# A Calligraphy Grid in ConTeXt/LMTX

**WARNING: WORK IN PROGRESS (ALPHA) USE AT YOUR OWN RISK!**
This project is a generator of grids for medieval calligraphy in ConTeXt/LMTX and MetaPost.

## Files

- Main module: `t-pauta.mkxl`
- MetaPost library: `hatching.mp`
- Example file: `pauta-example.tex` (also in pdf)
- Environment file for the example: `env-example.tex`
- This `readme.md` file, and a pandoc generated tex version `readme.tex`
- The build script `build.lua`

## Use

1. Ensure `pauta.mkxl`, `hatching.mp`, and the ConTeXt file to compile are in the same directory.
2. Include the grid in your ConTeXt file.
3. Compile with `context [FILE]`.
4. Invoke the `\Pauta` macro as many times as you want pages. Each invocation can have a different configuration.

## 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
```

You can also adapt it and use to build your own project.

## Configuration Parameters

All parameters are optional. Defaults are as follows:

```
\Pauta[
  hand=, % Hand name
  handInfo=, % Some extra info for the hand
  infoPosition=header, % Where to show the extra info (header | footer)
  displayNibs=true, % Show pen width marks (true | false)
  displayAngleMarks=true, % Display dotted guides for the nib angle
  nibWidth=3mm, % Pen nib width (with units)
  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 the
last one covers the page info
  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\high{th} century},
 infoPosition=footer,
 displayNibs=true,
 displayAngleMarks=false,
 nibWidth=2mm,
 ascenders=4,
 xHeight=3,
 descenders=4,
 adjustment=1,
 mainColor={s=.3},
 secondaryColor={s=.4},
 tertiaryColor={s=.5},
]
\stopdocument
```

This project aims to provide a flexible and efficient tool for creating calligraphy practice templates, leveraging the power of ConTEXt and MetaPost.

# Changelog

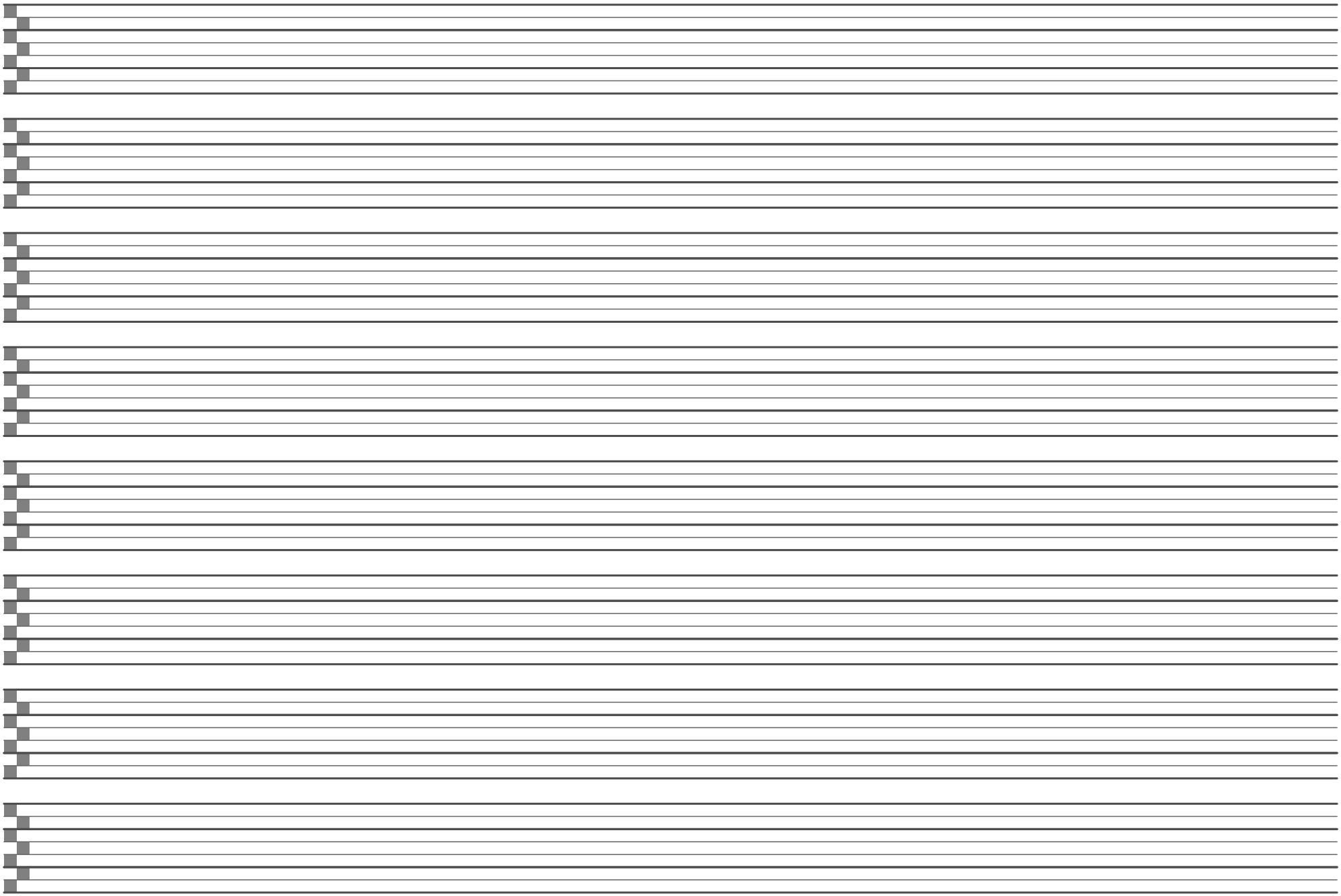
- 20240307: Added build script, first alpha version

Nib: 3mm (3/4/3) 35°

Carolingian (Tours school, VIII$^{th}$ century)

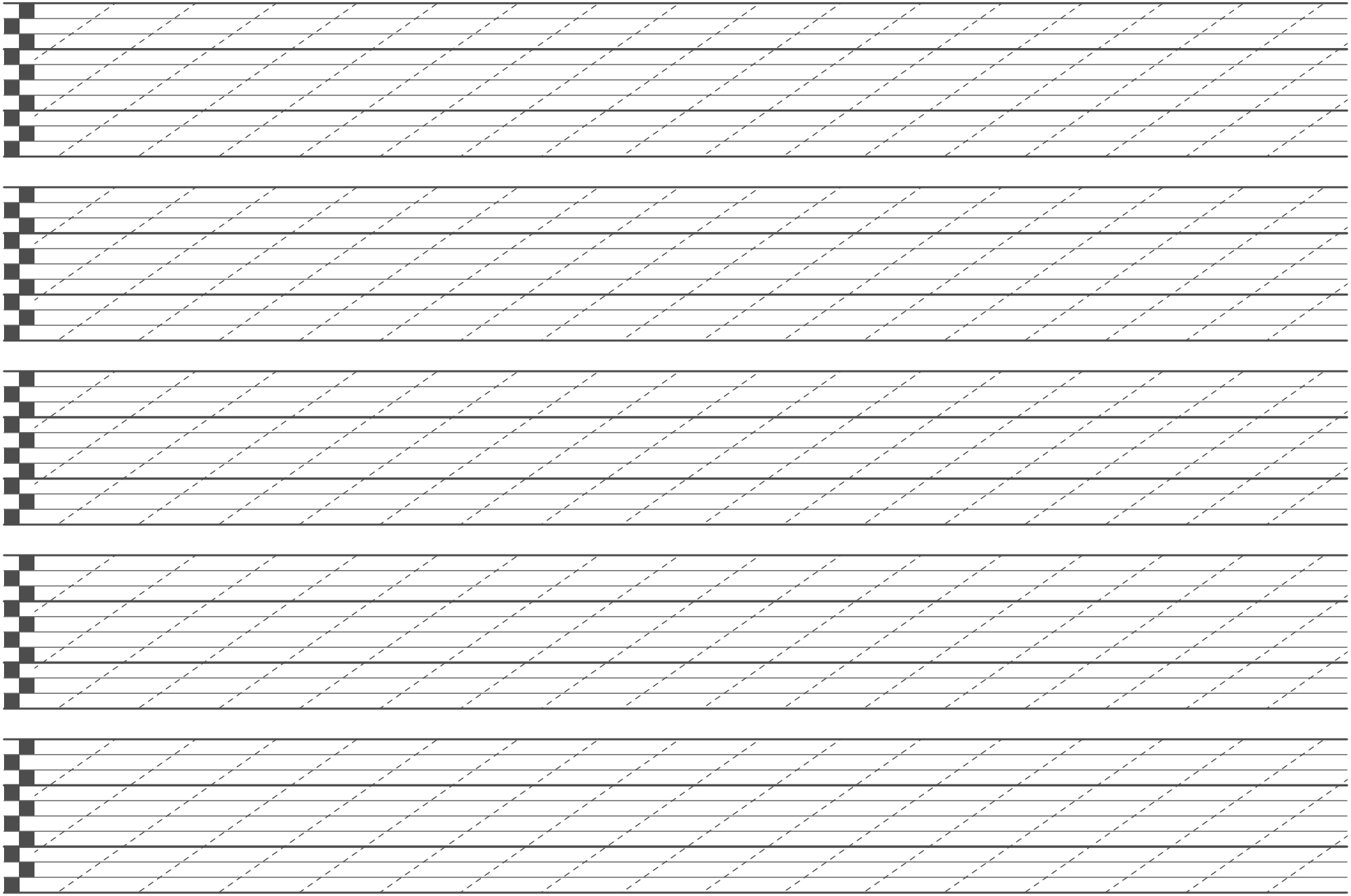
Nib: 2.5mm (2/3/2) 25°

Carolingian (Tours school, VIII$^{th}$ century)



Nib: 2mm (4/3/4) 32°

Visigothic script (Spain, VII$^{th}$ century)



Nib: 3mm (3/4/3) 35°

Foundational Hand (Edward Johnston, 1906)

testing testing testing

Nib: 3mm (3/4/3) 35°