



Using resources with regex in memoQ

... all the power & NONE of the syntax!
(Winter Translation Forum '23)

Today's topics

1

Regex in memoQ

- What good is it?
- Where can it be used?
- Syntax vs. application

2

Getting started: the RA library

- Regex Assistant "anatomy"
- Navigation & features
- Live examples ("demoQ")

3

More resources

- Web tools
- memoQuickies Resource Camp
- People & places

4

Open Q&A

- Questions
-
- 

Why are regular expressions useful?

A description language for handling patterned text

C₂H₅OH 3.520 g £3.50 €24.2bn USD 24,000

25 November 2020 / June 23rd 2015 2:15 p.m., 2:15 PM, 14h15, 14:15

Shiau v. U.S. Dep't of Agric., 895 F.2d 1410 (2d Cir. 1989).

In **memoQ**

- Better segmentation
- New or better import filters
- “Tagging” text to protect it
- Placeable translation suggestions
- Filtering source + target
- Find & replace
 - >> dialog
 - >> external automation tool
- QA profile checks
- Easy-to-use **library**

Priorities for problem-solving

You DO NOT need to	<u>You</u> DO need to
Know how to write regular expressions.	Know how to use regular expressions to your advantage and be aware of the possibilities they offer.
Know what the characters mean by heart.	Identify situations where regular expressions could be applied.

Priorities for planning & expert assistance

Describe the “problem” to be solved clearly

- What kind of information and for what purpose?
- Comprehensive examples, including exceptions and errors
- Solution use (find? fix? source/target? what feature fits best?)
- Is there a need for precision (date validation, etc.)?

ChatGPT won't help!!!

Example: admission price info in *target* text. Correct all the myriad formats in the DeepL MT spew to €X.XX

€ X.XX €X,XX EUR X,XX X.XX€ X,XX euros X.XX EUR

• Want “screening filters”, find&replace regexes, auto-translation

memoQ modules with regex



Rx

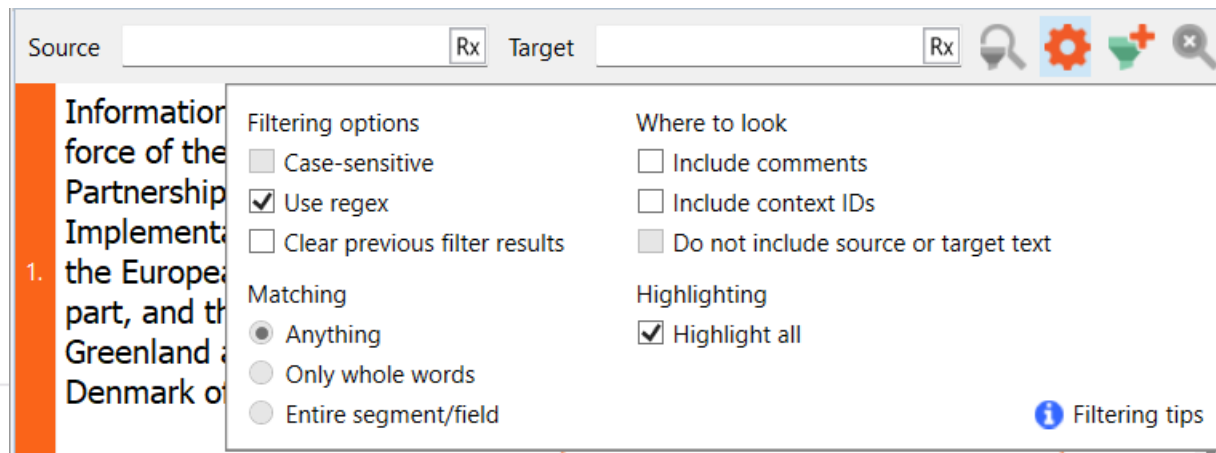
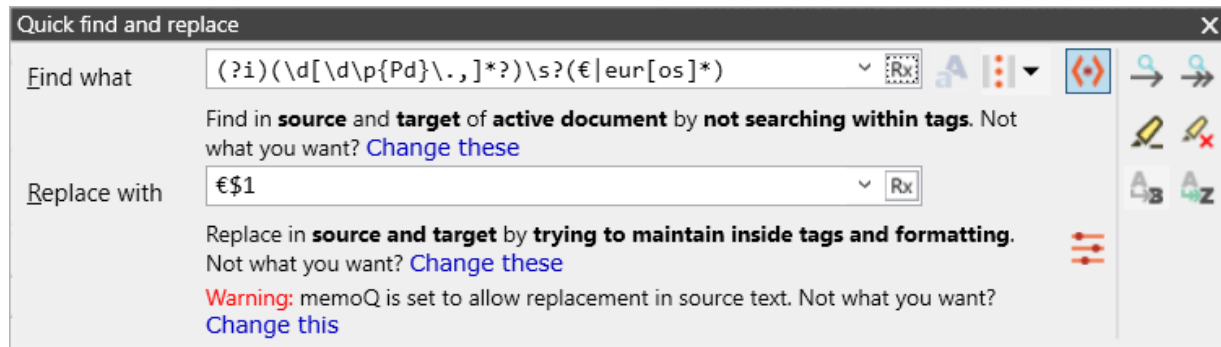
- Segmentation rules
- Filters: Regex Text, ZIP, etc.
- Regex Tagger (can be saved for cascading filters)
- Auto-translation rules
- QA profiles

PLUGANDPLAY

memoQ modules with regex

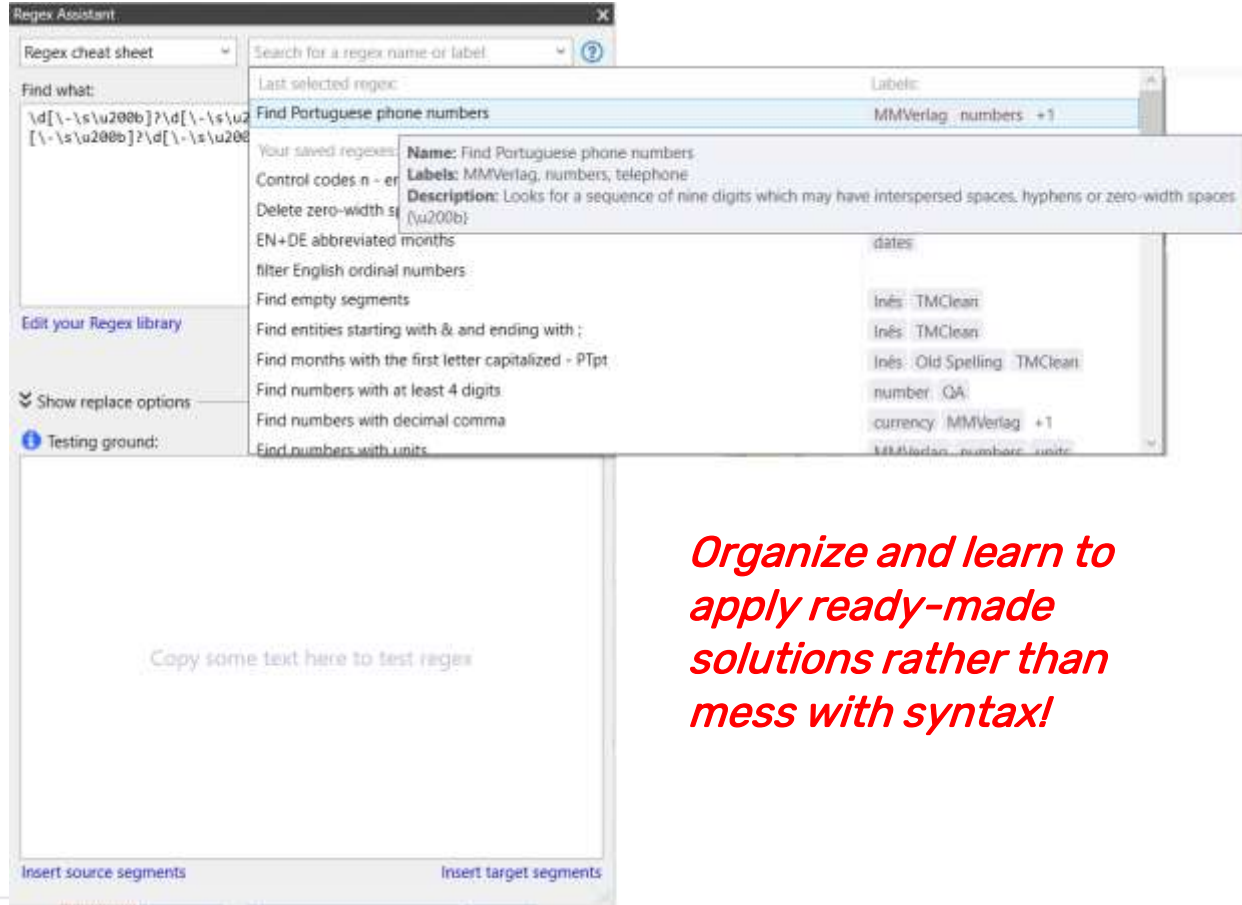
Working grid (filter fields)

Find & Replace dialogs



Regex Assistant

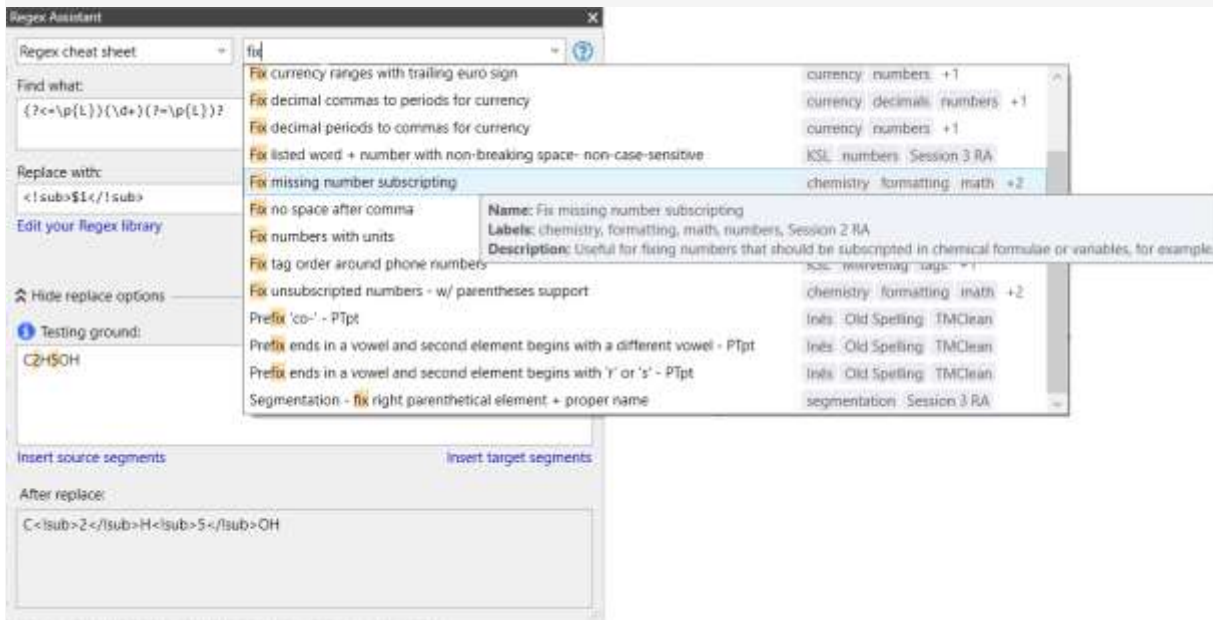
A built-in library for managing regex info with plain language names, labels and descriptions



Organize and learn to apply ready-made solutions rather than mess with syntax!



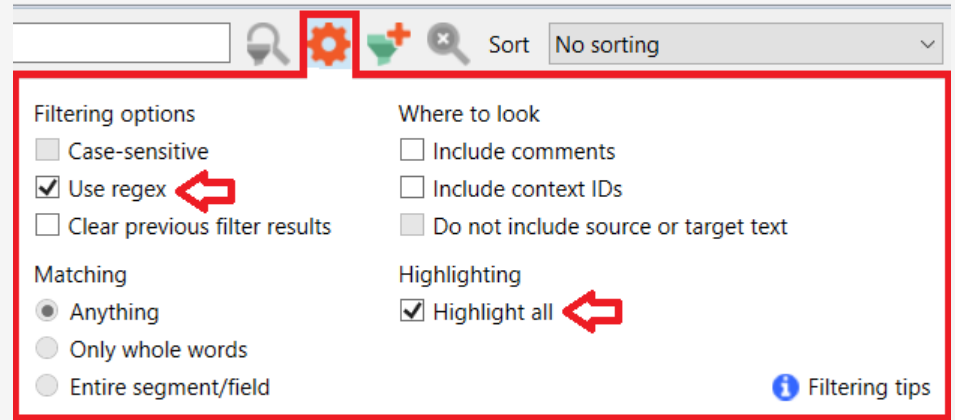
The Regex Assistant

The Rx logo, consisting of the letters 'R' and 'x' in a stylized, pixelated font, enclosed in a white square with a grey border.

*Access &
Features*

The Regex Assistant for filtering in the Translation & Editing Grid

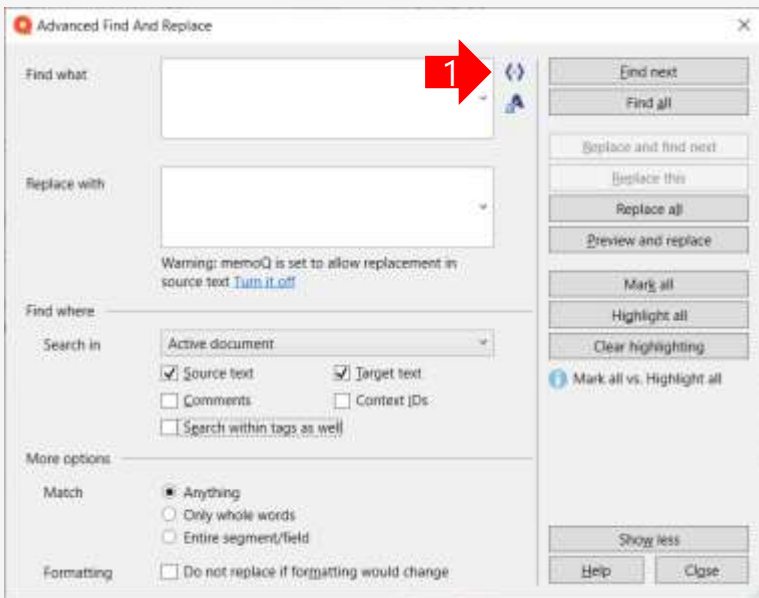
1 Settings > Use regex



2 Click the Regex Assistant icon!



The Regex Assistant for the Find & Replace dialogs (1 of 2)



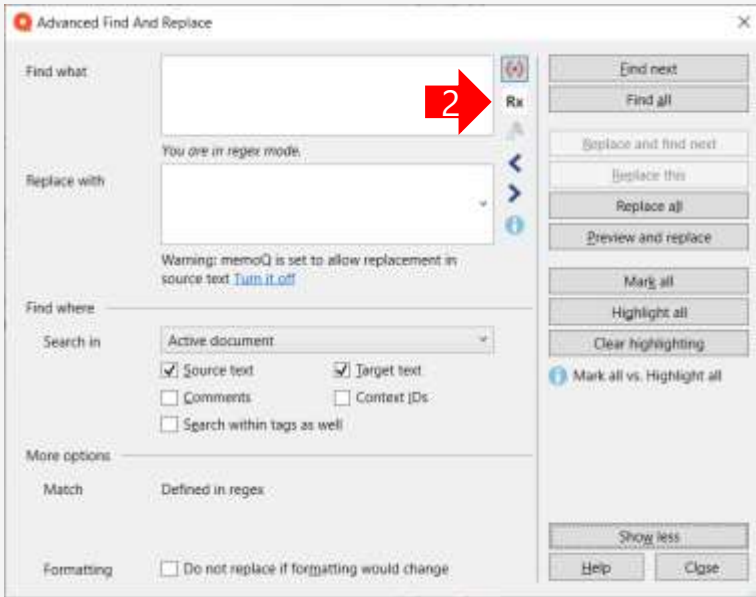
1 Click the blue icon to turn on the use of regular expressions. It will change



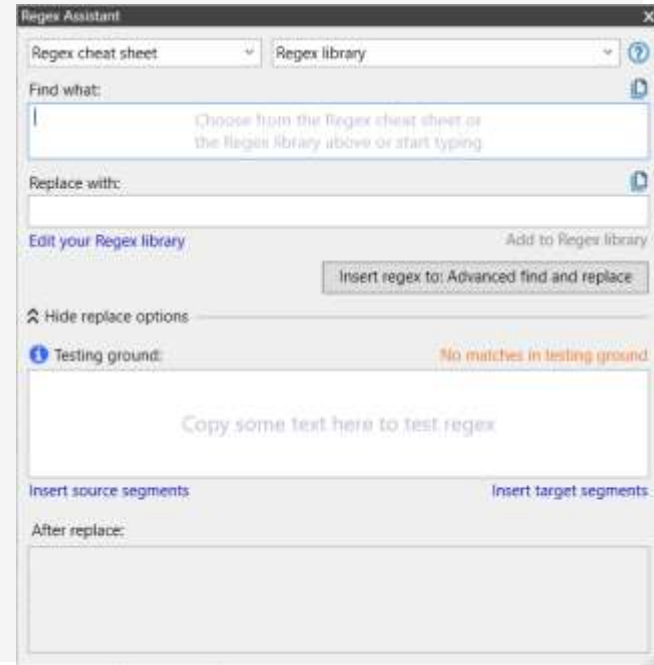
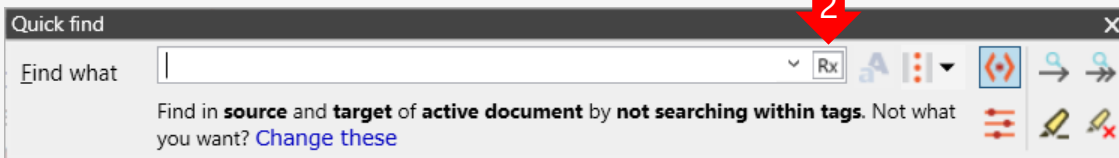
... and the Regex Assistant icon will appear in the dialog.



The Regex Assistant for the Find & Replace dialogs (2 of 2)



2 Click the Regex Assistant icon



"Anatomy" of the memoQ Regex Assistant

Rx

The screenshot displays the 'Regex Assistant' window with the following configuration:

- Regex cheat sheet:** trailing
- Find what:** `{?1}\d[\d\-\.\.]*?)\s?(€|eur`
- Replace with:** `€$1`
- Testing ground:** 3€, 12.50 EUR, 9.99 euros
- After replace:** €3, €12.50, €9.99

A tooltip is visible over the 'trailing' label in the 'Find what' field, providing details about the saved regex:

- Name:** Fix currency ranges with trailing euro sign
- Labels:** currency, numbers
- Description:** For changing stuff like 5 € or 3.70-6.50 € to €5, €3.70-6.50 and so on

"Anatomy" of the memoQ Regex Assistant

Rx

The screenshot displays the 'Regex Assistant' window in memoQ. The 'Find what:' field contains the regex `(?1)(\d[\d\p{Pd}\.,]*)\s?(€|eur[os]*)`. The 'Replace with:' field contains `€$1`. Below, the 'Testing ground:' shows a list of currency strings: '3€', '12.50 EUR', '9.99 euros', '3.50-8.00 €', and '1,50 Euro'. The 'After replace:' section shows the results: '€3', '€12.50', '€9.99', '€3.50-8.00', and '€1,50'. An 'Add to regex library' dialog box is open in the foreground, prompting for a name, labels, and a description for the regex.

Regex Assistant

Regex cheat sheet | Regex library

Find what:

```
(?1)(\d[\d\p{Pd}\.,]*)\s?(€|eur[os]*)
```

Replace with:

```
€$1
```

Edit your Regex library

Insert regex to:

Hide replace options

Testing ground:

- 3€
- 12.50 EUR
- 9.99 euros
- 3.50-8.00 €
- 1,50 Euro

Insert source segments

After replace:

- €3
- €12.50
- €9.99
- €3.50-8.00
- €1,50

Add to regex library

Give your regex a name. Add labels so that you can find the regex easier. Add a description so that you remember what the regex exactly does.

Name:

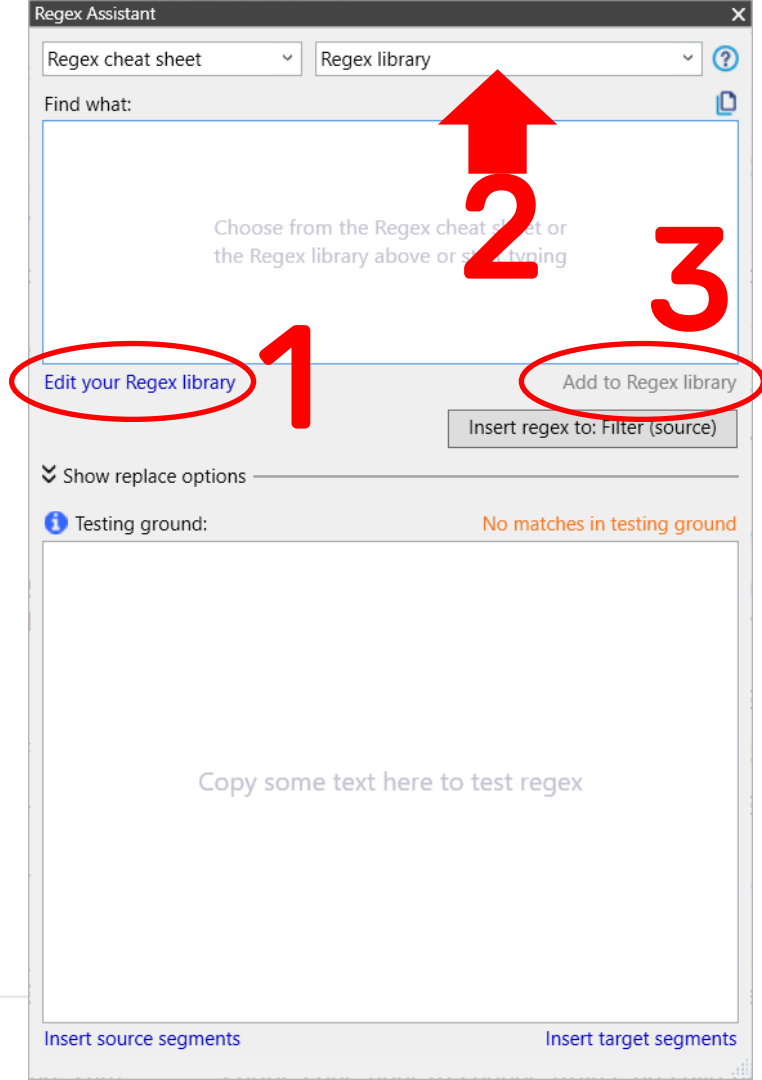
Labels (separated by commas):

Description (shown in tooltip):

Add to Library | Cancel

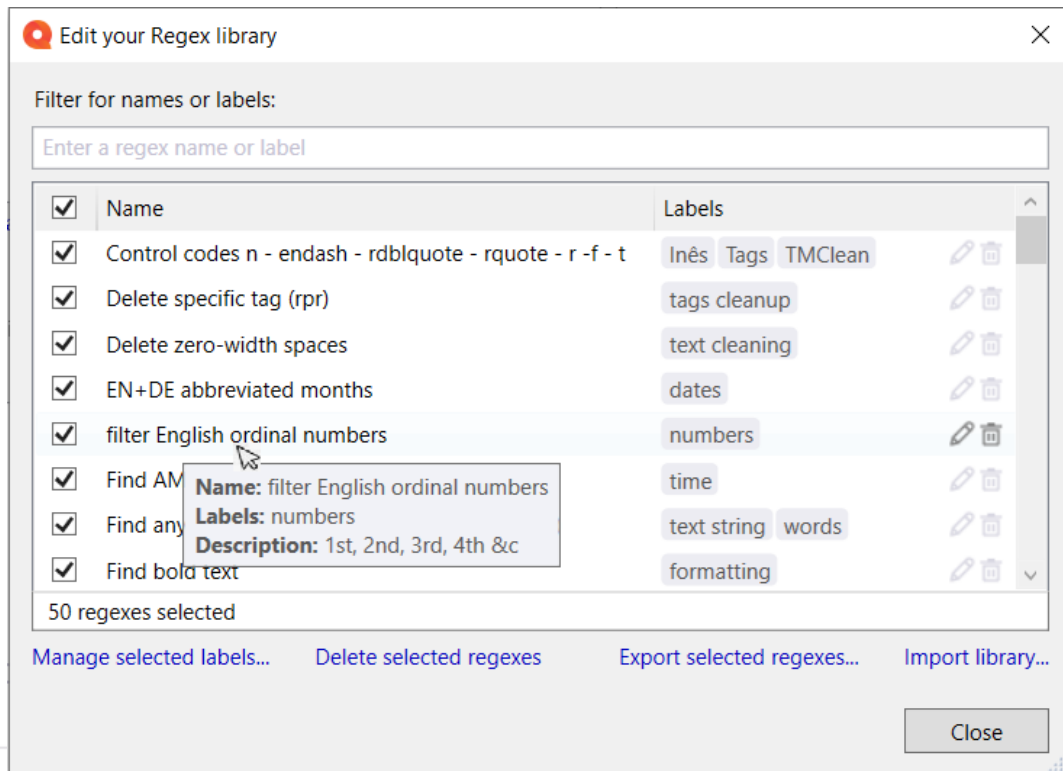
Exchange, edits & adding

1. To import or export library exchange files (XML) or change stored expressions, click *"Edit your Regex library"*.
2. Use the *"Regex library"* search field to find the stored expression you need.
3. Select/copy interesting regexes and *"Add to Regex library"*.



Exchange, edits & access

The library's editing dialog is where you select expressions to export and share, import regex collections from others, edit names, descriptions and labels, etc.



DEMO



—
*For aspiring syntax nerds and
other masochists....*

#2 Recommendation: Anthony Rudd
*Practical Usage of Regular Expressions –
An Introduction to Regexes for Translators*



Practical
Usage of
Regular
Expressions

An Introduction to
Regexes for Translators

Anthony Rudd

—
Probably more useful:

#1 Recommendation: Anthony Rudd
*Comprehensive Regular Expression
Recipes – A Practical Cookbook*

*Nearly 100 pages of “solved” common
translation text problems!*



Comprehensive
Regular
Expression
Recipes

A Practical Cookbook

Anthony Rudd



REGEX TESTER

Pattern

```
(?i)(MSCI|Bloomberg|iBoxx|Dow Jones).+?index
```

Input

This Fund seeks to achieve the environmental and social characteristics it promotes by tracking the performance of the **Bloomberg MSCI Euro Corporate 0-3 Sustainable SRI Index**, its Benchmark Index, which incorporates the index provider's ESG selection criteria.

MSCI World SRI Select Reduced Fossil Fuel Index

MSCI Japan SRI 100% Hedged to EUR Index

MSCI World Communication Services ESG Reduced Carbon Select 20 35 Capped Index

Bloomberg MSCI Euro Corporate 0-3 Sustainable SRI Index

Web resources

More reference information

Template:General Category (Unicode)

From Wikipedia, the free encyclopedia

General Category (Unicode Character Property) ^[k]					
Value	Category Major, minor	Basic type ^[h]	Character assigned ^[k]	Count ^[i] (as of 15.0)	Remarks
L, Letter: LC, Cased Letter (Lu, Ll, and Lt only)^[k]					
Lu	Letter, uppercase	Graphic	Character	1,831	
Ll	Letter, lowercase	Graphic	Character	2,233	
Lt	Letter, titlecase	Graphic	Character	31	Legatures containing uppercase followed by lowercase letters (e.g., Œ, Lj, Nj, and Oj)
Lm	Letter, modifier	Graphic	Character	207	A modifier letter
Lo	Letter, other	Graphic	Character	131,612	An ideograph or a letter in a uniaxial alphabet
P, Mark					
Ps	Mark, nonspacing	Graphic	Character	1,985	
Pc	Mark, spacing combining	Graphic	Character	452	
Pe	Mark, enclosing	Graphic	Character	13	

General categories in Unicode allow more concise expressions w/ greater scope:

[https://en.wikipedia.org/wiki/Template:General_Category_\(Unicode\)](https://en.wikipedia.org/wiki/Template:General_Category_(Unicode))

For example:

`\p{L}` instead of `[a-zA-Z]`, also covering Cyrillic, etc.

`\p{Pi}` and `\p{Pf}` for 12 initial and 10 final quotation marks respectively (excluding ASCII straight quotes)

More web tools

<https://onlineunicodetools.com/convert-unicode-to-code-points>



unicode



918111411|



code points

39 31 38 200b 31 31 31 34 31 31


Web resources

More reference information (template examples for regex)

Link to Marek's Memsources solution (Find&Replace tool example):
<http://wasaty.pl/blog/2018/01/30/memsources-files-in-memoq/>

Link to memoQ Help on the Find & Replace tool:
<https://docs.memoq.com/current/en/Places/edit-template-find-and-replace.html>

Link to my review of Marek's template book
<https://www.translationtribulations.com/2022/06/local-memoQ-templates-guide.html>




Web resources

memoQ Help:

<https://docs.memoq.com/current/en/Places/regex-assistant.html>

Lists a few places in memoQ with regex capabilities that I have not talked about, with links to the relevant Help pages:

- memoQ's ZIP filter
 - The MSG filter for e-mail
 - The Length tab on QA profiles
-
- 

Translating Regex Assistant libraries!

A configured filter has been provided for those who want to translate the names, labels and descriptions of expressions into another language.

Filter provided →



XMLConverter#Regex Assistant library
XML export.mqres

```
DA:\KSL backup Regex Assistant\2023-01-26 talk\distributed libraries\RegexLibrary KSL Session 2.xml - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window 2
RegexLibrary KSL Session 2.xml
1 <?xml version="1.0" encoding="utf-8"?>
2 <RegexLibrary xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="
  http://www.w3.org/2001/XMLSchema-instance">
3   <Items>
4     <Item>
5       <Name>Find bold text (safe version)</Name>
6       <FindRegex><!-->
7       <ReplaceRegex><!-->
8       <Labels>
9         <Label>
10          <Value>formatting</Value>
11        </Label>
12        <Label>
13          <Value>Session 2 RA</Value>
14        </Label>
15        <Label>
16          <Description>Uses memoQ's hidden format feature to highlight bold formatted text. These
17          segments can be marked for filtering. Must be used in the Find&Replace dialog.
18        </Label>
19      </Item>
20      <Item>
21        <Name>Find bold, italic and underline formats (safe version)</Name>
22        <FindRegex><!-->
23        <ReplaceRegex><!-->
24        <Labels>
25          <Label>
26            <Value>formatting</Value>
27          </Label>
28        </Labels>
29      </Item>
30    </Items>
31  </RegexLibrary>
32</pre>
```

Translating Regex Assistant libraries!

A configured filter has been provided for those who want to translate the names, labels and descriptions of expressions into another language.

Filter provided →



XMLconverter#Regex Assistant library
XML export.mqres

The screenshot shows the RegEx Assistant application window. The title bar reads 'Project home' and 'RegexLibrary Session 3 talk.xml'. The main window is divided into several sections. At the top, there are 'Source' and 'Target' input fields. Below this is a list of items with progress indicators: 'Fix listed word + number with non-breaking space - non-case-sensitive' (0%), 'numbers' (0%), 'KSL' (0%), and 'Session 3 RA' (0%). A 'View pane' section shows a description for the selected item: 'Fix listed word + number with non-breaking space - non-case-sensitive'. Below the description, there is a 'Find:' field with a regex pattern, a 'Replace:' field with '\$1 \$2', and a 'Description:' field. The status bar at the bottom shows various metrics like 'Proj (ger): 0%', 'Doc: 0%', 'TR: 0', 'R1: 0', 'R2: 0', 'Ed: 0', 'Rej: 0', 'Empty: 46', 'Pre: 0', 'Frag: 0', 'MT: 0', 'QA errors: 0', and 'Ins: Pos: 1 Length: 69 - 0 / 0 + 0'.

Project home RegexLibrary Session 3 talk.xml

Source: Target: Translation results

- 5. Fix listed word + number with non-breaking space - non-case-sensitive 0%
- 6. numbers 0%
- 7. KSL 0%
- 8. Session 3 RA 0%

View pane: Description: 0 9 X

Fix listed word + number with non-breaking space - non-case-sensitive

numbers KSL Session 3 RA

Find: (?i) (Claim|Art[\p{L}\.]+|Sect[\p{L}\.]+|Par[\p{L}\.]+)\u0020+(\d+\p{L}?)

Replace: \$1 \$2

Description:

This is the non-case sensitive version to replace ordinary spaces between listed words and numbers with non-breaking spaces

Proj (ger): 0% Doc: 0% TR: 0 R1: 0 R2: 0 Ed: 0 Rej: 0 Empty: 46 Pre: 0 Frag: 0 MT: 0 QA errors: 0 Ins: Pos: 1 Length: 69 - 0 / 0 + 0

Readable output with XSLT (1 of 3)

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"   xmlns:xsd="http://www.w3.org/2001/XMLSchema"   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
<body>
<xsl:for-each select="/RegexLibrary/Items/Item">
<H3 style="font-family:verdana;font-size:24px;font-style:bold;color:black"><xsl:value-of select="Name"/></H3>
<table border="1" valign="center" style="font-family:verdana;font-size:12px;color:green"><tr align="center">
<xsl:for-each select="Labels/Label">
  <td><xsl:value-of   select="Value"/></td>
</xsl:for-each>
</tr></table>
<span style="font-family:verdana;font-size:16px;font-style:bold;color:black">Find:</span> <span type="FindRegex" style="font-
family:courier;font-size:16px;font-style:bold;color:red"><xsl:value-of select="FindRegex"/></span><br />
<span style="font-family:verdana;font-size:16px;font-style:bold;color:black">Replace:</span> <span type="ReplaceRegex" style="font-
family:courier;font-size:16px;font-style:bold;color:red"><xsl:value-of select="ReplaceRegex"/></span><br />
<span style="font-family:verdana;font-size:16px;font-style:bold;color:black">Description:</span>
<p type="Description" style="font-family:verdana;font-size:12px;color:black">
<xsl:value-of   select="Description"/>
</p>
</xsl:for-each>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

This XSL script can also be used for a preview if translating exported Regex Assistant libraries (XML).

Readable output with XSLT (2 of 3)

The screenshot shows a web browser window with the URL `freeformatter.com/xsl-transformer.html`. The page title is "XSL Transformer - XSLT". The left sidebar lists various tools under "Formatters", "Validators", and "Converters". The main content area provides instructions for using the XSL Transformer, including a text input field for Option 1 (copy-paste XML) and a file upload section for Option 2. The "File encoding" dropdown is set to "UTF-8". Below the input fields, there is a code editor showing an XSLT template that matches the root of an XML document and outputs the root element's content as HTML.

FREEFORMATTER.COM Search tools... Free Online Tools For Developers Buy me a coffee

XSL Transformer - XSLT

Converters / XSL Transformer - XSLT

This XSL Transformer (XSLT) let's you transform an XML file using an XSL (EXtensible Stylesheet Language) file. You can also chose your indentation level if the result is an XML file.

The XSL Transformer fully supports XML namespaces, but the declarations **MUST** be explicit and **MUST** be on the root XML element of both your XML file and your XSL file. See the XSLT Examples section for details.

Option 1: Copy-paste your XML document here

Copy-paste your XML here

Option 2: Or upload your XML file

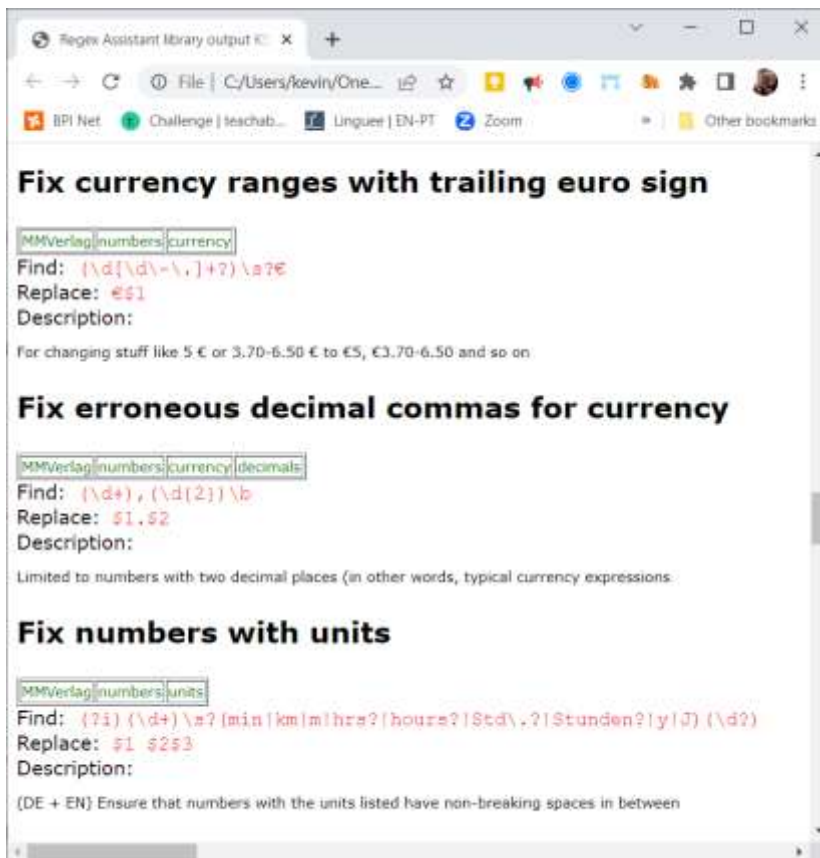
File encoding

Choose File Xmas RegexLibrary XSL.xml UTF-8

Option 1: Copy-paste your XSL document here (Optional if XSD referred in XML using schemaLocation)

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsl="http://www.w3.org/2001/XMLSchema-instance" xmlns:xi="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
```

Readable output with XSLT (3 of 3)



Regex Assistant library output

Fix currency ranges with trailing euro sign

MMVerlag|numbers|currency|

Find: `{\d{1,3}\d{0,2}\.?\d{0,2}}\s*€`

Replace: `€€1`

Description:

For changing stuff like 5 € or 3.70-6.50 € to €5, €3.70-6.50 and so on

Fix erroneous decimal commas for currency

MMVerlag|numbers|currency|decimals|

Find: `{\d+}, {\d{2}}\b`

Replace: `$1.$2`

Description:

Limited to numbers with two decimal places (in other words, typical currency expressions)

Fix numbers with units

MMVerlag|numbers|units|

Find: `{?i} {\d+} \s* (min|km|m|hrs?|houze?|Std\.?|Stunden?)y|j) (\d?)`

Replace: `$1 $2$3`

Description:

{DE + EN} Ensure that numbers with the units listed have non-breaking spaces in between

This readable list of expressions from your memoQ Regex Assistant library gives you a better overview of what you have.

Expressions in this format can be copied and pasted to use in other CAT tools such as Trados Studio, the Phrase desktop editor, etc.

XSLT can be used to create import files of regex exported from the Regex Assistant for some tools, such as TransTools+

People & places to help you

facebook

MemoQ Users

Private group · 2.7K members



When
doubt...

in

Google

it!

Online course with free resources:

memoQuickies Resource Camp (online course):

<https://transtrib-tech.teachable.com/p/memoq-resource-camp>

- Free section for this WTF '23 talk (until December 18th):

<https://transtrib-tech.teachable.com/courses/memoq-resource-camp/lectures/50698696>

- Special discounted enrollment link (until December 31st):

https://transtrib-tech.teachable.com/p/memoq-resource-camp?coupon_code=WTF23&product_id=5006468





TRANSLATION TRIBULATIONS

<http://translationtribulations.com>

Technology philosophy in *your* service



<https://www.youtube.com/@KevinLossner>



@GermanENtrans@c.im



<https://www.linkedin.com/in/kslossner/>

Thank  for your attention!