Cool Code

@KevlinHenney





プログラマが 知るべき97のこと

97 Things Every Programmer Should Know

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There is an art, craft, and science to programming that extends far beyond the program. The act of programming marries the discrete world of computers with the fluid world of human affairs. **Programmers mediate between the** negotiated and uncertain truths of business and the crisp, uncompromising domain of bits and bytes and higher constructed types.





Art is useless because its aim is simply to create a mood. It is not meant to instruct, or to influence action in any way. It is superbly sterile.

superby sterile, and

acton in And Oscar Wilde



Karianne Berg



WE PROGRAMMERS ARE WEIRD CREATURES. We love writing code. But when it comes to reading it, we usually shy away. After all, writing code is so much more fun, and reading code is hard—sometimes almost impossible. Reading other people's code is particularly hard. Not necessarily because other people's code is bad, but because they probably think and solve problems in a different way than you. But did you ever consider that reading someone else's code could improve your own?

```
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 * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 * SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
/**
 * The HelloWorldApp class implements an application that
 * simply prints "Hello World!" to standard output.
 */
class HelloWorldApp {
    public static void main(String[] args) {
        System.out.println("Hello World!"); // Display the string.
    }
}
```

```
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* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
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```

cool, *adjective*

- fashionably attractive or impressive
- excellent
- used to express acceptance or agreement
- used as an intensive
- used when a conversation goes silent
- marked by deliberate effrontery or lack of due respect or discretion
- restrained or relaxed in style

code, noun

- a system of words, figures or symbols used to represent others
- a set of instructions for a computer
- a computer program, or a portion thereof
- a set of conventions or principles governing behaviour or activity in a particular domain
- a system or collection of rules or regulations on any subject
- a collection of writings

SHET CB C	16575 LD A (ML) 126 (131) LD B H 6 1 (141) LD B 40 20 (141) LB 40 20 (141) LB 55 11 (142) LB 55 11 (141) LB 126 70 1187 (141) LB 126 70 1187 (141) LB 126 120 12 1491 (151) LD B 120 123 121 140 (151) LB 120 123 121 140 (151) LB 120 123 140 121 (152) LB 12	CALL CHK 205 I 66 EXX 217 LD(HL) P 112 LD AC 121 LD(HC) B 112 LD(HC) B 112 LD(HC) B 112 LD(HC) B 112 LD(HC) B 112 CALL SCORE 205 153 65 CALL SKIFT 205 242 65 JP DIS 24 222 POP BC 193 POP HL 225 DJNZ DIS 16 200 LD A (HN) 58 65 64 CP N 254 0 JP Z DIS 40 254 • LD A (HN) 33 69 64 LD A (HL) 126 DEC HL 43 IEC HL 43 IEC HL 43 IEC HL 43 LD E (HL) 94 LD D N 22 67 LD (HL) 94 LD D N 22 67 LD C(HL 94 LD D N 26 247 66 PEC HL 43 IEC HL 43 IEC HL 43 IEC HL 43 LD E (HL) 94 LD D N 22 67 LD C(HL) 94 LD H D 98 CALL CHOMV 205 247 66 RET 201 CALL CHOMV 205 247 66 RET 201 CALL SO, AT 205 16 66 EXX 217 LD A C 121 RET 201 RET 201	(55)* LD HL N 35 22 SCF 55 LD L N 46 241 RET 281 LD D N 22 3 POP BC 193 LD A E 123 POP HL 225 ADD (HL) 134 DJNZ DIS 16 216 PUSH HL 229 AND A 167 PUSH HL 229 AND A 167 PUSH HL 229 RET 201 CP N 254 63 SCORE RET 201 JP C DIS 56 32 16793 PUSH HL 229 CP N 254 148 (153) PUSH BC 197 JP NC DIS 48 28 (65) PUSH BC 197 JP NC DIS 49 28 LD D L 85 CP N 254 0 PUSH BC 197 JP Z DIS 2217 CALL NN 205 36 CP N 254 1 LD A B 120 JP NZ DIS 32 12 ADD A H 132 CP N <td< th=""><th>7 67 67 67</th></td<>	7 67 67 67
	JP C DIS 56 1 EX DE HL 235 LDIR 237 176 RET 201 PSC 17162 RND N 236 127 (10) LD HL NN 33 242 64 (67) LD B N 6 5 CP (HL) 196 RET 2 200 INC HL 35 DJN2 DIS 16 251 LD R B 120 NPSCRN 17046 XOR A 175 (150) LD (NND A 50 65 64 (66) LD B N 6 86 LD HL NN 33 62 67 INC HL 35 PUSH HL 229 PUSH HL 229 PUSH HL 229 PUSH BC 197 LD EL 93 CHL STR2 205 191 64 CP N 254 3	CP N 254 3 JP NZ DIS 32 238 LD (NN) HL 34 7 64 LD E L 93 CALL MOVE 205 247 64 LD HL NN 33 161 67 CALL NN 33 161 67 CALL KT 205 160 64 CP N 245 2 EX DE HL 235 JP NC DIS 48 220 CALL TL 205 130 66 JP Z DIS 48 215 CP C 185 JP NZ DIS 32 248 CALL 217 CALC CHX 205 1 66 EXX 217 CALC CHX 205 1 66 CALL MPSCAN 205 150 66 JP DIS 24 194 LD C HL 21 LD A C 121 LD A C 121	(66) LD HL NN 33 62 67 INC B 4 LD B A 71 POP DE 209 CPIR 237 177 POP HL 225 DEC HL 43 LD (HL) E 115 LD (NN) HL 34 128 64 POP HL 225 SQ. AT LD B N 6 86 CALL CHG 205 256 16912 LD H NN 23 62 67 CALL CHG 205 24	8 66 67 8 66

<pre># HERE IS THE PHILOSOPHY OF GUILDENSTERN: ON EVERY APPEARANCE OF DISAPPEARANCE OF THE MANUAL THROTTLE # DISCRETE TO SELECT P67 OR P66 RESPECTIVELY: ON EVERY APPEARANCE OF THE ATTITUDE-HOLD DISCRETE TO SELECT P66 # UNLESS THE CURRENT FROGRAM IS P67 IN WHICH CASE THERE IS NO CHANGE</pre>				
GUILDEN # STERN			<pre># IS UN-AUTO-THROTTLE DISCRETE PRESENT? # RSB 2009: Not originally a comment.</pre>	
	MASK	BIT5 A		
P67NOW?	TCF TC DEC	STARTP67 CHECKMM 67	# YES # NO: ARE WE IN P67 NOW?	
STARTP66	TCF TC TC	STABL? FASTCHNG NEWMODEX	# NO # YES	
DEC66	DEC EXTEND DCA	66	# SET DESIRED ALTITUDE RATE - CURRENT	
STRTP66A	DXCH TC SLOAD	VDGVERT INTPRET PUSH PBIASZ	<pre># SET DESIRED ADITIONE RATE = CORREST # ALTITUDE RATE.</pre>	
	SLOAD	PUSH PBIASY VDEF		
	vxsc	PBIASX SET BIASFACT		
	STOVL	RODFLAG VBIAS TEMX		
	VCOMP STOVL	OLDPIPAX ZEROVECS		
	STODL	DELVROD RODSCALE		
	STORE	RODSCAL1 PIPTIME LASTTPIP		
VRTSTART	EXIT CAF TS TS TS TS TS	ZERO FCOLD FWEIGHT FWEIGHT +1 WCHVERT		
‡ Page 801	CAF	TWO WCHPHOLD	# WCHPHASE - 2> VERTICAL: P65,P66,P67	
	TC	WCHPHASE BANKCALL STOFRATE DOWNFLAG XOVINFLG DOWNFLAG REDFLAG VERTGUID	# TEMPORARY, I HOPE HOPE # TEMPORARY, I HOPE HOPE # FERMIT X-AXIS OVERRIDE	
STARTP67	TC DEC CAF TS CAF TCF	NEWMODEX 67 ZERO RODCOUNT TEN VRTSTART	# NO HARM IN "STARING" F67 OVER AND OVER # SO NO NEED FOR A FASTCHNG AND NO NEED # TO SEE IF ALREADY IN F67.	
STABL?	CAF EXTEND RAND	BIT13 CHAN31	<pre># IS UN-ATTITUDE-HOLD DISCRETE PRESENT?</pre>	
	CCS	A GUILDRET	# YES ALL'S WELL	
P66NOW?	CS AD EXTEND	MODREG DEC66		
	BZF	RESTART?		
	CA EXTEND BZF	CUILDRET	<pre># NO. HAS THE ROD SWITCH BEEN "CLICKED"? # NO. CONTINUE WITH AUTOMATIC LANDING # VEE SWITCH INTO THE ROD NOTE </pre>	
RESTART?	TCF CA	STARTP66 FLAGWRD1	<pre># YES. SWITCH INTO THE ROD MODE. # HAS THERE BEEN & RESTART?</pre>	
	MASK EXTEND BZF	RODFLBIT STRTP66A	# YES. REINITIALIZE BUT LEAVE VDGVERT AS	
		VERTGUID	<pre># IS. # NO: CONTINUE WITH R.O.D.</pre>	

```
/* grep: search for regexp in file */
int grep(char *regexp, FILE *f, char *name)
£
       int n, nmatch;
       char buf[BUFSIZ];
       nmatch = 0;
       while (fgets(buf, sizeof buf, f) != NULL) {
               n = strlen(buf);
               if (n > 0 \& buf[n-1] == ' n')
                       buf [n-1] = ' \ 0';
               if (match(regexp, buf)) {
                       nmatch++;
                       if (name != NULL)
                               printf("%s:", name);
                       printf("%s\n", buf);
               }
       ÷.
       return nmatch;
}
/* matchhere: search for regexp at beginning of text */
int matchhere(char *regexp, char *text)
{
       if (regexp[0] == ' \ 0')
               return 1;
       if (regexp[1] == '*')
               return matchstar(regexp[0], regexp+2, text);
       if (regexp[0] == '$' && regexp[1] == '\0')
               return *text == '\0';
       if (*text!='\0' && (regexp[0]=='.' || regexp[0]==*text))
               return matchhere(regexp+1, text+1);
       return 0;
}
/* match: search for regexp anywhere in text */
int match(char *regexp, char *text)
{
       if (regexp[0] == '^')
               return matchhere(regexp+1, text);
       do {    /* must look even if string is empty */
               if (matchhere(regexp, text))
                       return 1:
       } while (*text++ != '\0');
       return 0;
}
/* matchstar: search for c*regexp at beginning of text */
int matchstar(int c, char *regexp, char *text)
{
       if (matchhere(regexp, text))
                       return 1;
       } while (*text != '\0' && (*text++ == c || c == '.'));
       return 0;
}
```

```
/**
 * Runs the bare test sequence.
 * @exception Throwable if any exception is thrown
*/
public void runBare() throws Throwable {
   setUp();
    try {
        runTest();
    }
   finally {
        tearDown();
/**
 * Override to run the test and assert its state.
 * @exception Throwable if any exception is thrown
 */
protected void runTest() throws Throwable {
   Method runMethod= null;
    try {
        // use getMethod to get all public inherited
       // methods. getDeclaredMethods returns all
       // methods of this class but excludes the
        // inherited ones.
       runMethod= getClass().getMethod(fName, null);
    } catch (NoSuchMethodException e) {
        fail("Method \""+fName+"\" not found");
    }
    if (!Modifier.isPublic(runMethod.getModifiers())) {
       fail("Method \""+fName+"\" should be public");
    }
   try {
       runMethod.invoke(this, new Class[0]);
    }
    catch (InvocationTargetException e) {
       e.fillInStackTrace();
       throw e.getTargetException();
    }
    catch (IllegalAccessException e) {
       e.fillInStackTrace();
        throw e;
    }
```

Would you do anything differently in the development of AWK looking back?

One of the things that I would have done differently is instituting rigorous testing as we started to develop the language. We initially created AWK as a 'throw-away' language, so we didn't do rigorous quality control as part of our initial implementation.

I mentioned to you earlier that there was a person who wrote a CAD system in AWK. The reason he initially came to see me was to report a bug in the AWK compiler. He was very testy with me saying I had wasted three weeks of his life, as he had been looking for a bug in his own code only to discover that it was a bug in the AWK compiler! I huddled with Brian Kernighan after this, and we agreed we really need to do something differently in terms of quality control. So we instituted a rigorous regression test for all of the features of AWK. Any of the three of us who put in a new feature into the language from then on, first had to write a test for the new feature.

```
#!/usr/bin/perl
PerlInterpreter
                            # PerlInterpreter must be the first line of the file.
#
# Copyright (c) 1995, Cunningham & Cunningham, Inc.
#
# This program has been generated by the HyperPerl
# generator. The source hypertext can be found
# at http://c2.com/cgi/wikibase. This program belongs
# to Cunningham & Cunningham, Inc., is to be used
# only by agreement with the owner, and then only
# with the understanding that the owner cannot be
# responsible for any behaviour of the program or
# any damages that it may cause.
                   **********************************
                                                       InitialComments
```

```
# InitialComments
print "Content-type: text/html\n\n";
$DBM = "/usr/ward/$ScriptName";
dbmopen(%db, $DBM, 0666) | &AbortScript("can't open $DBM");
$CookedInput{browse} && &HandleBrowse;
$CookedInput{links} && &HandleLinks;
$CookedInput(search) && &HandleSearch;
dbmclose (%db);
if ($ENV{REQUEST METHOD} eq POST) {
# &DumpBinding(*CookedInput);
# &DumpBinding(*old);
# &DumpBinding(*ENV);
                                                WikiInHvperPerl
```

```
// Erwin Unruh, untitled program,
// ANSI X3J16-94-0075/ISO WG21-462, 1994.
template <int i>
struct D
    D(void *);
    operator int();
};
template <int p, int i>
struct is prime
{
    enum { prim = (p%i) && is prime<(i>2?p:0), i>::prim };
};
template <int i>
struct Prime print
    Prime print<i-1>
                       a;
    enum { prim = is prime<i,i-1>::prim };
    void f() { D<i> d = prim; }
};
struct is prime<0,0> { enum { prim = 1 }; };
struct is prime<0,1> { enum { prim = 1 }; };
struct Prime print<2>
    enum { prim = 1 };
    void f() { D<2> d = prim; }
};
void foo()
    Prime print<10> a;
-}
// output:
// unruh.cpp 30: conversion from enum to D<2> requested in Prime print
// unruh.cpp 30: conversion from enum to D<3> requested in Prime print
// unruh.cpp 30: conversion from enum to D<5> requested in Prime print
// unruh.cpp 30: conversion from enum to D<7> requested in Prime print
// unruh.cpp 30: conversion from enum to D<11> requested in Prime print
// unruh.cpp 30: conversion from enum to D<13> requested in Prime print
// unruh.cpp 30: conversion from enum to D<17> requested in Prime print
// unruh.cpp 30: conversion from enum to D<19> requested in Prime print
```

base / lib / base.rb 🙉

Edit this file

100644 | 91 lines (74 sloc) | 2.112 kb raw | blams | history 1 class Rase VERSION - "0.0.2" 4 def self.const_missing name all_modules.each do [mod] return mod.const_get(name) if mod.const_defined?(name) 6 end. super end. def self.all_modules modules = ObjectSpace.each_object(Nodule).select do [mod] should extract from? (mod) end modules 44 Kernel modules end def self.should_extract_from?(mod)
 return false if module_is_base?(mod) return mod.is_a7(Nodule) 66 mod != Karnal end. def self.method_missing name, *args, &block
 call_method(self, name, args, block) { super } end. def method_missing name, *args, &block self.class.call method(self, name, args, block) { super } def self.call_method(object, name, args, block) name string = name.to a all_modules.each do [mod] if mod.respond to?(name) return mod.send name, *args, Sblock elsif mod.instance_methods.include?(name_string) return call_instance_method(mod, name, args, block) end end. # coll "super" in the context of the method_missing coller yield def self.call_instance_method(mod, name, args, block) if mod.is_s7 Class klass - Class.new(mod) klass = Class.new { include mod } end object = self.instantiate_regardless_of_argument_count(klass) return object.send name, Vargs, Sblock end. def self.instantiate_regardless_of_argument_count(klass) (0..100) .each do [arg_count] begin return klass.new[*[nil] * arg_count) rescue ArgumentError end. end end. def self.methods (giant_method_list_including_object(self) + super).unig end 71 72 73 def methods (self.class.giant_method_list_including_object(self) + super).uniq end. 74 75 76 77 78 79 80 81 82 83 84 85 85 85 85 85 85 85 85 85 89 90 91 # INHERIT ALL THE METHODS! def self.giant_method_list_including_object(object) methods = [] all_modules.each do [mod] unless module_is_s_base?(mod) methods.concat(mod.methods).concat(mod.instance_methods) end end methods end. def self.module_is_s_base7(mod) mod.is_a7(Base) || mod < Base || mod == Base end. end

LISP 1.5 Programmer's Manual

The Computation Center and Research Laboratory of Electronics

Massachusetts Institute of Technology





```
(define (eval exp env)
  (cond ((self-evaluating? exp) exp)
        ((variable? exp) (lookup-variable-value exp env))
        ((quoted? exp) (text-of-quotation exp))
        ((assignment? exp) (eval-assignment exp env))
        ((definition? exp) (eval-definition exp env))
        ((1f? exp) (eval-if exp env))
        ((lambda? exp)
         (make-procedure (lambda-parameters exp)
                         (lambda-body exp)
                         env))
        ((begin? exp)
         (eval-sequence (begin-actions exp) env))
        ((cond? exp) (eval (cond->if exp) env))
        ((application? exp)
         (apply (eval (operator exp) env)
                (list-of-values (operands exp) env)))
        (else
         (error "Unknown expression type - EVAL" exp))))
```

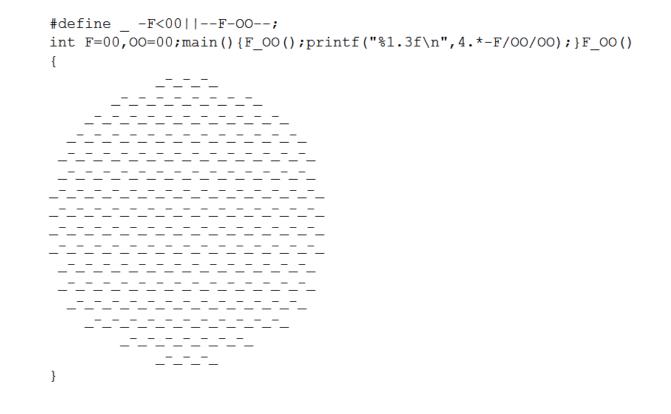
```
def eval(x, env=global env):
   "Evaluate an expression in an environment."
                               # variable reference
   if isa(x, Symbol):
       return env.find(x)[x]
   elif not isa(x, list): # constant literal
       return x
   elif x[0] == 'quote': # (quote exp)
       (, exp) = x
       return exp
   elif x[0] == 'if':
                        # (if test conseq alt)
       (, test, conseq, alt) = x
       return eval((conseq if eval(test, env) else alt), env)
   elif x[0] == 'set!':
                         # (set! var exp)
       (, var, exp) = x
       env.find(var)[var] = eval(exp, env)
   elif x[0] == 'define': # (define var exp)
       (, var, exp) = x
       env[var] = eval(exp, env)
   elif x[0] == 'lambda': # (lambda (var*) exp)
       (, vars, exp) = x
       return lambda *args: eval(exp, Env(vars, args, env))
   elif x[0] == 'begin':
                          # (begin exp*)
       for exp in x[1:]:
          val = eval(exp, env)
      return val
   else:
                                 # (proc exp*)
       exps = [eval(exp, env) for exp in x]
       proc = exps.pop(0)
       return proc(*exps)
isa = isinstance
Symbol = str
def to string(exp):
   "Convert a Python object back into a Lisp-readable string."
   return '('+' '.join(map(to string, exp))+')' if isa(exp, list) else str(exp)
def repl(prompt='lis.py> '):
   "A prompt-read-eval-print loop."
```

```
val = eval(parse(raw_input(prompt)))
if val is not None: print to string(val)
```

while True:

char

```
3141592654[3141
         ], __3141[3141]; _314159[31415], _3141[31415]; main() {register char*
      3 141,* 3 1415, * 3 1415; register int 314, 31415, 31415,* 31,
    3 14159, 3 1415;*_3141592654=__31415=2,_3141592654[0][_3141592654
  -1]=1[__3141]=5;__3_1415=1;do{_3_14159=_314=0,__31415++;for(__31415
 =0; 31415<(3,14-4)* 31415; 31415++) 31415[ 3141]= 314159[ 31415]= -
1; 3141[* 314159= 3 14159]= 314; 3 141= 3141592654+ 3 1415; 3 1415=
3 1415 + 3141;for
                                     ( 31415 = 3141-
          __3_1415 ;
                                      31415; 31415--
                                      _3_1415++) { 314
          , 3 141 ++,
                                      _314<<=1;_314+=
          += 314<<2 ;
         * 3 1415; 31
                                       = 314159+ 314;
                                      )* 31 = 314 /
         if(!(* 31+1)
         31415, 314
                                      [ 3141]= 314 %
                                       _3__1415=_3_141
          31415 ;* (
        )+= * 3 1415
                                       = * 31;while(*
        3 1415 >=
                                        31415/3141 ) *
        3 1415+= -
                                        10, (*-- 3 1415
       )++; 314= 314
                                        [ 3141]; if ( !
       3 14159 && *
                                        3 1415) 3 14159
       =1, 3 1415 =
                                        3141- 31415;}if(
       314+( 31415
                                        >>1)>= 31415 )
       while ( ++ *
                                         3 141==3141/314
      )* 3 141--=0
                                         ;}while( 3 14159
      ) ; { char *
                                          3 14= "3.1415";
                                         (--* 3 14, 3 14
      write((3,1),
                                         ++,++ 3 14159))+
      ), ( 3 14159
                                         for ( 31415 = 1;
     3.1415926; \}
     31415<3141-
                                         1; 31415++)write(
    31415% 314-(
                                          3,14), 3141592654[
  31415 ] +
                                         "0123456789", "314"
  [ 3]+1)- 314;
                                         puts((* 3141592654=0
, 3141592654))
                                          ; 314= *"3.141592";}
```

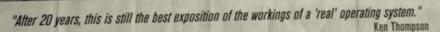


<pre>v=0000;eval\$s=%q~d=%!^Lcf<lk8, 4ZojjV)0>qIH1/n[2yE[>:ieC vH2b[F^e7C/56ilpmBe+:)B "##%</lk8, </pre>	_@7gj*LJ=c5nM)Tp1g0%Xv.,S[<>YoP "%.#% :::##" 97N-A&Kj_K_> <ws5rtwk@*a+y5 ::##########" 098(Zh)'Iof*nm.,\$C5Nyt=</ws5rtwk@*a+y5
	######################################
6ygIL8xI#LNz3v}T=4W "#	#####:#######" 1L27FZ0ij)7TQCI)P7u
}RT5-iJbbG5P-DHB<. "	######################################
\$*are@b4U351Q-ug5 "	######################################
PFixrPvl& <p[]1ij "<br="">y]0`PstfUxOC(q "</p[]1ij>	######################################
y]0`PstfUxOC(q "	.#####################################
zcaAi?]^lCVYp!; " %%	.#####################################
(;v=(v-(\$*+[45, ":####:	:############## : "])[n=0].to i;)%
360)+"al\$s=%q#{ "%######.	######################################
126}";d.gsub!(/ "###########.	#######% " \s ".*"/,"");;
require"zlib" "###########	:######. ";d=d.unpack"C*"
d.map{ c n=(n ":#########:	.#######: . ")*90+(c-2)%91};
e=["%x"%n].pack " :######%	:###### #: " &&"H*";e=Zlib::
Inflate.inflate(" ######%	.####% :: " &&e).unpack("b*"
)[0];22.times{ y " ####%	%### ";w=(Math.sqrt(1-(.#% ";2))*23).floor;(w*
(y*2.0-21)/22)**(; ".###:	.#% " ;2))*23).floor;(w*
2-1).times{ x u=(e+ " %##	")[y*z=360,z]*2;u=u[
90*x/w+v+90,90/w];s[(" #.	";y*80)+120-w+x]=(""<<
32<<".:%#")[4*u.count((".	";"0"))/u.size]}};;puts\
s+";_ The Qlobe#{" "*18+ (
oh, 2010")}";exit~;_ The Qlobe	Copyright(C).Yusuke Endoh, 2010

#!/bin/bash function f() { sleep "\$1" echo "\$1" } while [-n "\$1"] do f "\$1" & shift done wait

/^1?\$|^(11+?)\1+\$/

:;while [\$? -eq 0];do nc -vlp 8080 -c'(r=read;e=echo;\$r a b c;z=\$r;while [\${#z} -gt 2];do \$r z;done;f=`\$e \$b|sed 's/[^az0-9_.-]//gi'`;h="HTTP/1.0";o="\$h 200 OK\r\n";c="Content";if [-z \$f];then(\$e \$o;ls|(while \$r n;do if [-f "\$n"]; then \$e "`ls -gh \$n`
";fi;done););elif [-f \$f];then \$e "\$o\$c-Type: `file -ib \$f`\n\$c-Length: `stat -c%s \$f`";\$e;cat \$f;else \$e -e "\$h 404 Not Found\n\n404\n";fi)';done



OF THE

1980

Lions' Commentary on UNIX° Gth Edition with Source Code

John Lions

Foreword by Dennis Ritchie

10 Summery--what's most Important. To put my strongest concerns in a nutabell: 1. We should have some ways of coupling programs bike garden hose-screw in another segment when it becomes when it becomes necessary to massage data in eacher way. 1 Shis is the way of 10 also. 2. Our loader should be able to do link-loading and controlled establishment. 3. Our library filing scheme should allow for rather general indexing, responsibility, generations, data path ewitching. 4. It should be possible th get private system components (all routines are sytem components) for buggering around with. M. D. McIlroy Oct. 11#1964

While Thompson and Ritchie were laying out their file system, McIlroy was "sketching out how to do data processing by connecting together cascades of processes and looking for a kind of prefix-notation language for connecting processes together."

Over a period from 1970 to 1972, McIlroy suggested proposal after proposal. He recalls the break-through day: "Then one day, I came up with a syntax for the shell that went along with the piping, and Ken said, I'm gonna do it. He was tired of hearing all this stuff." Thompson didn't do exactly what McIlroy had proposed for the pipe system call, but "invented a slightly better one. That finally got changed once more to what we have today. He put pipes into Unix." Thompson also had to change most of the programs, because up until that time, they couldn't take standard input. There wasn't really a need; they all had file arguments. "GREP had a file argument, CAT had a file argument."

The next morning, "we had this orgy of `one liners.' Everybody had a one liner. Look at this, look at that. ...Everybody started putting forth the UNIX philosophy. Write programs that do one thing and do it well. Write programs to work together. Write programs that handle text streams, because that is a universal interface." Those ideas which add up to the tool approach, were there in some unformed way before pipes, but they really came together afterwards. Pipes became the catalyst for this UNIX philosophy. "The tool thing has turned out to be actually successful. With pipes, many programs could work together, and they could work together at a distance."

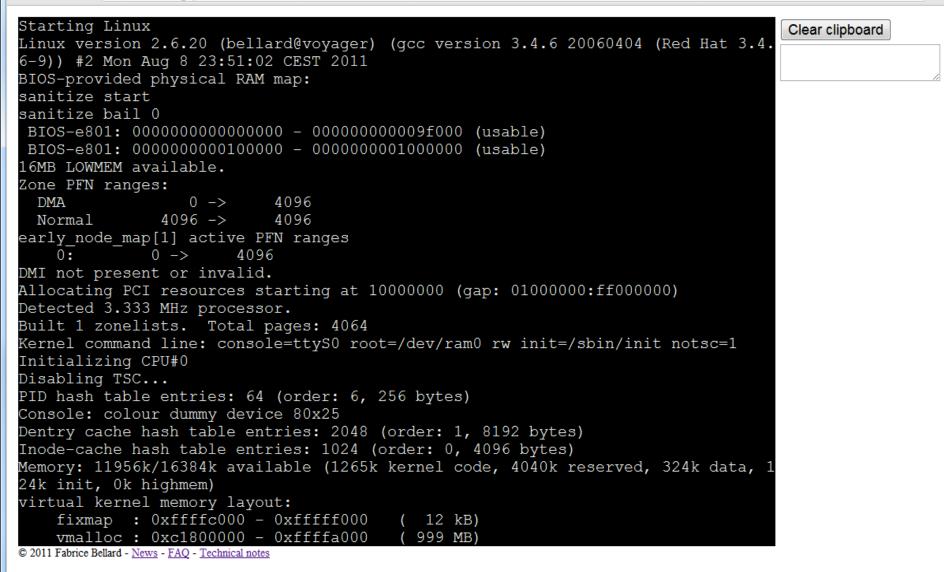
Any application that *can* be written in JavaScript, *will* eventually be written in JavaScript.



Atwood's Law

🔇 Javascript PC Emulato 🗴 🕀

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1 message - Collapse all - Report discussion as spam

Tim Berners-Lee View profile

****** (1 user) More options Aug 20 1991, 2:01 pm

The WorldWideWeb application is now available as an alpha release in source and binary form from info.cern.ch.

WorldWideWeb is a hypertext browser/editor which allows one to read information from local files and remote servers. It allows hypertext links to be made and traversed, and also remote indexes to be interrogated for lists of useful documents. Local files may be edited, and links made from areas of text to other files, remote files, remote indexes, remote index searches, internet news groups and articles. All these sources of information are presented in a consistent way to the reader. For example, an index search returns a hypertext document with pointers to documents matching the query. Internet news articles are displayed with hypertext links to other referenced articles and groups.

The code is not strictly public domain: it is copyright CERN (see copyright notice is in the .tar), but is free to collaborating institutes.

Also available is a portable line mode browser which allows hypertext to be browsed by anyone with a dumb ascii terminal emulator. Hypertext may be made public by putting on an anonymous FTP server, or by using a HTTP daemon. A skeleton HTTP daemon is also available in source form. A server may be written to make other existing data readable by WWW browsers. Files are

/pub/WWWNeXTStepEditor_0.12.tar.Z	NeXT application + sources
/pub/WWWLineMode_0.11.tar.Z	Portable Line Mode Browser
/pub/WWWDaemon_0.1.tar.Z	Simple server

Basic documentation is enclosed. Details about our project and about hypertext in general are available in hypertext form on our servers, as are lists of known bugs and features.

This project is experimental and of course comes without any warranty whatsoever. However, it could start a revolution in information access. We are currently using WWW for user support at CERN. We would be very interested in comments from anyone trying WWW, and especially those making other data available, as part of a truly world-wide web.

Tim BL

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If you don't have time to read, you don't have the time or the tools to write.

Stephen King