A Calligraphy Grid in ConTeXt/LMTX

This project is a generator of grids for medieval calligraphy in ConT_FXt/LMTX and MetaPost.

Files included

- · Main module:
 - tex/context/third/pauta/t-pauta.mkxl
- · Example file:
 - doc/context/third/pauta/pauta-example.tex (also in pdf)
- A copy of this file in ConT_EXt format:
 - doc/context/third/pauta/pauta-example.tex (also in pdf)
- Environment file for the examples (not needed for Pauta to work): doc/context/third/pauta/env-pauta.tex
- This README.md file, and a pandoc generated ConTeXt version at doc/context/third/pauta/README.tex. It gets regenerated by the build.lua script on each run using pandoc.
- The build script build.lua, that takes care of generating the tex version of the README file and all the pdfs.

Use

- 1. Clone this repository: git clone https://github.com/conradolandia/pauta.git, and cd inside it.
- 2. Copy the doc and tex folders to your ConT_EXt tree and rebuild your database with context --generate. You can find more details about the process on the ConT_EXt wiki. Alternatively, call context with the --path flag, and provide it with the path of this folder, i.e: context --path=/home/user/pauta. Alternatively still, simply place t-pauta.mkxl on the same directory as the file importing it.
- 3. Invoke the \Pauta macro as many times as you want pages. Each invocation can have a different configuration. Each invocation will create one single page.
- 4. The data about the hand¹ is autogenerated by the module and set into the header or the footer, following the user configuration.
- 5. Warning: This module takes over the top and bottom typesetting areas², and does not reset them properly yet. So if your document includes other content on those areas you will need to reset again to your liking by manually invoking \setuptoptexts/\setupbottomtexts. This will be hopefully improved in the future.

Generating the example file

Review and run the lua script build.lua. If you don't have a standalone lua interpreter, you can run it with luametatex like so:

luametatex --luaonly build.lua

¹ This a way of saying the *font* in fancy calligraphic terms.

² Check out the layout article in the wiki for more information about $ConT_EXt$ typesetting areas.

You can also adapt it and use to build your own projects, build.lua lives in its own repository.

Configuration Parameters

All parameters are optional. Defaults are as follows:

```
\Pauta[
 hand=, % Hand name. If not defined, will not show info on the right of the header / footer
 handInfo=, % Some extra info for the hand. If not defined, will not show info on the right of the header /
 infoPosition=header, % Where to show the extra info (header | footer)
 infoLeft={\setup{pauta:content:leftmark}}, % If defined, will override autogenerated hand info on the left
of the footer / header
 infoRight = {\texttt{\content:rightmark}}, \ \% \ \textit{If defined, will override autogenerated hand info on the right}
of the footer / header
 displayNibs=false, % Show nib-width marks (true | false)
 displayAngleMarks=false, % Display dotted guides for the nib angle (true | false)
 nibWidth=3mm, % Pen nib width (must include units, or it will default to big points)
 nibAngle=35, % Nib working angle in degrees
 ascenders=3, % Number of ascender lines (in nib widths)
 xHeight=4, % Number of x-height lines (in nib widths)
 descenders=3, % Number of descending lines (in nib widths)
 adjustment=0, % Sometimes it's necessary to adjust the line height if is longer than TextHeight, still not
sure why it happens but it happens... a value of 1 or 2 should solve it.
 mainColor={s=.4}, % Main color (lines that separate sections)
 secondaryColor={s=.6}, % Secondary color (lines separated by a nib width and dotted angle lines)
 tertiaryColor={s=.8}, % Tertiary color (nib width marks on the left margin)
```

Code Examples

Example 1: Basic Usage

```
\usemodule[pauta]
\startdocument
\Pauta[
 hand={Carolingian},
 handInfo={Tours school, VIII\high{th} century},
 infoPosition=header,
 displayNibs=true,
 displayAngleMarks=true,
 nibWidth=3mm,
 ascenders=2,
 xHeight=3,
 descenders=2
 adjustment=0,
 mainColor={s=.6},
 secondaryColor={s=.8},
 tertiaryColor={s=.8},
\stopdocument
```

Example 2: Multiple Pauta Instances

```
\usemodule[pauta]
\startdocument
\Pauta[
hand={Carolingian},
handInfo={Tours school, VIII\high{th} century},
infoPosition=header,
displayNibs=true,
displayAngleMarks=true,
nibWidth=3mm,
ascenders=2,
xHeight=3,
descenders=2,
adjustment=0,
mainColor={s=.5},
secondaryColor={s=.6},
tertiaryColor={s=.7},
% Overriding the hader / footer info:
\Pauta[
infoLeft={An excercise in Visigothic script},
infoRight = \{from \ an \ Spanish \ manuscript, \ VII \setminus high\{th\} \ century\},
 infoPosition=footer,
displayNibs=true,
{\tt displayAngleMarks=false,}
nibWidth=2mm,
ascenders=4,
xHeight=3,
descenders=4,
adjustment=1,
mainColor={s=.3},
secondaryColor={s=.4},
tertiaryColor={s=.5},
\stopdocument
```