02 - Regular Expression

Samstag, 28. März 2020   19:46

Jopp fragt ständig nach weil er sich das nicht merken kann

```
Description...: Regular Expression examples for PsPad usage
First Release.: 08.02.2016 / J.Fes S.Gueth
Last Update...: 26.05.2020
```

WebSites für RegEx
http://regexhero.net/tester/   Verhalten wie .net
https://regex101.com/   gute Erklärung

Sascha ich suche via regex zeilen die z.b. CB und enum haben. wie geht das
^.*CB.*enum.*$

es gibt die Methode (Word1)|(Word2) dann bekomme ich alle Zeilen die Word1 oder Word2 haben.
Gibt es auch sowas wie (Word1) -and- (Word2)?. Das ist dann praktisch wenn ich nicht weiß wie rum des in den Zeilen steht.

Das müsste funktionieren:
(^.*CB.*enum.*$)|(^.*enum.*CB.*$)

```
Example......: 01
#New.........: 08.02.2016 17:25 / J.Fes S.Gueth
#LUp.........:
Description..: Filter ItemId / RevisionId

Find........: ^(.*?[/#].*?)[/#;].*$
Replace.....: $1

Principe....: ^            -> find from start of line
              (.*?[/#]    -> seach until first char '/' or '#' hits
              .*?)[/#;]   -> seach further until char '/' or '#' or ';' hits
              .*$         -> goto end of line


              ^(.*?[/#].*?)[/#;].*$
              |<-- $1 -->|-> not anymore in $1 in this case last '/' '#' ';' is not in $1
```

Source Data:
```
60803100PF#0#BOMView Revision#60803100PF/0-view;1;fktbabel;Unigraphics modify
Assy-latch-bearing-with-rod#0#BOMView Revision#Assy-latch-bearing-with-rod/0-view;1;wwshil;Print bar ORIGINAL
Color-Lockout-Keys-Left/0;1;wwshil;Print bar ORIGINAL
AEROSOL-ADAPTER-WITH-ORING#0#ItemRevision Master#AEROSOL-ADAPTER-WITH-ORING/0;1;wwshil;Print bar ORIGINAL
W2100255/A/UGPART/Z3;1;wkdroe;
```

Result Data:
```
60803100PF#0
Assy-latch-bearing-with-rod#0
Color-Lockout-Keys-Left/0
AEROSOL-ADAPTER-WITH-ORING#0
W2100255/A
```

```
Example......: 02
#New.........: 08.02.2016 18:11 / J.Fes
#LUp.........:
Description..: Filter ItemId and add /* on end

Find........: ^(.*?)[/#;].*$
Replace.....: $1/*

Principe....: ^            -> find from start of line
              (.*?)[/#]   -> seach until first char '/' or '#' hits
              .*$         -> goto end of line


              ^(.*?)[/#;].*$
              |-$1|-> not anymore in $1 in this case last '/' '#' ';' is not in $1
```

Source Data:
```
60803100PF#0#BOMView Revision#60803100PF/0-view;1;useryy;Unigraphics modify
Assy-latch-bearing-with-rod#0#BOMView Revision#Assy-latch-bearing-with-rod/0-view;1;wwxx;Print bar ORIGINAL
Color-Lockout-Keys-Left/0;1;wwxx;Print bar ORIGINAL
```

```
AEROSOL-ADAPTER-WITH-ORING#0#ItemRevision Master#AEROSOL-ADAPTER-WITH-ORING/0;1;wwxx;Print bar ORIGINAL
W2100255/A/UGPART/Z3;1;wkyy;


Result Data:
60803100PF/*
Assy-latch-bearing-with-rod/*
Color-Lockout-Keys-Left/*
AEROSOL-ADAPTER-WITH-ORING/*
W2100255/*
```

```
Example......: 04
#New.........: 24.08.2017 / A.Becker - J.Fes
#LUp.........:
Description..: Search if mehrere Strings in Text vorkommen Anordnung ist beliebig

Source Data:
Http: test Rechnung_hdshttpfkdsj

^(?=.*http)(?=.*rechnung).*$

Match Optioen IgnorCase Multiline Singleline
```

```
Example......: 05
#New.........: 14.11.2017 / A.Becker - J.Fes
#LUp.........:
Description..: Liste alle Zeilen die Text1 oder Text2 oder Text3 .. beinhalten

(Text1)|(Text2)|(Text3)|..(Textn)

#New: 30.04.2018 15:44
Example Parse NX.syslog Load Parts
(CONTEXT: )|(Loaded and updated part)
```

```
Example......: 06
#New.........: 28.09.2018 / J.Fes
#LUp.........:
Description..: Parse Word1 or Word2

.*?(https:\/\/)|(http:\/\/).*?

Find........: ^(.*?http:.*?)["].*$  seach until first string 'http:' or 'https:' hits
              .*?)[/"]  -> seach further until char '"'  hits
Replace.....: $1/*
```

```
Example......: 07
#New.........: 18.06.2019 / J.Fes + Sascha
#LUp.........:
Description..: Replace 124050-00_C -> 124050-00\C  or  9059_43-00\B

Find.........: ^(.*)_(.*)$
Replace......: $1/$2

Principe.....: ^           -> find from start of line
               (.*)_       -> seach until last char '_' hits and store in $1
               (.*)$       -> goto end of line store in $2

               $1/$2       -> Restore $1 + '/' + $2

Source Data:
124050-00_C
905943-00_B
9059_43-00_B

Result Data:
124050-00/C
905943-00/B
9059_43-00/B
```

```
Example......: 08
#New.........: 10.09.2019 / J.Fes + Sascha
#LUp.........:
Description..: search like *custom*.dll*
Find.........: .*custom.*\.dll.*
```

```
Example......: 09 .NET
```

```
' D:\Daten_CAD_02\ugarchiv03\sew0000042829.prt x 4'
Dim match = Regex.Match(partLine_p, "^(?<nesting>\s*)(?<name>.+)\s+x\s+(?<count>\d+)$")
Dim Count As Integer = 0
Dim Nesting As Integer = 0
Dim Name As String = ""

If match.Success Then
    Count = Integer.Parse(match.Groups("count").Value)
    Nesting = Integer.Parse(match.Groups("nesting").Value.Length)
    Name = match.Groups("name").Value
Else
    'File C:\temp\bct\bct_work\STP_STPA_STW_2015_3027.prt not found'
    match = Regex.Match(partLine_p, "^File\s(?<name>.*\.prt)\snot\sfound$")

    \s = Any White Space Blank oder Tab Return New Line
    \t = Tab

       ' Was wie oft
       ' . = genau 1 beliebige Zeichen
       '    Modifikator ? Keines oder 1 Zeichen
       '    Modifikator * Keines oder beliebig viele
       '    Modifikator + mindestens 1 oder beliebig viele Zeichen
    If match.Success Then
        Nesting = 1
        Count = 1
        Name = match.Groups("name").Value
    Else
        Return Nothing
    End If
End If
```

Example......: 10
#New.........: 12.01.2021 / J.Fes + Sascha
#LUp.........:
Description..: Parse from last WRN:Dif.Tif:/PPM:4308 Value 4308

Find.........: .*WRN:Dif.Tif:/PPM:(?<result>[0-9]*).*
Replace......: ${ result}

Principe.....: .*WRN:Dif.Tif:/PPM: -> find last char pos WRN:Dif.Tif:/PPM:
               (?<result>[0-9]*)   -> collect all next numbers into var ${ result}

Source Data: ProcessResultMsg...............: [PH:OK][MD:OK][AS:OK][DR:ERR:ViewP]
[EN25:ERR:Origin,TxtboxOri,TxtOrigin][EN26:ERR:TxtboxOri,TxtOrigin]
[DC:OK:Dif.Tif:/PPM:0/WRN:Dif.Tif:/PPM:4308][PI:OK]
Result Data: 4308

Source Data: ProcessResultMsg............: [PH:OK][MD:OK][AS:OK][DR:OK][EN25:OK][EN26:OK][DC:Tif:No.CGM]
[PI:OK]
Result Data:

Source Data: ProcessResultMsg............: [PH:OK][MD:OK][AS:WRN:CompArr.UsedArr][DR:OK][EN25:OK][EN26:OK]
[DC:OK:Dif.Tif:/PPM:0][PI:OK]
Result Data:

Example......: 11
Description..: replace
#New.........: 18.02.2021 / J.Fes
Exa Source...:   "uri": "L:\I\u00e4ttriges-kleeblatt-86439930.jpg",
Exa Source...:   "uri": "",

Find.........:   "uri":.*$
Replace......:   "uri": "",

Example......: 12
#New.........: 27.08.2021
#LUp.........:
PsPad........: find files_DPNE *.prt inc path
Find.........: ^.*File\s(.*\.prt)\snot\sfound$
Replace......: $1

SoureData:
  7: 39: File \disk2\users\cad\laub\W-Schrank\Halter.prt not found
  9: 43: File \\DE-S-0127349\cad_daten\db\UG6\GL698.-0_0.prt not found
```

```
 12: 178: File \disk2\users\cad\pfeifer\01_Zaehler\20hauptleideckel.prt not found
```

Result:
```
\disk2\users\cad\laub\W-Schrank\Halter.prt
\\DE-S-0127349\cad_daten\db\UG6\GL698.-0_0.prt
\disk2\users\cad\pfeifer\01_Zaehler\20hauptleideckel.prt
```

Example......: 13
#New.........: 27.08.2021
#LUp.........:
PsPad........: find files_NE *.prt inc path
Find.........: ^.*\\(.*\.prt).*$
Replace......: $1

SoureData:
```
  7: 39: File \disk2\users\cad\laub\W-Schrank\Halter.prt not found
  9: 43: File \\DE-S-0127349\cad_daten\db\UG6\GL698.-0_0.prt not found
 12: 178: File \disk2\users\cad\pfeifer\01_Zaehler\20hauptleideckel.prt not found
```

Result:
```
Halter.prt
GL698.-0_0.prt
20hauptleideckel.prt
```

Example......: 14
#New.........: 20.10.2021
#LUp.........:
PsPad........: Parse ItemRevision from NX.syslog via Reg Expression
Find.........: ^.*? PN=(.*?) PRN=(.*?) .*$
Replace......: $1/$2

SoureData:
```
19396: Teamcenter Integration: failed to download file in second thread for %UGMGR=V3.2 PH=knSpbOEtIrfgRD
PRH=mAmBMqMVIrfgRD PN=CAD-T3904-187 PRN=E RT="has shape" AT="UG master part file"  err 940767 - Wed Oct 20 12:29:04
2021 Mitteleuropäische Sommerzeit
```

Result CAD-T3904-187\E

Example......: 15
#New.........: 02.02.2022
#LUp.........: 02.02.2022
PsPad........: remove all
Find.........: (\r\n|\n)[\t]*'''[\t]*<value>[\s']*</value>[\t]*(\r\n|\n)
Find ....: (\r\n|\n)[\t]*'''[\t]*<remarks>[\s']*</remarks>[\t]*(\r\n|\n)
Find ....: (\r\n|\n)[\t]*'''[\t]*<returns>[\s']*</returns>[\t]*(\r\n|\n)
Replace......: $1

SoureData:

```
    ''' <summary>
    ''' ersetzt in Namen #Chr(59)# durch ;
    ''' = umkehrung von Semik_Out
    ''' </summary>
    ''' <param name="NameIn"></param>
    ''' <returns></returns>
    ''' <remarks></remarks>
    Public Shared Function Semik_Revers(ByVal NameIn As String) As String
        Return NameIn.Replace("#Chr(59)#", ";")
    End Function
```

Result

Gelbe !! Zeile ist dann weg !!
```
    ''' <summary>
    ''' ersetzt in Namen #Chr(59)# durch ;
    ''' = umkehrung von Semik_Out
    ''' </summary>
    ''' <param name="NameIn"></param>
    ''' <remarks></remarks>
    Public Shared Function Semik_Revers(ByVal NameIn As String) As String
        Return NameIn.Replace("#Chr(59)#", ";")
    End Function
```

Example......: 15
#New.........: 16.02.2022 / J.Fes
Description..: 2030207_C_master_2030207-C_#NX01prePU.xml -> 2030207_C

Find.........: ^(.*)(_master_|_altrep_).*$

```
Replace......: $1

Principe.....: ^                        -> find from start of line
              (.*)_master_|_altrep_  -> seach until last char '_' hits and store in $1
              (.*)$                   -> goto end of line

              $1                       -> Restore $1
```

Source Data:
2088391_C_master_2088391-C_#NX01prePU.xml
2088392_C_altrep_2088392-C-002_#NX01prePU.xml

Result Data:
2088391_C
2088392_C

```
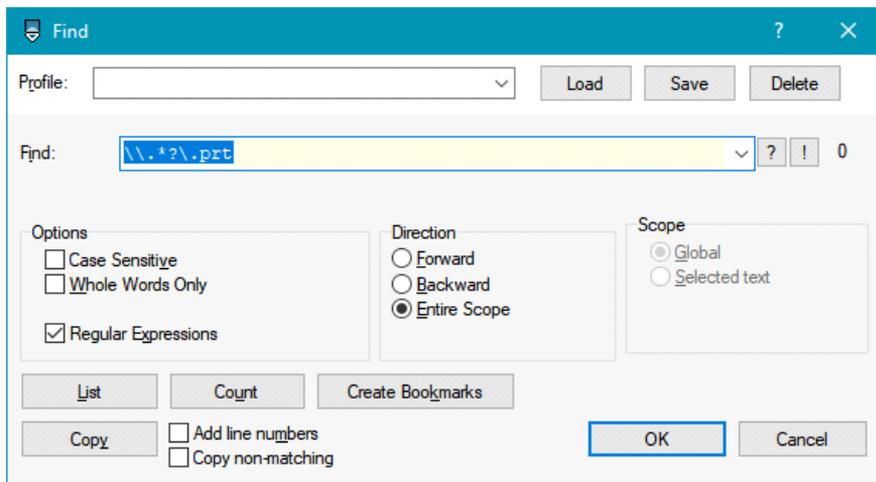Example......: 16
#New.........: 22.03.2022
#LUp.........:
PsPad........: find files_NE *.prt inc path
Find.........: \\.*?\.prt
```



```
SoureData:
  7: 39: File \disk2\users\cad\laub\W-Schrank\Halter.prt not found
  9: 43: File \\DE-S-0127349\cad_daten\db\UG6\GL698.-0_0.prt not found
 12: 178: File \disk2\users\cad\pfeifer\01_Zaehler\20hauptleideckel.prt not found

Result:
Halter.prt
GL698.-0_0.prt
20hauptleideckel.prt
```

```
Example......: 17
#New.........: 17.08.2023
#LUp.........: 17.08.2023
```

Source Data
```
 10078,45:|-> ApplInf::WRN_120_BOMAnaylse_TimeMax:  used Time:300,094>=300 [sec] max to analyse AP:[E1B100405476/A] reached!!
  731,45:  |-> ApplInf::WRN_120_BOMAnaylse_TimeMax:  used Time:300,087>=300 [sec] max to analyse AP:[E1B101131589/A] reached!!
  7323,45: |-> ApplInf::WRN_120_BOMAnaylse_TimeMax:  used Time:300,062>=300 [sec] max to analyse AP:[E1B000008373/A] reached!!
```

```
Find.........: ^(.*)\[(.*)\](.*)
Replace......: $2

Principe.....: (.*)\[              -> find from start of line until last '[' = Store in $1
              (.*)\]              -> find all chars until ']'            = Store in $2
              (.*)$               -> goto end of line                    = Store in $3
```

Result Data:
E1B100405476/A
E1B101131589/A
E1B000008373/A

```
Find.........: ^(.*?)AP:\[(.*?)\](.*)
Replace......: $2
```

```
Example......: 1?
#New.........: ??
#LUp.........:
```

```
Example......: 1?
#New.........: ??
#LUp.........:
```

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