The Social Coding Contract
My name is Justin Searls
Please tweet me @searls &
Say hello@testdouble.com
Open Source is Good!
is Open Source Good?
ideology, n. \i-dē-ä-lē-jē\
ideology, n. \i-dē-ä-lē-jē\

"They do not know it, but they are doing it"
ideology, n. \i-dē-ä-lē-jē\

"They do not know it, but they are doing it"

- Karl Marx
Open source fans are a bunch of hippies so I figured I'd start with a Marx quote
philosophy
economics

philosophy
The march of progress & our false consciousness
In the Beginning
Specialization
Specialization

veggies
Specialization

veggies

meats
Specialization

veggies
meats
games
Industrialization
Industrialization
INDUSTRIALIZATION
INTERNETIFICATION
Big Datafication
Big Datafication
Unintended Consequences
“Scary enough to turn Ronald McDonald into a vegan” ★★★★

“By turns an absorbing, enraging and entertaining experience” ★★★★

YOU’LL NEVER LOOK AT DINNER THE SAME WAY

A FILM BY
ROBERT KENNER

FOOD, INC.
“Scary enough to turn Ronald McDonald into a vegan”

“By turns an absorbing, enraged and entertaining experience”

YOU’LL NEVER LOOK AT DINNER THE SAME WAY
FOR, LIKE, AT LEAST A MONTH

A FILM BY
ROBERT KENNER

FOOD, INC.
Nothing stops this train
Open Source's Progress
.h & .c files
jar file
short-term progress
short-term progress for the low, low price of
short-term progress for the low, low price of long-term fragility
It's like, if you buy a puppy, you're bringing it home
Build a small, but non-trivial, Rails app. An empty app has ~50 gem dependencies; yours will have 75-100. Go away for six months. Come back and update all of your dependencies. Your app no longer works.
It's easy to start a Jekyll blog, though. Easy to install sass. Easy to generate a Rails app. Always easy right now, never in a year.
What we think our app is
What our app really is
easy, but not simple
We say "it's a Rails app"
We never say "and Rails depends on thor >= 0.18.1, < 2.0"
We never say "and Rails depends on thor >= 0.18.1, < 2.0"

We don't even notice that!
Even though 272 gems can no longer be installed!

Bundler could not find compatible versions for gem "thor":

In Gemfile:
  ajax-cat (= 2.1.0) ruby depends on
    thor ( ~> 0.15.2) ruby

  rails (= 4.1.4) ruby depends on
    railties (= 4.1.4) ruby depends on
      thor (0.18.1)
What if Bundler told us more?

...  
Using unicorn 4.8.3  
Using zurb-foundation 4.3.2  
Your bundle is complete!  
Use `bundle show [gemname]` to see where a bundled gem is installed.
What if Bundler told us more?

...  
Using unicorn 4.8.3  
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Your bundle is complete!  
Use `bundle show [gemname]` to see where a bundled gem is installed.  
Your bundle has 10 direct dependencies and 43 transitive dependencies.
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Your bundle is complete!
Use `bundle show [gemname]` to see where a bundled gem is installed.
Your bundle has 10 direct dependencies and 43 transitive dependencies.
Your gems' version specifiers preclude the installation of 1300 gems.
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Your bundle is complete!  
Use `bundle show [gemname]` to see where a bundled gem is installed.  
Your bundle has 10 direct dependencies and 43 transitive dependencies.  
Your gems' version specifiers preclude the installation of 1300 gems.  
`bundle update` would be unable to update 5 gems to the latest version.
HA!  

HA!  

VERSION RESOLUTION 

DOESN'T AFFECT NPM!
One day, every new install started failing
Video of me that weekend
need
need
convenience
complexity
need
convenience
complexity
risk
As painful as Makefiles are, they still work 30 years later.
Open Source Maintainers are not Rockstars
Maintainers are just extra-early adopters
Maintainer  Early Adopter

No results found
Maintainer    Early Adopter
Maintainer  Early Adopter
Maintainer  Early Adopter
MAINTAINER  EARLY ADOPTER

soap for ruby
MAINTAINER

EARLY ADOPTER

1. soapy-ruby gem
MAINTAINER

EARLY ADOPTER
MAINTAINER  EARLY ADOPTER
Maintainer

Early Adopter

Hacker News

Amazing Developer Builds Soapy Ruby gem, Saves Plan...
178 points by notstevkabnik 8 hours ago | 28 comments

ZOMG Amazing

... Except it doesn't do X, Y, or even Z!!
MAINTAINER

EARLY ADOPTER

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So I sent a pull request that does them!
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... Except it doesn't do X, Y, or even Z!!
So I sent a pull request that does them!
Scratching an Itch

v0.0.1
Scratching an Itch

PR #1

v0.0.1
Scratching an Itch

PR#1

v0.0.1

PR#2
Scratching an Itch

PR#1

v0.0.1

PR#2

PR#3
Scratching an Itch
Scratching an Itch v1.0.0
Scratching an Itch

\[ \sqrt{0.840} \]
Maintainer

Early Adopter

Owner
MAINTAINER: hey, let's own this together!

EARLY ADOPTER
Maintainer: hey, let's own this together!

Early Adopter: wow, me? let's do this!
Maintainer: hey, let's make you a committer!

Early Adopter:
MAINTAINER

hey, let's make you a committer!

EARLY ADOPTER

awesome, i will help sometimes!
MAINTAINER

hey, let's never communicate again!

EARLY ADOPTER

OWNER
MAINTAINER: hey, let's never communicate again!

EARLY ADOPTER: sounds good, bye forever!
MAINTAINER: hey, let's never communicate again!

EARLY ADOPTER: Owner
Why don't maintainers just share control?
time

happiness
happiness

time
Late adopters will disabuse them of this happiness
MAINTAINER

LATE ADOPTER
0 commits this week
Maintainer: 0 commits this week

Late Adopter:
0 commits this week

0 commits this month
0 commits this week

0 commits this month
Maintainer Late Adopter

0 commits this week

Month
MAINTAINER  LATE ADOPTER

0 commits this week

month
Maintainer

0 commits this week
0 commits this month

Late Adopter

no recent commits?
sounds stable!
Maintainer

0 commits this week

Late Adopter

800 stars? sounds safe!
MAINTAINER

0 commits this week

LATE ADOPTER

open source?
sounds free!

...and no commits this month
maintainer's needs
maintainer & early adopters' needs
user needs
user needs

a negotiation
Literally, like, two days later
Maintainer  Late Adopter
Maintainer: what?! it doesn't [enterprise] my [enterprise] at all!
MAINTAINER

how could they ignore such an important use case?!
Missing Obvious and Important Feature!

Open
Our team thought that this was a well-written and good library, but we just can’t adopt it until it supports XML instead of JSON for its Enterprise 802.11X Satellite Laser Deployments.
entirefirstnamelastname commented

Our team thought that this was a well-written and good library, but we just can't adopt it until it supports XML instead of JSON for its Enterprise 802.11X Satellite Laser Deployments

searlis commented

I'm sorry I didn't need it to do that, can you explain why this is an important feature?
entirefirstname.lastname commented

Our team thought that this was a well-written and good library, but we just can’t adopt it until it supports XML instead of JSON for its Enterprise 802.11X Satellite Laser Deployments

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otherfirstname.lastname commented

👍
entirefirstname.lastname commented

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👍 this is obvious and important—maintainer is bad and should feel bad
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Complex enterprise feature due to popular demand
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Complex enterprise feature due to popular demand ...

searls commented

I just spent all weekend building this! Can someone verify it works before I close the issue?
I'm sorry I didn't need it to do that, can you explain why this is an important feature?

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Complex enterprise feature due to popular demand ...

dad0778

searls commented

I just spent all weekend building this! Can someone verify it works before I close the issue?

searls commented

😢
time

happiness

v1
Late adopters expect more niche features than early adopters
Late adopters make better customers than users.
Late adopters make better customers than users.
Late adopters make better customers than users

Dual-license

Donate
Late adopters make better customers than users.

Dual-license

"Pro™" features
Late adopters make better customers than users.

Dual-license

"Pro™" features

Paid support

Donate
Late adopters make better customers than users.

Dual-license

Paid support

"Pro™" features

Donate

\_(ツ)_/\
Maintainers should feel free to say "No"
MAINTAINER

TROLLS
MAINTAINER

TROLLS

[HATE]
MAINTAINER
plz stahp

TROLLS
[HATE]
MAINTAINER
plz stahp

TROLLS
[THREATS]
MAINTAINER

woah! not cool!

TROLLS

[THREATS]
MAINTAINER
woah! not cool!

TROLLS
[REDACTED]
MAINTAINER

(´・ω・`)  `  

TROLLS
[REDACTED]
Asymmetric Power

maintainer      users
Asymmetric Power

maintainer

users
Asymmetric Power

maintainer  users
Asymmetric Power

maintainer

users
Asymmetric Power

maintainer

users
Asymmetric Power

maintainer

users
Leaving Chef

I am leaving Chef.

Chef (the company)

I started my career at Chef ("Opscode" at the time) in mid-January of 2013. Still a student, I worked full-time through my remaining semester of college developing the first edition of the Learn Chef initiative. Since then, I have served as a consultant, "community engineer", what is best described as an "evangelist", and most recently a release engineer.

Friday (August 29, 2014) is my last day as an employee of Chef Software. I am willingly leaving the company and engaging in a software engineering sabbatical.

Chef (the community)
MAINTAINER

i'm burnt out

can someone help
me maintain this?

ANYBODY
Maintainer

hello?

Anybody
MAINTAINER

anybody?

ANYBODY
No Maintainer is Forever
THURSDAY, JULY 31, 2014

The Bizarre Bazaar: Who Owns Express.js?

A GITHUB DRAMA

After abandoning Node.js for Go, TJ Holowaychuk apparently made his separation official by selling off the branding and official GitHub "ownership" of his Express framework to StrongLoop, a Node.js company whose projects include software services, consulting services, support, and free software. (StrongLoop's CEO, by the way, is no stranger to the concept of businesses based on free software, having previously sold his startup Makara to Red Hat and developed Red Hat's OpenShift product - Red Hat being the company which pioneered open source business models.)

As an aside, I'm often disturbed by how many things GitHub is these days.

@GitHub is awesome, of course, but it's also so obviously a vim which labors under the deranged misapprehension of being a Facebook.
Where’s _why?

What happened when one of the world’s most unusual, and beloved, computer programmers disappeared.

By Annie Lowrey

In March 2009, Golan Levin, the director of Carnegie Mellon University’s interdisciplinary STUDIO for Creative Inquiry, invited an enigmatic and famed computer programmer known to the virtual world only as “Why the Lucky Stiff” or “_why”—no, not a typo—to speak at a CMU conference called Art & Code—also not a typo—an event where artsy nerds and nerdy artists gather to talk shop.

_why came to Pittsburgh and presented his latest project to a room full of a student programmers and artists. He was scruffily handsome, seemingly in his early- to mid-30s, with shaggy brown hair falling in his eyes and a constant half-smile. He looked like a member of an indie band—he actually was in an indie band—or the leader of an experimental improv troupe.
What if there were an app for this?
Connect to Services

RubyGems ✔

npm setup

Github ✔
Your Projects

linemanjs/lineman

searls/jasmine-rails

testdouble/present

Need Help?

YES NO

YES NO

YES NO
The Weirich Fund
Sharing Jim's passion through education
Beneficiaries

If after 60 days you do not respond to a check-in e-mail, your repositories' ownership will be transferred to these people:

- tkaufman
- bkeepers

Remove

Remove
TO: searls

SUBJECT: Check-in

Hi searls,

Please verify you’re still able to maintain your open source by replying to this email or clicking this link.
I like to call this app:
I like to call this app: SomebodyPleaseMakeThis
I like to call this app: SomebodyPleaseMakeThis.io
What about the ☁️?
Can any centralized service be open?
I ask, because most open source infrastructure is centralized.
What if RubyGems disappears?
What if npm fails and loses a month of backups?
What might a decentralized dependency service look like?
Oh no! Github went down!
Good thing that's all we use Github for!
How can we connect numerous services while avoiding single points of failure?
Open Source requires adoption
Adoption requires trust
explicit trust
explicit trust

implicit trust
How do we get people to trust us?
Marketing!
Consider Linus Torvalds’ 1991 announcement of Linux.
Hello everybody out there using minix -

I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things).

I've currently ported bash(1.08) and gcc(1.40), and things seem to work. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-)

Linus (torv...@kruuna.helsinki.fi)

PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT protable (uses 386 task switching etc), and it probably never will support anything other than AT-harddisks, as that's all I have :-(.
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By now, (kern...@kruuna.helsinki.fi)

PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT portable (uses 386 task switching etc), and it probably never will support anything other than AT-harddisks, as that's all I have :-(.
Linux wouldn't have made the front page of Hacker News!
Welcome

Migration to Git


The Apache Ant family of projects migrates to git hosted by the Apache Software Foundation’s infrastructure on https://git-wip-us.apache.org/repos/asf.

The source code of Apache Ant, Ivy, Ivyde, the Antlibs and EasyAnt Are all migrated to Git. We are keeping our web site in Subversion, the sandbox.

Apache Ant™

Apache Ant is a Java library and command-line tool whose mission is to drive processes described in build files as targets and extensions, dependent upon each other. The main known usage of Ant is the build of Java applications. Ant supplies a number of built-in tasks allowing compile, assemble, test and run Java applications. Ant can also be used effectively to build non Java applications, for instance C or C++ applications. More generally, Ant can be used to pilot any type of process which can be described in terms of targets and tasks.

Ant is written in Java. Users of Ant can develop their own "antlibs" containing Ant tasks and types, and are offered a large number of ready-made commercial or open-source "antlibs".

Ant is extremely flexible and does not impose coding conventions or directory layouts to the Java projects which adopt it as a build tool.

Software development projects looking for a solution combining build tool and dependency management can use Ant in combination with Ivy.

The Apache Ant project is part of the Apache Software Foundation.

Apache Ant 1.9.4

May 5, 2014 - Apache Ant 1.9.4 Released

Apache Ant 1.9.4 is now available for download as source or binary from http://ant.apache.org/bindownload.cgi.

Ant 1.9.4 contains several bug fixes and improvements compared to Ant 1.9.3, including the initial support for Java 9, the possibility to resolve dependency conflicts on the fly, and a more robust client-side repository handling.
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Welcome

Migration to Git

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More dependencies means less time to vet them
RubyMoney - Money-Rails

Introduction

This library provides integration of the money gem with Rails.

Use 'monetize' to specify which fields you want to be backed by Money objects and helpers provided by the money gem.

Currently, this library is in active development mode, so if you would like to have a new feature, feel free to open a new issue here. You are also welcome to contribute to the project.

Installation

Add this line to your application’s Gemfile:

```ruby
gem 'money-rails'
```

And then execute:

```
$ bundle
```

Or install it yourself using:

```
$ gem install money-rails
```

You can also use the money configuration initializer:

```
$ rails g money_rails:initializer
```

There, you can define the default currency value and set other configuration parameters for the rails app.
Quick intro!

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Easy steps!

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Quick intro!

Easy steps!

Mostly green badges!
It's an arms race
THE WEB'S SCAFFOLDING TOOL FOR MODERN WEBAPPS

Get started and then find a generator for your webapp. Generators are available for Angular, Backbone, Ember and over 1000+ other projects. Read the Yeoman Monthly Digest for our latest picks.

One-line install using npm:

```
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Generators are available for Angular, Backbone, Ember and over 1000+ other projects. Read the Yeoman Monthly Digest for our latest picks.

One-liner install using npm:

npm install -g yo
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```
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```
Optimized for adoption
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Semantic Versioning 2.0.0

Summary

Given a version number MAJOR.MINOR.PATCH, increment the:
1. MAJOR version when you make incompatible API changes,
2. MINOR version when you add functionality in a backwards-compatible manner, and
3. PATCH version when you make backwards-compatible bug fixes.
Additional labels for pre-release and build metadata are available as extensions to the MAJOR.MINOR.PATCH format.
Who's got time to vet transitive dependencies?
The more people you trust, the more people you don't realize you trust
Recognize when projects are marketing to you
Open Security
You can do worse than security through obscurity
"Open source code is accessible to everyone!"
"Open source code is accessible to everyone!"
Who reads The Source?
People who claim to Who reads the source?
People who claim to

People who actually do

WHO READS THE SOURCE?
Who reads the source?

People who fork
People who fork

Forkers who do anything

Who reads the Source?
Who reads the source?

People with commit rights
People with Commit rights

Committers

Who reads the source?
People that send a pull request

Who reads the source?
People that send a pull request

Not just drive by PRs

Who reads the source?
People hunting for exploits

Who reads the source?
People hunting for exploits

WHO READS THE SOURCE?
/bin/bash
extern int posixly_correct;
extern int line_number, line_number_base;
extern int subshell_environment, indirection_level;
extern int build_version, patch_level;
extern int expanding_redir;
extern int last_command_exit_value;
extern char *dist_version, *release_status;
extern char *shell_name;
extern char *primary_prompt, *secondary_prompt;
extern char *current_host_name;
extern sh_builtin_func_t *this_shell_builtin;
extern SHELL_VAR *this_shell_function;
extern char *the_printed_command_except_trap;
extern char *this_command_name;
extern char *command_execution_string;
extern time_t shell_start_time;
extern int assigning_in_environment;
extern int executing_builtin;
extern int funcnest_max;
Side-effects everywhere

static void create_variable_tables ()
The vulnerable function

for (string_index = 0; string = env[string_index++]; )
{
    char_index = 0;
    name = string;
    while ((c = *string++) && c != '=')
    {
        if (string[-1] == '=')
            char_index = string - name - 1;
    }

    /* If there are weird things in the environment, like `=' or a string without an `=', just skip them. */
    if (char_index == 0)
        continue;

    /* ASSERT(name[char_index] == '=') */
    name[char_index] = '\0';
    /* Now, name = env variable name, string = env variable value, and char_index == strlen (name) */

    temp_var = (SHELL_VAR *)NULL;

    /* If exported function, define it now. Don't import functions from the environment in privileged mode. */
    if (privmode == 0 && read_but_dont_execute == 0 && STREQN ("() {", string, 4))
    {
    /* ... */
}
The vulnerable function

```c
for (string_index = 0; string = env[string_index++]; ) {
```
As a rubyist I don’t spend a lot of time with for loops, but...
The vulnerable function

for (string_index = 0; string = env[string_index++]; )
{
}
The vulnerable function

```c
for (i = 0; env[i] != NULL; i++) {
```
"The solution is not...proprietary software—the solution is to put energy and resources into auditing and improving free programs."

- Free Software Foundation
Who wants to audit the quality of code that literally everyone depends on?
No, thank you, please.

No, no.

Not my jam.

I won't hear it and I won't respond to it.

Nope!
popular adoption
popular adoption

importance of audit
motivation to audit

importance of audit

popular adoption
Tragedy of the Commons:
Tragedy of the Commons:
It's nobody's problem until it's everybody's problem
Who is in the TODO group?

TODO is an open group of companies who run open source programs. Our members include:

- box
- Dropbox
- Facebook
- GitHub
- Google
- Khan Academy
- Square
- Stripe
- Twitter
- @WalmartLabs
Don't let your business believe open source is a free lunch
These Stick Figures Were a Lie
How we communicate
How we communicate
How we communicate
How we communicate
How we communicate

Asynchronous text
We are no more than:
We are no more than:

an avatar
We are no more than:

an avatar

a user @name
We are no more than:

an avatar

a user @name

some emoji 🐈🍺
We are no more than:

- an avatar
- a user @name
- some emoji 🐻 🍺
- text on a screen
In open source, no one can hear you scream.
In open source, no one can hear you scream.

(And that's a problem.)
it is fucked up that a lot of modern "discourse" is optimized for whoever has the fewest feelings and the most free time
Uncertainty?
Ambiguity?
Disagreement?
Simmering Disdain?
Simmering Disdain?
Simmering Disdain?
Simmering Disdain?
Simmering Disdain?
Simmering Disdain?
This strategy can be great troll repellent
What if we could do this:
What if we could do this:
What if we could do this:
What if we could do this:

Leave a comment

Attach images by dragging & dropping or selecting them.
What if we could do this:
What does the future hold?
awfulness vs progress
we are here
we are here

what happens here?
Extrapolating from our culture of dependence
"Rust enables a whole new generation of high-level programmers to write systems-level code." -- @wycats at #gogaruco
I'm OK with this.
Innovation

- High Level
- Low Level

Time
Innovation’s high level

low level

time
Innovation’s

high level

low level

time
Innovation O's

Today’s dependency "culture"

high level

low level

time
Innovation ○’s

Today’s dependency “culture”

high level

low level

time
Today's dependency "culture"

How will it translate?
Systems programmers tend to be conservative, cautious.
Isolated from innovation
Isolated from innovation
curmudgeonly disposition
Accidental cautiousness
curmudgeonly disposition
Accidental cautiousness

Intentional cautiousness
Embedded & real-time failures may have grave consequences
HealthCare.gov
The System is down at the moment.
We're working to resolve the issue as soon as possible. Please try again later.

Please include the reference ID below if you wish to contact us at 1-800-318-2596 for support.
Reference ID: 0.cdd741f7.1380634949.2f9c301c
The System is down at the moment.
We're working to resolve the issue as soon as possible. Please try again later.

Please include the reference ID below if you wish to contact us at 1-800-318-2596 for support.
Reference ID: 0.cdd74f17.1380634949.2f9c301c
Adopting a dependency outsources our understanding of how to do something
Dependency

Our app
Our app

Dependency
Understanding debt

Dependency

Our app
"Understanding debt" can be paid down by iterating
If iterative releases aren't possible, don't outsource understanding.
high level | low level

[Diagram of high level and low level with a database on the left and multiple server icons on the right with arrows connecting them]
high level

5 years

low level

30 years
high level

<table>
<thead>
<tr>
<th>5 years</th>
</tr>
</thead>
</table>

low level

<table>
<thead>
<tr>
<th>30 years</th>
</tr>
</thead>
</table>

Database

Centralized

Distributed

Servers

Clients

Voice communication
high level  |  low level

| Database | Server Network |

5 years  | 30 years

People  | Phone
high level vs. low level

5 years

30 years
High level

<table>
<thead>
<tr>
<th>5 years</th>
</tr>
</thead>
</table>

Low level

<table>
<thead>
<tr>
<th>30 years</th>
</tr>
</thead>
</table>
easy to iterate

high level

5 years

low level

30 years
easy to iterate

High level

5 years

Low level

30 years

hard to iterate
These concerns require deeper up-front understanding of low-level systems
Depth of Understanding

High level
web app

Low level
plane control
Depth of Understanding

High level web app

Low level plane control
Depth of Understanding

High level web app

Low level plane control
Depth of Understanding

Needs to know how browsers work

High level web app

Low level plane control
Depth of Understanding

Needs to know how browsers work

High level web app

Low level plane control

Needs to know how planes work
Depth of Understanding

- Needs to know how browsers work
- Needs to know how planes work
**Depth of Understanding**

Needs to know how browsers work

Needs to know how planes work

High level web app

Low level plane control
Depth of Understanding

Needs to know how browsers work

Needs to know how planes work

High level web app

Low level plane control

⚠️
Depth of Understanding

Needs to know how browsers work

High level web app

Needs to know how planes work

Low level plane control
“Modern” tooling is a product of high-level web development.
Innovation dots

high level vs. low level
Innovation's high vs. low level perspective over time.
Today's perspective of Innovation's high level vs. low level over time.
Innovation dots

- High level
- Low level

Time
Innovation's New, broader perspective

high level

low level

time
Systems innovations may reciprocate some cautiousness & understanding
Open Source can be better!
My name is Justin Searls
Please tweet me @searls &
Say hello@testdouble.com
Please say hello if your team could use our team's help 😊
Like everyone, we're hiring!

Just join@testdouble.com
Find me during a break to chat or to grab a sticker!
My name is Justin Searls
Please tweet me @searls &
Say hello@testdouble.com
Lock designed by Sam Smith from the thenounproject.com
Shower Curtain designed by Rohan Gupta from the thenounproject.com
Campfire designed by VALÈRE DAYAN from the thenounproject.com
Stand designed by Evan Travelstead from the thenounproject.com
Shopping Cart designed by Renee Ramsey-Passmore from the thenounproject.com
Milk designed by Jeff Seevers from the thenounproject.com
Milk designed by NAS from the thenounproject.com
Breakfast designed by Konrad Michalik from the thenounproject.com
Tablet designed by Pham Thi Dieu Linh from the thenounproject.com
Can designed by Blase Sewell from the thenounproject.com
Door designed by Olaus Linn from the thenounproject.com
Door designed by Sebastian Langer from the thenounproject.com
Box designed by David Waschbusch from the thenounproject.com
Tomato designed by Nana Faisal from the thenounproject.com
Keyboard designed by misirlou from the thenounproject.com
Computer designed by Edward Boatman from the thenounproject.com
Hammer designed by John Caserta from the thenounproject.com
Star designed by Edward Boatman from the thenounproject.com
Puzzle Piece designed by Roberto Chiaveri from the thenounproject.com
Mail designed by Anas Ramadan from the thenounproject.com
Text designed by Christopher Holm-Hansen from the thenounproject.com
Phone designed by Tom Walsh from the thenounproject.com
Video designed by useiconic.com from the thenounproject.com
Cocktail designed by Okan Benn from the thenounproject.com
Laptop designed by Olivier Guin from the thenounproject.com
Laptop designed by Michael Loupos from the thenounproject.com
Airplane designed by Andrew Fortnum from the thenounproject.com
Coupon designed by Scott Lewis from the thenounproject.com
Database designed by Shmidt Sergey from the thenounproject.com
Microchip designed by Martin Vanco from the thenounproject.com
Speedometer designed by Olly Banham from the thenounproject.com