alocal.sty — Local Extensions of ArabT_FX

This package implements some of the notational extensions of Encode Arabic http://github.com/otakar-smrz/encode-arabic/ to work in ArabTEX.

The alocal.sty package is invoked by ArabTEX as the file containing local extensions. Either overwrite your copy of this file in the ArabTEX distribution, or enforce in some other way the redefinitions that our version of alocal.sty consists of. Please report to us any bugs or incompatibility issues.

Defective writing of <_I> enables easy encoding of m_I'aT مِائَة mi'ah and its derivatives, just like <_U> works for '_Ul_a'ika أُولِئِكَ ulā'ika.

m_I'aTuN bi-al-m_I'aTi مِانَّةٌ بِالِمَانَّةِ mi'atun bi-'l-mi'ati
mi'aTuN bi-al-m_I'aTi مِنَّةٌ بِالْمِانَّةِ mi'atun bi-'l-mi'ati
mi'aTuN bi-al-mi'aTi مِنَّةٌ بِالْمِنَّةِ mi'atun bi-'l-mi'ati
\fullvocalize m"_I'aTuN bi-al-mi'aTi مَانَّةٌ بِالْمِنَّة mi'atun bi-'l-mi'ati
\novocalize m"_I'aTuN bi-al-mi'aTi مِانَّة بالمُنَّة mi'atun bi-'l-mi'ati
m_I'atAni wa-m_I'AtuN وَانَّة بالنَّة mi'atani wa-mi'ātun

Doubled vowels \langle ii \rangle and \langle uu \rangle are set equivalent to $\langle I \rangle$, resp. $\langle U \rangle$, in all contexts. This is similar to $\langle aa \rangle$ becoming $\langle A \rangle$. The distinction between $\langle I \rangle$ versus $\langle iy \rangle$ and $\langle U \rangle$ versus $\langle uw \rangle$ is preserved.

zuuwaarii زُوَّارِي
$$z \bar{u}w \bar{a}r \bar{\imath}$$
 zuwwaariy زُوَّارِي $z uww \bar{a}r iy$

Silent 'alif spelled as <UW> or <uW> compares more easily with the other <aW> variant of the verbal ending. Writing <uuW> is equivalent to <UW>.

katabUW كَتَبُوا $katab\bar{u}$ katabUA كَتَبُوا katabu katabuW مَوا katabu ramaW مَوا katabu ramaW مَوا katabu ramaW مَوا katabu

Along with that, we have fixed the ArabTEX's bug in equating the <uwA> sequence with <UA>, thus printing '2' instead of '2'. Now, both look different.

muwA.tin مُوَاطِن muwĀṣalah مُوَاطِن muwĀṣalah

Vocalization degree is extended with the \nodiacritics option, which suppresses the printing of $\check{s}adda$ and all other diacritics. This option has an obvious \noshadda synonym, while \novocalize can also be invoked as \novowels.

Transcription of waṣla can be controlled and customized by redefining the \wasl@symb command. If it is set to \relax, no waṣla is typeset and the original auxiliary vowel is not dropped. The default setting is \gdef\wasl@symb{'}.

Czech-style transcription has been defined as an experimental modification of the standard. Enforce it with \settrans{czech}.

\settrans{czech}

yUladu ^gamI 'u an-nAsi يُولَدُ جَمِيعُ النَّاسِ júladu džamí u an-nási wa-qad wuhibUW 'aqlaN وُقَد وُهِبُوا عَقلًا va-kad vuhibú caklan bi-rU.hi al-'i_hA'i بِرُوحِ الْإِخَاءِ bi-rúḥi al-'ichá'i

\settrans{standard}

yUladu ^gamI 'u an-nAsi يُولَدُ جَمِيعُ النَّاسِ yūladu ğamīu 'n-nāsi wa-qad wuhibUW 'aqlaN وَقَد وُهِبُوا عَقلًا wa-qad wuhibū 'aqlan bi-rU.hi al-'i_hA'i بِرُوحِ الْإِخَاءِ bi-rūḥi 'l-iḥā'i

Fixing the *h* **accent** is noticable with fonts other than Computer Modern.

Consistency of waşla needs to be improved so that vowel tying does not apply across paragraph boundaries.

iqra' iqra' iqra'I $iqra\bar{\imath}$ iqra'iy ' $qra\bar{\imath}y$ iqra'A $iqra\bar{a}$ iqra'UW ' $qra\bar{\imath}u$ iqra'uW 'qrauw iqra'UA $iqra\bar{\imath}u$ iqra'na 'qrana

in'a in'a in'ay in'ay in'ay in'ay ay in'aw in'aw in'aw in'aw in'ay in'ay in

u'mul u'mulī
u'mulī u'mulā
u'mulA 'mulā
iyqa.z iyqaz
ijqazī
iyqa.zl iyqazī

ايقظا

 u 'mulI أُوَّمُلِي $wmular{\imath}$ iyqa.zI إيقَظِي $iyqazar{\imath}$

Consistency of hamza with <aa>, <ii>>, <uu> needs to be revisited.

iqra'I $iqra\bar{\imath}$ iqra'ii ' $qra\bar{\imath}$ iqra'A ' $qra\bar{\imath}$ iqra'aa ' $qra\bar{\imath}$ iqra'UW ' $qra\bar{\imath}$ iqra'uuW ' $qra\bar{\imath}$ muqra'uu $muqra\bar{\imath}$ muqra'uu $muqra\bar{\imath}$

اِقرَئِي اقرَاِي اقرَآ اقرَأًا اقرَؤُوا اقرَؤُوا مُقرَؤُو مُقرَأُو

ra''As ra''asa ra''asa ra''is ru''is mura''is mura''is mura''is mura'ُأَس رُأِّس مُرَأِّس مُرَأِّس

Silent $t\bar{a}$, $marb\bar{u}tah$ spelled as $\langle H \rangle$ needs to be revisited.

m_I'aHuN bi-al-mi'aHi مائة بالله mi'ahun bi-'l-mi'ahi

miah bi-'l-miah مِانَّه بالِلَّة miah bi-'l-miah

m_I'aTuN bi-al-mi'aTi مِائَةٌ بالِئَةِ mi'atun bi-'l-mi'ati

miahāni bi-l-miatayni مِاتَّهُ ان بِالْمِئَّةُ بِن miahāni bi-l-miatayni

Comparison with ArabX_TT_EX can provide useful test cases for hamza.²

'amruN 'amrun 'ibiluN 'ibilun 'u_htuN 'uhtun '"u_ht"uN 'uhtun '"Uql"Id"Is ' $\bar{u}ql\bar{u}d\bar{\iota}s$ ra'suN ra'sun 'ar'asu 'ar'asu sa'ala sa'ala ara'a ara'a bu'suN bu'suN bu'suN 'ab'usuN 'ab'usuN ra'ufa ra'ufa ra'ufa ru'asA'u ru'as $\bar{a}u$ bi'ruN birun 'as'ilaTuN 'as'ilaTuN as'ilaTuN

ka'iba kaiba qA'imuN $q\bar{a}$ imun ri'AsaTuN $ri\bar{a}$ satun su'ila swila samA'uN $sam\bar{a}$ un barI'uN $bar\bar{v}$ un sU'uN $s\bar{u}$ un bad'uN badun `say'uN sayun `say'iN sayin `say'aN sayan sA'ala $s\bar{a}$ ala mas'alaTuN masalatun saw'aTuN sawatun _ha.tI'aTuN $hat\bar{v}$ atun jA'a $g\bar{a}$ a

تَرْبَ قَاتُم ٌ رِنَّاسَةٌ سُئِلَ سَمَاءٌ بَرِيءٌ سُوءٌ بَدءٌ شَيءٍ شَيئًا سَاءَلَ مَسَأَلَّةٌ سَوَأًةٌ خَطِيئَةٌ جَاءَ ridA'uN $rid\bar{a}$ 'un ridA'aN $rid\bar{a}$ 'an jI'a $g\bar{v}$ a radI'iN $rad\bar{v}$ in .daw'uN daw'un qay'iN qay'in .zim'aN zim'an yatasA'alUna $yatas\bar{a}$ ·al \bar{u} na 'a'dA'akum 'a'd \bar{a} -akum 'a'dA'ikum 'a'd \bar{a} -akum 'a'dA'ikum 'a'd \bar{a} -akum 'a'dA'ikum 'a'd \bar{a} -akum 'a'dA'ikum 'a'd \bar{a} -akum ''a'd \bar{a} -akum 'a'd \bar{a} -akum ''''''''''''''

رِدَاءٌ رِدَاءً حِيءَ رَدِيءٍ ضَوءٌ قَيءٍ ظِمنًا يَتَسَاءَلُونَ أَعدَاءً كُمُ أَعدَاؤُكُم مَقرُوءَة مُوبَبَات taw'am tawam yas'alu yas'alu 'a.sdiq^A'uh_u 'aṣdiqā'uhū ya^g^I'u yaǧī'u s^U'ila $s\bar{u}$ ila

تَواَّم يَساَّلُ أَصدِقَآؤُهُ يَحِيْءُ سُوْئِلَ

¹ http://ufal.mff.cuni.cz/~smrz/ICFP2006/icfp-encode.pdf#page=10

²http://mirrors.ctan.org/macros/xetex/latex/arabxetex/arabxetex.pdf#page=6