

Typesetting with X_YLaTeX for Kurdish

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Abstract

This document provides technical information to use the X_YLaTeX typesetting for the Kurdish language using the **Polyglossia** package. The current configuration of the Kurdish language supports the Sorani and Kurmanji dialects, both of them in two scripts, Latin and Persian-Arabic. Our main objective is to promote the usage of the X_YLaTeX typesetting and create educational content to this end. The Kurdish X_YLaTeX project is available at <https://kurdishxlatex.github.io/>.

1 Introduction

Kurdish is an Indo-European language widely spoken among the Kurdish population in the Middle East and the Kurdish diaspora around the world. The Kurdish language is considered as a dialect continuum with mainly three dialects, Sorani, Kurmanji and Southern Kurdish, and also has mutual intelligibility with the Zaza–Gorani languages. Among the Kurdish dialects, Sorani and Kurmanji are widely used in education and media. In addition to the dialect diversity, Kurdish uses various scripts and follows different writing norms, such as the use of numerals and punctuation marks, due to its unique administrative situation. Currently, two scripts are widely used for writing Kurdish: Latin and Persian-Arabic, which are both based on phonemic orthographies. Although these two scripts are widely used for writing all the dialects of Kurdish, among the Kurmanji and Sorani speakers, the Latin and the Persian-Arabic scripts are respectively more popular.

2 Kurdish in Polyglossia

Polyglossia¹ is a modern multilingual typesetting in X_YLaTeX and LuaLaTeX which is currently supporting over 70 languages². Given the diversity in scripts and dialects of Kurdish, **Polyglossia** is an ideal package to support the Kurdish language.

The following shows a basic document structure in X_YLaTeX with **Polyglossia**:

```
1 \documentclass{article}
2 \usepackage{polyglossia}
3 \setmainfont{Times New Roman}
4 \setdefaultlanguage[variant=sorani,script=latin,numerals=western]{kurdish}
5 \title{Nûsrawekeyekî Min}
6 \author{Nawî min}
7 \date{\today}
8 \begin{document}
9 \maketitle
10 \end{document}
```

The configuration of Kurdish in **Polyglossia** includes Sorani and Kurmanji in both scripts with the following options:

¹<https://github.com/reutenauer/polyglossia>

²As of May 2020

Polyglossia name	variant	script	numerals
Kurdish	sorani	arabic, latin	eastern, western
	kurmanji	arabic, latin	eastern, western

Table 1: Options to use Kurdish in Polyglossia

- **variant:** kurmanji or sorani (*default*)
- **script:** arabic or latin
- **numerals:** western or eastern
- **locale:** currently set by default
- **calendar:** currently set by default to the Gregorian calendar of Kurdish

The scripts for Sorani and Kurmanji are by default **arabic** and **latin**. In addition to the default `\today`, `\ontoday` can be used to take the Izafa structure of Kurdish into account. For instance, the first command produces *15 Gulan 2020* (May 15, 2020) while the latter takes the morphological change into account by producing *15ê Gulanê 2020* (literally meaning, 15 of May of 2020). This option is available for both dialects.

Table 2 and 3 provide the translation of the months and keywords in the current configuration of Kurdish in Polyglossia.

English	Sorani-Arabic	Sorani-Latin	Kurmanji-Arabic	Kurmanji-Latin
January	كانوونی دووهەم	Kanûnî Yekem	چەلە یا یاشین	Çileyâ Paşîn
February	شوبات	Şubat	شوبات	Sibat
March	ئازار	Azar	ئادار	Adar
April	نێسان	Nîsan	نێسان	Nîsan
May	ئایار	Ayar	گولان	Gulan
June	حوزەیران	Huzeyran	هەزێران	Hezîran
July	تەمموز	Temmûz	تیرمەه	Tîrmeh
August	ئاب	Ab	تەباخ	Tebax
September	ئەیلوول	Eylûl	ئیلۆن	Îlon
October	تشرینی یەكەم	Tişrînî Yekem	چریا پێشین	Çiriya Pêşîn
November	تشرینی دووهەم	Tişrînî Dûhem	چریا یاشین	Çiriya Paşîn
December	كانوونی یەكەم	Kanûnî Dûhem	چەلە یا پێشین	Çileyâ Pêşîn

Table 2: Name of the months in the Kurdish calendars in Polyglossia

3 Conclusion

This document is aiming at providing regular update on the progress of the Kurdish T_EX community and the Kurdish configuration in Polyglossia. For further information regarding Polyglossia, please consult [1] or visit the Kurdish X_EL_AT_EX Users Group at <https://kurdishxelatex.github.io/>.

References

- [1] François Charette, Arthur Reutenauer, Bastien Roucariès, and Jürgen Spitzmüller. Polyglossia: Modern multilingual typesetting with X_EL_AT_EX and Lua_LA_TE_X. <https://ctan.math.illinois.edu/macros/latex/contrib/polyglossia/polyglossia.pdf>. (Date accessed: 2020-05-15).

English	Sorani-Arabic	Sorani-Latin	Kurmanji-Arabic	Kurmanji-Latin
preface	پێشه‌کی	Pêşekî	پێشگۆتن	Peggotin
references	سه‌رچاوه‌کان	Serçawekan	ژێده‌ر	Jêder
abstract	پوخته	Puxte	کووته‌بیر	Kurtebîr
bibliography	کتێبنامه	Kitêbname	چاڤکانییا پرتووکان	Çavkanîya Pirtukan
chapter	به‌ندی	Bendî	سه‌رئ	Serê
appendix	پاشکۆ	Paşko	پاشکۆ	Tebînîya
contents	نێوه‌ڕۆک	Nêweřok	نافه‌یرۆک	Navêrok
list of figures	لیستی وێنه‌کان	Lîstî Wênekan	هه‌ژمارا دیمه‌نا	Hejmara Dimena
list of tables	لیستی خشته‌کان	Lîstî Xiştekan	هه‌ژمارا که‌ڤالین	Hejmara Kevalen
index	پێتوێن	Pêrist	پێتست	Endeks
figure	وێنه‌ی	Wêney	دیمه‌ن	Dimenê
table	خشته‌ی	Xiştey	که‌ڤالا	Kevala
part	به‌شی	Beşî	به‌شا	Bêşa
enclosure	هاوینچ	Hawpêç	دوماهک	Dumahik
correspondance	ڕووئووس	Řûnûs	به‌لافکه‌ر	Belavker
head to	بۆ	Bo	ژ بۆ	Ji bo
page	لاپه‌ره	Lapeře	رووپه‌لێ	Rûpelê
see	چاو لێکه‌ن	Çaw lêken	بیترا	binêra
also see	هه‌روه‌ها چاو لێکه‌ن	Herweha çaw lêken	له‌ ڤه‌یا ژ بیترا	li vêya jî binêra
proof	سه‌لماندن	Selmandin	ده‌لیل	Delîl
glossary	فه‌ره‌ه‌نگۆک	Ferhengok	چاڤکانییا لێکۆلین	Çavkanîya lêkolînê

Table 3: Translation of the glosses in Kurdish in Polyglossia