

Ethiopic MZU Text to Unicode (3.1.6)

Works on selection(s). If there is no selection, the whole document will be converted.

When the whole document is converted, the macro will save the frontmost document as a temporary file and convert it. If the original document has unsaved changes, you will be asked how to proceed: "Save & Continue" or "Ignore & Continue" (ignore unsaved changes which will be lost). If you want to stop the macro, hit "Stop Macro" button.

When `$changeFont` is set to 'true', the converted text will be in the font defined as `$newFont` (you can use your favourite font by changing the font name). To disable the changement, set `$changeFont` to 'false'.

When `$usePerl` is set to 'true', perl will be used for the conversion. It is faster but style attributes such as Italic, underline, etc. will be lost. To use a slower and attributes-preservative conversion, set to 'false'.

```
$changeFont = true # If you want to change the font, change the value from false
to true
$newFont = 'Visual Geez Unicode'
$usePerl = true
```

Require Application Version '3.1'

Debug.setDestination 'none'

`$doc = Document.active`

`$startTime = Date.now`

`$MZUText2Uni = Hash.new`

`$MZUText2Uni{'lWa'} = Cast to String "\x{120F}"`

`$MZUText2Uni{'HWa'} = Cast to String "\x{1217}"`

`$MZUText2Uni{'mWA'} = Cast to String "\x{121F}"`

`$MZUText2Uni{'mWa'} = Cast to String "\x{1359}"`

`$MZUText2Uni{'MWA'} = Cast to String "\x{1227}"`

`$MZUText2Uni{'rWi'} = Cast to String "\x{1358}"`

`$MZUText2Uni{'rWA'} = Cast to String "\x{122F}"`

`$MZUText2Uni{'sWA'} = Cast to String "\x{1237}"`

`$MZUText2Uni{'SWA'} = Cast to String "\x{123F}"`

\$MZUText2Uni{'qWa'} = Cast to String "\x{1248}"
\$MZUText2Uni{'qWi'} = Cast to String "\x{124A}"
\$MZUText2Uni{'qWA'} = Cast to String "\x{124B}"
\$MZUText2Uni{'qWe'} = Cast to String "\x{124C}"
\$MZUText2Uni{'qWj'} = Cast to String "\x{124D}"
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\$MZUText2Uni{'QWi'} = Cast to String "\x{125A}"
\$MZUText2Uni{'QWA'} = Cast to String "\x{125B}"
\$MZUText2Uni{'QWe'} = Cast to String "\x{125C}"
\$MZUText2Uni{'QWj'} = Cast to String "\x{125D}"
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\$MZUText2Uni{'bWa'} = Cast to String "\x{1267}"
\$MZUText2Uni{'tWA'} = Cast to String "\x{1277}"
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\$MZUText2Uni{'XWA'} = Cast to String "\x{128B}"
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\$MZUText2Uni{'KWA'} = Cast to String "\x{12C3}"
\$MZUText2Uni{'KWe'} = Cast to String "\x{12C4}"
\$MZUText2Uni{'KWa'} = Cast to String "\x{12C5}"
\$MZUText2Uni{'zWA'} = Cast to String "\x{12DF}"
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\$MZUText2Uni{'DWA'} = Cast to String "\x{1307}"
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\$MZUText2Uni{'ce'} = Cast to String "\x{1324}"
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\$MZUText2Uni{'xj'} = Cast to String "\x{133D}"
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\$MZUText2Uni{'Gj'} = Cast to String "\x{1345}"
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\$MZUText2Uni{'fA'} = Cast to String "\x{134B}"
\$MZUText2Uni{'fe'} = Cast to String "\x{134C}"
\$MZUText2Uni{'fj'} = Cast to String "\x{134D}"
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\$MZUText2Uni{'pa'} = Cast to String "\x{1350}"
\$MZUText2Uni{'pu'} = Cast to String "\x{1351}"
\$MZUText2Uni{'pi'} = Cast to String "\x{1352}"
\$MZUText2Uni{'pA'} = Cast to String "\x{1353}"
\$MZUText2Uni{'pe'} = Cast to String "\x{1354}"

```

$MZUText2Uni{'po'} = Cast to String "\x{1356}"
$MZUText2Uni{':'} = Cast to String "\x{1361}"
$MZUText2Uni{'.'} = Cast to String "\x{1362}"
$MZUText2Uni{','} = Cast to String "\x{1363}"
$MZUText2Uni{';'} = Cast to String "\x{1364}"
$MZUText2Uni{'1+'} = Cast to String "\x{1369}"
$MZUText2Uni{'2+'} = Cast to String "\x{136A}"
$MZUText2Uni{'3+'} = Cast to String "\x{136B}"
$MZUText2Uni{'4+'} = Cast to String "\x{136C}"
$MZUText2Uni{'5+'} = Cast to String "\x{136D}"
$MZUText2Uni{'6+'} = Cast to String "\x{136E}"
$MZUText2Uni{'7+'} = Cast to String "\x{136F}"
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$MZUText2Uni{'9+'} = Cast to String "\x{1371}"
$MZUText2Uni{'10+'} = Cast to String "\x{1372}"
$MZUText2Uni{'20+'} = Cast to String "\x{1373}"
$MZUText2Uni{'30+'} = Cast to String "\x{1374}"
$MZUText2Uni{'40+'} = Cast to String "\x{1375}"
$MZUText2Uni{'50+'} = Cast to String "\x{1376}"
$MZUText2Uni{'60+'} = Cast to String "\x{1377}"
$MZUText2Uni{'70+'} = Cast to String "\x{1378}"
$MZUText2Uni{'80+'} = Cast to String "\x{1379}"
$MZUText2Uni{'90+'} = Cast to String "\x{137A}"
$MZUText2Uni{'100+'} = Cast to String "\x{137B}"
$MZUText2Uni{'10000+'} = Cast to String "\x{137C}"

```

```

$allDocument = false

```

```

if ! $doc.textSelection.length # if there is no selection of 1 or more
characters...

```

```

    Select All Document

```

```

    $allDocument = true

```

```

end

```

```

$numFound = Find All '(?x)

```

```

    (?:\b

```

```

        (?<m1>[\x20]*[BCDEGHKMNOPQSTXZbcdfghklmnpqrstwxyz]W?[Aaei.jou][\x20]*)+

```

```

        (?:\b(?:!\p{Any}))      |
        (?<m2>[\x20]**(?:10000|100|[1-9]0?)[\x20]**\b\+)|
        \b(\g<m1>|\g<m2>)+[\x20]**(?:\g<m1>|\g<m2>)+\b
    )
    [.,:;]*[\x20]*
    ', 'Es-i'

if ! $numFound
    Exit 'No MZU notation found in the selection(s), exit...'
end

if $allDocument == true
    $path = $pathCopy = $doc.filePath
    if $path == undefined
        $pathCopy = '/tmp/unsavedfile.rtf'
    elseif $doc.hasChanges
        $message = 'This document has unsaved changes.'
        $detail = 'If you choose "Ignore & Continue", unsaved changes will not be
lost from this document.'
        $defaultButton = 'Save & Continue'
        $otherButton = 'Ignore & Continue'
        $userInput = Prompt $message, $detail, $defaultButton, $otherButton
        if $userInput == $defaultButton
            Save
        end
    end
end

$fileName = $pathCopy.lastFilePathComponentWithoutExtension
Set Exported Perl Variables 'fileName'
begin Perl
    $fileName =~ s/^(converted\)(?:-\d+)?$/;/;
end

$fileName &= '(converted).'
$fileName &= $pathCopy.filePathExtension
$tempfilePath = File.temporaryPathWithName $fileName
Save As $tempfilePath
$doc.clearAndDisableUndoHistory

```

end

```
if $changeFont == true
    Set Font Name $newFont
end
```

```
$allMZUKeys = $MZUText2Uni.keys # get all keys of $MZUText2Uni and put them in
$allMZUKeys
Debug.Log $allMZUKeys
```

```
$null = Cast to String "\x00"
$selections = $doc.textSelections # get the selections and put them in $selections
(array)
$segments = $selections.count
$subtexts = $doc.selectedSubtexts # get the selected texts and put them in
$subtexts (array)
$subtexts = $subtexts.join $null # join all values of $subtexts (array) with a
null character and put them in $subtexts (variable)
```

```
if $usePerl == true
    Set Exported Perl Variables 'MZUText2Uni', 'subtexts'
    begin Perl
        $MZU = '[BCDEGHKMNOPQSTXZbcdfghklmnpqrstwxyz]W?[Aaeijou]l(?:10000|100|
[1-9]0?)\+|[,.;:]';
        $subtexts =~ s/($MZU)/exists $MZUText2Uni{$1} ? $MZUText2Uni{$1} : $1/
geo;
    end
```

```
else
    foreach $key in $allMZUKeys # for each $key (MZU notation) in $allMZUKeys,
replace $key in $subtexts with the value corresponding to the $key
        $subtexts = $subtexts.split $key # split $subtexts with a MZU notation
and put them in $subtexts (array)
        $subtexts = $subtexts.join $MZUText2Uni{$key}
        # join all texts of $subtexts with the Unicode character
corresponding to the MZU notation and put them in $subtexts (variable)
    end
```

```

end
$subtexts = $subtexts.split $null # split $subtexts with null character and put
them in $subtexts (array)

foreach $sel in reversed $selections # for each selection ($sel) in $selections
(array) in reverse order...
    $unicodeText = $subtexts.pop # remove the last value of $subtexts (array) and
put it in $unicodeText
    $sel.text.replaceInRange $sel.range, $unicodeText # replace this selection
with $unicodeText
end

if $allDocument == true
    $finishTime = Date.now
    $seconds = $finishTime.secondsSinceUnixEpoch -
$startTime.secondsSinceUnixEpoch
    $message = 'Finished in '
    $minutes = Cast to Int $seconds / 60, false
    if $minutes
        $message &= "$minutes m "
    end
    $seconds = $seconds % 60
    $message &= "$seconds s ($segments segments)"
    $detail = 'This is a temporary file. If you want to keep it, save it somewhere
in your home.'
    if $path == undefined
        Prompt $message, $detail
    else
        $defaultButton = 'Do nothing'
        $otherButton = 'Open the original'
        $userInput = Prompt $message, $detail, $defaultButton, $otherButton
        if $userInput == $otherButton
            Open $path
        end
    end
end
end

```

end of macro