snakeTi*k*Z

Frédéric Moser
`f@fxi.io`

1 Description

snakeTi*k*Z is a simple LaTeXpackage using Ti*k*Z for drawing a path from the end of a line to the next one. It could be used in study of latin poetry.

2 Output exemple

Examples with different interlines height :

770 membra natant sanie, surae fluxere, sine ullo
771 tegmine poples erat, femorum quoque musculus omnis
772 liquitur, et nigra destillant inguina tabe. —

773 dissiluit stringens uterum membrana, fluuntque
774 uiscera; nec, quantus toto de corpore debet,
775 effluit in terras, saeuum sed membra uenenum
776 decoquit, in minimum mors contrahit omnia uirus. —

811 sanguis erant lacrimae; quaecumque foramina nouit
812 umor, ab his largus manat cruor; ora redundant
813 et patulae nares; sudor rubet; omnia plenis
814 membra fluunt uenis; totum est pro uolnere corpus. —

3 Installation

- Copy `snaketikz.sty` in your working directory, or copy source code in a new `snaketikz.sty` file.

- load snake package `\usepackage{sneaktikz}`

4 Minimal working exemple

```
\documentclass{article}
\usepackage{snaketikz}

\begin{document}
% begin snake environnment with 2 arguments :
% width and interline height
\begin{snake}{0.9\textwidth}{4mm}
% the snL command take 3 arguments:
% 1 : type of line. s=snake e=end
% 2 : line number
% 3 : verse line
\snL{s}{770}{membra natant sanie, surae fluxere, sine ullo}
\snL{s}{771}{tegmine poples erat, femorum quoque musculus omnis}
\snL{e}{772}{liquitur, et nigra destillant inguina tabe.}
\end{snake}
\end{document}
```

5 Snake package source

```
% ----------------------------------------------------
% "THE BEER-WARE LICENSE" (Revision 42):
% <f@fxi.io> wrote this file. As long as you retain
% this notice you can do whatever you want with this
% stuff. If we meet some day, and you think this stuff
% is worth it, you can buy me a beer in return.
% ----------------------------------------------------

\NeedsTeXFormat{LaTeX2e}[1994/06/01]
\ProvidesPackage{snaketikz}[2014/07/12 snaketikz Package]


\RequirePackage{lmodern}
\RequirePackage{tikz}
\usetikzlibrary{arrows,positioning,calc}

%---------------------------------------------%
%   new environment snake :
%   set centerd box, line height, line counter
%---------------------------------------------%
\newenvironment{snake}[2]{
% arg 1= width
```

```
% arg 2= height
\begin{center}
\begin{minipage}{#1}
\ifcsname hh\endcsname%
\else
\newlength{\hh}
\fi
\setlength{\hh}{#2}
\ifcsname c@cc\endcsname%
\else
\newcounter{cc}%each snL increment this counter
\fi
\setcounter{cc}{0}
\noindent%
\begin{tikzpicture}[baseline=-0.5,
node distance=0.5\hh]
}{
\setcounter{cc}{0}
\end{tikzpicture}
\end{minipage}%
\end{center}

}

%---------------------------------------------%
%   new command \snL : (snake line)
%   Draw path/snake/ligature between line
%---------------------------------------------%

\newcommand{\snL}[3]{
\def\hm{\value{cc}*\hh}%hm= total height * line counter
\node[font=\tiny,anchor=east] at (-0.2,0-\hm) (a) {#2};
\coordinate[right=of a] (b);
\node[anchor=west, right=of b] (c) {\small #3};
\coordinate[right=of c] (d);
\coordinate[below=of b] (e);
\coordinate[below=of e] (f);
\coordinate[right=of f] (g);
\ifnum \pdfstrcmp{#1}{s}=0 % if first arg is s, print line
\draw[|-,draw=red,thin]
(c)--
(d)arc (90:-90:0.25*\hh) --
(e)arc (90:270:0.25*\hh) --
(g) ;
\else
\draw[-,draw=red,thin]
```

```
(c)--
(d) ;
\fi
\addtocounter{cc}{1}
}
```