Regexes-and-Rules

Introducción a "Regexes and Rules" Synopsis 05, Perl6

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Historia

Un poco de historia para rellenar.

Apocalipsis => Sinopsis

Exégesis

Sinopsis S05

Título:

Synopsis 05: Regexes and Rules

66 paginas

Sinopsis S05

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Un poco más

- Perl 5 y perl6 son dos lenguajes diferentes, con una sintasis y semantica diferente, pero es que Perl:
- Filosofía: "hay más de un camino para hacerlo", " las cosas faciles..."
- Esructura (idioma, test...)
- Un edificio: Cpan.
- Una comunidad.
- Distintas implementaciones de perl. (Pugs, Rakudo, Elf, KindaPerl6, v6.pm,SMOP, STP.pm
- Rosseta code: http://rosettacode.org/wiki/Category:Perl_6

"Perl programmers tend to be lazy"

Una parada

- Espacios
- ~
 - Como operador.
 - Como operador binario.

Periodic Table of the Operators SPNOPSIS May this simple presentation with I varions illustrative devices increase Being a comprehensive and complete enumeration of the Operatic Elements Knowledge & Understanding amongot practitioners in the art of Software of the Perl 6 Language, assembled and drawn with dedication and biligence by M. Lentezner as a service to both the Community and the Republic. Forthwith the Third Edition, February 14th, Two Thousand Nine Comic EXEGESIS IV VI XIII XXIV VII VIII XII XVII XIX XX XXI Noble Metaops WW WW WW WW WW WW In,R 17 In,X 20 Pr 21 Pr * In Xop [op] reduction op« »op« Rop !op op= Mechanicals [\op] >OP «OP« hyper hyper dwim left »op» In,C 13 In.L 5 In.L In.N 12 In.C 13 In,C 13 In,R 17 In,X 19 In,X 20 hyper dwim right i div mod xx cmp before eqv after => 🕯 p5=> X imaginary generic divide generic generic less «Op» hyper dwim all 2 In.R 13 In.C 13 In.C 13 In.C 13 In.C 13 In.C 13 19 In,X 20 In,R 21 In,X 24 In,X 24 In.R ++ -numeric equal <== ==>
feed feed forward <= >= > != **Z** zip = list pre- pre-increment decrement multiply In,X 24 In,X 24 | 1t | 1e | eq | ge | gt | ne | string post-decremen +> 1t .= <<== ==>> minmax operators has significantly increased. They are now spelled differently than they were in ancient times: mutating method call In,R 17 seeking seeking feed back feed fwd www.constants they were in ancient time

concatenate
append
ameth
ampend
method call
+> or ~> left shift
right shift
pattern match
apted pat, match
??!!! conditional 5 In,L In,X 20 value container identity In,C 13 x ~ string string repetition concater := run-time binding In,R 17 4 Pr 4 Pr 1 boolean boolean complement negate ~~ ::= compile-time binding .me .^me
method metamethod method ‡ 1 Po In,X 10 In,X 15 Po 18 In X 23 ^^ .?me .*me .+me ?? !! :adv one junctive code context xor junctive one 9 In,X 10 Pr 16 In,R Junctive any unary § role mixin inclusive • = upto iterate any die exception !me .^!me 33 11 min ff fff true not all \$ item or ort-circuit shor stub junctive all test for truth ort-cin but 12 In,N 21 Pr 21 Pr 11 max ^ff ^fff none warn ??? junctive exception stub .=me also list andthen orelse flip-flop excl. start excl. start In,R 16 In,R 16 :iffy can be used with !op :diffy can't be used with op= or [op] :fiddly can't be used with any metaop range excl. start In,N 12 mutating method 21 Pr ff^ fff^ fail @@ slice Precedence In,L 5 (lower = tighter) flip-flop sed flip-flop excl. end excl. end These dotted operators must be followed by a method name, a postfix operator, or **¬8** Symbol key example Name ^ff^ ^fff^ 8 print hash flip-flop sed flip-flop exclusive named listops § one of the post-circumfixes: In - Infix
Pr - Prefix
Po - Postfix
Te - Ternary L - Left R - Right N - None C - Chaining X - List **Transmissives** Philosophics * - Metaops that take on precedence and associativity of enclosed on. Raveler. Onic § The named unary and named listop entries represent a vast expanse of alphabetically named functions, Messrs. Adams & Wall are leading IV XIX XII XIV XVXVI XVIII XXI the expedition to uncover the exotic properties and extent of this range. Please see their dispatches to the Republic entitled "Synopsis 29: Builtin Functions"

• Diferencia.

- No se utiliza ni PCRE (Perl compatible Regular Espressions) ni POSIX (Portable Operating System Interface for Unix).
- Regex: expresiones regulares, como patrones de busqueda.

- Explicación, buscando patrones
- Síntasis más clara.
- Necesidad de capturar y encontrar objetos.
- Nombrando "regexes" y "grammars"

Tablas.

Modificadores.

• Sustitución.

```
my $spacey = 'with many spaces';`
say $spacey.subst(rx/ \s+/, ",:g);
\# output: with many superfluous spaces
```

```
• $/
Perl 5...
   #
   # $1----- $4------ $5-----
   #| $2----- || || $6---- $7------ |
   # | | $3------ || | | | |
        m/(A(guy|gal|g(\S+))) (sees|calls) ((the|a)(gal|guy))/x;
Perl 6:
   # Perl 6...
   #
   # $0----- $1----- $2-----
   # | $0[0]----- | |
                         | | $2[0]- $2[1]----- |
   # | $0[0][0] | | |
                         # | | | | | |
                         m/(A(guy|gal|g(\S+))) (sees|calls) ((the|a)(gal|guy))/;
```

Grammar

- Grammar
- Rules como frases

```
rule TOP {
  col>'://'<address>
}
```

• Token como palabras

```
token number {
  \d+ ['.' \d+]?
}
```

• Protos define un tipo de rule o token

• Parse (TOP)

Grammar

```
#!/usr/bin/perl6
use v6;
grammar URL {
     token TOP {
       <schema> '://'
       [<ip> | <hostname> ]
       [ ':' <port>]?
       '/' <path>?
     token byte {
       (\d**1..3) <?{ $0 < 256 }>
     token ip {
       <byte> [\. <byte> ] ** 3
     token path {
       <[ a..z A..Z 0..9 \-_.!~*'():@&=+$,/ ]>+
  my $match = URL.parse('http://perl6.org/documentation/');
  say $match<path>;
                         # perl6.org
```

Modulos grammar

- Json
- Xml
- Grammar

Perl6::grammars

Limitaciones

Regexp::Grammars

Enlaces

- "Apocalypse 5: Pattern Matchin": http://www.perl6.org/archive/doc/design/apo/A05.html
- "Exegesis 5: Pattern Matching": http://www.perl6.org/archive/doc/design/exe/E05.html
- "Synopsis 5: Regexes and Rules": http://perlcabal.org/syn/S05.html
- "Introduction to Perl 6 Regex": https://github.com/perlpilot/perl6-docs/blob/master/intro/p6-regex-intro.pod
- "Regexes -- Pattern matching against strings": http://doc.perl6.org/language/regexes
- "Perl 5 to Perl 6": http://perlgeek.de/en/article/5-to-6
- "Perl 6 and Parrot Essentials, 2nd Edition": http://shop.oreilly.com/product/9780596007379.do

Ruegos y preguntas.

Contestaciones ??

Gracias