



 **ppencode** 

竹迫 良範

TAKESAKO

Yoshinori



 **ppencode** 

唐鳳

Otori-tan

Where is

the **Next**

OSCON?

Where's the next Conference?



Where's the next Conference?



“waterfall”

Waterfall



Waterfall

■ Really popular



Waterfall

- Really popular
- Not just for tourists



Waterfall

- Really popular
 - Not just for tourists
 - Programmers too



Drowning

Waterfall

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



Drowning

Waterfall Model

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



Ruby On Snails

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



Waterfall OSCON



Waterfall OSCON

■ Where?

■ Niagara Falls, NY



Waterfall OSCON

■ Where?

■ Niagara Falls, NY

■ When?

■ April 1st, 2007

■ Where?

■ Niagara Falls, NY

■ When?

■ April 1st, 2007

■ Registration begins today!

■ <http://waterfall2007.com/>

Pair Managing



Pair Managing

■ Not Pair Programming



- Not Pair Programming

- Groundbreaking Methodology

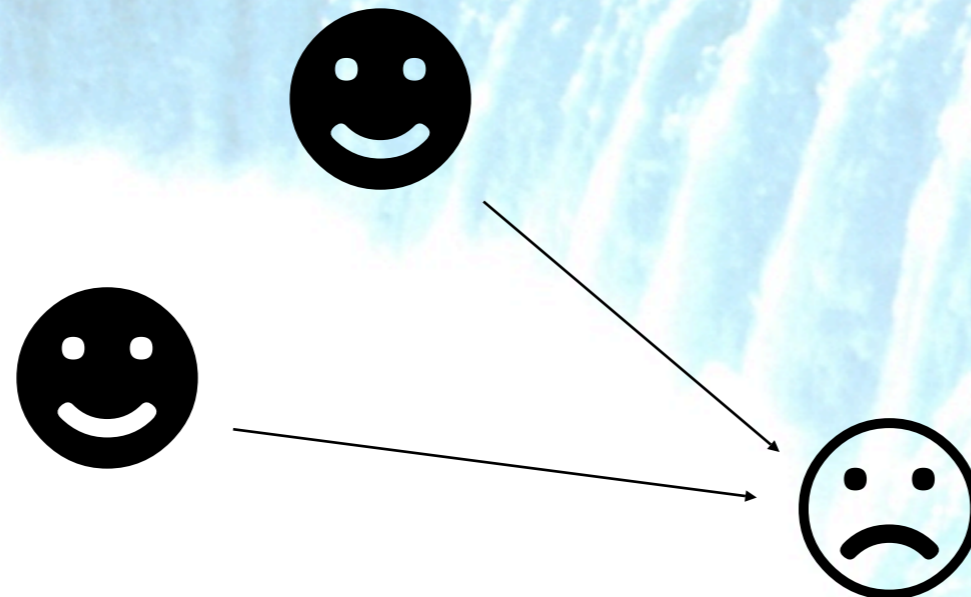
- Not Pair Programming
 - Groundbreaking Methodology
 - 1 Programmer

■ Not Pair Programming

■ Groundbreaking Methodology

■ 1 Programmer

■ 2 Managers

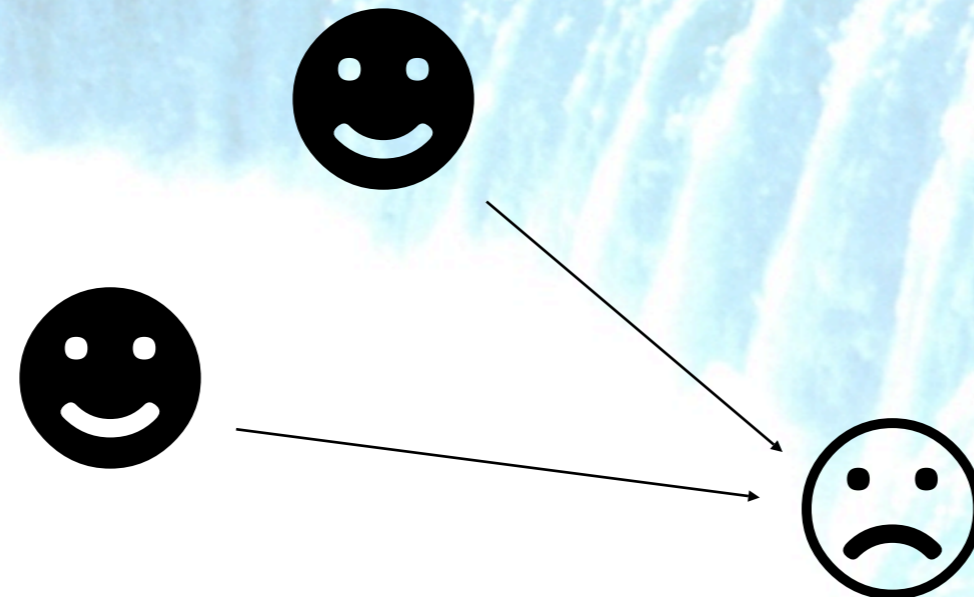


■ Not Pair Programming

■ Groundbreaking Methodology

■ 1 Programmer

■ 2 Managers

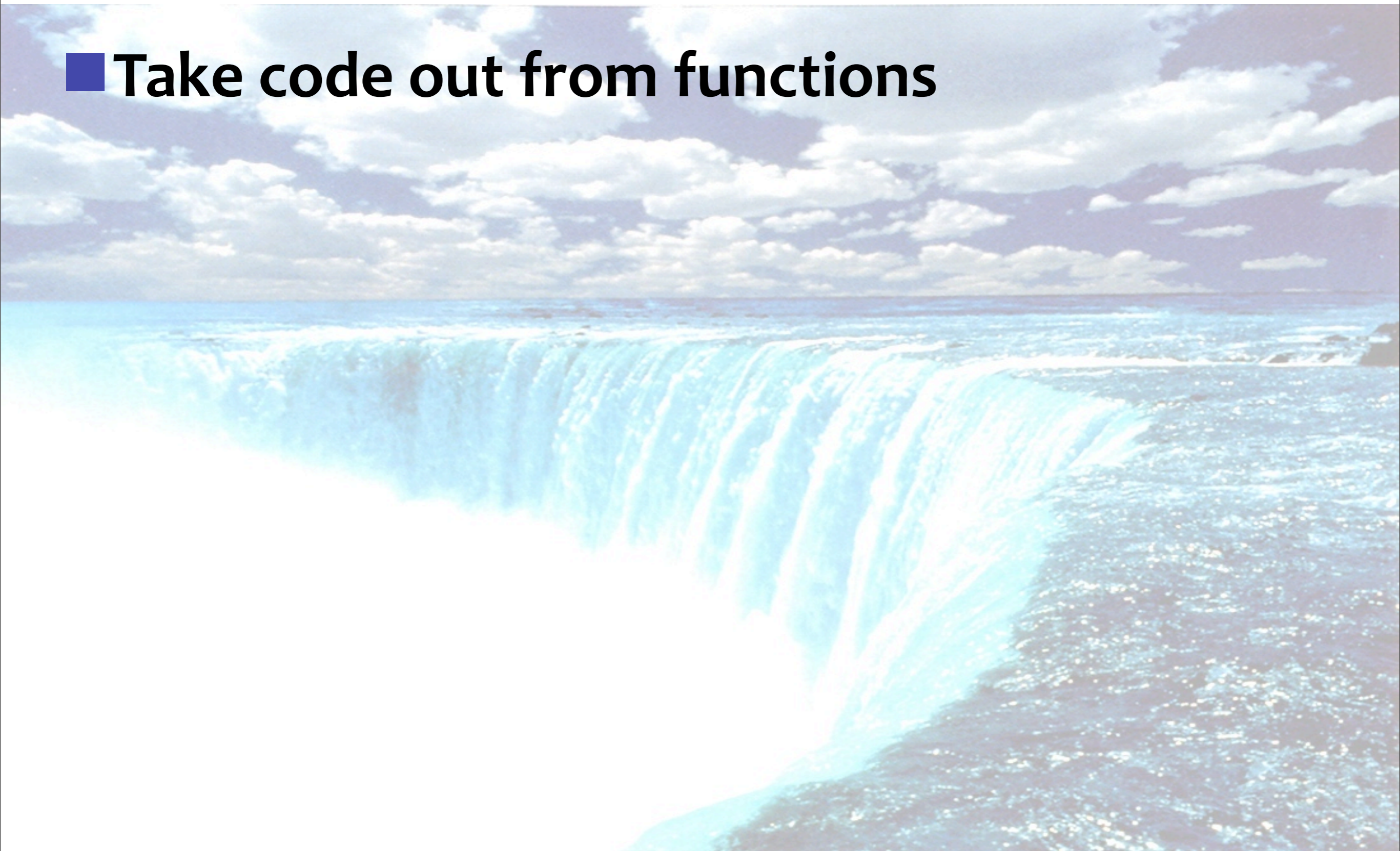


■ by Jim Highsmith

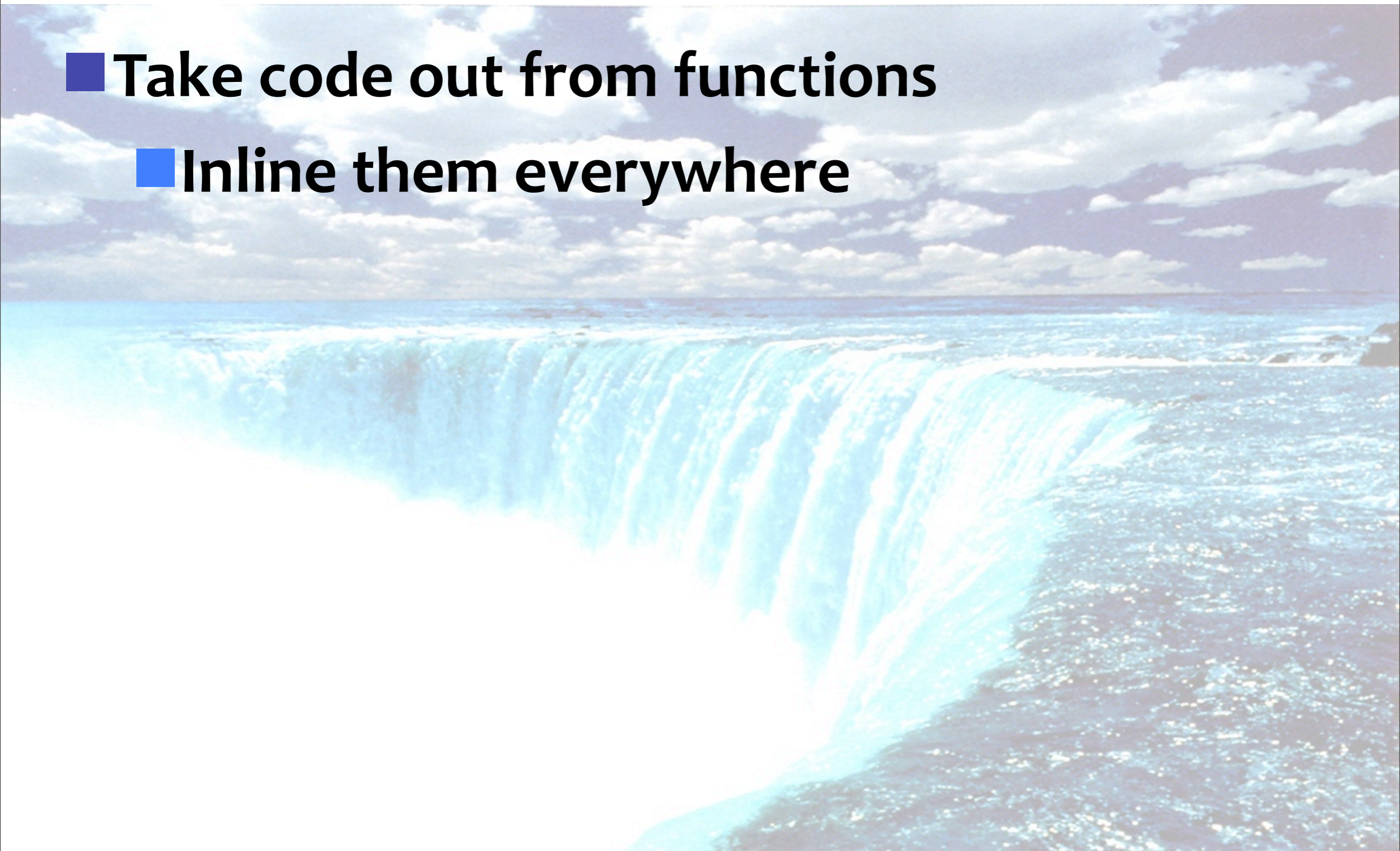
Unfactoring



■ Take code out from functions



- Take code out from functions
 - Inline them everywhere



- Take code out from functions
 - Inline them everywhere
 - by Joshua Kerievsk

Unfactoring

- Take code out from functions
 - Inline them everywhere
 - by Joshua Kerievsk
- ➔ Cut

- Take code out from functions

- Inline them everywhere

- by Joshua Kerievsk

- ➔ Cut

- ➔ Paste

- Take code out from functions
 - Inline them everywhere
 - by Joshua Kerievsk
- ➔ Cut
 - ➔ Paste
 - ➔ Paste

- Take code out from functions
 - Inline them everywhere
 - by Joshua Kerievsk
- ➔ Cut
 - ➔ Paste
 - ➔ Paste
 - ➔ Paste

- Take code out from functions

- Inline them everywhere

- by Joshua Kerievsk

- ➔ Cut

- ➔ Paste

- ➔ Paste

- ➔ Paste

- ➔ Release!

- Take code out from functions

- Inline them everywhere

- by Joshua Kerievsk

- ➔ *Cut*

- ➔ *Paste*

- ➔ *Paste*

- ➔ *Paste*

- ➔ *Release!*

- Optimize for Obscurity!

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

Perl6!

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®

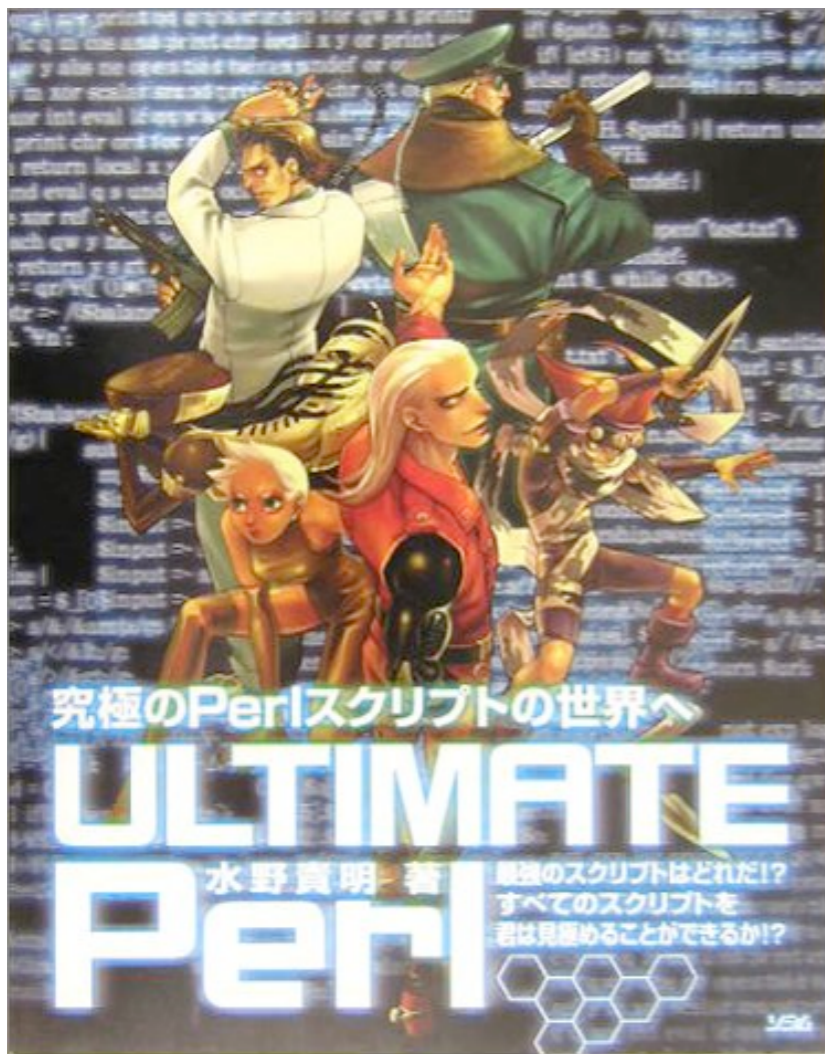
A committee - and look at the mess we ended up with

It may look like...

Obscure

JAPPI!

■ 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

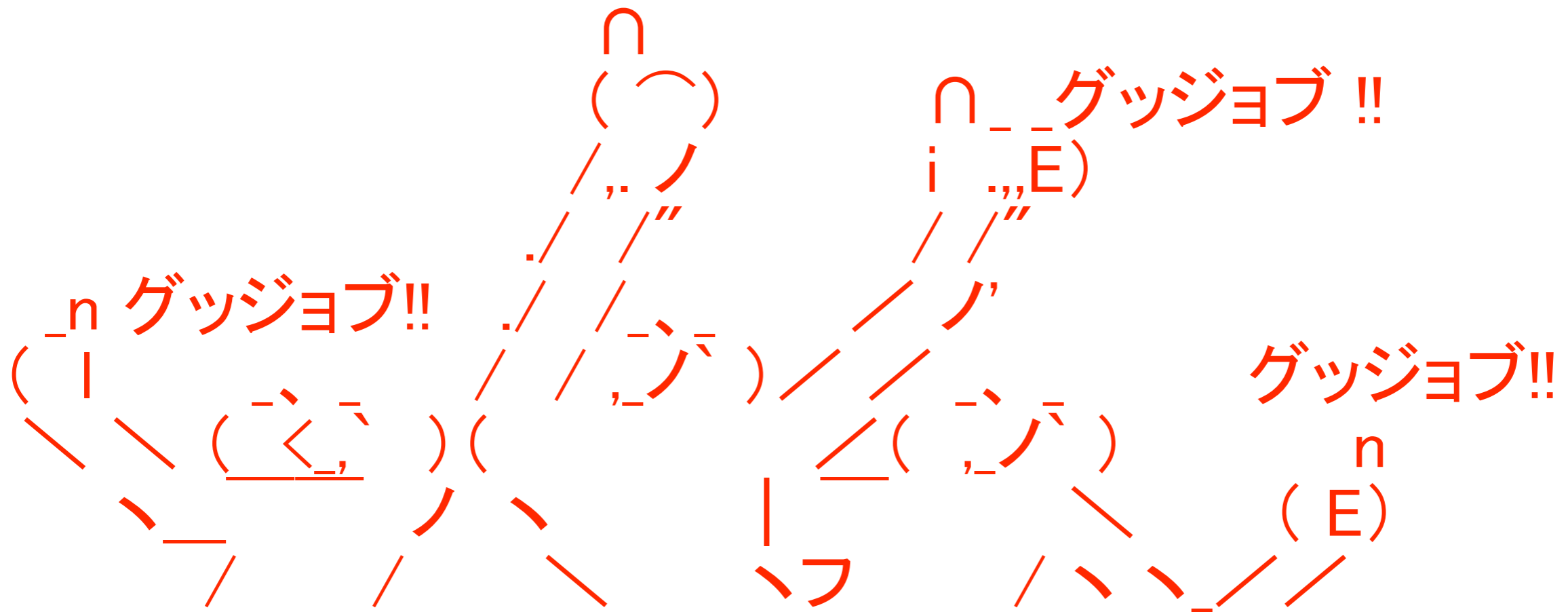
hello world



```
package Earth;sub Greet{
  %_='Y','~');$_='!$(Middle
  Earth.age~~~<Eart~~~~~h
  .age)?!(defined$ti~~~~mez~~~On
  e[2])?!(push@time~~~~Zone,loc
  ~altme())?rotation?~~~~q~?The Worl
  ~d?:q:[\w]::q=[\~~~~d~a-f]=:q?..~~
  ~~~?:q:.;"42b3d3~~~~728656c6c6f6
  ~~~~0277f627c64672~~~~b3072796e647
  ~~~~~42b3b3rg7d"=Ym~~~~\;$;~*\;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

Good Job!



Perl

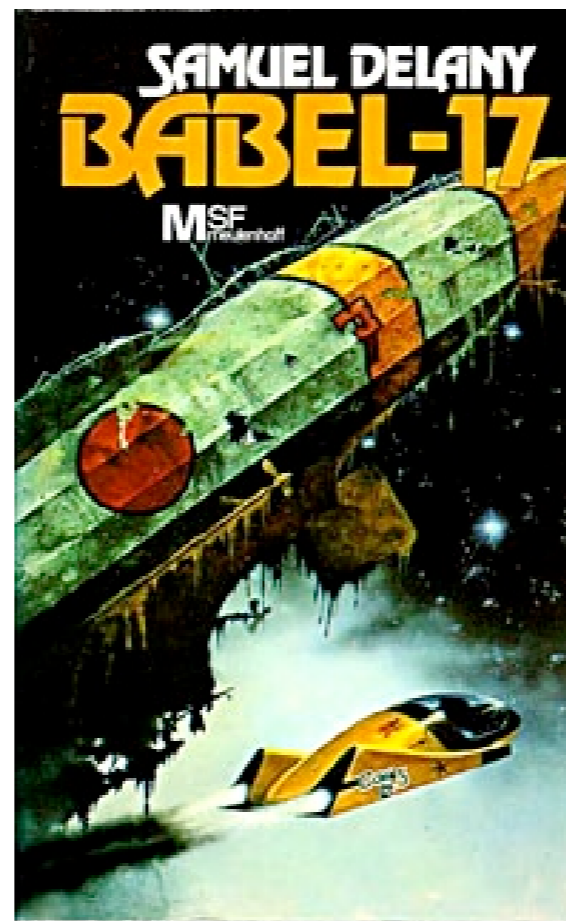
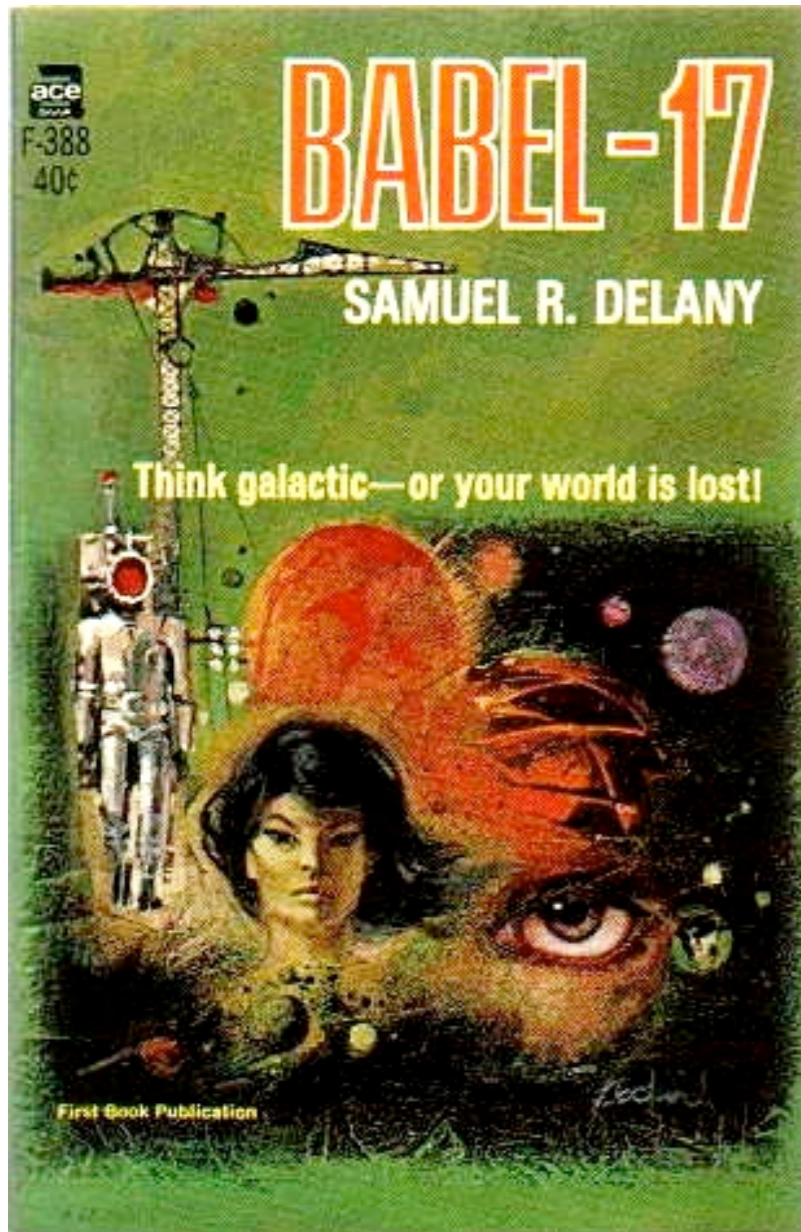
sucks

use Ruby;

(^ _ ^)

Ruby: Brainwash Weapon

■ TAKAHASHI Masayoshi, YAPC::Asia 2006



でかい
プレゼン

高橋メソッドの本
THE BOOK OF TAKAHASHI METHOD

高橋 征義
MASAYOSHI TAKAHASHI

パラパラめくって
カンタン。 EASY

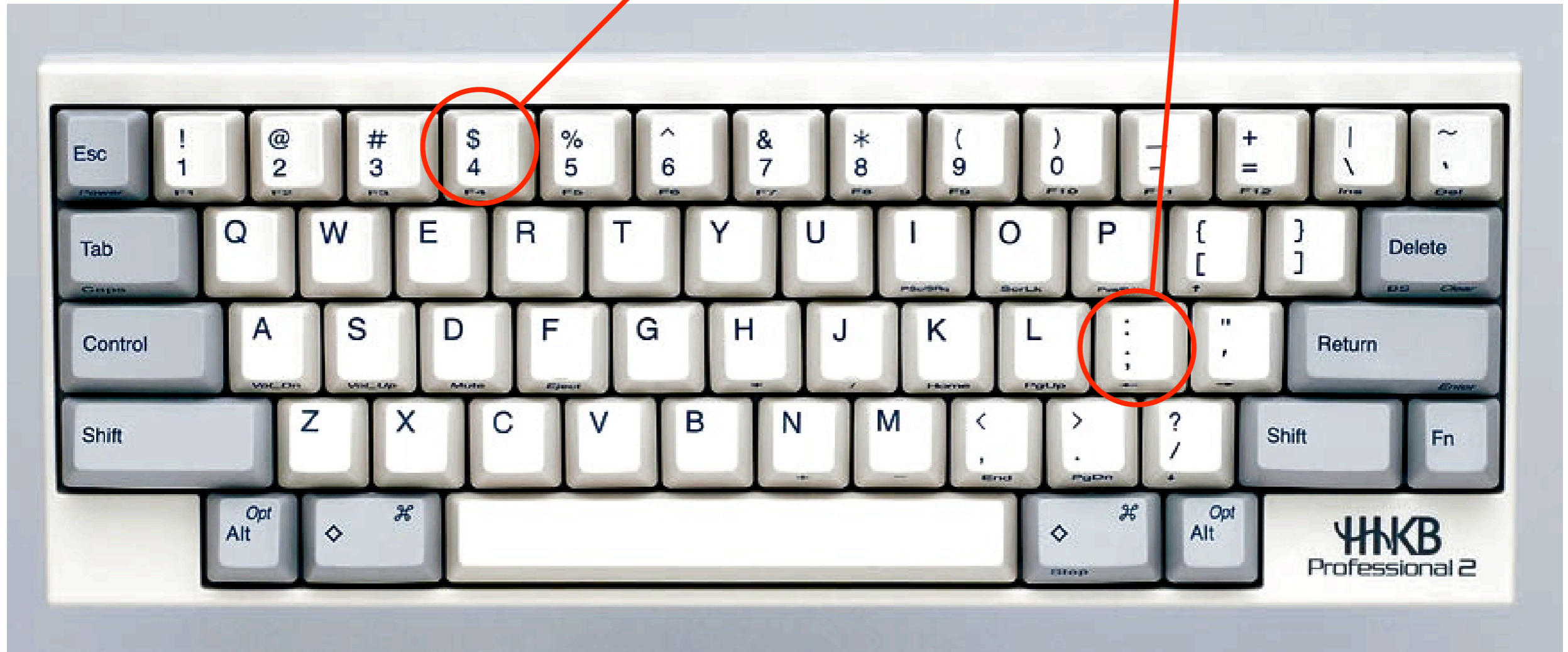
すぐにナットク!!!
スゴイー SATISFY

ネットで話題の新プレゼン手法!

**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
```

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 "OSCON Rocks!";**

Perl Programming

with only

Keywords

and whitespace!

Keywords



■ Operators... (38)

It 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

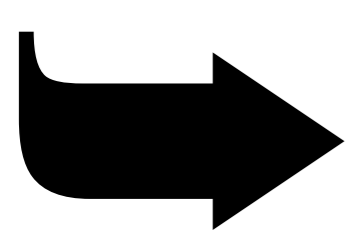
■ Builtins... (182)

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

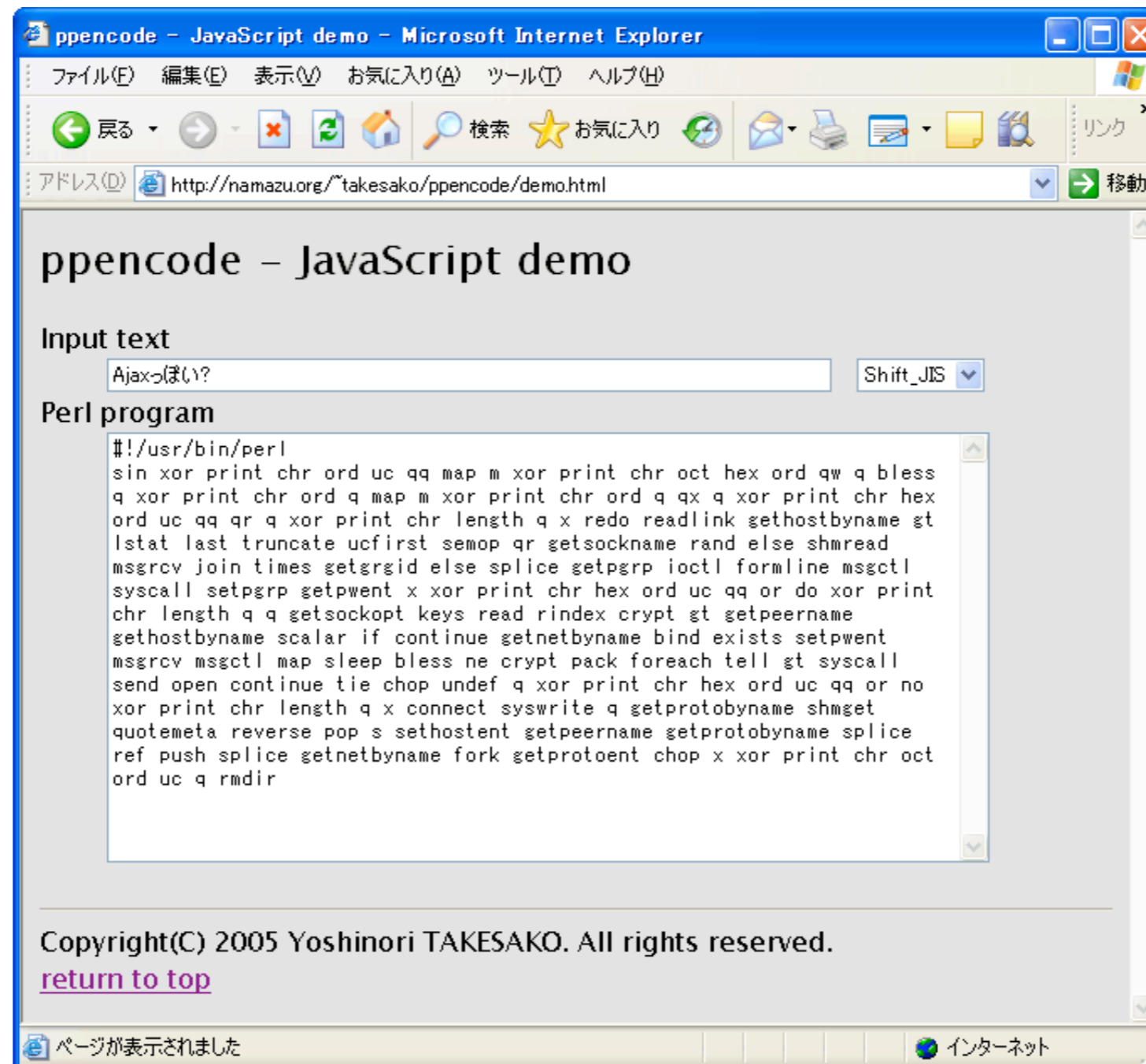
Laziness++



 ppencode 

So “ppencode” was born.

Demo (Ajax flavored!)



The screenshot shows a Microsoft Internet Explorer browser window titled "ppencode - JavaScript demo - Microsoft Internet Explorer". The address bar displays "http://namazu.org/~takesako/ppencode/demo.html". The page content includes:

- Header: "ppencode - JavaScript demo"
- Form: "Input text" with a text input field containing "Ajaxっぽい?" and a dropdown menu set to "Shift_JIS".
- Code Block: "Perl program" containing a Perl script listing various system calls and functions such as `sin`, `xor`, `print`, `chr`, `ord`, `uc`, `qq`, `map`, `m`, `hex`, `ord`, `qw`, `q`, `bless`, `redo`, `readlink`, `gethostbyname`, `gt`, `lstat`, `last`, `truncate`, `ucfirst`, `semop`, `qr`, `getsockname`, `rand`, `else`, `shmread`, `msgrcv`, `join`, `times`, `getgid`, `splice`, `getpgrp`, `ioctl`, `formline`, `msgctl`, `syscall`, `setpgrp`, `getpwent`, `x`, `do`, `connect`, `syswrite`, `q`, `getprotobyname`, `shmget`, `quotemeta`, `reverse`, `pop`, `s`, `sethostent`, `fork`, `getprotoent`, `chop`, `x`, `rmdir`.
- Footer: "Copyright(C) 2005 Yoshinori TAKESAKO. All rights reserved." and a link "return to top".

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

■ gen_ppencode.pl - a Generator Generator



programming

autogen

autogen

ppencode
(perl, JavaScript)

JAPH

input

output

gen_ppencode
(6KB)

a message
(8-bit safe)

No coding

➔ Best coding

Impatience++

Perl

vs.

Ruby

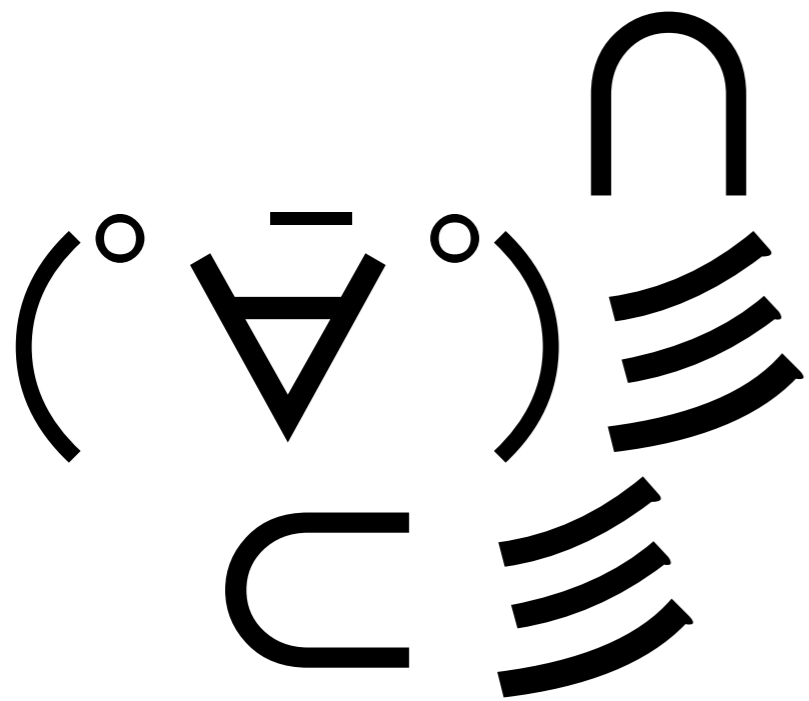
■ rrencode is born!

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