

DSL

DSL

DSL Domain Specific Language domainLinux DSLIP Tables DSLFVWM DSLVIM Emacs DSL
Makefile DSLCSS DSLJSON DSLSQL DSL DSL

DSL DSL DSL DSL

DSL Library

DSL DSL DSL DSL SQL DSL

DSL ""domain DSL "" DSL""library""language

"""" DSL DSL

DSL DSL DSL DSL DSL DSL DSL job security ;)

DSL DSL

DSL

""The New Language Problem

DSL DSL DSL DSL DSL DSL

foo(x, y + z) y+z foo foo foo ""

DSL DSL foo(x, y + z) foo DSL foreach foo(x, y + z) Java foreach (x : y + z) y z +

foo(x, y + z) DSL DSL DSL

DSL DSL DSL DSL DSL

DSL IDE debugger

DSL

Haskell Scala""DSL "" DSL DSL DSL Haskell Scala Scheme

2012 POPL Principles of Programming Languages principle"" Scala Scala paper ""Scala "" JavaScript

Scala DSL Scala DSL Haskell C++ """"DSL""

Haskell Haskell type class Java C++ overloading Haskell Hindley-Milner Haskell DSL type class
C++ operator+(...)

DSL DSL"""" C++ + C++ C++

Haskell GPU ""DSL"" Accelerate""

Haskell Scala DSL paper

DSL Scheme Scheme hygienic macro Lisp Scheme Scheme "" Scheme Haskell Scala "" DSL""

miniKanren Scheme Prolog Haskell Scala miniKanren DSL miniKanren

Scheme Scheme ""The New Language Problem

Scheme Scheme

Scheme Scheme

Scheme Scheme Scheme

Scheme DSL DSL Scheme ""The New Language Problem

NaCl

DSL

PL PL "PL " :P

PL "" ""

Go ScalaRust.....

- 1.
- 2.
- 3.
4. Goto 1

DSL HTML DSL NaCl

NaCl "" NaCl NaCl "" NaCl

"NaCl " "NaCl "

NaCl regexp DSL Java String.replace

"NaCl " NaCl NaCl DSL ""

NaCl NaCl NaCl "NaCl " ;)

NaCl DSL

NaCl DSL DSL Dex.....

Dex NaCl NaCl Dex "" Dex DSL Dex DSL

""""

1. 1000
2. ""

"size > 1000" "if ... then ..." Dex XML XML

```
<rule>
  <condition>
    <operator>gt</operator>
    <first>size</first>
    <second>1000</second>
  </condition>
  <action>block</action>
</rule>
```

XML if (size > 1000) block() XML "" "" AST XML AST

if (size > 1000) block() Java Java "" Java "" ""

if (x > 1000) block() Java "" JVM class Java ""

Java JavaScript PL DSL Dex

Dex Dex HaskellGo Python Prolog "" DSL "" "" ""

DSL "NaCl " Java [JavaScript](#) JavaScript

JavaScript PAC JavaScript JavaScript

JavaScript parser JavaScript "NaCl "

"" Prolog Dex DSL parser "" "" "" "" Dex "

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DSL

1. DSL DSL
- 2.
3. DSL DSL DSL DSL
4. DSL "" JavaScript DSL

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