

Ethiopic MZU Entities 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'

```
$doc = Document.active
```

```
$startTime = Date.now
```

```
$MZUEnt2Uni = Hash.new
```

```
$MZUEnt2Uni{'&ha;'} = Cast to String "\x{1200}"
```

```
$MZUEnt2Uni{'&hu;'} = Cast to String "\x{1201}"
```

```
$MZUEnt2Uni{'&hi;'} = Cast to String "\x{1202}"
```

```
$MZUEnt2Uni{'&hA;'} = Cast to String "\x{1203}"
```

```
$MZUEnt2Uni{'&he;'} = Cast to String "\x{1204}"
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```
$MZUEnt2Uni{'&hj;'} = Cast to String "\x{1205}"
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```
$MZUEnt2Uni{'&ho;'} = Cast to String "\x{1206}"
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```
$MZUEnt2Uni{'&la;'} = Cast to String "\x{1208}"
```

```
$MZUEnt2Uni{'&lu;'} = Cast to String "\x{1209}"
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```
$MZUEnt2Uni{'&li;'} = Cast to String "\x{120A}"
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\$MZUEnt2Uni{'&lA;'} = Cast to String "\x{120B}"
\$MZUEnt2Uni{'≤'} = Cast to String "\x{120C}"
\$MZUEnt2Uni{'&lj;'} = Cast to String "\x{120D}"
\$MZUEnt2Uni{'&lo;'} = Cast to String "\x{120E}"
\$MZUEnt2Uni{'&lWa;'} = Cast to String "\x{120F}"
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$MZUEnt2Uni{'&digit5;'} = Cast to String "\x{136D}"
$MZUEnt2Uni{'&digit6;'} = Cast to String "\x{136E}"
$MZUEnt2Uni{'&digit7;'} = Cast to String "\x{136F}"
$MZUEnt2Uni{'&digit8;'} = Cast to String "\x{1370}"
$MZUEnt2Uni{'&digit9;'} = Cast to String "\x{1371}"
$MZUEnt2Uni{'&digit10;'} = Cast to String "\x{1372}"
$MZUEnt2Uni{'&digit20;'} = Cast to String "\x{1373}"
$MZUEnt2Uni{'&digit30;'} = Cast to String "\x{1374}"
$MZUEnt2Uni{'&digit40;'} = Cast to String "\x{1375}"
$MZUEnt2Uni{'&digit50;'} = Cast to String "\x{1376}"
$MZUEnt2Uni{'&digit60;'} = Cast to String "\x{1377}"
$MZUEnt2Uni{'&digit70;'} = Cast to String "\x{1378}"
$MZUEnt2Uni{'&digit80;'} = Cast to String "\x{1379}"
$MZUEnt2Uni{'&digit90;'} = Cast to String "\x{137A}"
$MZUEnt2Uni{'&digit100;'} = Cast to String "\x{137B}"
$MZUEnt2Uni{'&digit10000;'} = Cast to String "\x{137C}"
$MZUEnt2Uni{'&aeth_worttr;'} = Cast to String "\x{1361}"
$MZUEnt2Uni{'&aeth_punkt;'} = Cast to String "\x{1362}"
$MZUEnt2Uni{'&aeth_komma;'} = Cast to String "\x{1363}"
$MZUEnt2Uni{'&aeth_semikolon;'} = Cast to String "\x{1364}"

```

```

$allDocument = false

```

```

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

```

```

    Select All Document

```

```

    $allDocument = true

```

```

end

```

```

$MZUEntities = $MZUEnt2Uni.keys.join '|'

```

```

    # to construct a find expression matcing all MZU entities, join all keys with
    | (OR operator)

```

```

$findMZUEntities = "(?<mzuent>(?:$MZUEntities)+)(?:\\s+\\g<mzuent>)*" # enclose

```

the expression with "(?:" and ")+"

```
$numFound = Find All $findMZUEntities, 'E-is' # PoweFindPro, case-sensitive, in  
selections
```

```
if ! $numFound
```

```
    Exit 'No MZU entity found in the selection(s), exit...'
```

```
end
```

```
$path = $pathCopy = $doc.filePath
```

```
if $allDocument == true
```

```
    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
```

```
    $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

if $usePerl == true
    $selections = $doc.textSelections # get the selections and put them in
    $selections (array)
    $segments = $selections.count
    $subtexts = $doc.selectedSubtexts.join "\x00"
    Set Exported Perl Variables 'MZUEnt2Uni', 'subtexts'
    begin Perl
        $ent = '&[^;]+;';
        $subtexts =~ s/($ent)/exists $MZUEnt2Uni{$1} ? $MZUEnt2Uni{$1} : $1/geo;
    end
    $subtexts = $subtexts.split "\x00"
    foreach $sel in reversed $selections
        $sel.text.replaceInRange $sel.range, $subtexts.pop
    end
else
    Find All '\S+', 'Es'
    # Exclude white space characters from the selections so that they consist
    of MZU entities exclusively

    $selections = $doc.textSelections # get the selections and put them in
    $selections (array)

    foreach $sel in reversed $selections # process each selection ($sel) in
    $selections one by one in reverse order
        $entities = $sel.subtext.split ';&'
        $joiner = Cast to String ";\x{00}&"
        $entities = $entities.join $joiner
        $entities = $entities.split "\x{00}"
        # split entities in $sel with null character and put them in
    $entities (array)
        $c = $entities.count # get the total number of values in $entities and
        put it in $c

```

```

    $i = 0 # Initialize $i (variable)
    $unicodeText = '' # Initialize $unicodeText (variable)
    while $i < $c
        # process each value (an entity) of $entities one by one
        # ($entities[0], $entities[1] ... $entities[$c-1])
        $unicodeText &= $MZUEnt2Uni{$entities[$i]}
        # get the value of $MZUEnt2Uni (conversion map) corresponding
to $entities[$i]
        # and append it to $unicodeText
        $i += 1
    end
    $sel.text.replaceInRange $sel.range, $unicodeText # replace $sel with
$unicodeText
end
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 of macro ###
```