

A Question of Craftsmanship

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PATTERN-OKILIS
SOFTWARE
ARCHITECTURE
A Pattern Language for



Frank Buschmann
Kevlin Henney
Douglas C Schmidt



SOFTWARE DESIGN PATTERNS

PATTERN-ORIENTED SOFTWARE ARCHITECTURE

On Patterns and Pattern Languages



Volume 5

Frank Buschmann Kevlin Henney Douglas C Schmidt Collective Wisdom from the Exports

97 Things Every Programmer Should Know

O'REILLY"

Edited by Kevlin Henney





Zkušenosti expertů z praxe

97 klíčových znalostí programátora

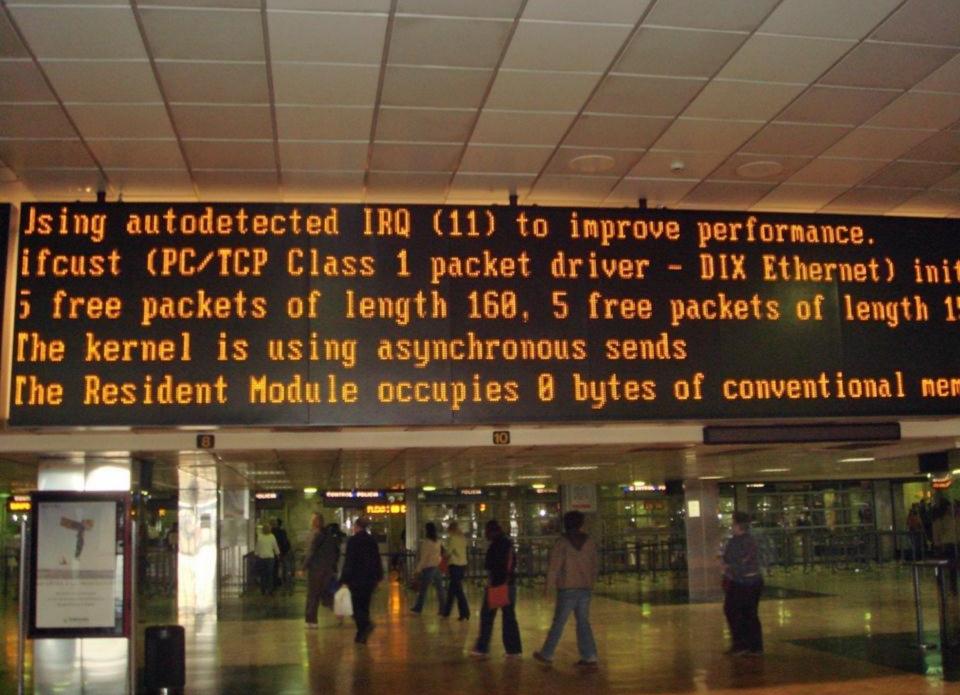
O'REILLY®



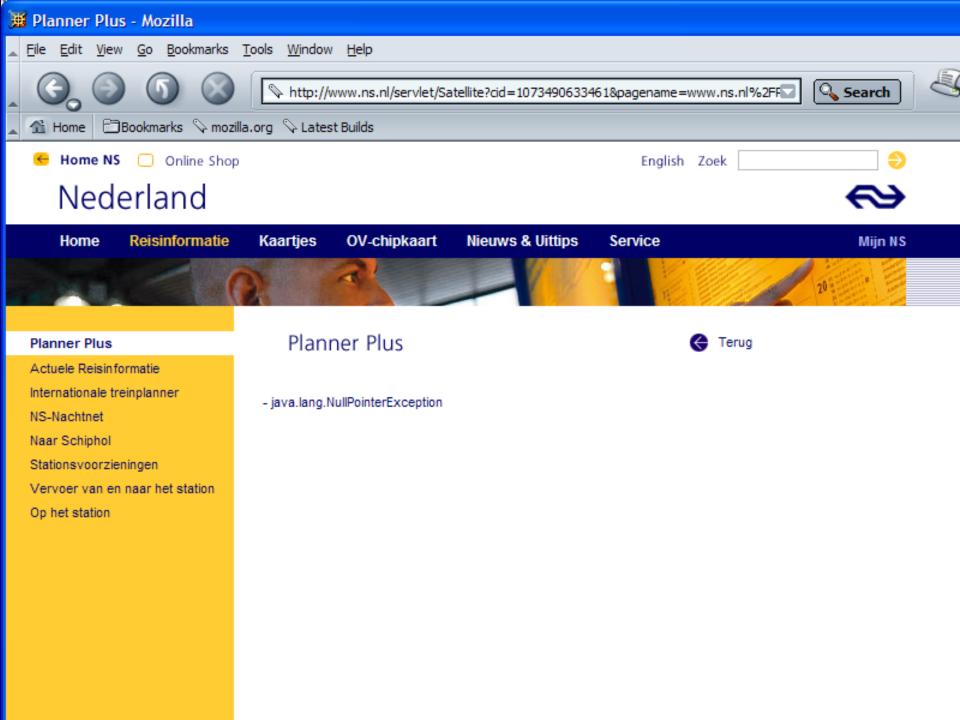
Kevlin Henney

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.













RUD, noun

- Rapid Unscheduled Disassembly
- Rocket science and amateur rocketry jargon that's acronymous, euphemistic and explosively self-explanatory

```
Jum
         end 11;
         L M DON 32 := TDB.T ENTIER 32S ((1.0/C M LSB DON) *
                                             G M INFO DERIVE (T ALG. E DCN)
         if L M DON 32 > 32767 then
            P M DERIVE (T ALG.E DON) := 16#7FFF#;
         elsif L M DON 32 < -32768 then
            P M DERIVE (T ALG. E DON) := 16#8000#;
         else
            P M DERIVE (T ALG.E DON) := UC 16S EN 16NS (
               TDB.T ENTIER 16S(L M DON 32));
         end if;
         P M DERIVE (T ALG.E DOE) := UC 16S EN 16NS (TDB.T ENTIER 16S
                                               ((1.0/C M LSB DOE) *
                                              G M INFO DERIVE (T_ALG.E_DOE)
         L M BV 32 := TDB.T ENTIER 32S ((1.0/C M LSB BV) *
                                             G M INFO DERIVE (T ALG.E BV));
         if L M BV 32 > 32767 then
            P M DERIVE (T ALG.E BV) := 16#7FFF#;
         elsif L M BV 32 < -32768 then
            P M DERIVE (? ALG.E BV) := .16#8000#;
         else
            P M DERIVE (T ALG.E BV) := UC 16S EN 16NS (TDB.T_ENTIER_16S (L_M
         end if;
         P M DERIVE (T ALG.E BH) := UC 16S EN 16NS (TDB.T ENTIER 16S
                                              ((1.0/C M LSB BH) *
                                              G M INFO DERIVE (T ALG.E BH)))
      end LIRE DERIVE;
   --$finprocedure
      procedure LIRE SEUIL (P M SEUIL : out TDB.T ENTIER 16NS) is
```



If you want to learn how to build a house, build a house. Don't ask anybody, just build a house.

Christopher Walken



Ecce Homo de Elías García Martínez.





Programming is difficult business. It should never be undertaken in ignorance.

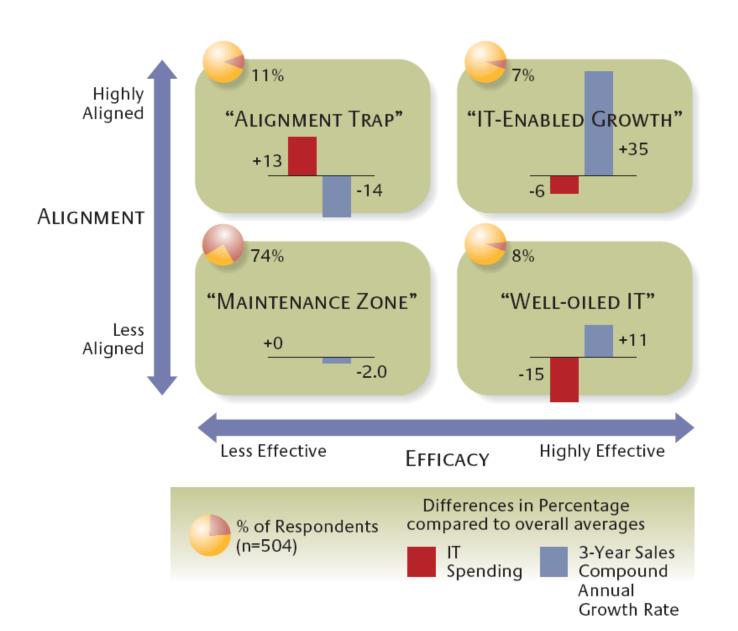
Douglas Crockford Java Script: The Good Plants

Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.



Rudy Puryear and Sachin Shah Trap in Information Technology" Berez, I Management Review Steve "Avoiding the Alignment David Schpilberg, MIT Sloan

Manifesto for Software Graftsmanship

Raising the bar.

As aspiring Software Craftsmen we are raising the bar of professional software development by practicing it and helping others learn the craft. Through this work we have come to value:

Not only working software, but also well-crafted software

Not only responding to change, but also **steadily adding value**

Not only individuals and interactions, but also a community of professionals

Not only customer collaboration,
but also **productive partnerships**

That is, in pursuit of the items on the left we have found the items on the right to be indispensable.

Online Markets...

Networked markets are beginning to self-organize faster than the companies that have traditionally served them. Thanks to the web, markets are becoming better informed, smarter, and more demanding of qualities missing from most business organizations.

...People of Earth

The sky is open to the stars. Clouds roll over us night and day. Oceans rise and fall. Whatever you may have heard, this is our world, our place to be. Whatever you've been told, our flags fly free.

Our heart goes on forever. People of Earth, remember.

People in high tech take pride in their work. They are individuals who see the details of the things they produce in the light of the trials and triumphs they experience while creating products. In the courage of creation, they find a place to hang their individuality. Programmers and techno types appreciate elegant, spare code and the occasional well-turned architectural hack.

Rick Levine, Christopher Locke, Doc Searles and David Weinberger

The Cluetrain Manifesto



Software craftsmanship's not the "next big thing". It's an attempt to articulate what the "thing" always was



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