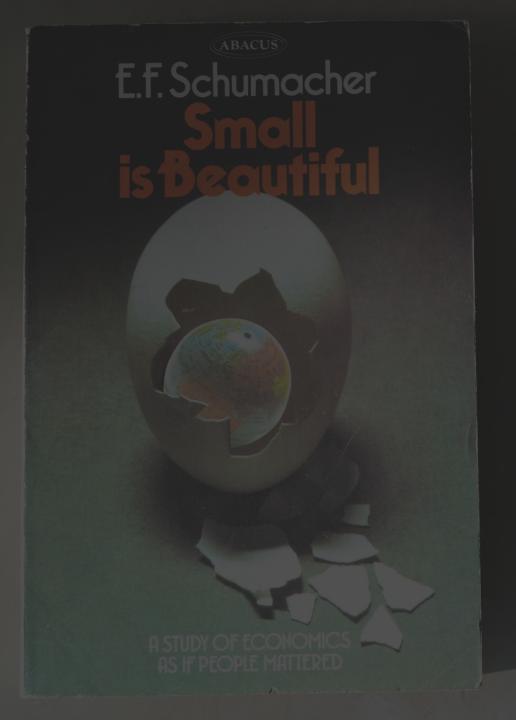


E.f. Schumacher Small is Beautiful



A STUDY OF ECONOMICS AS IF PEOPLE MATTERED



Small Is Beautiful

A talk on code as if people mattered

A talk on code as if economics mattered

@KevlinHenney

Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

The Report of the Brundtland Commission

E.f. Schumacher Small is Beautiful

For every activity there is a certain appropriate scale.

A STUDY OF ECONOMICS
AS IF PEOPLE MATTERED

To be, or not to be: that is the question: Whether 'tis nobler in the mind to suffer The slings and arrows of outrageous fortune, Or to take arms against a sea of troubles, And by opposing end them?

William Shakespeare *Hamlet*

Continuing existence or cessation of existence: those are the scenarios. Is it more empowering mentally to work towards an accommodation of the downsizings and negative outcomes of adversarial circumstance, or would it be a greater enhancement of the bottom line to move forwards to a challenge to our current difficulties, and, by making a commitment to opposition, to effect their demise?

Tom Burton Long Words Bother Me

Continuing existence or cessation of existence:

those are the more empow to work towa accommodat downsizings outcomes of circumstance a greater enh the bottom li forwards to a our current d by making a

opposition, t

demise?

This is the monstrosity in love, lady, that the will is infinite, and the execution confined; that the desire is boundless, and the act a slave to limit.

William Shakespeare
Troilus and Cressida





WILEY SERIES IN
SOFTWARE DESIGN PATTERNS

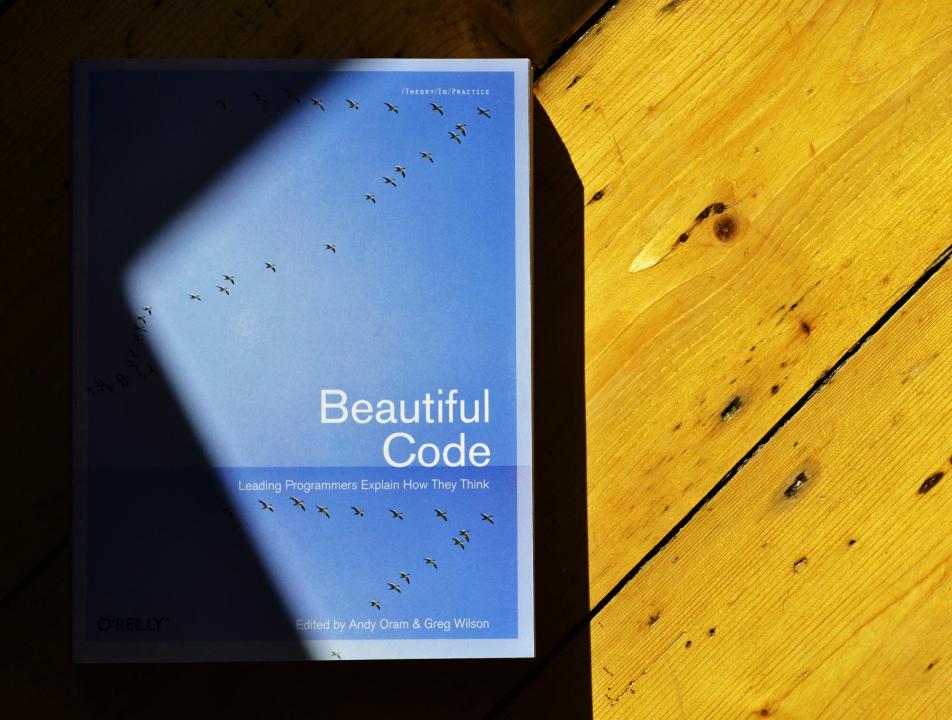
PATTERN-ORIENTED SOFTWARE ARCHITECTURE

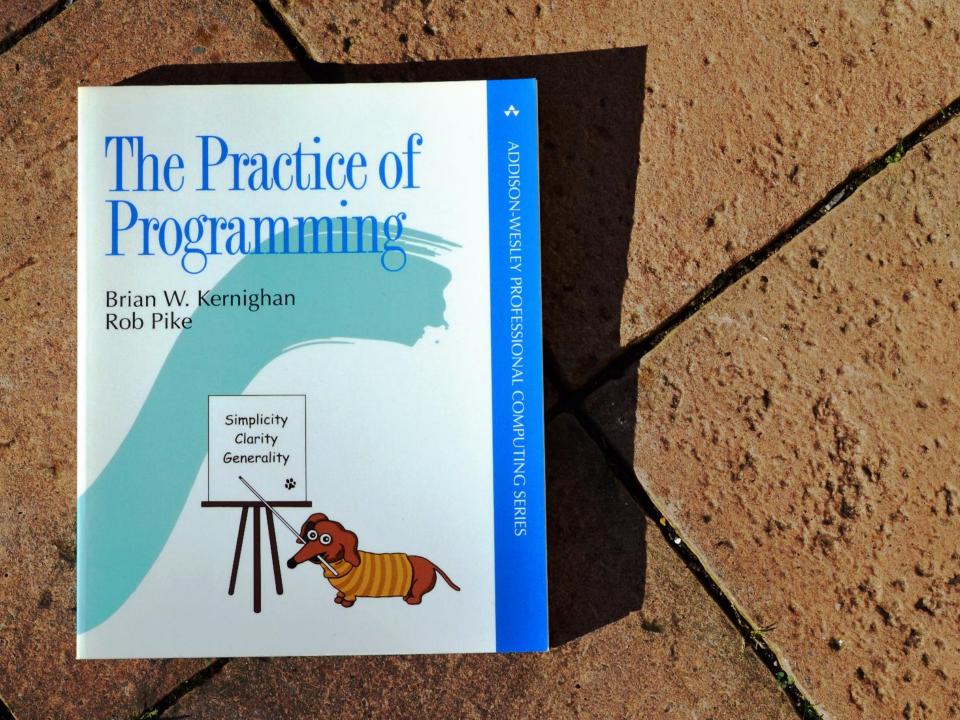
On Patterns and Pattern Languages



Volume 5

Frank Buschmann Kevlin Henney Douglas C. Schmidt At some level the style becomes the substance.





The Practice of Programming

Brian W. Kernighan Rob Pike

Simplicity
Clarity
Generality

```
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] = ' \setminus 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);
               /* 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)
               /* a * matches zero or more instances */
    do {
        if (matchhere(regexp, text))
            return 1;
    } while (*text != '\0' && (*text++ == c || c == '.'));
    return 0;
```

/* grep: search for regexp in file */

```
JP NZ DIS
                                                                                                                                          32 245
                                         CALL SHIFT 205 242 65
                                                                    16721
                                                                              LD A (HL)
                                                                                             126
16571 LD C A
                                                                                                                           POP BC
                                                                                                                                          193
                                          CALL CHK
                                                     205 1 66
                                                                    (81)
                                                                              AND N
                                                                                              239 128
     LD L A
LD H N
LD A (HL)
                                          EXX
                                                                                                                           POP HL
                                                                                                                                           225
                                                                    (65)
                                                                              LD HL NN
                                                                                             33 228 64
                                          FD(HF) B.
               126
                                                                                                                           SCF
                                                                                                                                           55
                                                                              JP NZ DIS
                                                                                             32 2
      LD B N
                                         LDAC
                                                                                                                           RET
                                                                                                                                           201
      AND N
                                          JP C BIS
                                                                                             46 241
                                                     18
                                                                              LD L
      CP N
JP Z DIS
INC B
                                                                                                                           POP BC
                                                      56
                                                                                                                                           193
                                                                                             22 3
                                                                              LD D
                                          CALL SCORE 205 153 65
                                         SCF 55
CRLL SHIFT 205 242 65
JP DIS 24 232
                                                                                                                           POP HL
                                                                                                                                           225
                                                                              LD A
                                                                                      Ε
                                                                                              123
      CP H
      JENDIS
CPN
JPCDIS
LDA(HL)
INCB
                                                                                                                           DJNZ DIS
                                                                                                                                           16 216
               40 15
254 39
                                                                              ADD (HL)
                                                                                              134
                                                                                                                           AND A
                                                                                                                                           167
               56 11
126
                                                                              PUSH HL
                                                                                              229
                                          POP BC
                                                      193
                          '0" DIFF
                                                                                                                           RET
                                                                                                                                           201
                                                                              PUSH AF
                                                                                              245
                                          POP HL
                                                      225
                                                                                                                 SCORE
                46 55
                          1" EMPTY
                                          DJNZ DIS
                                                     16 200
                                                                              CP N
                                                                                              254 63
                                                     58 65 64
254 0
40 254 •
                                          LD A (NN)
                                                                                                                 16793
                                                                              JP C DIS
                                                                                                                           PUSH HL
                                                                                                                                           229
                                                                                              56 32
                          '2" NALL
                                         CP N
JP Z DIS
      JP Z DIS
LD B N
LD A B
                48
                                                                              CP N
                                                                                                                 (153)
                                                                                                                           PUSH BC
                                                                                                                                           197
                                                                                              254 148
                  0
                          3" SME
                                                                                                                                           213
229
                                                                                                                 (65)
                                                                                                                           PUSH DE
                                                                              JP NC DIS
                                                                                              48 28
                                          LD HL NN
                                                     33 69 64
                                                                                                                           PUSH HL
PUSH BC
      LD L C
                105
                                          LD A (HL)
                                                     126
                                                                              CALL STR
                                                                                              205 187 64
                201
                                          DEC HL
                                                      43
                                                                                                                                           197
                                                                              CP N
                                                                                              254 0
      1 11 -1 -11 -10 -12 12 10
13 -13 21 -21 23 -23 -9 9
11 10 12
                                         DEC HL
LD E (HL)
                                                      43
16607
                                                                                                                                           85
                                                                              JP Z DIS
                                                                                                                           LDDL
                                                                                              40 28
                                                     94
22 67
                                                                                                                           LD HL NN
                                                                                                                                           33 64 64
                                          LD D N
                                                                              CP N
                                                                                              254 1
PIECE
      54 55 39 51 53
                                         LD (DE) A
                                                     18
                                                                                                                                           205 36 7
                                                                               JP NZ DIS 32 17
                                                                                                                           CALL NN
                                         DEC HL
                                                      43
                                                                                                                           CALL PSC
                                                                                                                                           205 10 67
                                                                              LD A D
                                                                                              122
     LD (HN) A
LD A (HL)
AND H
CP P
               56 76 64
126
236 127
254 53
                                                     110
(247)
                                                                                                                           LD A B
                                                                                                                                           120
                                          LD H D
                                                                              CP N
                                                     98
                                                                                              254 1
                                         BIT O.L
                                                      203 69
                                                                                                                           ADD A Ħ
                                                                                                                                           132
                                                                              JP NZ DIS
                                                                                              32 12
                                                     54 0
                                          LD(HL) N
      JP Z DIS
LD C H
LD B N
LD HL NN
CP N
                                                                                                                           LD C A
                                                                                                                                           79
                48 79
                                                                              CALL ALIST 205 141 66
                                          JP Z DIS
                                  (66)
                                                      40 2
                                                                                                                           POP AF
                                                                                                                                           241
                                         LD(HL) N 54 129
CALL CHGMV 285 247 66
                                                                               LD A E
                                                                                              123
                6 8
33 231
254 51
                                                                                                                           CALL PSC
                                                                                                                                           205
                                                                                                                                                10 67
                                                                               CP N
                                                                                              254 82
                                          RET
                                                     201
                                                                                                                           POP HL
                                                                                                                                           225
                                                                              JP C DIS
       JP Z 115
                                                                                              56 19
254 126
                48 22
                                                                                                                           CALL INC
                                                                                                                                           205
                                                                                                                                                24 67
                                         LDAL
                                  17176
                                                                               CP N
      JP Z DIS
LD C B
CP Q
JP Z DIS
LD B H
CP R
                                  (24)
                                          EXX
                                                                                                                            JP NC DIS
                                                                                                                                           48 1
                48 16
72
254 54
                                                                               JP NC DIS
                                                      217
                                                                                              48 15
                                          LD(NN) A
                                  (67)
                                          LD(NN) A 50 128 64
CALL SOLAT 205 16 66
                                                                                                                           ADD A B
                                                                                                                                           128
                                                                              POP AF
                                                                                              241
                                                                                                                           LD C A
                                                                                                                                           79
                                                                              POP HL
                                                                                              225
                                          EXX
                                                     217
                6 4
254 55
                                                                                                                           POP HL
                                                                                                                                           225
                                          LDAC
                                                      121
                                                                         DEC INC HL
                                                                                              43
       JP Z DIS
LD L H
CP B
                46 5
46 227
254 39
192
                                          RET
                                                      291
                                                                                                                            POP DE
                                                                                                                                           209
                                                                               DEC D
                                                                                              21
                                  DRIVER
                                                                                                                            LD E (HL)
                                                                               JP NZ DIS
                                                                                              32
                                                                                                  210
                                  16959
                                         LDBH
       RET NZ
                                                                                                                           LD (HL) D
                                                                                                                                           114
                                                     62 8
33 159 67
                                   (63)
                                                                               RET
                                                                                              201
                                          LD HL NN
                                                                                                                           PUSH HL
                                                                                                                                           229
                                                                              LDAD
                                                                                              122
 SHIFT
                                          INC HL
                                                      35
                                                                                                                            PUSH DE
                                                                                                                                            213
                                                                               CP N
                                                                                              254 1
 16882
       LD HL NN
                    33 99 64
                                          LD(HL) A
                                                     119
 (242)
                                                                                                                            CALL INC
                    17 78 64
                                                                                                                                           205 24 67
       LD DE NN
                                          DJNZ DIS
                                                     16 252
                                                                               CALL NZ ALIST 196 141 66
                                         DJNZ DIS 16 ZOZ
CALL KT 205 160 64
CP N 254 3
JP NZ DIS 32 238
LD (NN) HL 34 7 64
LD E L 93
 (65)
        LD BC NN
                        28 9
                                                                                                                            JP NC DIS
                                                                                                                                           48 1
                                                                               JP DIS
                                                                                              24 241
         JΡ
           C DIS
                                                                                                                            SUB B
                                                                              POP AF
                                                                                                                                            144
                                                                                              241
        EX DE HL
                    235
                                                                                                                            PUSH AF
                                                                                                                                            245
                                                                               POP HL
                                                                                              225
        LDIR
                    237 176
                                                                                                                            CALL CHEMV
                                                                                                                                           285 247 66
        RET
                    201
                                                                               LDEA
                                                                                               95
 PSC
                                          CALL MOVE
                                                     205 247 64
                                                                                                                            CALL CHK
                                                                                                                                            205 1 66
                                                                               JP DIS
                                                                                              24 197
                                                     33 161 67
205 160 64
 17162
        AND N
                                          LD HL NN
                    236 127
                                                                                                                            POP BC
                                                                                                                                            193
                                          CALL KT
        LD HL NN
                                                                     CHK
                    33 242 64
6 5
                                                                                                                            JP NC DIS
                                                                                                                                            48 2
                                                      245 2
                                                                     16897
                                                                               LD A (NN)
                                                                                              58 55 67
                                         JP NC DIS
         CP (HL)
                     190
                                                                                                                            INC B
                                                                                                                                            4
                                                                                               198 48
                                                                     (1)
                                                                               ADD N
         RET
                     200
35
                                                     48 228
                                                                                                                            INC B
                                                                                                                                            4
                                                                                               33 62 67
         INC HL
                                          CALL TL
                                                     285 138 66
                                                                     (66)
                                                                               LD HL NN
                                         CRLL TL 285 139 66
JP Z DIS 40 215
CP C 185
JP NZ DIS 32 248
CRLL PMOVE 285 255 66
EXX 217
CPLL CHK 285 1 66
        DJNZ DIS
                                                                                                                            POP DE
                                                                                                                                            209
                     16 251
                                                                               LD B A
                                                                                               71
         LDAB
                     129
                                                                                                                            POP HL
                                                                               CPIR
                                                                                               237
                                                                                                    177
        RET
                     201
                                                                                                                            LD (HL) E
                                                                                                                                            115
 MPSCAN
                                                                               DEC HL
                                                                                               43
                                                                                                                            POP HL
                                                                                                                                            225
                                                                               LD (NN) HL
                                                                                              34 128 64
                   50 65 64
6 86
 (150)
        LD (NN) A
                                                                                                                                            205
                                                                                                                            CALL CHG
                                                                                                                                                 250 66
                                                                     SQ.AT
                                                                               LD B N
                                                                                               6 86
 (66)
        LD B N
                                         JP C DIS
                                                      217
                                                                                                                            CALL INC
                                                                                                                                            205 24 67
         LD HL NN
                                                                     16912
                                                                               LD HL HN
                                                                                               33 62 67
                     33
35
                        62 67
                                                      56 8
                                         CALL CHGSQ 205 235 66
CALL MPSCAN 205 150 66
JP DIS 24 194
                                                                                                                            JP NC DIS
                                                                                                                                            48 1
         INC HL
                                                                     (16)
                                                                               INC HL
                                                                                               35
         PUSH HL
                                                                                                                            DEC B
                                                                     (66)
                                                                               PUSH HL
                                                                                               229
         PUSH BC
                     197
                                                                                                                            CALL CHG
                                                                                                                                            205
                                                                                                                                                 250 66
                                                                                               197
                                                                               PUSH BC
         LD E L
                                         LD (HL) B 112
LD A C 121
                                                                                                                            CALL CHEMV 205 247 66
         CALL STR2
                    205 191 64
                                                                               LDEL
                                                                                               93
        CP N
                                          LD (DE) A
JP DIS
                     254 3
                                                                                                                            LD A B
                                                                                                                                            120
                                                     18
                                                                               CALL STR2
                                                                                               205 191 64
         JP NZ DIS
                     32 41
107
                                                      24 249
                                                                                                                            LD HL NN
                                                                                                                                            33 60 64
                                                                               CP 0
                                                                                               254 0
        LD L E
                                  TEST LIST
                                                                                                                            LD (HL) R
                                                                                                                                            119
        LD ONE
         LD (NN) HL 34 7 64
CRLL MOVE 205 247 64
                                  17026
                                         LD HL NN
                                                                               JP NZ DIS
                                                                                               32 25
                                                      33
                                                         78 64
                                                                                                                            EX DE HL
                                   (130)
                                          DEC (HL)
                                                                                                                                            235
                                                      53
                                                                               CALL CHEMV
                                                                                               205 247 66
         CALL TL
                     205 130 66
                                  ( 66)
                                          LD A (HL)
                                                     126
68
                                                                                                                            LD HL NN
                                                                                                                                            33 65 64
                                                                                               107
         JP Z DIS
                                          INC A
                     48 29
                                                                                                                            CP (HL)
                                                                                                                                            190
         LDEA
                                                                               CALL MOVE
                                                                                               205 247
                     95
22
                                          RET Z
                                                      280
                                                                                                                            RET C
                                                                                                                                            216
                                          ADD L
                                                      133
                                                                                CALL CHEMY
                                                                                               205 247
                                                                                                                            LD BC NN
         CALL PMOVE 205 255 66
                                          LD L A
                                                      111
                                                                                                                                            1 5
                                                                               CALL TL
                                                                                               205 130
         EXX
                     217
                                          LD A (HL)
                                                      126
                                                                                                                             JP DIS
                                                                                JP Z DIS
                                                                                               40 10
                                                                                                                                            24 11
         AND A
                     167
                                          RET
                                                      201
```

LD HL(NN)

42 128 64

PANN

CP L

189

Copyright David Horne 1983

```
-RED-SECTOR-INC.-proudly-presents-a-33-year-old-record-:---
                               C1!
 BootChess is the smallest computer implementation of chess on any platform
 Chess in a 512-byte x86 boot sector for Windows / Linux / OS X / DOS / BSD
 Coded by Olivier "Baudsurfer/RSi" Poudade with extra help of Peter "QKumba"
 Ferrie. Logo by Frederic "Cleaner/Break" Cambus. (c)2015 WTFPL v2 license.
 "Fasm BootChess.asm" + "partcopy BootChess.bin 0 200 -f0" = PC floppy boot
:-BootChess.asm--
```

```
begin 644 FLOPPY.7Z
M-WJ\KR<<``/$P0TX"0,`````\!=``````\`):A<QL\=0%+!\0%F,\C).-Z
M;$=*5]JZ\`-6,?XTW!KSPJ'1-6G$ARFF9!HS3,#)')1N7*D;8SS;"#0\60AE
M-[CNTB+D/0Z9#=:_9P2KN#\MYXCNQEJ4BH1SX>/1=Y.`CHNM%WS\8U`$`F]A
ME2F#R_9K`29FA1V18\#-B:U'D*!T7:#C@1E\F9V(:ADLP`IM:_8Y*V'DZ8&R
M^3E%4FY*)6'@1\[,#&`C8,]([!@(HMOQ"W\G<F[88BP>-@<]WC*%UH*N^X%-
M[WY$$190UY2)N@1,XML;SK@NNA3&38?K<%CX1W4"L5!5W2S395P18V+\0=V"
MJWNAR%@(*3_.:<P-:G1ZO[%@A5**6J&Y3)!<5HFF0B,HLD,J\S:U./[EM:-X
MYP8KC) <= B(; IT": 8((FP%_*K904!T?\7\4K,+.C040HG9SC[0["\!W"M%_L^
M?%$0.4L.X3.G&\+FC?Y;9(`J+U".:ZCS>H,60^&21__MUPNQBLD&>EBP2%S<
M%:(#KYU5?5E?R;S>).`S)AMFCK^>;$X&3\C4H)>2V_I+I3G29!?CM^@P'A1\
M;>P"I59*Q3Y71<^834CZT/<14KJ.U*`42>PDP%N^.":ED\/)96K[*YB5#=NW
M;.JWHJ'C-GI!UCI1&7"#DB;Z4VE'/$W7/X^=$<H_+>Z1MR9-NU":DB8Q:5=>
M1\VA)\TS&70ZZ:IKAN+KC:P=4?76V>:H:24^AT4S;JOY)@JWNMC>`AUI-K)+
M,Y2F890+C'`)T1$B258[[S\F6D>&=F>2@"56SM+N&<\B+\Z_G-H`/JTFP$``
MC[496E4YX; VB/E9E?DCTT'16@YP$; LR] V>B*K9<M_R[KFAVZSK$G&%Q9ANEF
M4EB^Z7:L6>3E6P4(^<?:K?S[4BMTS1Y;($+YW5,]^"ED"3N`RRILW[4[\,2]
M+E^J#SY+9D*0$P[_$)/X<7A9^`O-_Y4H1@^I_'S>^YHP+E;`CX7S@X'`9<0E
M4_CUD38Q!:6P[F_!<$U'#-&1$:JM8!VZSK$G&%Q9ANEF4EB^Z7:L*"W<Q``!
M!`8``0F#"0`'"P$``2,#`0$%70``&``,U@"```@*`3?;3$L```4!$1T`0@!0
M`&\`=`!#`&@`90!S`',`+@!I`&T`9P```!0*`0!.7V=GM#G0`14&`0`@(```
```

A work of art is the unique result of a unique temperament.

Oscar Wilde

The more constraints one imposes, the more one frees one's self. And the arbitrariness of the constraint serves only to obtain precision of execution.

Igor Stravinsky



There have always been fairly severe size constraints on the Unix operating system and its software. Given the partially antagonistic desires for reasonable efficiency and expressive power, the size constraint has encouraged not only economy but a foreweertain elegance of design.

Dennis Ritchie and Ken Thompson "The UNIX Time-Sharing System", CACM Almost 19 years ago, when I was Byte magazine's executive editor and Web developer, I received the following email:

From: Ward Cunningham

Subject: wiki

Date: May 22, 1996 at 11:23:10 AM PDT

To: Jon Udell

Jon -- So what do you think of wiki? I put it up a year and a half ago when HTML authoring tools were in short supply. I think it has held up pretty well, though I suppose its days are numbered. Still, there is something about it we call WikiNature that is in short supply on the net and in computers in general. Regards. -- Ward

```
# 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
```



Chris Oldwood @chrisoldwood



Them: "Isn't a netbook screen a bit small?" Me: "No. If the code doesn't fit on it, it's too complicated."

9:36 AM - 21 Mar 2015

37 RETWEETS **16** FAVORITES







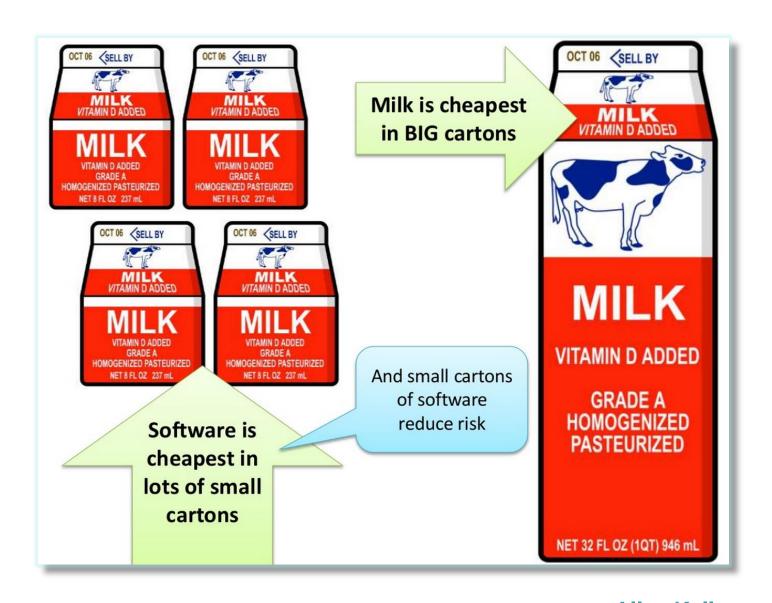
Eschew the monumental. Shun the Epic. All the guys who can paint great big pictures can paint great small ones.

E.f. Schumacher Small

Today, we suffer from an almost universal idolatry of giantism. It is therefore necessary to insist on the virtues of smallness where this applies.

Software development does *not* have economies of scale.

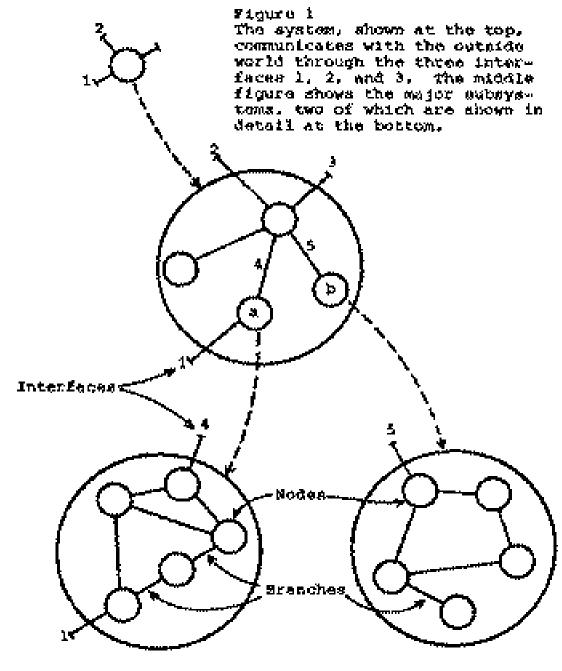
Development has *diseconomies* of scale.



Allan Kelly Beyond Projects

E.f. Schumacher Small

I say, therefore, that we think with or through ideas and that what we call thinking is generally the application of pre-existing ideas to a given situation or set of facts.



Bubayatam a

Subsystem b

Figure 1
The system, shown at the top, communicates with the outside world through the three inter-

The basic thesis is that organizations which design systems [...] are constrained to produce designs which are copies of the communication structures of these organizations.

Melvin Conway

How Do Committees Invent?

View Definition: Conway's Law

Conway's Law

prov. The rule that the organization of the software and the organization of the software team will be congruent; originally stated as "If you have four groups working on a compiler, you'll get a 4-pass compiler".

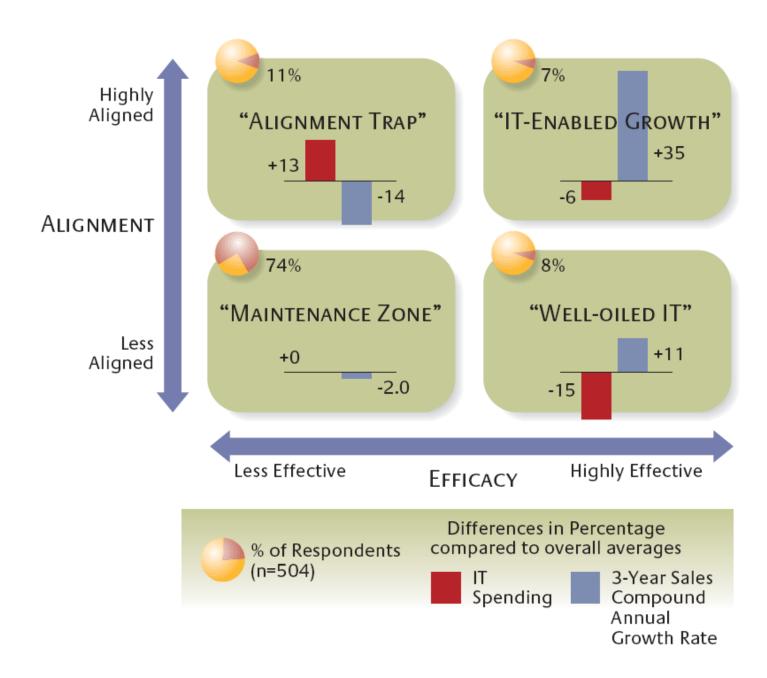
This was originally promulgated by Melvin Conway, an early proto-hacker who wrote an assembler for the Burroughs 220 called SAVE. The name `SAVE' didn't stand for anything; it was just that you lost fewer card decks and listings because they all had SAVE written on them.

IT's effort to satisfy its various (and sometimes conflicting) business constituencies created a set of Byzantine, overlapping systems that might satisfy individual units for a while but did not advance the company's business as a whole.

David Schpilberg, Steve Berez, Rudy Puryear and Sachin Shah "Avoiding the Alignment Trap in Information Technology"

MIT Sloan Management Review

http://sloanreview.mit.edu/article/avoiding-the-alignment-trap-in-it/



Aligning a poorly performing IT organization to the right business objectives still won't get the objectives accomplished.

Richard F Connell

David Schpilberg, Steve Berez, Rudy Puryear and Sachin Shah "Avoiding the Alignment Trap in Information Technology"

MIT Sloan Management Review

http://sloanreview.mit.edu/article/avoiding-the-alignment-trap-in-it/

Cargo cult programming is a style of computer programming characterized by the ritual inclusion of code or program structures that serve no real purpose.

Cargo cult programming can also refer to the results of applying a design pattern or coding style blindly without understanding the reasons behind that design principle.

FizzBuzzEnterpriseEdition

build passing

Enterprise software marks a special high-grade class of software that makes careful use of relevant software architecture design principles to build particularly customizable and extensible solutions to real problems. This project is an example of how the popular FizzBuzz game might be built were it subject to the high quality standards of enterprise software.

FizzBuzz

FizzBuzz is a game that has gained in popularity as a programming assignment to weed out non-programmers during job interviews. The object of the assignment is less about solving it correctly according to the below rules and more about showing the programmer understands basic, necessary tools such as if -/ else -statements and loops. The rules of FizzBuzz are as follows:

For numbers 1 through 100,

- if the number is divisible by 3 print Fizz;
- if the number is divisible by 5 print Buzz;
- if the number is divisible by 3 and 5 (15) print FizzBuzz;
- else, print the number.

FizzBuzzEnterpriseEdition / src / main / java / com / seriouscompany / business / java / fizzbuzz / packagenamingpackage / interfaces / factories / +

Merge #127		2 comments
Dmitry-Me authored on 22 Jul 2014		latest commit aad80defc4 🕏
FizzBuzzOutputStrategyFactory.java	Adding a factory to create the output strategy so that we never get I	a year ago
FizzBuzzSolutionStrategyFactory.j	Problem solution should be instantiated through factory class to make	2 years ago
■ IntegerPrinterFactory.java	Move sources	2 years ago
■ IntegerStringReturnerFactory.java	Move sources	2 years ago
■ IsEvenlyDivisibleStrategyFactory.java	Move sources	2 years ago
OutputGenerationContextVisitorFac	Merge #127	8 months ago
StringPrinterFactory.java	Move sources	2 years ago
StringStringReturnerFactory.java	Move sources	2 years ago

I have yet to see any problem, however complicated, which, when you looked at it in the right way, did not become still more complicated.

Anderson's Law



Paul McMahon @pwim



All code is technical debt; some code just has a higher interest rate.

7:13 AM - 29 Dec 2014

139 RETWEETS **97** FAVORITES







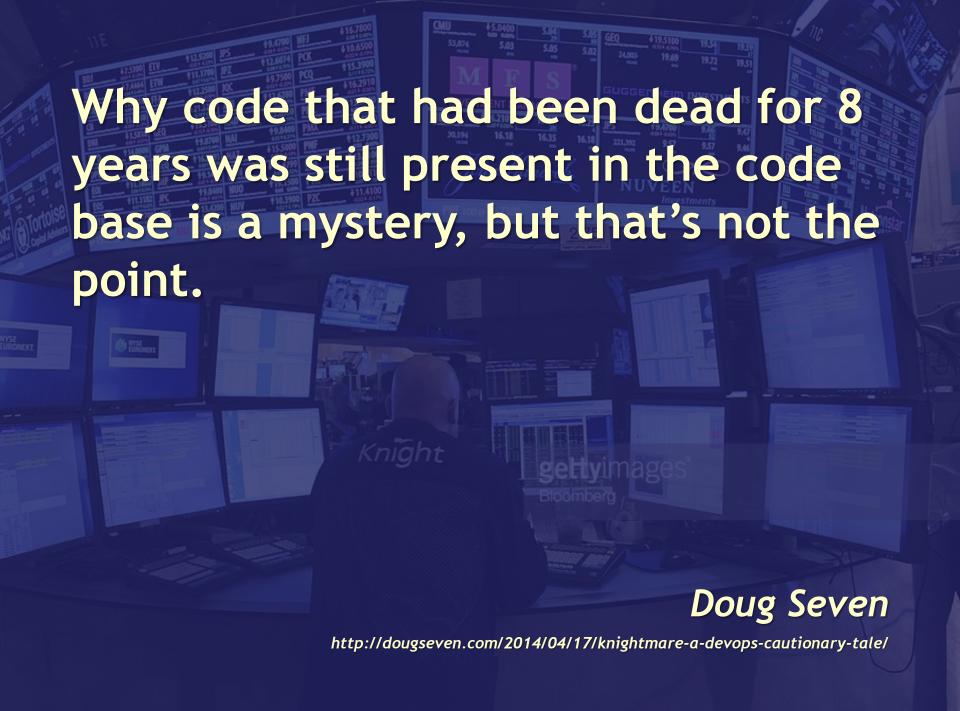




The update to SMARS was intended to replace old, unused code referred to as "Power Peg" — functionality that Knight hadn't used in 8-years.

Doug Seven

http://dougseven.com/2014/04/17/knightmare-a-devops-cautionary-tale/



In the first 45 minutes the market was open the Power Peg code received and processed 212 parent orders. As a result SMARS sent millions of child orders into the market resulting in 4 million transactions against 154 stocks for more than 397 million shares.

Doug Seven

http://dougseven.com/2014/04/17/knightmare-a-devops-cautionary-tale/

Our task is not to find the maximum amount of content in a work of art.

Our task is to cut back content so that we can see the thing at all.



Kevlin Henney@KevlinHenney



We keep talking about incremental development; we don't talk enough about decremental development.

11:39 AM - 28 Nov 2014

10 RETWEETS 4 FAVORITES







E.f. Schumacher

There is wisdom in smallness if only on account of the smallness and patchiness of human knowledge, which relies on experiment far more than on understanding.