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唐鳳

Otori-tan

Where is
the **Next**
N.P.W.?

Where's the next N.P.W.?

A photograph of the Niagara Falls, showing the water cascading over the edge into the churning water below. The sky is filled with white, fluffy clouds. A large red arrow points from the top left towards the falls.

“waterfall”

- Really popular
 - Not just for tourists
 - Programmers too
 - (Except for Agile hackers)



Drowning

Waterfall Model

makes a

slippery

slope...

Waterfall Model

makes a

slipping

deadline!



◀ 納 期 は 明 日 ▶
DEATH MARCH

Rewrite = Biohazard

Escape

a watery grave

use Ruby;

Ruby On Snails

- The new framework for Web 3.14159...
- Grinds any system to a halt!
- by Dave Thomas and Mike Clark



■ Where?

- Niagara Falls, NY

■ When?

- April 1st, 2007

■ Registration begins today!

- <http://waterfall2007.com/>

■ Not Pair Programming

■ Groundbreaking Methodology

■ 1 Programmer

■ 2 Managers



■ by Jim Highsmith

- Take code out from functions

- Inline them everywhere

- by Joshua Kerievsk

- ➡ Cut

- ➡ Paste

- ➡ Paste

- ➡ Paste

- ➡ Release!

- Optimize for Obscurity!

Perl?

Obscurity?



Quit Bad Habits



Write Healthy Code!

Prescription

Draft Cover as of 9/25/03



Perl Medic

Maintaining Inherited Code



- ▶ Maintain, update and improve existing Perl code
- ▶ Relentlessly practical and informative
- ▶ Extensive use of code provides tangible solutions
- ▶ Master writing the Disciplined Perl Program

Peter Scott

Standards and Styles for Developing Maintainable Code



Perl Best Practices

O'REILLY®

Damian Conway

Plan B

Fix the language

Obscure

Perl5 →

Crazy Sigils in Perl 5



Scalar

\$s

\$s

\$s->foo

Array

@a

\$a[0]



Hash

%h

\$h{ '?' }



Happy Sigils in Perl 6



Scalar

\$s

\$s

\$s.foo

Array

@a

@a[0]

@a.foo

Hash

%h

%h<?>

%h.foo



Readable

Perl 6!

The Community's Rewrite of Perl

2nd Edition

Perl 6 *and* Parrot

Essentials



O'REILLY®

*Allison Randal,
Dan Sugalski & Leopold Tötsch*

O'REILLY

NOT'REALLY

There's More Than One Way To Screw It Up

33rd Edition
Perl 5 incompatible



Designing

Perl 6

NOT REALLY®

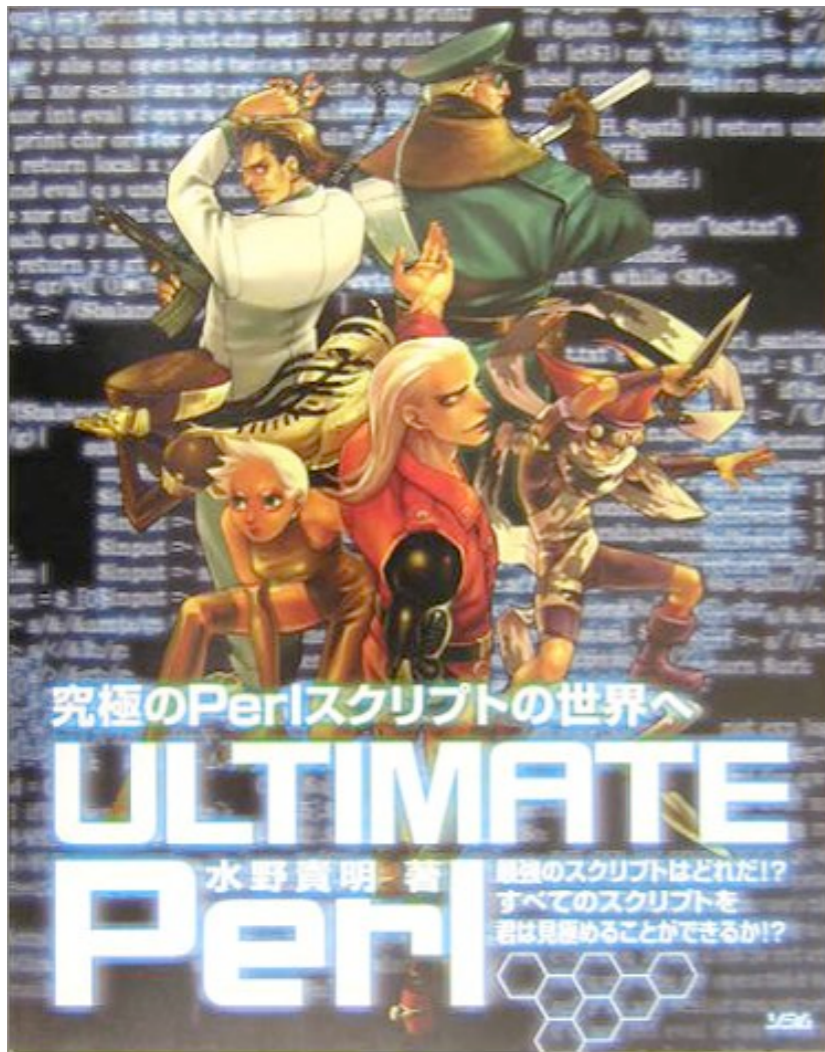
A committee - and look at the mess we ended up with

It may look like...

Obscure

JAPH!

■ print “just another perl hacker”;



¥ 1,500 – By 水野 貴明 (著)

● First JAPH in history:

```
@a=split(/(\d)/,
"4Hacker,2another3Perl1Just");
shift(@a);%a=%a;
print "@a{1..4}";
```

Randal Schwartz 1 Feb 1990 22:28:58 GMT

But

It's okay...

Because...

Job Security through Obscurity

hello world



```
package Earth;sub Greet{
    %_=('Y','~');$_='$;!=(Middle
    Earth.age~~~<Eart~~~~~h
    .age)?!(defined$ti~~~~~mez~~~On
    e[2])?!(push@time~~~~~Zone,loc
    ~altime())?rotation?~~~~~q~~?The Worl
    ~d?:q:[\w]::q=[\~~~~~d~a-f]=:q?..~~
    ~~~?:q:.;"42b3d3~~~~~728656c6c6f6
    ~~~~0277f627c64672~~~~~b3072796e647
    ~~~~~42b3b3rg7d"=Ym~~~~~\;$;~~*\;p~~~~u
    ~~~~~sh@_,$&;bless~~~~~$c~~~~~
    ~~~~~o~ntine~~~~~nt~~~~~
    ~~~~~s=\~~~~~$~~~~~pangaea~~~~~
    ~~~~~;{l~~~~~ocal@_;local$;
    ~~~~~="o~~~~~cean";$^A=(defi
    ~~~~~n~~~~~ed$continents)?
    ~~~~~(vec(~~~~~$;; YYsplit(\
    ~~~~~\',${\$;})~~~~~)%3,YYsplit(
    ~~~~~q?,$;)*2-~~~~~(($;=Ytr/oa
    ~~~~~eiu//)*2))=~~~~~=28160)?q:
    ~~~~~.:q?!?:\'?~~~~~\';}$^A=Ys
    ~~~~~:\Q.\E:pack(~~~~~\h*\',j
    ~~~~~oin(q(),~~~~~grep{$_=
    ~~~~~Ym,$,,}~~~~~split("
    ~~~~~",@_~~~~~[0]))
    ~~~~~):e~~~~~gexe
    ~~~~~;$d~~~~~="s
    ~~~~~ort~~~~~<=
    ~~~~~>,~~~~~YY
    ~~~~~@~~~~~
    ~~~~~"~~~~~';;
    s,(~|\r|\n|\s),,g;s.Y.\x7e.g;
    eval};Greet;'the world';
```

http://www.perlmonks.org/index.pl?node_id=329174

```

                                                    ;;;;;;;;;;
                                                    ;;;;;;;;;;
                                                    ;;;;;;;;;;
                                                    ;;;;;;;;;;
                                                    ;;;;;;;;;;
                                                    ;;;;;;;;;;
                                                    ;;;;;;;;;;
+SI=sub{+s+^+          ;;;;;;;;;;      ;;;;;;;;;;
    "$x$_[1]+gem;$/$x$_#   ;;;           ;;;;;;;;;;
    [0]$. $_.$/};$W=sub{$~=!q~         ;;;;;;;;;;
        ~.pop();system($^O=~Win?Cls:#       ;;;;;;;;;;
        'clear'),print,select$Z,$Z,$Z,! "     ;;;;;;
        "||$~for@_);$H=sub{+join$/ ,map($_#   ;;;;;;
        x$_[0],pop=~m-.+-g),!_);$ _=!Mima,s-- ;;;;
        "@{['=9+)w'^RINGS}}\%;local@[Saturn^# ;;;;
        wNXIBP]}"-see;s-^#!..+?$/(?=$"+;) --is ;;;;
y-;-'-;s-\w~-gi;$S=$_;#--Beautiful]   ;;;;
@s=m-.+-g;$N=1+.6-!th_, $---82-$---   ;;
$_="$x-(y---c-$-)for@s;$R=sub{$i#   ;; -d
=0;join$/ ,map{$j=%;join!_,grep#   ;; Rhea
!($j++%$_[$%]),m-.-g}grep!($i#   ;; -Titan
++%$_[0]),@S);$L=join!_,map#   ;; -Huygens
~~reverse.$/,@S;@R=(&$I(q-   ;; -&&20,051,
$__^q-q-),&$I(20,41-!q-   ;; -, $_=F|K),$
I->(15,31,$_=&$R(4-!q-   ;; -)),&$I(13-!"
;","28,$_=&$R(3)),&$ {   ;; _^_^I}(10,20-!"
;";",$ _=$R->(2)),q-   ;; -&&$S);@O=map&{"
;";"; "&&$H}($_,&$ {   ;; R.!-_}($_))x$_,! "
;";"; "+2..2*~2   ;; @Y=reverse@R#Dione
;";"; &${m--   ;; S|A|T|U}(@R,$N)||!q-
;";"; b-   ;; &$W(@O[0,1,2,1,0!=!q-
;";"; ;;; -],!1!~1);&$W($S.!q-
;";"; ;;; -, $L,0.16)for$%.5+!q-
;";"; ;;; Cassini-;&{$W||q-
;";"; ;;; -} (@Y,1.6)
;";";
;";";
;";";
;";";
;";";

```

http://www.perlmonks.org/index.pl?node_id=329

Good Job!



Perl

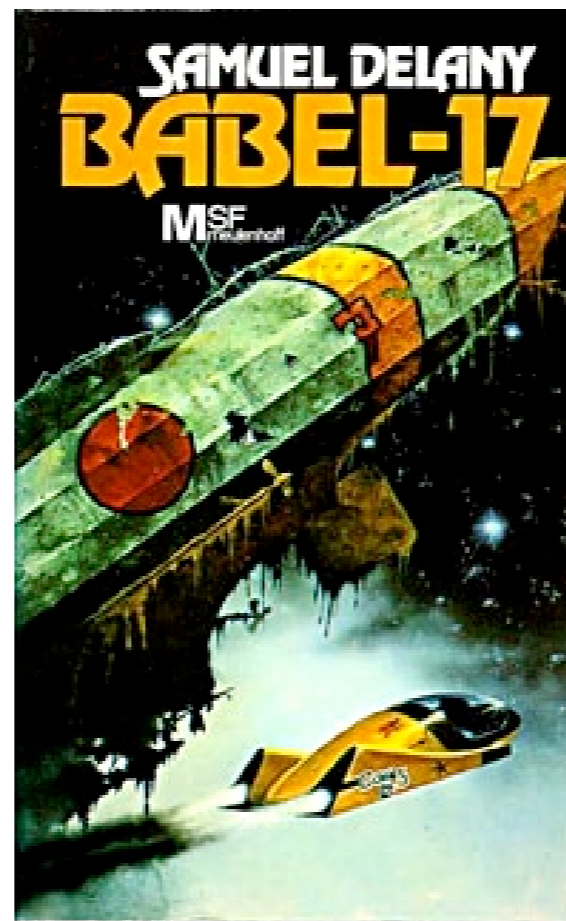
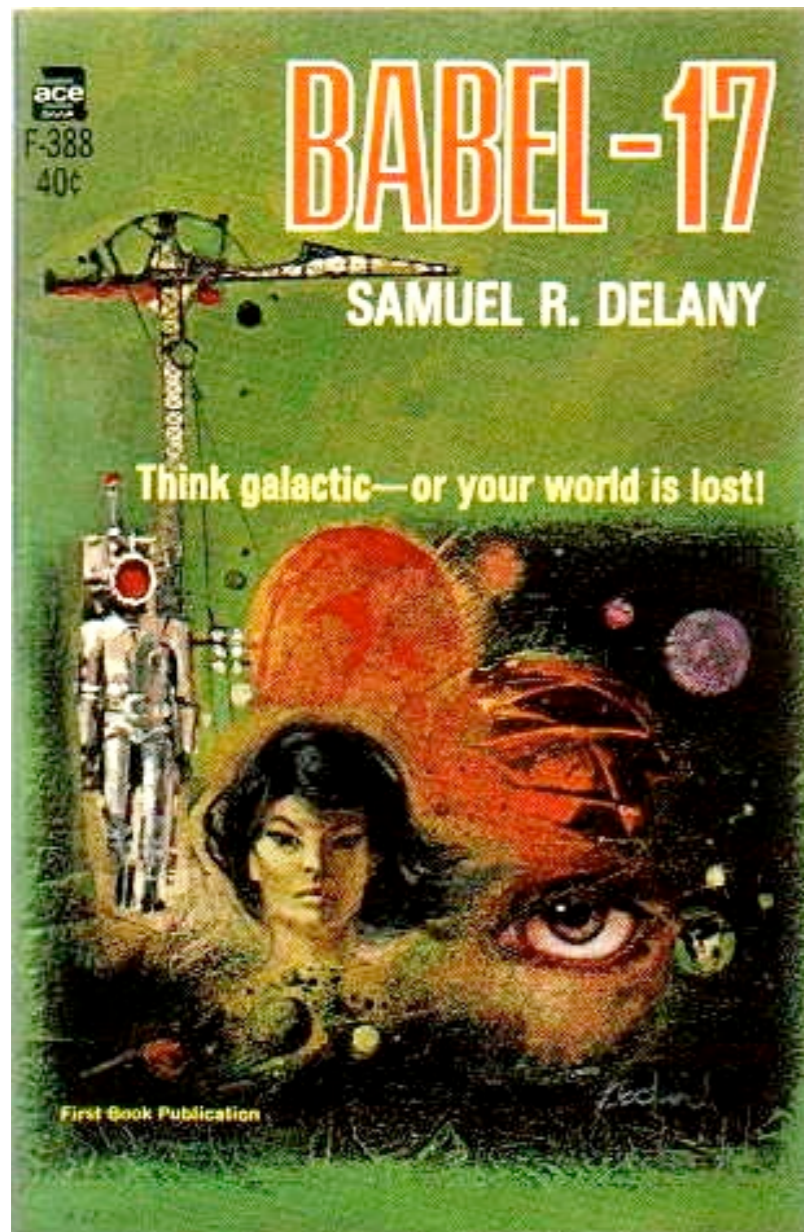
sucks

use Ruby;

(^_^)

Ruby: Brainwash Weapon

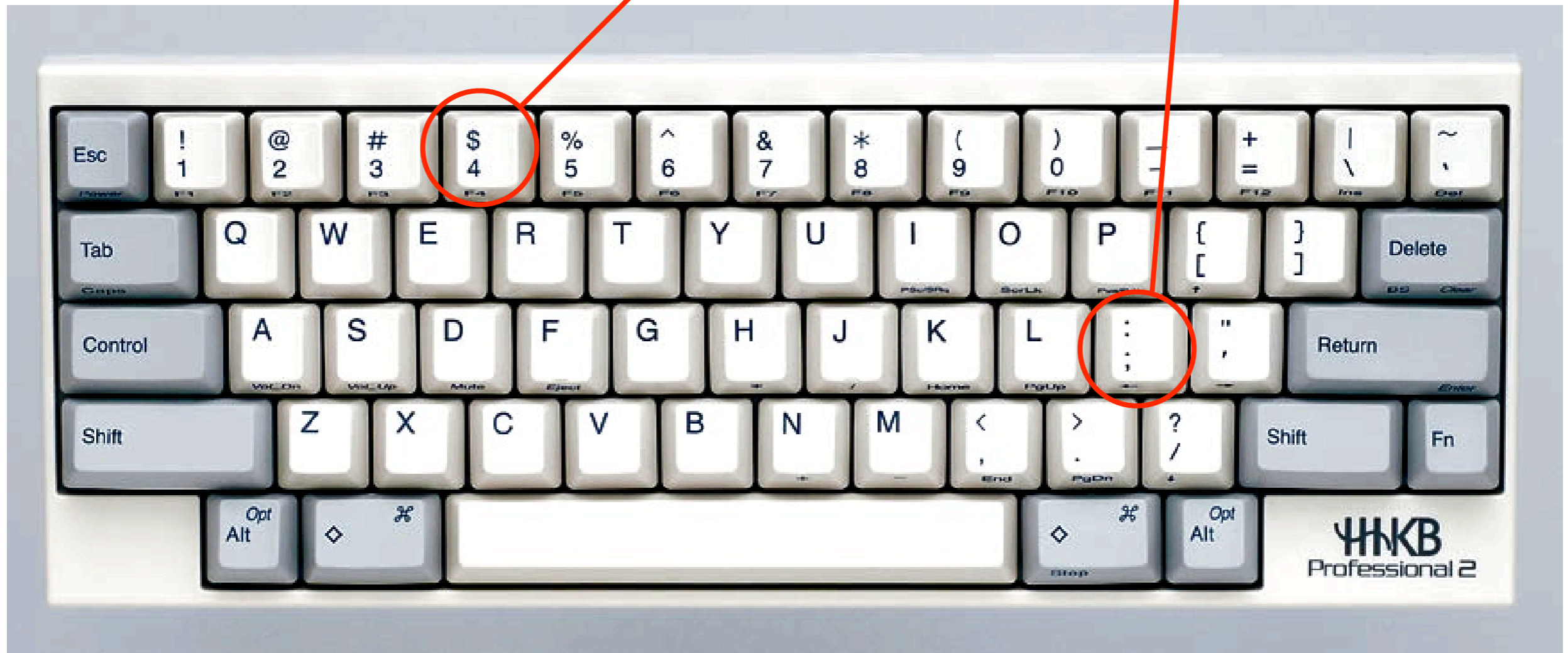
■ TAKAHASHI Masayoshi, YAPC::Asia 2006



**The best way
to convert
Perl Programmers
to Ruby...**

Eureka!

Take out the “\$” and “;” keys
from Perl people’s keyboards!



Perl People
will be *forced* to
use Ruby;

Sounds

Good...

But

Counter Strike!



Real Perl programmer can do *without* punctuation!

```
#!/usr/bin/perl -w
length q chr uc and print chr oct ord q
gt log and print chr oct ord q qx eq and
print chr ord uc q qw eq and print chr
ord q q q and print chr ord uc q or no
and print chr ord q pop and print chr
ord q oct do and print chr ord qw q keys
q and print chr ord qw q s q and print
chr hex length q q bless localtime ref q
```

→ **print “NPW Rocks!”;**

Perl Programming

with only

Keywords

and whitespace!

■ Operators... (38)

lt gt le ge eq ne cmp not and or xor if else elsif while for foreach continue goto last local map
my next redo require return use tr y s m q qq qr qw qx x

■ Builtins... (182)

no digits, either

abs accept alarm **atan2** bind binmode bless caller chdir chmod chomp chop chown chr chroot
close closedir connect cos crypt dbmclose dbmopen defined delete die do dump each eof eval
exec exists exit exp fcntl fileno flock fork formline getc getlogin getpeername getpgrp getppid
getpriority getpwnam getgrnam gethostbyname getnetbyname getprotobyname getpwuid
getgrgid getservbyname gethostbyaddr getnetbyaddr getprotobynumber getservbyport
getpwent getgrent gethostent getnetent getprotoent getservent setpwent setgrent sethostent
setnetent setprotoent setservent endpwent endgrent endhostent endnetent endprotoent
endservent getsockname getsockopt glob gmtime grep hex import index int ioctl join keys kill
lc lcfirst length link listen localtime log lstat mkdir msgctl msgget msgrcv msgsnd no oct open
opendir ord pack pipe pop pos print printf push quotemeta rand read readdir readlink recv ref
rename reset reverse rewinddir rindex rmdir scalar seek seekdir select semctl semget semop
send setpgrp setpriority setsockopt shift shmctl shmget shmread shmwrite shutdown sin sleep
socket socketpair sort splice split sprintf sqrt srand stat study substr symlink syscall sysread
system syswrite tell telldir tie time times truncate uc ucfirst umask undef unlink unpack untie
unshift utime values vec wait waitpid wantarray warn write

But JAPHs
shouldn't be written
Manually

No coding

➔ Best coding

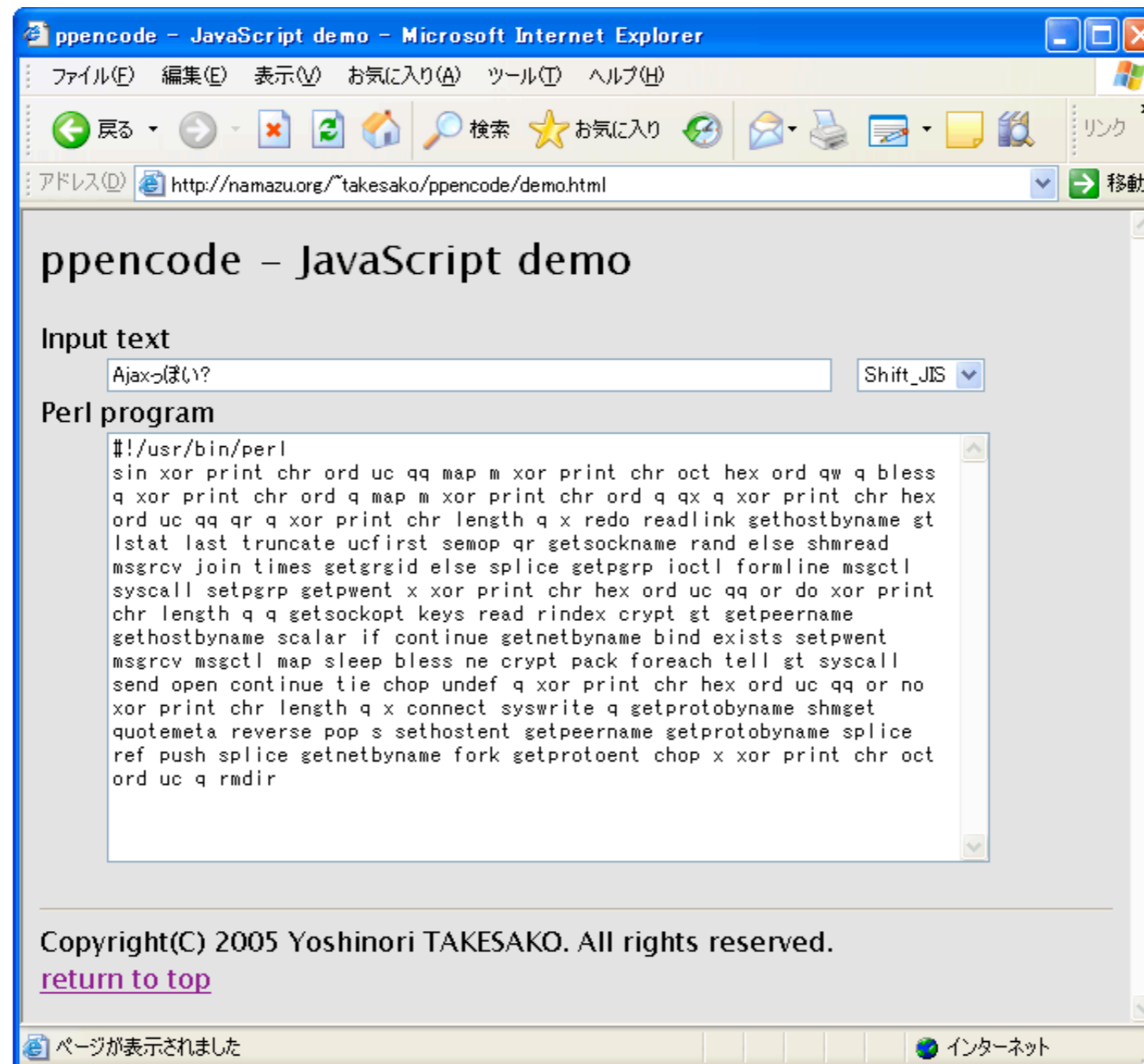
Laziness++



 ppencode 

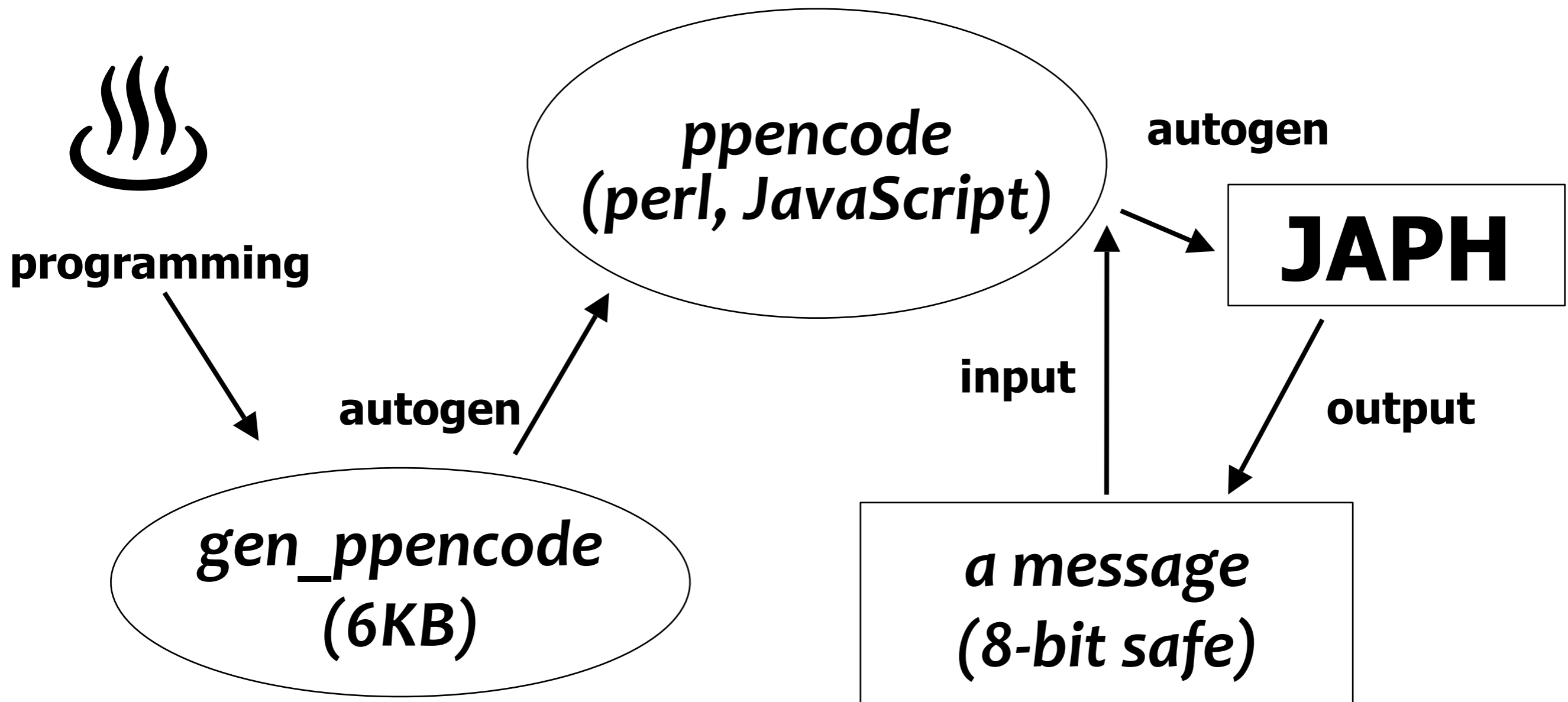
**So TAKESAKO-san made
“ppencode”.**

Demo (Ajax flavored!)



<http://namazu.org/~takesako/ppencode/demo.html>

■ gen_ppenocode.pl - a Generator Generator



No coding

➔ Best coding

Impatience++

Perl

vs.

Ruby

■ rrencode is born!

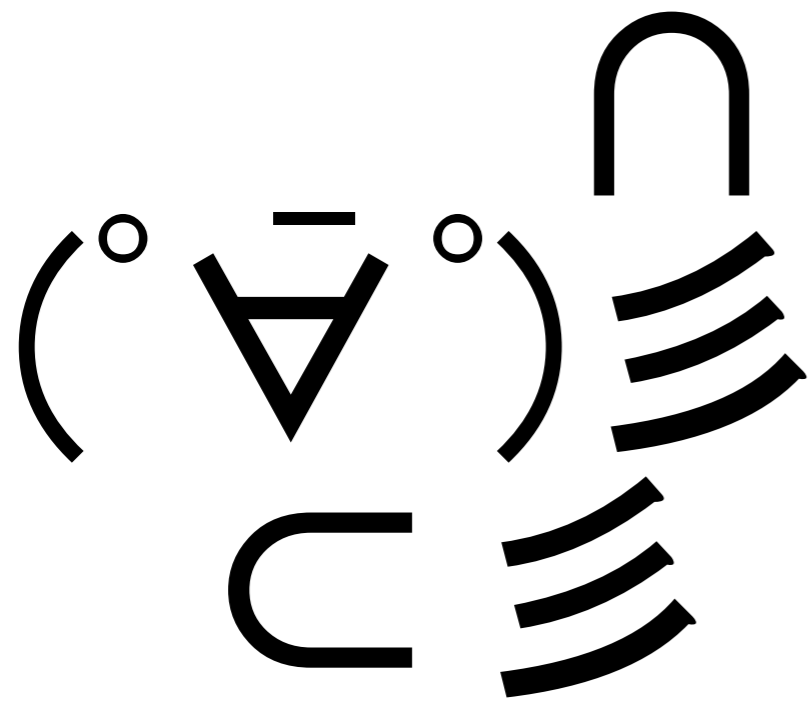
By 吉田悠一 (Mr. oxy)

```
➤ ./rrencode.rb 'hello, world!'
```

```
($,^$$&&@_=$@);$><<($,|$$&&(%!%!<<<(?!* (?/-?.+?$-?" )) )%(?}-?+=+(?_-??  
+?/-?' )) ) +($,&$,||(%!%!<<<(?!* (?"-?!+?.-?, )) )%(?|-?<+(?_-??+?&-?! ))  
) +($,&$,||(%!%!<<<(? !*(?*-* )+?/-?- )) )%(?}-?+=+(?}-? ]+?--?! )) );($,|$$  
&&_=$\ );$><<($,&$,||(%!%!<<<(? !+?!+?! )) )%(?{-? ;+(? ]-?+=+?--?! )) );($,^  
$$&&_=$` );$><<($,&$,||(%!%!<<<(? !*(? '-?& +?%-?# )) )%(?~-?>+(? [-? ;+(? /  
-? '+?) -? " )) ) +($,^$$&&(%!%!<<<(? !+?!+?! )) )%(?{-? [+? --?! )) +($,|$$&&(%  
!%!<<<(? !+?!+?! )) )%(? ]-?+=+? "-? " )) );($,|$$&&@_=$~ );$><<($,^$$&& (%!%!<<<  
(? !+?!+?! )) )%(?}-?+=+(?}-? ]+(? ; -?++?* -?# )) ) +($,&$,||(%!%!<<<(? !*(? /-?  
.+ ? ) -? ' )) )%(?}-?+=+(?~-? ^+(? /-? '+? (-? ! )) ) +($,^$$&&(%!%!<<<(? !*(? '-?  
&+?+-? )) )%( ?~-?>+(?}-? ]+(? :-?*+?&-?$ )) );($,&$,||_=$&);$><<($,|$$  
&&(%!%!<<<(? !*(?$-?#+?* -? ( )) )%(?{-? ;+(? ^-?>+?--?! )) ) +($,&$,||(%!%!  
<(? !+?!+?! )) )%(?|-?<+(? \ -?<+? (-? $ )) );($,&$,||@@_=$@);$><<($,^$$&&(  
%!%!<<<(? !*(? --? ,+?$-?" )) )%(?{-? [+?#-?" )) );( $,^$$&&@@_=$@);$><<$/
```

no Alphanumerics;

Where's the Python version?



pypyencode!?



Thank You!

唐鳳

Otori-tan



Thank you!

竹迫 良範

TAKESAKO

Yoshinori