RegEx PlugIn

RegexPlugIn is a Plug-In for <u>FileMaker</u> which enables FileMaker users to work with regular expressions.

It works with FileMaker 8 or higher on Microsoft Windows or Mac OS X on Intel (requires 10.4 or higher), both 32-bit and 64-bit.

```
+ D o w n l o a d + + + + + + +
```

RegexPlugIn is available as source and binary ZIP archives from <u>GitHub</u>. The current version is **0.3.0**.

```
+ L i c e n s e + + + + + + +
```

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```
+ S u p p o r t + + + + + + +
```

Support for **RegexPlugIn** is available via <u>GitHub issues</u>. If you have any questions or if you want to report bugs, *please* use this mailing list and don't email us directly. Thanks.

```
+ I n s t a 1 l a t i o n + + + + + + +
```

Unpack the ZIP archive. The Windows plugin is RegexPlugIn. fmx (32-bit), the Mac plugin is RegexPlugIn. fmplugin (64-bit). Put the appropriate file into the Extensions folder of FileMaker. Restart FileMaker.

If the plug-in isn't recognized by FileMaker on Windows (i.e. if it doesn't show up in FileMaker's *Preferences* dialog), chances are good that you are missing Microsoft's C++ runtime library msvcr80.dll. Most people will have it already as it is automatically installed by many other applications, but if you don't, you can get it from here.

An example FileMaker database which explains the usage of **RegexPlugIn** interactively is available<u>here</u> (.fmp12) and <u>here</u> (.fp7).

```
+ Regular Expression Syntax+++++++
```

The regular expressions used in **RegexPlugIn** are based on the <u>CL-PPCRE</u> library and are thus compatible with <u>Perl</u>. For more information see <u>https://perldoc.perl.org/perlre</u> and <u>http://edicl.github.io/cl-ppcre/</u>.

```
+ C o n f i g u r a t i o n + + + + + + +
```

On Windows you can configure (via FileMaker's *Preferences* dialog)

whether **RegexPlugIn** should cache regular expressions (this is the default setting) or not. It is almost always advisable to do that unless you have a large database where the regular expression is variable, i.e. where it is different for each record.



```
+ Technical information + + + + + + +
```

The **RegexPlugIn** was written in <u>Common Lisp</u> using the <u>LispWorks</u> development environment and the <u>FM-PLUGIN-TOOLS</u> toolkit. The regex engine used is <u>CL-PPCRE</u>.

The source code for **RegexPlugIn** is now part of <u>FM-PLUGIN-TOOLS</u>.

```
+ F u n c t i o n s + + + + + + +
```

RegexPlugIn provides the following *external* functions which can be used in FileMaker calculations:

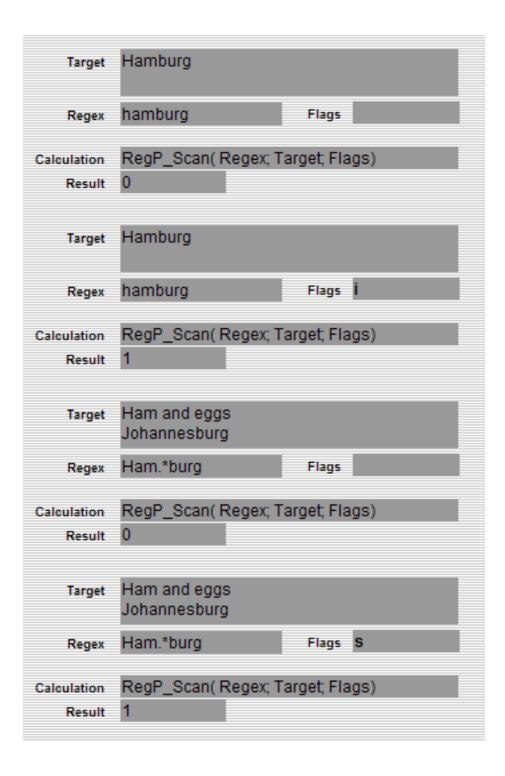
```
+ RegP_Version
```

This function simply returns the version of **RegexPlugIn** as a string.

```
Calculation RegP_Version
Result 0.1.0
```

```
+ RegP_Scan ( regex ; target {; flags} )
```

Searches the text target from start to end and tries to match the regular expression regex. Returns True(1) on success, False(0) otherwise. The optional flags argument is a string. Upon invocation of the function it is searched for the occurrence of the characters i, s, m, x. These characters have the same meaning as the modifiers in Perl, so for example if flags is "is" or "si" (or even "is" or "sis"), then the regular expression will ignore case and work in "single-line mode."



```
+ RegP_MatchStart ( regex ; target {; flags; register} )
+ RegP_MatchEnd ( regex ; target {; flags; register} )
```

These functions return the start and end positions of the matching substring within target if the regular expression matches, otherwise they return -1. The flags argument is used as <u>above</u>.

The second optional argument, register, can be the number of a register group within the regular expression in which case the start and end positions of this group are returned. Note that the first register has the number 1 and *not* 0.

Target	Hamburg
Regex	hamburg
Calculation Result	RegP_MatchStart(Regex; Target) -1
Target	Hamburg
Regex	hamburg
Calculation Result	RegP_MatchStart(Regex; Target; "i") 0
Target	Ham and eggs Johannesburg
Regex	Ham.*burg
Calculation Result	RegP_MatchEnd(Regex; Target; "s") 25
Target	Ham and eggs Johannesburg
Regex	Ham((.*)burg)
Calculation Result	RegP_MatchStart(Regex; Target; "s"; 1) 3
Target	Ham and eggs Johannesburg
Regex	Ham((.*)burg)
Calculation Result	RegP_MatchEnd(Regex; Target; "s"; 2) 21

```
+ RegP_Positions ( regex ; target {; flags ; outerPairDelimiter ; innerPairDelimiter } )
```

This function kind of combines $RegP_MatchStart$ and $RegP_MatchEnd$ (see above). If there is no match, it returns False (0). Otherwise it returns a string of the start and end positions of the match itself followed by the start and end positions of all register groups. The individual numbers are separated with the optional delimter arguments which default to | character. If a register group doesn't match, two hyphens (-) instead of two numbers are inserted into the result string.

Target	Hamburger	
Regex	hamburg	Flags
Calculation	RegP_Positions(Regex; Ta	arget; Flags)
Result	0	
Target	Hamburger	
Regex	hamburg	Flags į
Calculation Result	RegP_Positions(Regex; Ta 0 7	arget; Flags)
Target	Ham and eggs Johannesburg	
Regex	Ham(.*)burg	Flags S
Calculation Result	RegP_Positions(Regex; Ta 0 25 3 21	arget; Flags)
Target	Ham and eggs Johannesburg	
Regex	Ham(.*)(?:burg)	Flags S
Calculation Result	RegP_Positions(Regex; Ta 0 25 3 21	arget; Flags)
Target	Ham and eggs Johannesburg	
Regex	Ham.*(and) (eggs).*burg	Flags S
Calculation Result	RegP_Positions(Regex; Ta 0 7 4 7 - -	arget; Flags)

```
+ RegP_Replace ( regex ; target ; replacement {; flags} )
+ RegP_ReplaceOne ( regex ; target ; replacement {; flags} )
```

 $RegP_Replace$ returns the text target with all substrings that match regex replaced with replacement. replacement can contain the special substrings $\$ for the whole match, $\$ for the part of target before the match, $\$ for the part of target after the match, or $\$ N or $\$ N or $\$ for the Nth register group where $\$ is a positive integer.

RegP_ReplaceOne is similar but replaces only the first match.

The flags argument is used as <u>above</u>. Furthermore, if the flags argument contains an e, then the replacement result is searched for sequences that look like flags where . . . can be anything that doesn't contain the flags character. These sequences will be replaced by the result of evaluating . . . in FileMaker as with the function flags argument contains an flags where . . . can be anything that doesn't contain the flags character. These sequences will be replaced by the result of evaluating . . . in FileMaker as with the function flags argument contains an flags where flags is flags.

RegP_Replace and RegP_ReplaceOne will usually conserve character styles, i.e. if the first four characters of the target string are red and bold, then the first four characters of the replacement result will also be red and bold unless they are replaced. However, if the flags argument contains a c, then the special sequences like $\ 1$ or $\ 1$ in replacement determine the character style, i.e. if $\ 1$ is in italics and green, then what will be substituted for $\ 1$ will also be in italics and green. In addition, if flags also contains an $\ 6$ (see last paragraph), then the character style of the $\ 5$ { . . . } sequence determines the character style of the evaluation result.

Target Full name: {{FirstName} } {{LastName} } {{Calculation RegP_Replace(Regex; Target; Replacement; Flags)} {{Calculation RegP_Replace(Regex; Target; Replacement; Flags)} {{Calculation Result Full name: \${FirstName} } {{LastName}} {{Calculation RegP_Replace(Regex; Target; Replacement; Flags)} {{LastName}} {{Regex {{((.*?))}} Replacement } {{1}} Flags } {{Endition RegP_Replace(Regex; Target; Replacement; Flags)} {{Endition Result Full name: Donald Duck}} {{Endition RegP_Replace(Regex; Target; Replacement; Flags)} {{Endition Regex {{((.*?))}} Replacement } {{Endition Regex {{((.*?))}} Replacement } {{Endition RegP_Replace(Regex; Target; Replacement; Flags)} {{Endition RegP_Replace(Regex; Target; Replacement; Flags)} {{Endition RegP_Replace(Regex; Target; Replacement; Flags)} {{Endition Regex {{((.*?))}} Replacement Flags } {{Endition Regex {{((.*?))}} Replacement Flags } {{Endition Regex {{((.*?))}} Replacement Flags } {{Endition RegP_Replace(Regex; Target; "\${TextColorRemove(\1)}", "e")} {{Endition Result Full name: Donald Duck} {{Endition Result Full name: Donald Duck} {{Endition Regex {{((.*?))}} Replacement } {{Endition Regex {{Endition Reg		
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```
+ RegP_GetText ( regex ; target {; flags ; registers } )
+
extracts the first match of pattern regex in target string
+ RegP_GetTextAll ( regex ; target {; separationstring ; flags ; registers } )
+
extracts ALL matches of pattern regex in target string separated by 'separationstring'.
```