Neue Sprachkonzepte?

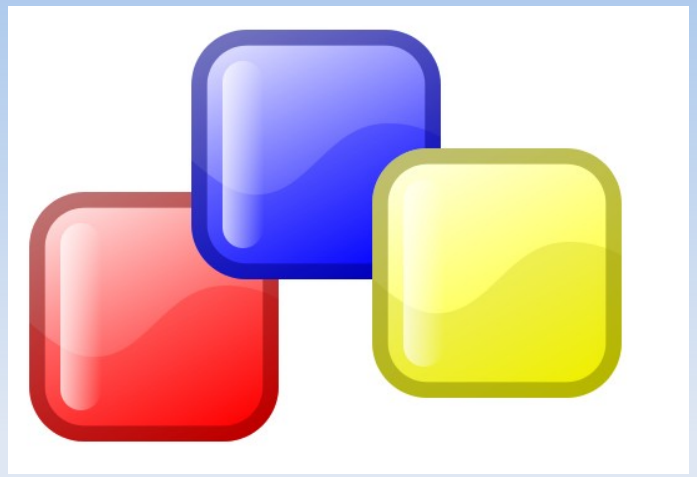
Herbert Breunung

Kephra

WxPerl

Perl 6

Meine Themen



Perl 6

Anstoßstein

4 der 7 Sprachen

Ruby Prolog
Erlang Haskell

4 andere Sprachen

Ruby Prolog
Erlang Haskell

Rebol Factor
Go Pig

4 gewählten Sprachen

Ruby Prolog
Erlang Haskell

Rebol Factor
Go Pig

Konzepte

Mixins

Makros

Aktoren

DSL

Danke Renee & Rolf

Mixins

Makros

Aktoren

DSL

Konzepte

Aktoren

DSL

2 Probleme

Parallelität

Komplexität

Aktoren

{ … } ==> { … }

Aktoren

@c = @a >>+<< @b

DSL

SQL, awk, LINQ, hg,

DSL

SQL, awk, LINQ, hg, Perl 1.0

DSL

SQL, awk, LINQ, hg, Perl 1.0

GCL

DSL

interne

externe

DSL

interne (pflegeleichter)

externe (ausdrucksstärker)

Martin Fowler

For me the fundamental issue in language oriented programming is the benefit of using DSL's versus the cost of building the necessary tools to support them effectively. Using internal DSLs reduces the tool cost - but the resulting constraints on the DSL itself can also greatly reduce the benefits, particularly if you are limited to C-based languages. An external DSL gives you the most potential to realize benefits, but comes at a greater cost to design the language, build the translator, and consider tools to support programming.

DSL

neue Schlüsselworte (LISP)

DSL

neue Schlüsselworte (LISP)

Operatoren

DSL

neue Schlüsselworte (LISP)

Operatoren

syntaktische Regeln

Grammars

```
grammar {
    TOP  {
    rule   {
    token {
...
```

Grammars

$~MAIN
$~Regex
$~Q

DSL

$~MAIN
$~Regex
$~Q

Lösung für

Expressiven Code

Lösung für

Expressiven Code

schnelle Entwicklung

Lösung für

Expressiven Code

schnelle Entwicklung

heterogene Umgebungen