Unicode Alphabets

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1 Preface

While Unicode supports the vast majority of use cases, there are certain specialized niches which require characters and glyphs not (yet) represented in the standard.

Thus the Private Use Area (PUA) at code points E000–F8FF, which enables third parties to define arbitrary character sets.

This package allows configuring a number of macros to enter characters from the PUA by name or code point.

2 Setup

The package is configured in the following manner:

\usepackage[options]{unicode-alphabets}

Where options must be one or more of the following character sets, some of which may be mutually (in-)compatible. See references for further detail on each.

CYFI[1] Early Cyrillic glyphs.

LINCUA[3] Shortcut for enabling the character sets CYFI, MUFI, and TI-TUS.

MUFI[2] The Medieval Unicode Font Initiative.

TITUS[4] Thesaurus Indogermanischer Text- und Sprachmaterialien.

There is no default, since future versions of this package may supply more character sets that are incompatible with the above.

Additionally, one may configure different fonts for each character set, as in the following example:

Figure 1: Example setup

If no fonts are configured, the document font will be used.

Finally, the MUFI character set has defined entity names, which result in the creation of macros for each character (see msignfour in the following example). These can be suppressed with the disableentitymacros option.

3 Usage

Each set defines a macro in the following manner. Let's use MUFI as an example. By default, a macro with the lower-case name of the character set is defined: \mufi{}. It can then be used to display characters from the given set:

```
1\mufi{FLOURISHED SMALL LETTER M SIGN}\\
2\msignflour{}
3\mufi{msignflour}
4\mufi{F2F3}
```

Figure 2: Example usage

Additionally, starred versions of each macro are defined, which suppress using the configured font, falling back to the document font.

References

- [1] Victor Baranov et al. "Proposal for a unified encoding of Early Cyrillic glyphs in the Unicode Private Use Area". In: *Scripta & e-scripta* 8 (2010), pp. 9–26.
- [2] MUFI: The Medieval Unicode Font Initiative. July 12, 2019. URL: https://mufi.info/(visited on 07/12/2019).

- [3] Andreas Stötzner. "LINCUA: A Unicode-PUA harmonization scheme". In: (2012).
- [4] Thesaurus Indogermanischer Text- und Sprachmaterialien. July 10, 2017. URL: http://titus.uni-frankfurt.de/indexe.htm (visited on 07/12/2019).