle float \rangle$$
 (0.05)

This is the ratio (variable) part of the radius of the polar coordinate for the first control point (see arc radius base1).

arc angle base2=
$$\langle float \rangle$$
 (-90)

Base angle for the second control point. See arc angle base $1^{-P.3}$.

arc angle ratio
$$2=\langle float \rangle$$
 (-10)

Variable part of the angle for the second control point. See arc angle ratio1.

arc radius base2=
$$\langle float \rangle$$
 (0.7)

Base of the radius for the second control point. See arc radius base1.

arc radius ratio
$$2=\langle float \rangle$$
 (0.05)

Variable part of the radius for the second control point. See arc radius ratio1.

$$x \circ ffset = \langle float \rangle$$
 (1)

Maximum x offset for target point.

y offset=
$$\langle float \rangle$$
 (1)

Maximum y offset for target point.