

Worse Is Better, for Better or for Worse

@KevlinHenney

SOFTWARE DEVELOPMENT

gotocon.com







The SALT OGY NEW ANTHOLOGY NEW WRITING 2013

THE BEST NEW WRITING FROM THE INTERNATIONAL SALT PRIZES

Edited by CHRIS HAMILTON-EMERY and JEN HAMILTON-EMERY A collection of flash-fictions from National Flash-Fiction Day 2013 Edited by Calum Kerr and Holly Howitt

Scraps

Participant in the second

ELVI .

There are a thousand thoughts lying within a man that he does not know till he takes up the pen to write.

William Thackeray

I am irritated by my own writing. I am like a violinist whose ear is true, but whose fingers refuse to reproduce precisely the sound he hears within.

Gustave Flaubert

When I write, I feel like an armless, legless man with a crayon in his mouth.

Kurt Vonnegut

Stop Overpromising and Overshooting

We want to do everything all at once. Grand plans! Sweeping gestures! Epic 23-book fantasy cycles! Don't overreach. Concentrate on what you can complete. Temper risk with reality.

> Chuck Wendig "25 Things Writers Should Stop Doing" http://terribleminds.com/ramble/2012/01/03/25-things-writers-should-stop-doing/

You have to finish things — that's what you learn from, you learn by finishing things.

Neil Gaiman

Firmitas

Utilitas

Venustas

It Must be Beautiful Great Equations of Modern Science Edited by Graham Farmelo

Granta

Beautiful Code

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X

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27

3

3

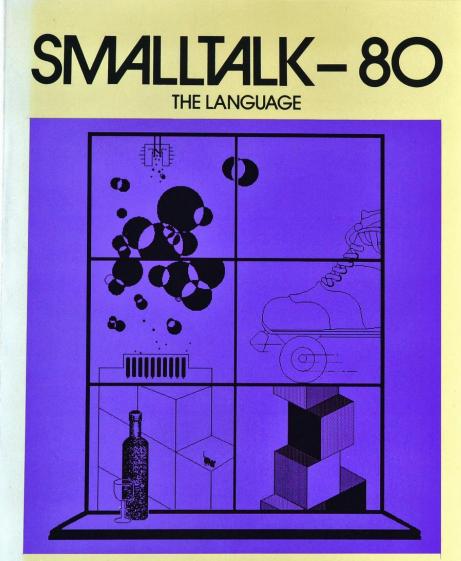
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X

Leading Programmers Explain How They Think



O'REILLY"



Adele Goldberg and David Robson

There are only two kinds of languages: the ones people complain about and the ones nobody uses.

Bjarne Stroustrup

I always have it in the back of my head that I want to make a slightly better C.

But getting everything to fit, top to bottom, syntax, semantics, tooling, etc., might not be possible or even worth the effort.

As it stands today, C is unreasonably effective, and I don't see that changing any time soon.

Damien Katz

http://damienkatz.net/2013/01/the_unreasonable_effectiveness_of_c.html

The "good enough software" concept popularized by Yourdon.

In many senses, it's just a rationalization of what's happening in the software world: the first company hitting the market with a feature-rich product is more likely to win the battle than the careful, quality-seeking company.

Carlo Pescio

http://www.eptacom.net/pubblicazioni/pub_eng/wirth.html

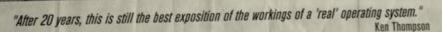
"Good enough software" is rarely good enough.

Niklaus Wirth

http://www.eptacom.net/pubblicazioni/pub_eng/wirth.html

```
#!/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);
                                                WikiInHyperPerl
```



OF THE

1980

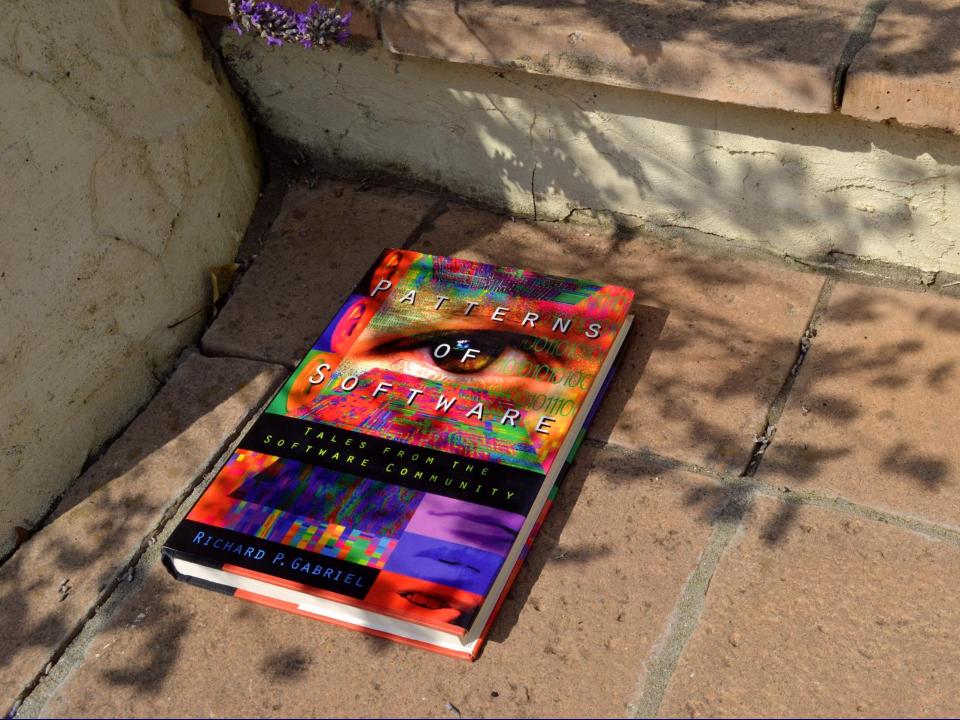
Lions' Commentary on UNIX° 6th Edition with Source Code

John Lions

Foreword by Dennis Ritchie

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 reasonable effaction of design.

> Dennis Ritchie and Ken Thompson "The UNIX Time-Sharing System", CACM



In 1990 I proposed a theory, called *Worse Is Better*, of why software would be more likely to succeed if it was developed with minimal invention.

RICHARD P. GAB

It is far better to have an underfeatured product that is rock solid, fast, and small than one that covers what an expert would consider the complete requirements.

The following is a characterization of the contrasting [*the right thing*] design philosophy:

- Simplicity: The design is simple [...].
 Simplicity of implementation is irrelevant.
- Completeness: The design covers as many important situations as possible. All reasonably expected cases must be covered.
- Correctness: The design is correct in all observable aspects.
- Consistency: The design is thoroughly consistent. A design is allowed to be slightly less simple and less complete in order to avoid inconsistency. Consistency is as important as correctness.

Here are the characteristics of a worse-is-better software design:

- Simplicity: The design is simple in implementation. The interface should be simple, but anything adequate will do.
- Completeness: The design covers only necessary situations. Completeness can be sacrificed in favor of any other quality.
- Correctness: The design is correct in all observable aspects.
- Consistency: The design is consistent as far as it goes. Consistency is less of a problem because you always choose the smallest scope for the first implementation.

Implementation characteristics are foremost:

- The implementation should be fast.
- It should be small.
- It should interoperate with the programs and tools that the expected users are already using.
- It should be bug-free, and if that requires implementing fewer features, do it.
- It should use parsimonious abstractions as long as they don't get in the way.





The more specific a design idea is, the greater its appeal is likely to be.



I will contend that conceptual integrity is the most important consideration in system design.



It is better to have a system omit certain anomalous features and improvements, but to reflect one set of design ideas, than to have one that contains many good but independent and uncoordinated ideas.

Fred Brooks

Interface

Implementation

Implementation

Interface

Implementation

Interface

Aesthetics does not affect perceived usability, but degraded usability negatively affects perceived aesthetics. In other words, usability is more important than beauty.

> "Is Beautiful Usable, or Is It the Other Way Around?" http://www.infoq.com/news/2012/05/Aesthetics-Usability

THE LAWS OF SIMPLICITY

DESIGN, TECHNOLOGY, BUSINESS, LIFE





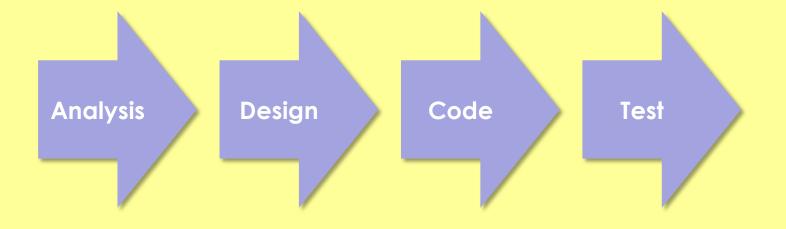
John Maeda

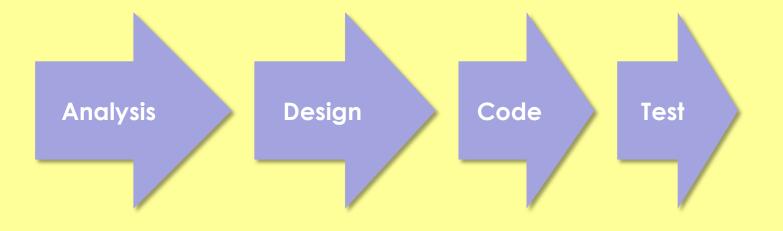
"Maeda is the Master of Simplicity." —Andrea Ragnetti board of Management, boyal philips electronics

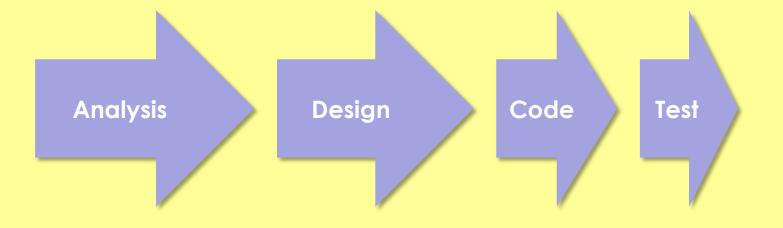
Savings in time feel like simplicity

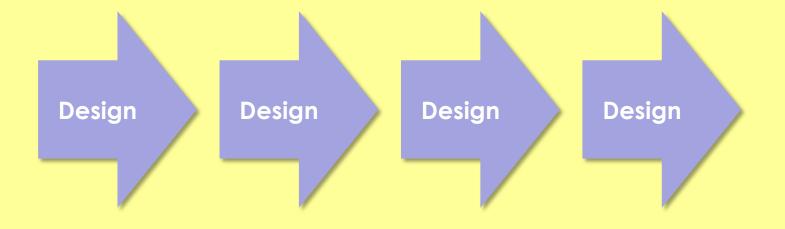
Uncertainty is an uncomfortable position. But certainty is an absurd one.

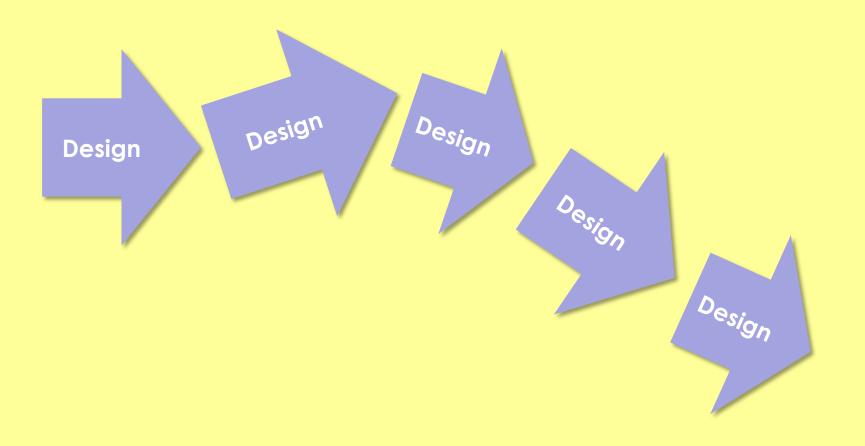
Voltaire













Properly gaining control of the design process tends to feel like one is losing control of the design process.

Things I Learned Architecture School

atthew Frederick

The classic essay on "worse is better" is either misunderstood or wrong.



Decide for yourselves.

Richard P Gabriel