The Social Coding Contract

td

My name is **Justin Searls**

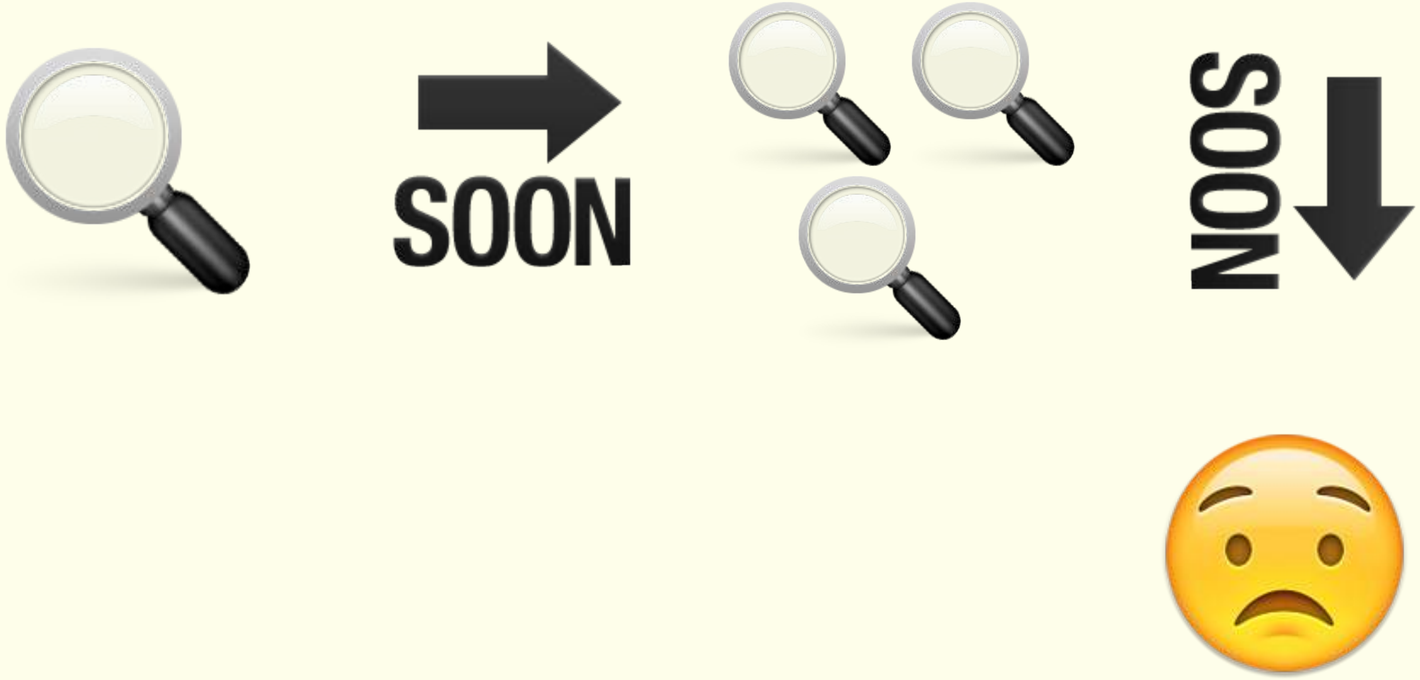
Please tweet me **@searls** &

Say **hello@testdouble.com**

Open Source is Good!

is Open Source Good?

SOON


SOON
SOON

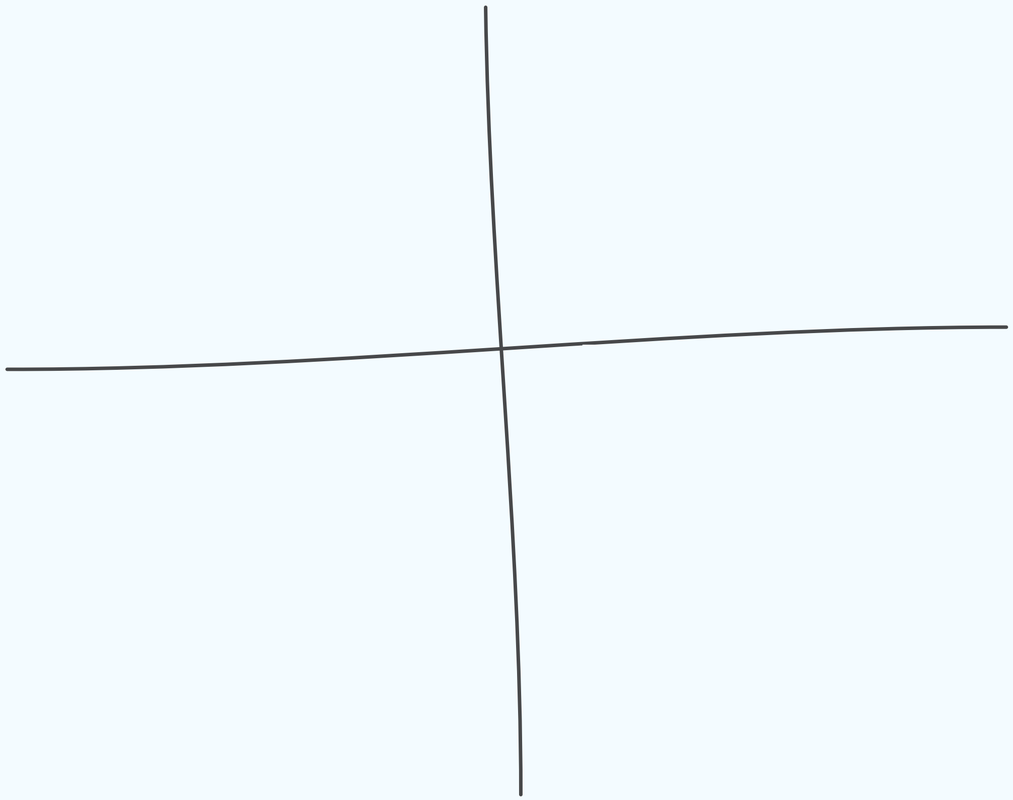
SOON
SOON
SOON
SOON

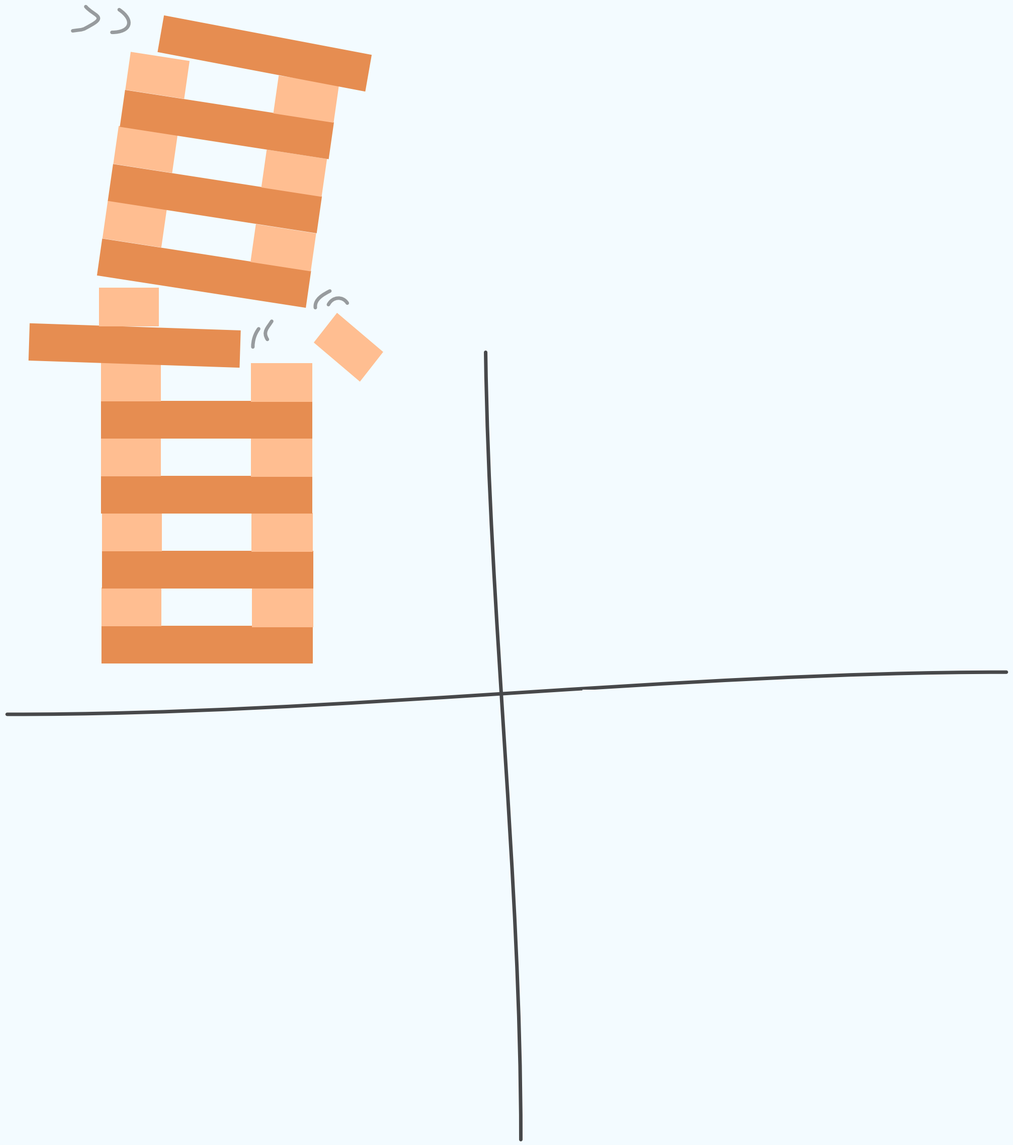
SOON
SOON
SOON
SOON

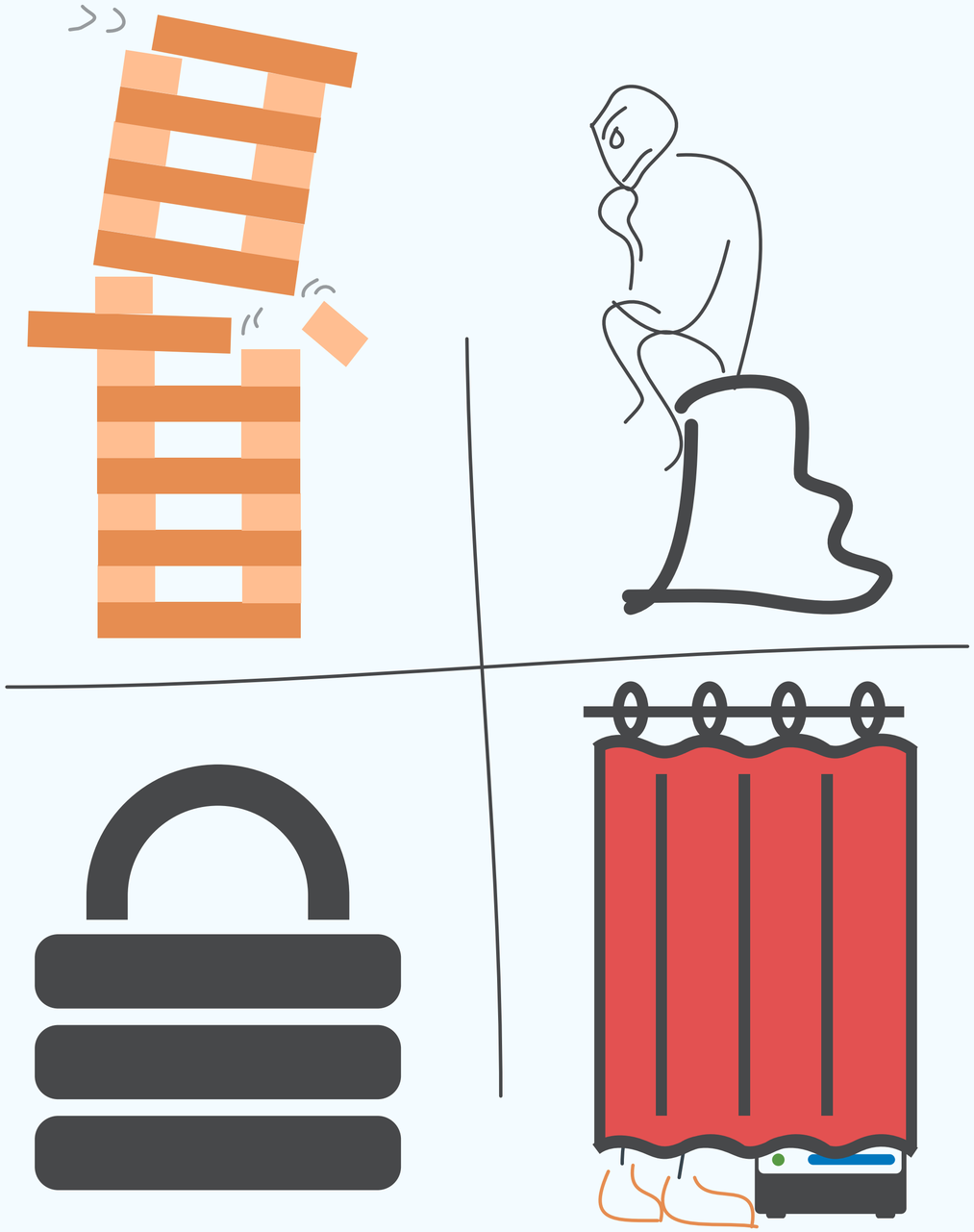
SOON
SOON
SOON
SOON
SOON
SOON

SOON
SOON
SOON
SOON
SOON
SOON

SOON
SOON
SOON
SOON
SOON
SOON







ideology, n. \i-dē-ä-lə-jē\

ideology, n. \i-dē-ä-lə-jē\

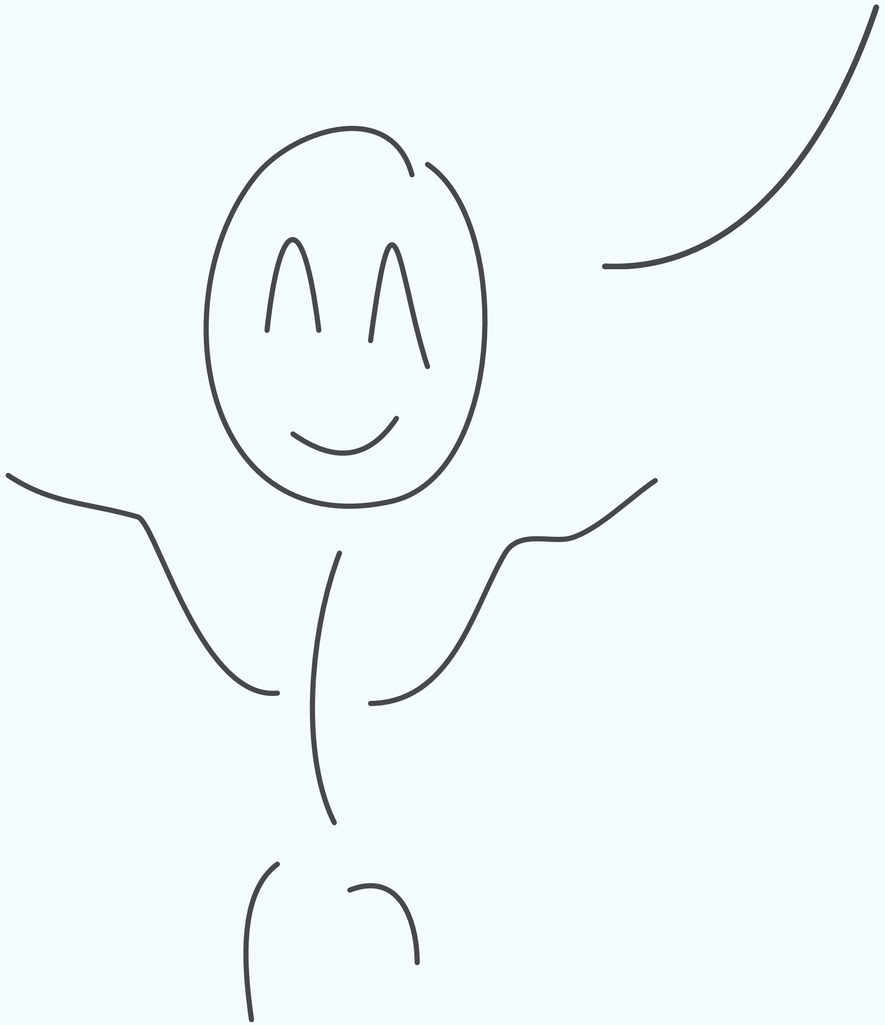
"They do not know it, but they are doing it"

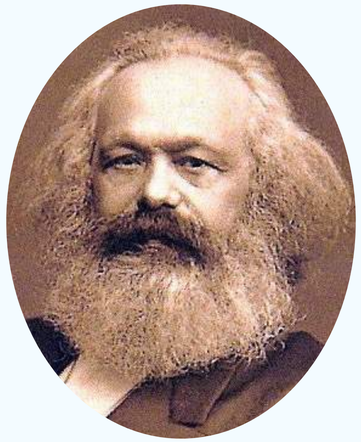
ideology, n. \i-dē-ä-lə-jē\

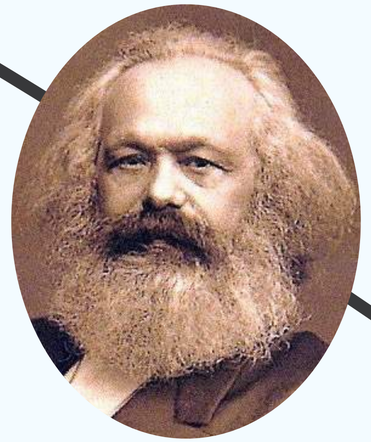
"They do not know it, but they are doing it"

- Karl Marx

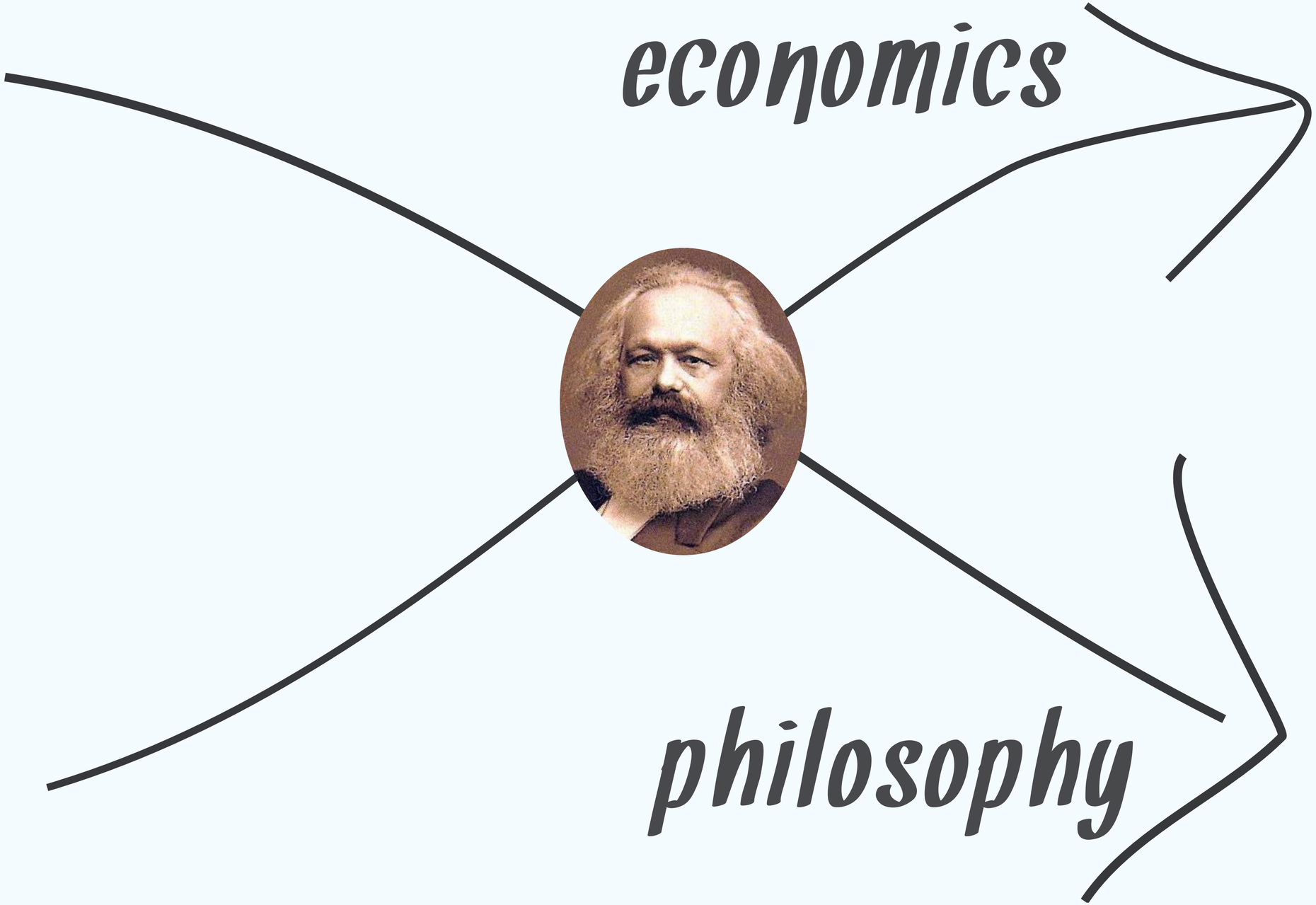
Open source fans are a bunch of hippies
so I figured I'd start with a Marx quote

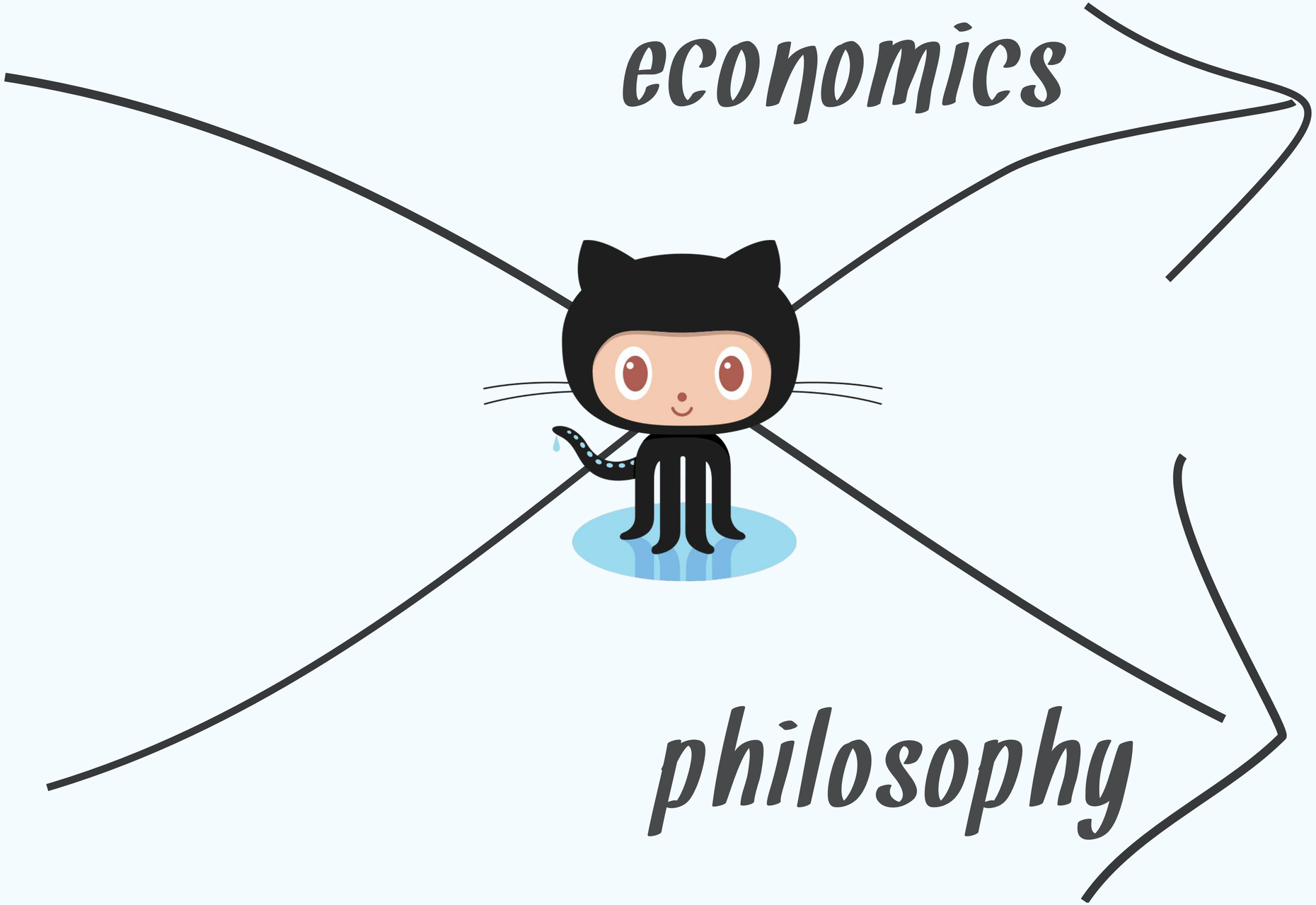






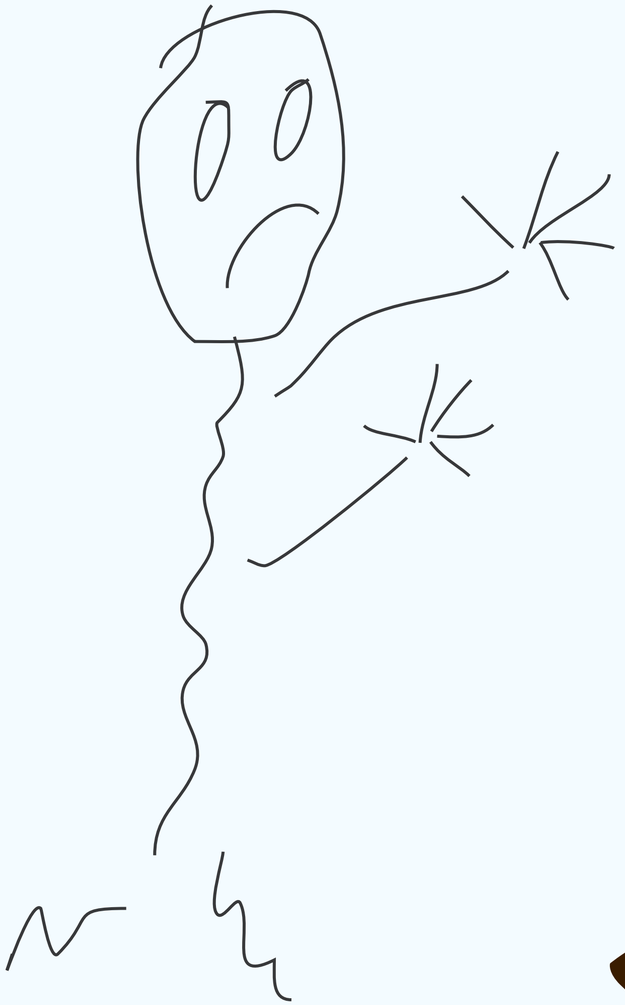
philosophy


economics
philosophy


economics
philosophy

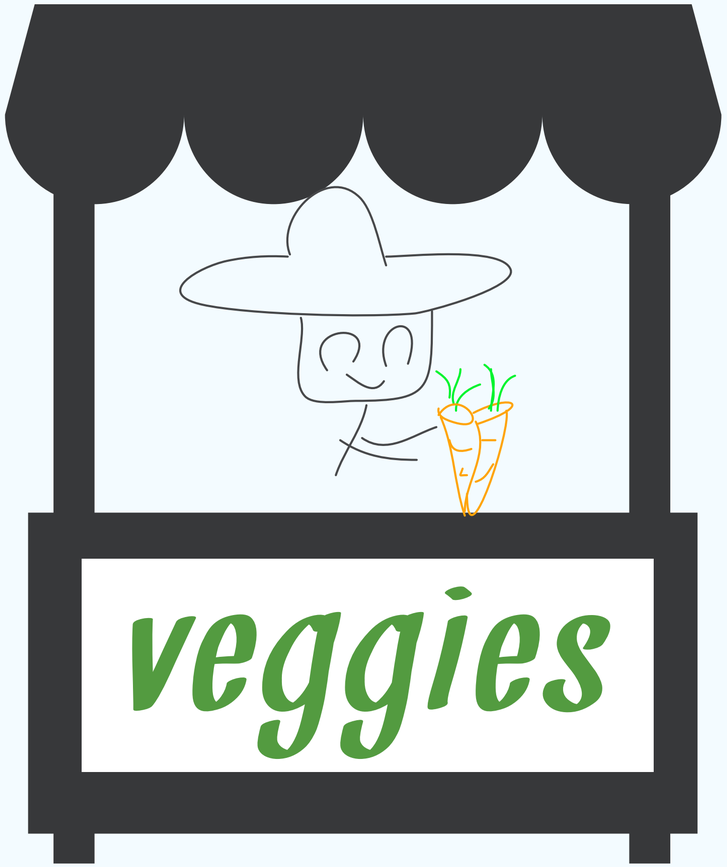
The march of progress & our false consciousness

In the Beginning

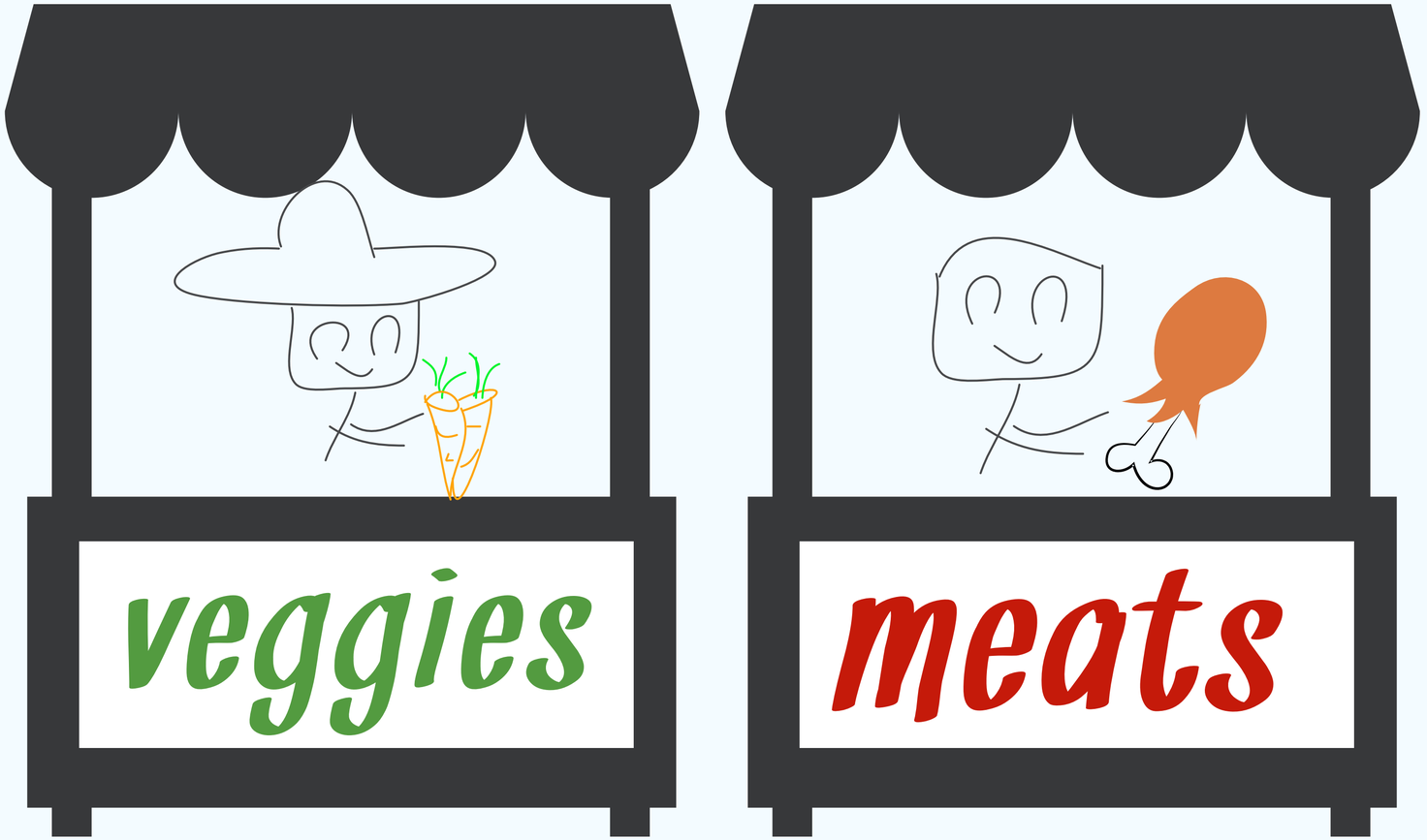


Specialization

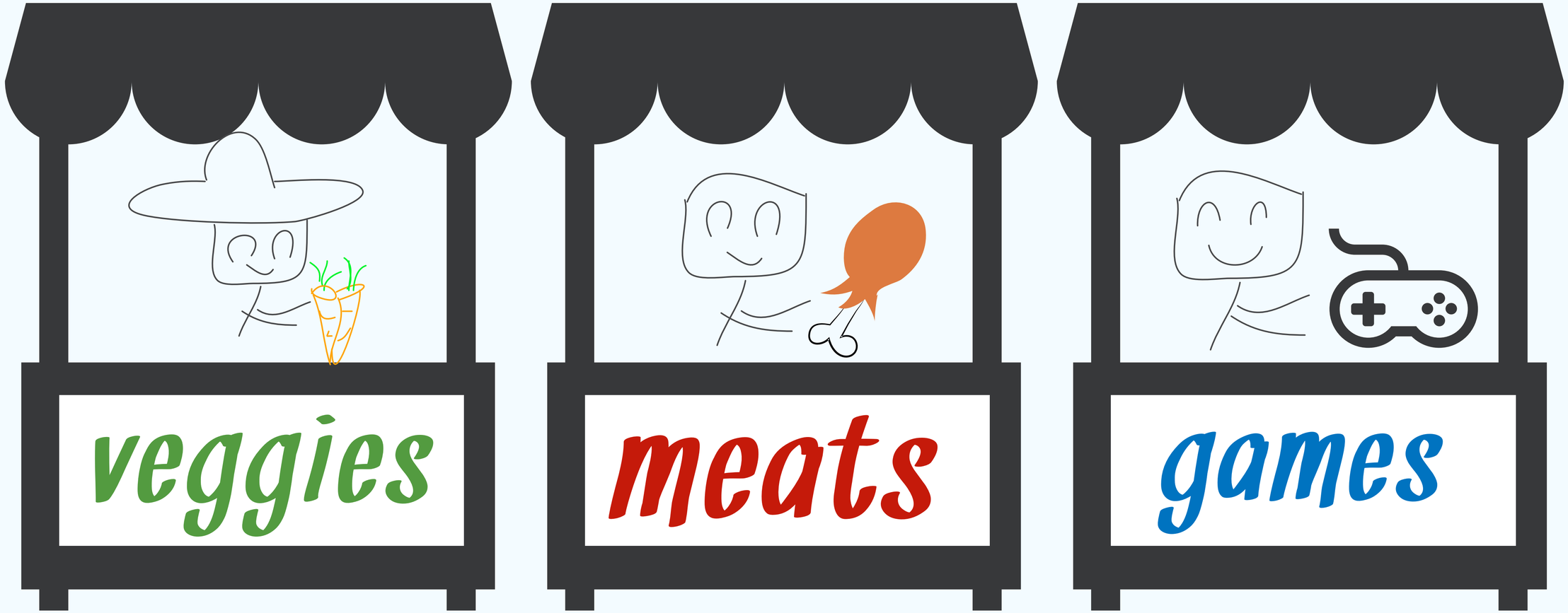
Specialization



Specialization



Specialization



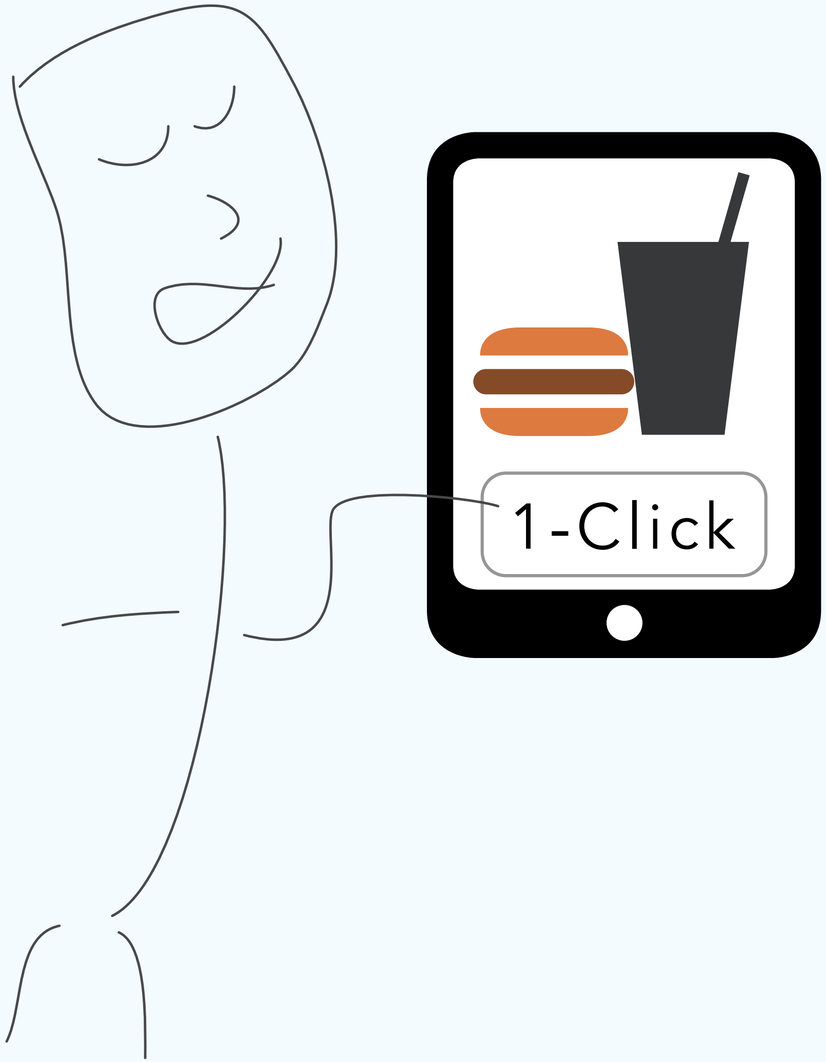
INDUSTRIALIZATION

INDUSTRIALIZATION

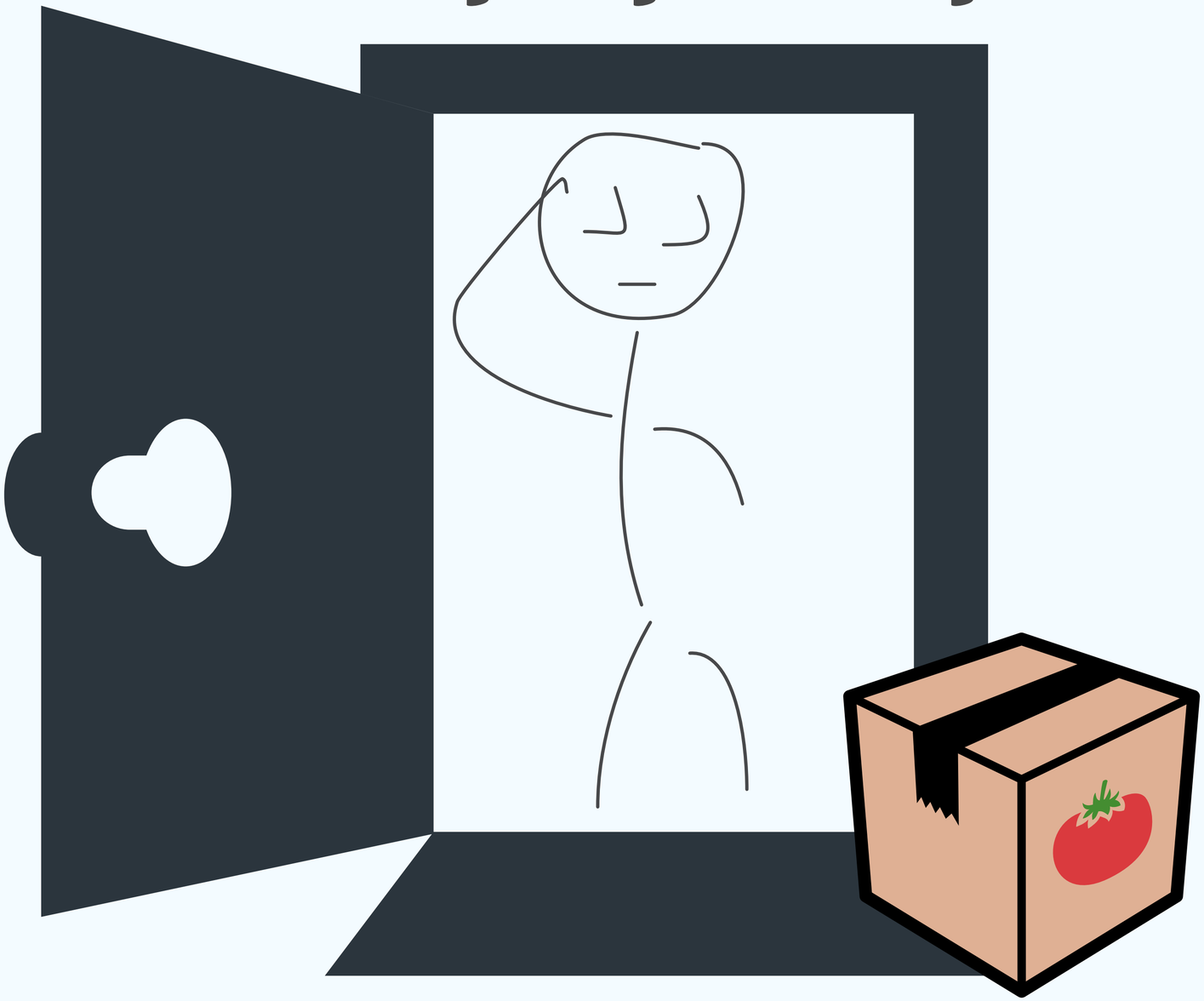
INDUSTRIALIZATION

INDUSTRIALIZATION

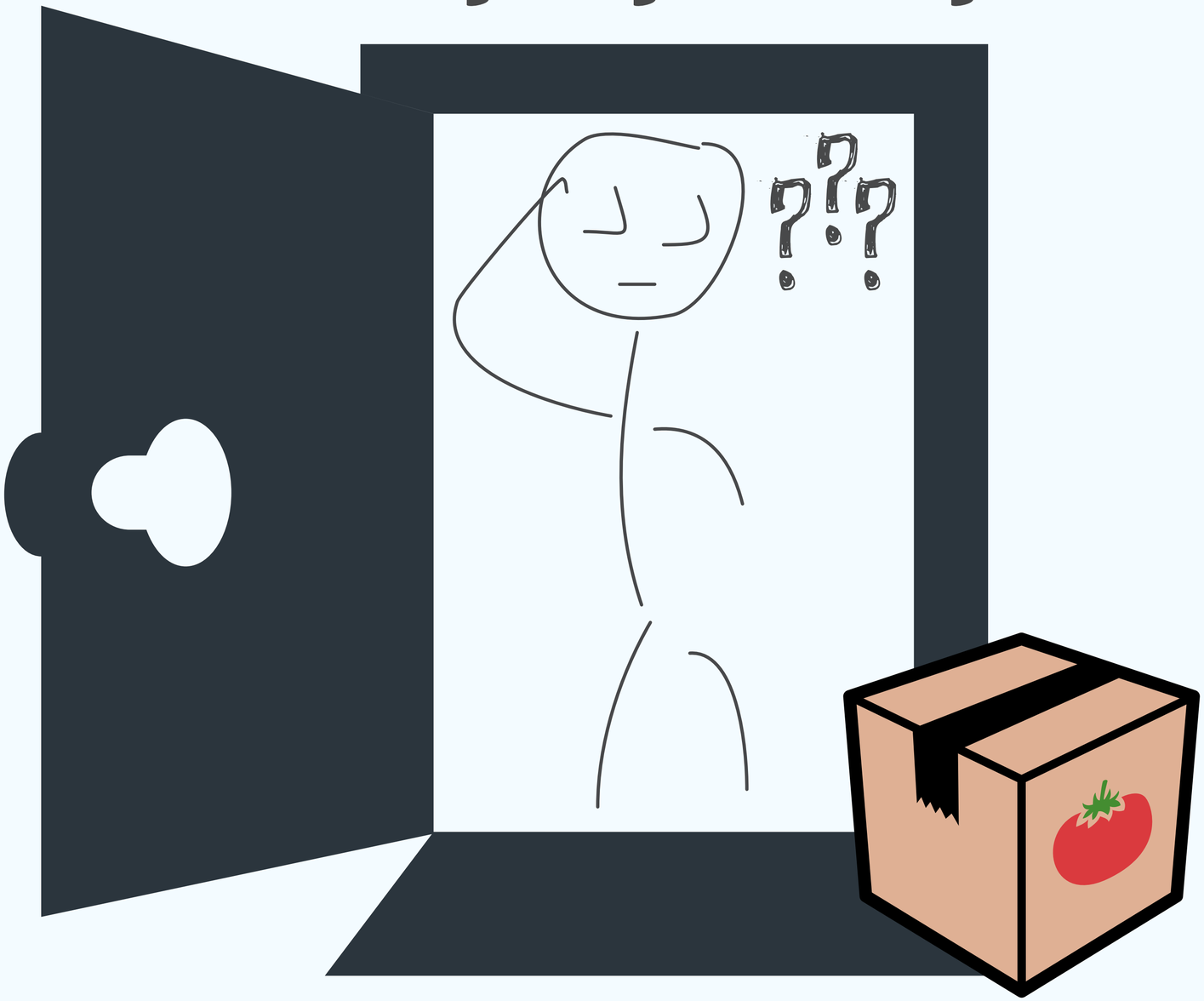
Internetification



Big Datafication



Big Datafication



Unintended Consequences

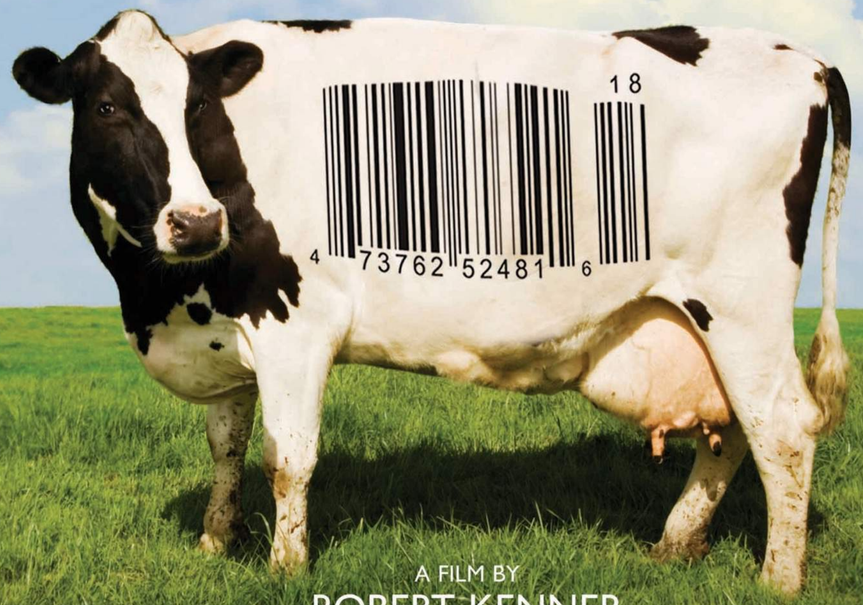
★★★★ "Scary enough to turn Ronald McDonald into a vegan" ★★★★

Total Film — Total Film — Empire

★★★★ "By turns an absorbing, enraging and entertaining experience" ★★★★

Little White Lies — Little White Lies — Uncut

YOU'LL NEVER LOOK AT DINNER THE SAME WAY



A FILM BY
ROBERT KENNER

FOOD, INC.

DOGWOOF PRESENT A PARTICIPANT MEDIA AND RIVER ROAD ENTERTAINMENT PRODUCTION A FILM BY ROBERT KENNER "FOOD, INC." MUSIC BY MARK ADLER EDITED BY KIM ROBERTS DIRECTOR OF PHOTOGRAPHY RICHARD PEARCE
CO-PRODUCERS ERIC SCHLOSSER RICHARD PEARCE MELISSA ROBLEDO EXECUTIVE PRODUCERS WILLIAM POHLAD ROBIN SCHORR JEFF SKOLL DIANE WEYERMANN PRODUCED BY ELISE PEARLSTEIN

RIVERROAD participant FORTISSIMOFILMS

DIRECTED AND PRODUCED BY ROBERT KENNER

Soil Association dogwoof

www.foodincmovie.co.uk

READ PUBLICAFFAIRS' BOOK: FOOD, INC.

www.dogwoof.com

★★★★ "Scary enough to turn Ronald McDonald into a vegan" ★★★★

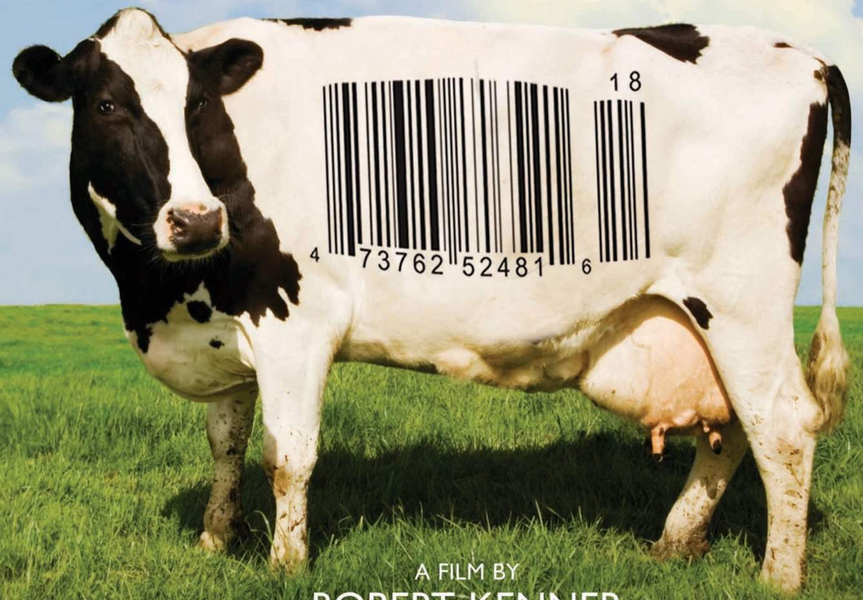
Total Film — Total Film — Empire

★★★★ "By turns an absorbing, enraging and entertaining experience" ★★★★

Little White Lies — Little White Lies — Uncut

YOU'LL NEVER LOOK AT DINNER THE SAME WAY

FOR, LIKE, AT LEAST A MONTH



A FILM BY

ROBERT KENNER

FOOD, INC.

DOGWOOF PRESENT A PARTICIPANT MEDIA AND RIVER ROAD ENTERTAINMENT PRODUCTION A FILM BY ROBERT KENNER "FOOD, INC." MUSIC BY MARK ADLER EDITED BY KIM ROBERTS DIRECTOR OF PHOTOGRAPHY RICHARD PEARCE

CO-PRODUCERS ERIC SCHLOSSER RICHARD PEARCE MELISSA ROBLEDO EXECUTIVE PRODUCERS WILLIAM POHLAD ROBIN SCHORR JEFF SKOLL DIANE WEYERMANN PRODUCED BY ELISE PEARLSTEIN

RIVERROAD participant FORTISSIMOFILMS

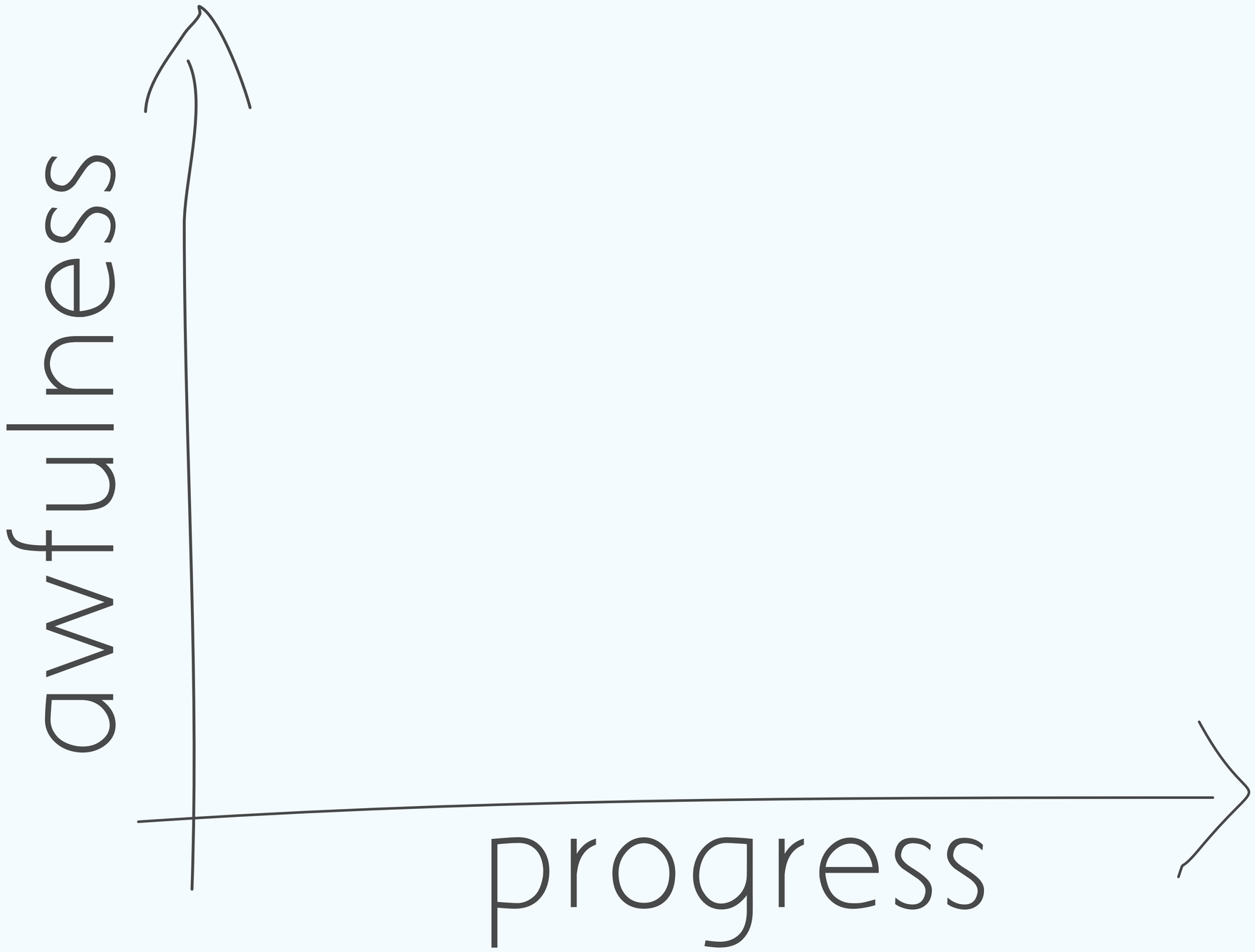
DIRECTED AND PRODUCED BY ROBERT KENNER

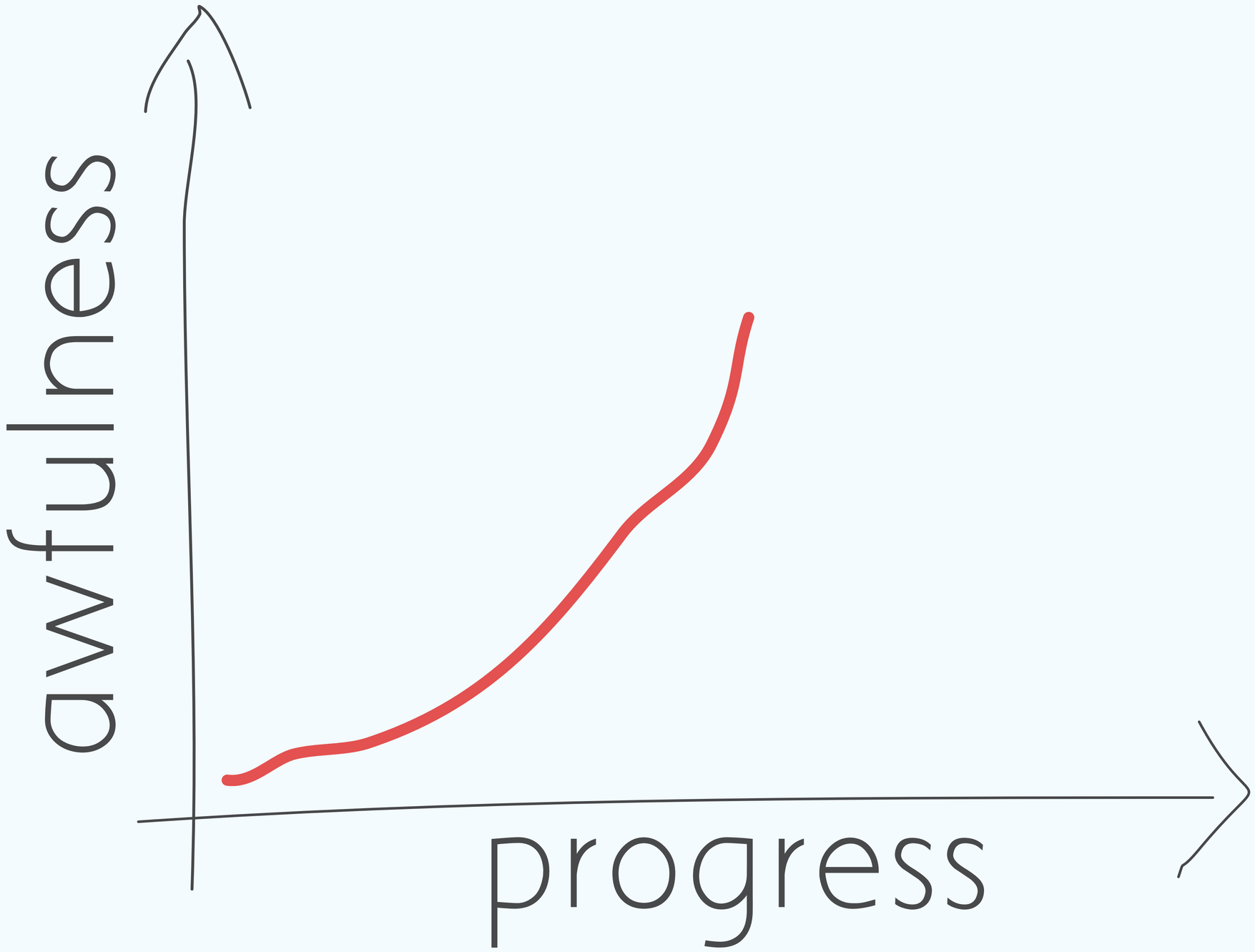
READ PUBLICAFFAIRS' BOOK: FOOD, INC.

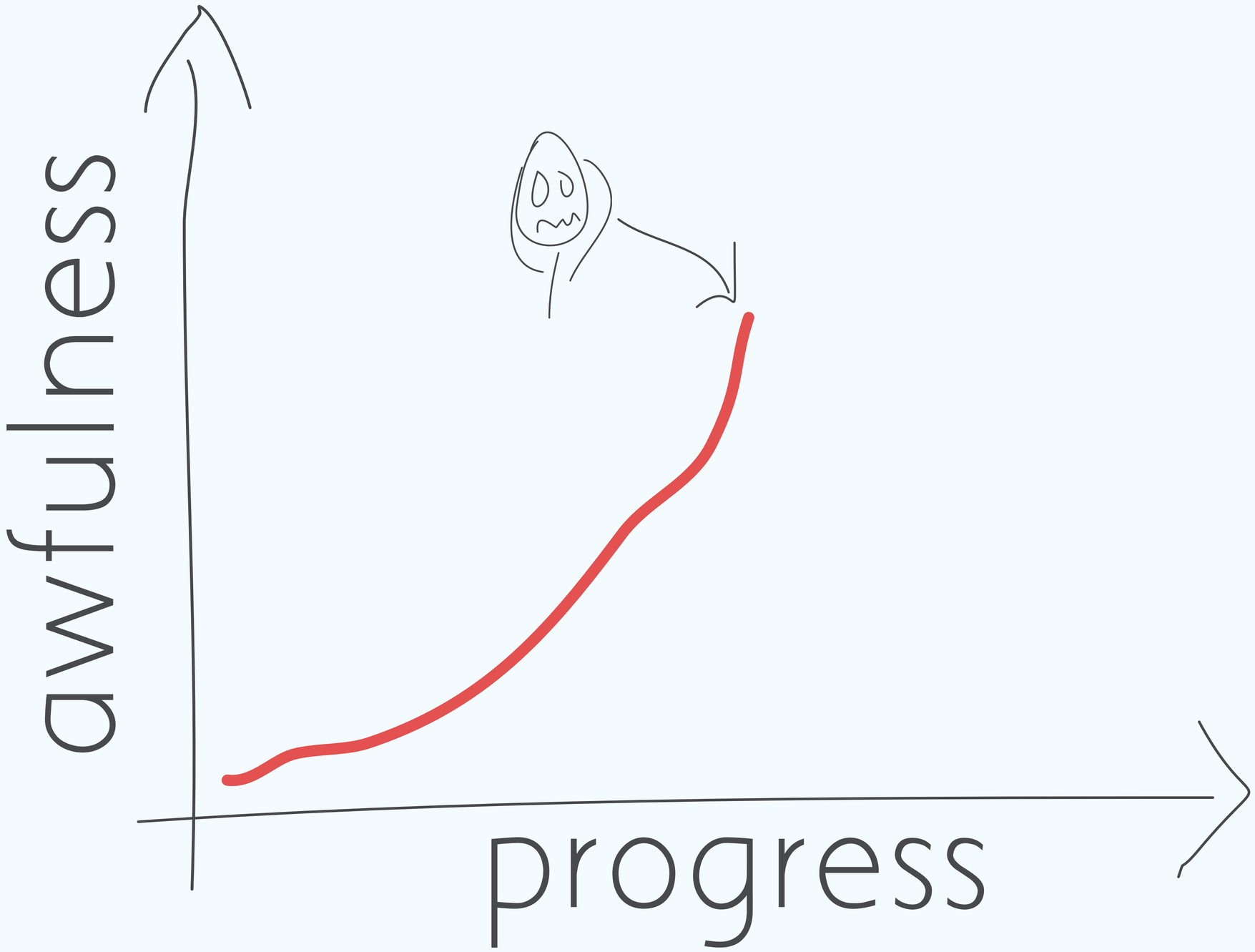
www.foodincmovie.co.uk

Soil Association dogwoof

www.dogwoof.com

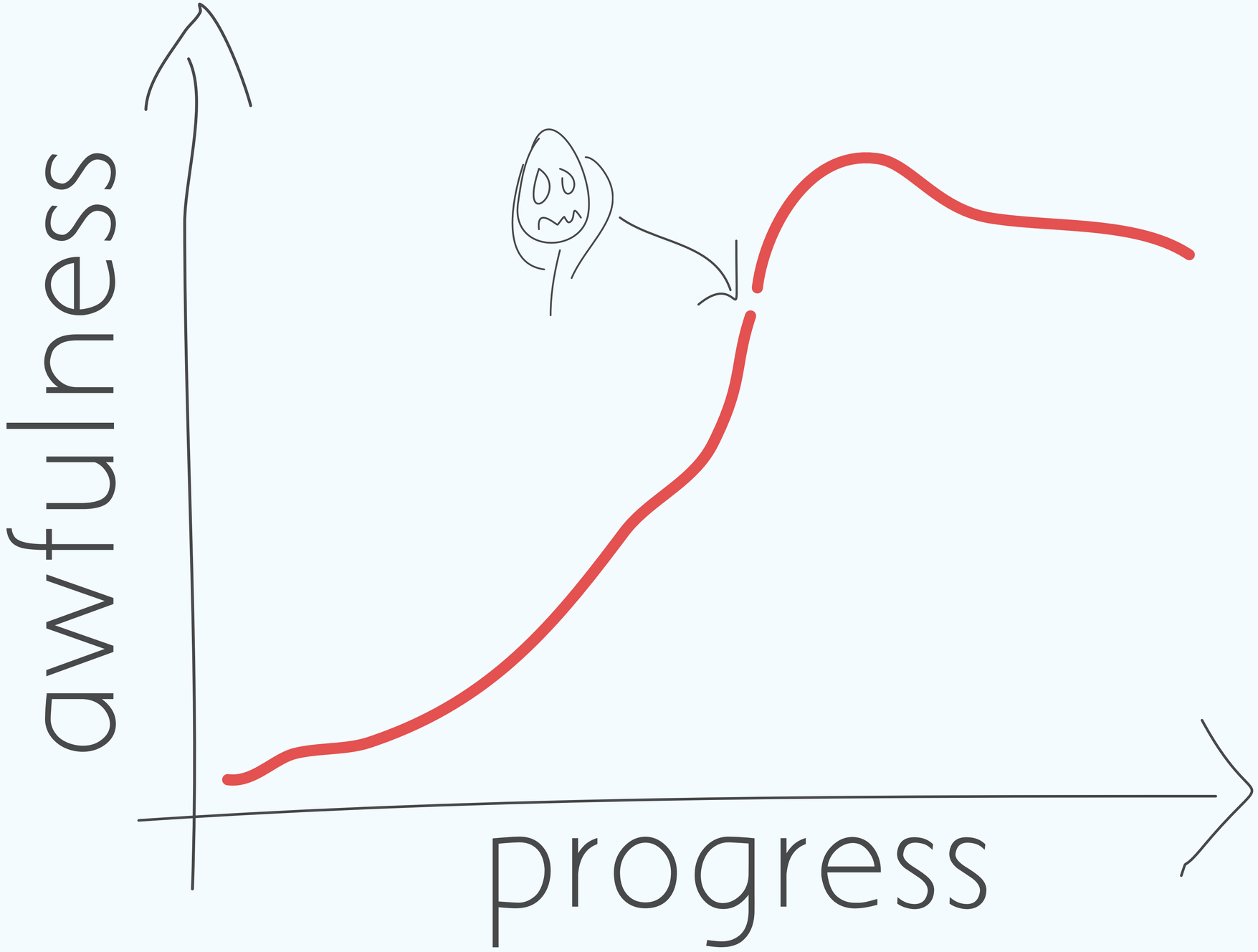

awfulness
progress

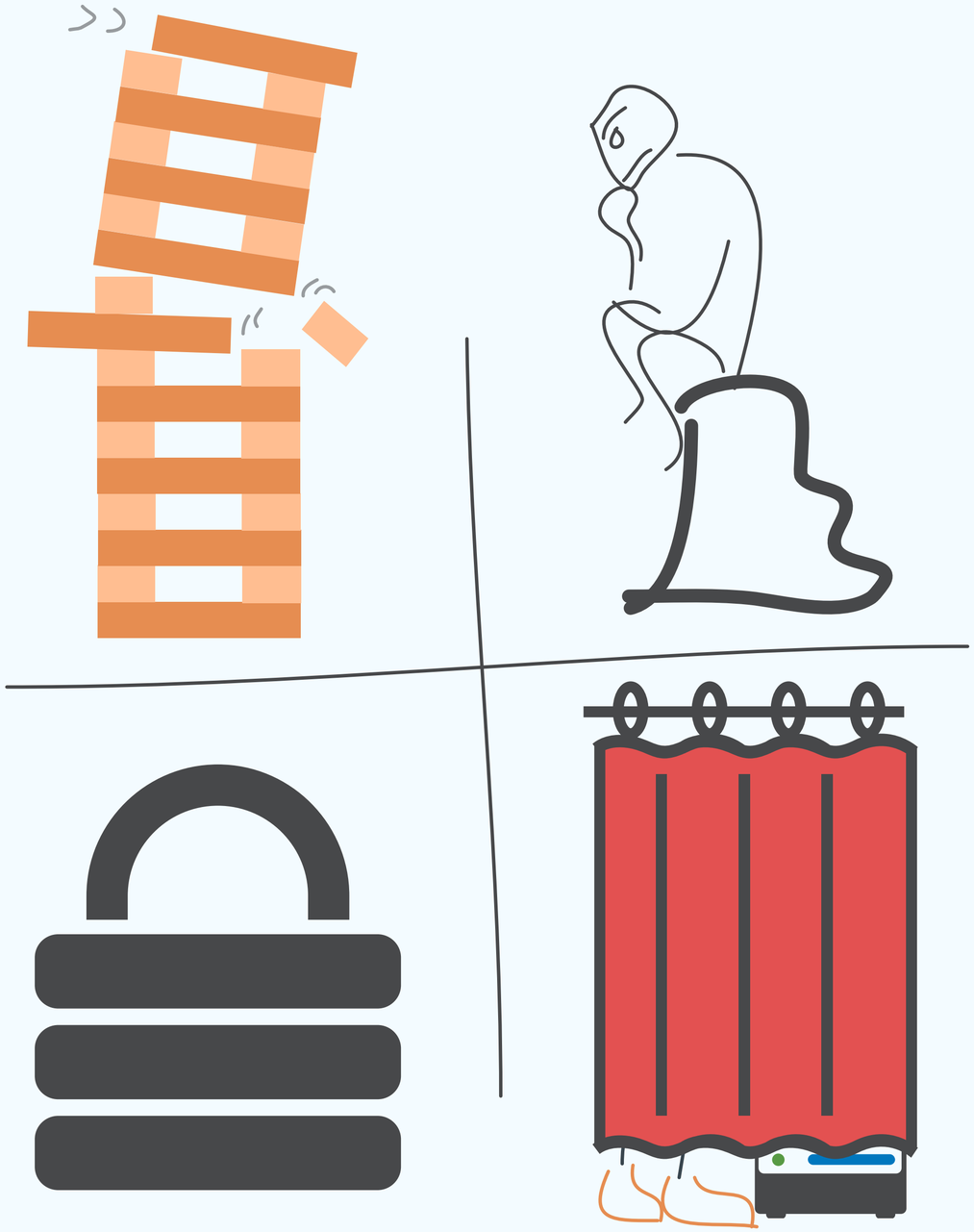

awfulness
progress


awfulness
progress

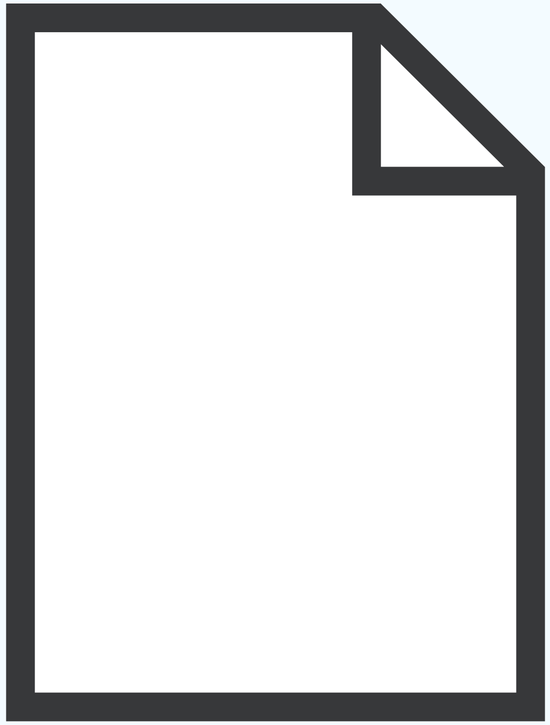
Nothing stops this train

awfulness
progress

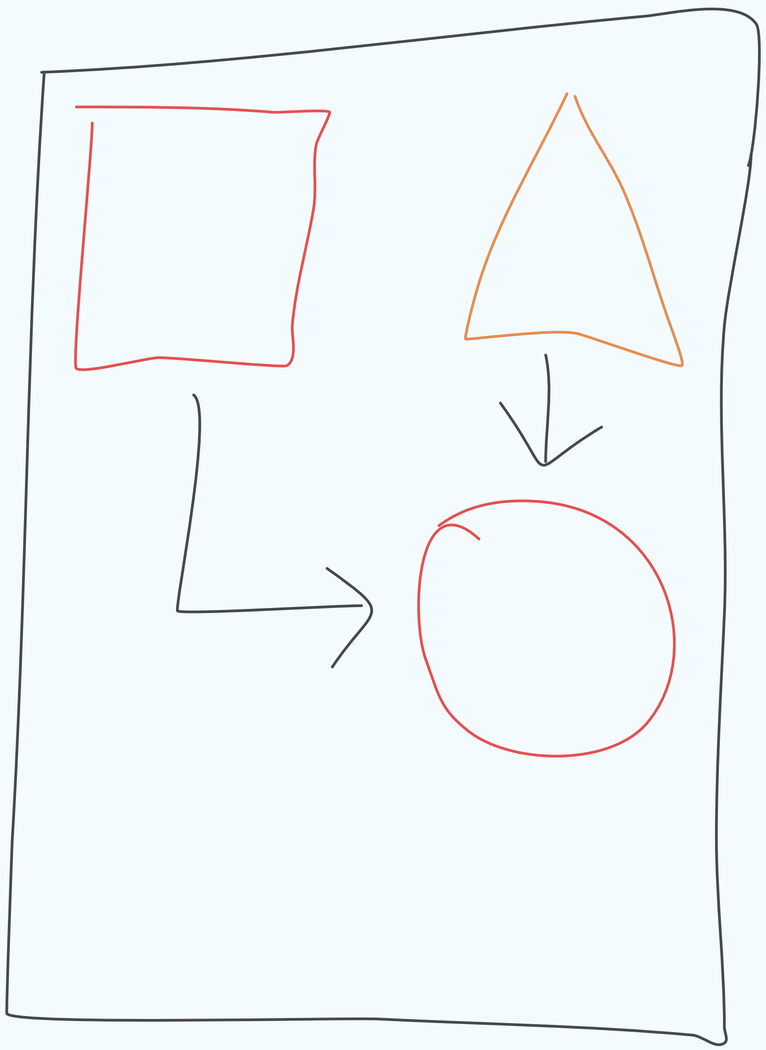

awfulness
progress

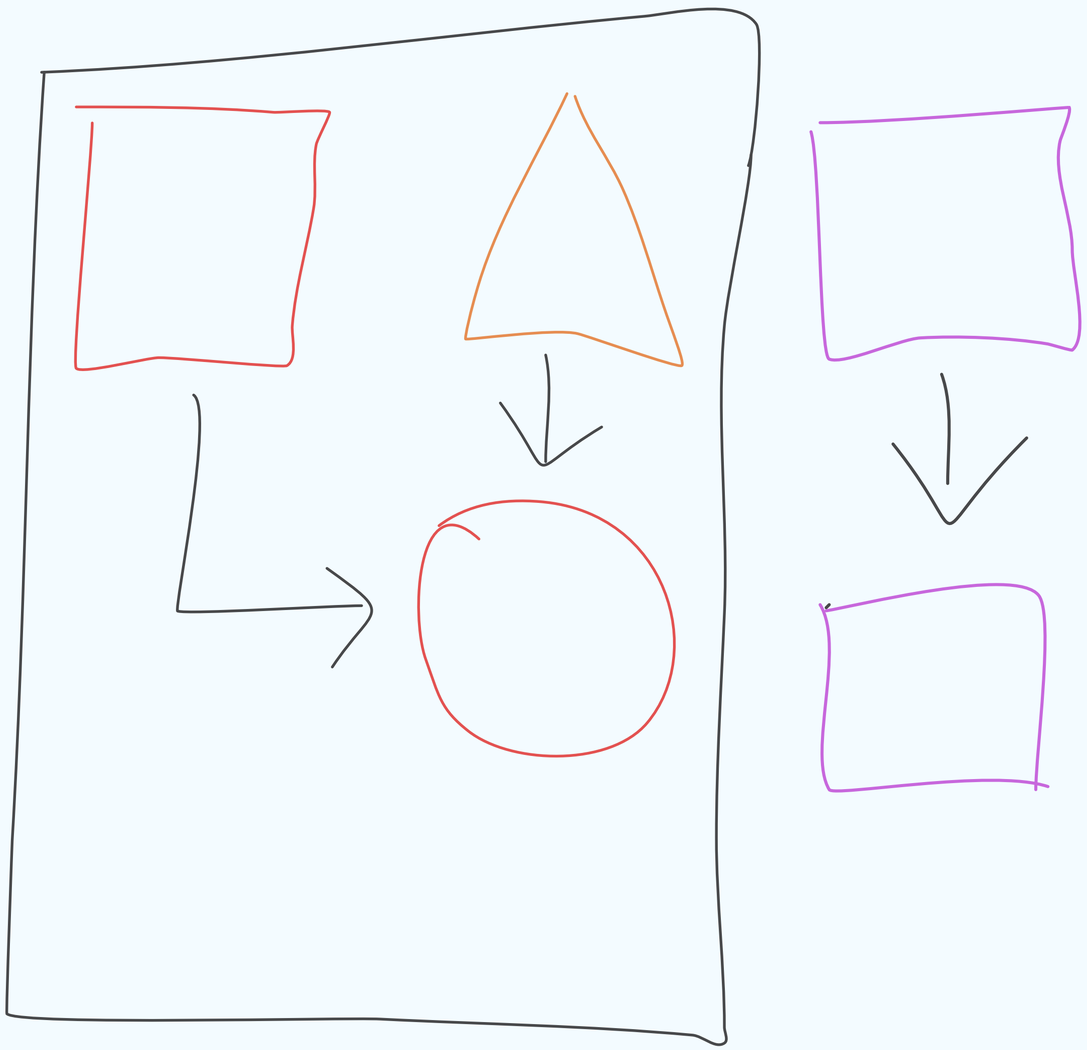


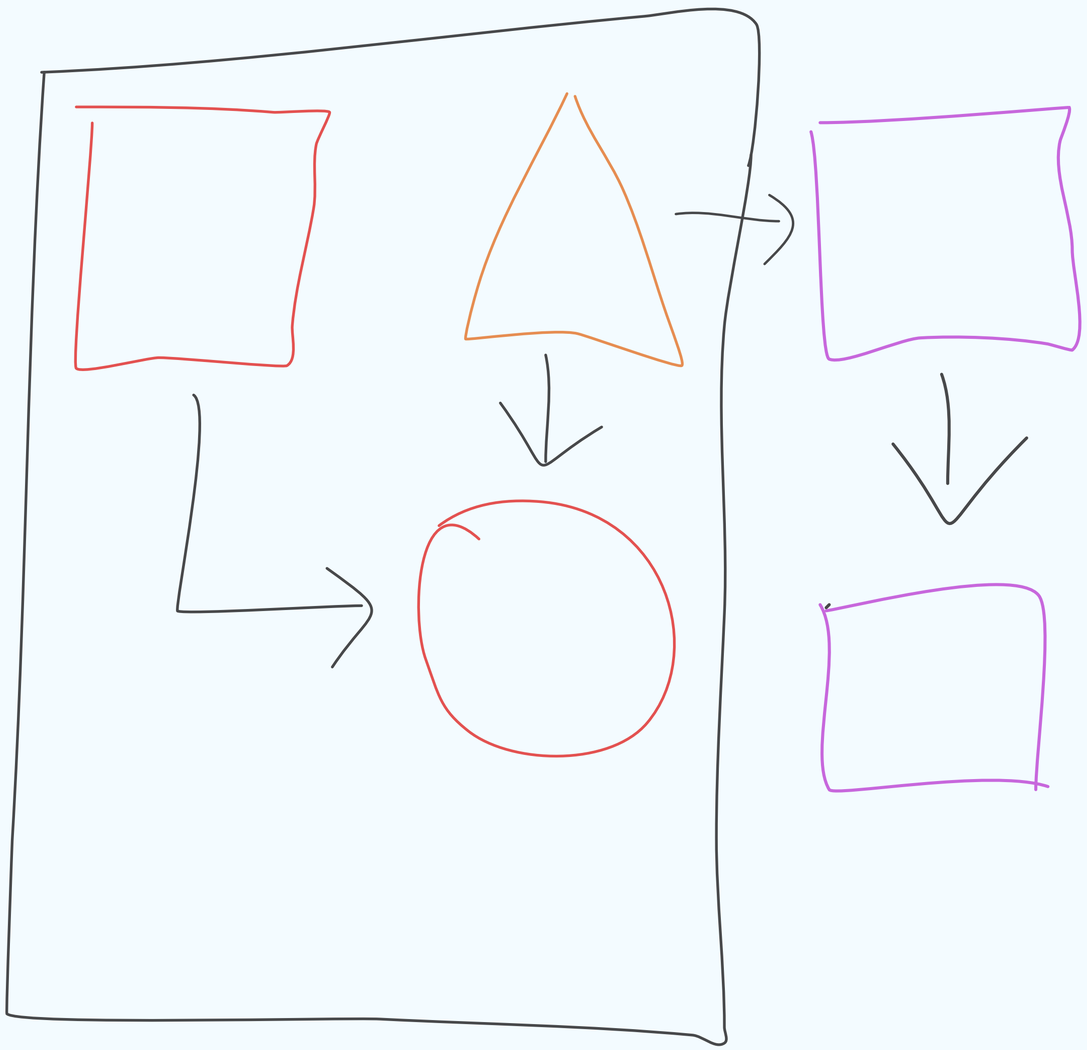
Open Source's Progress

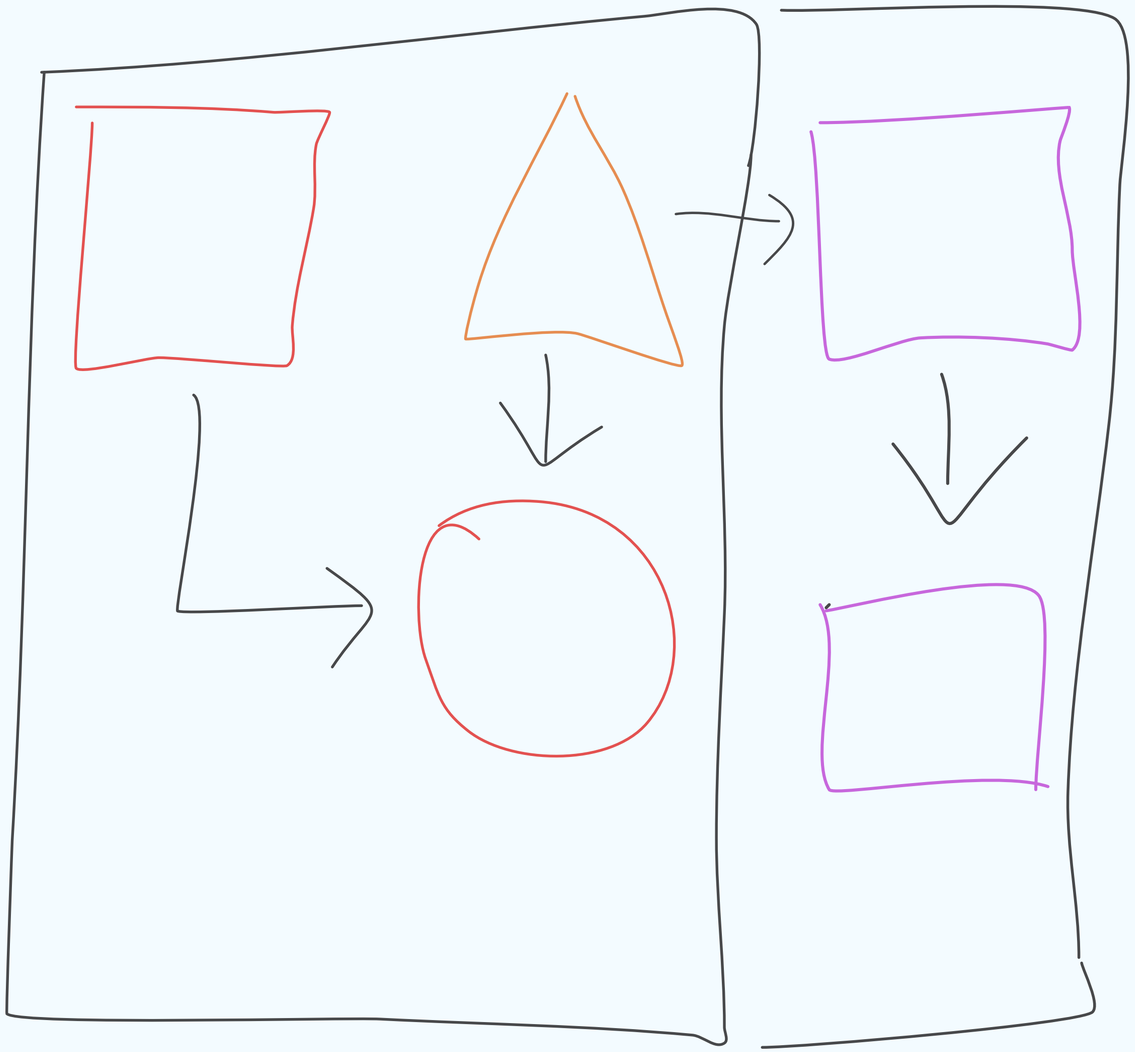


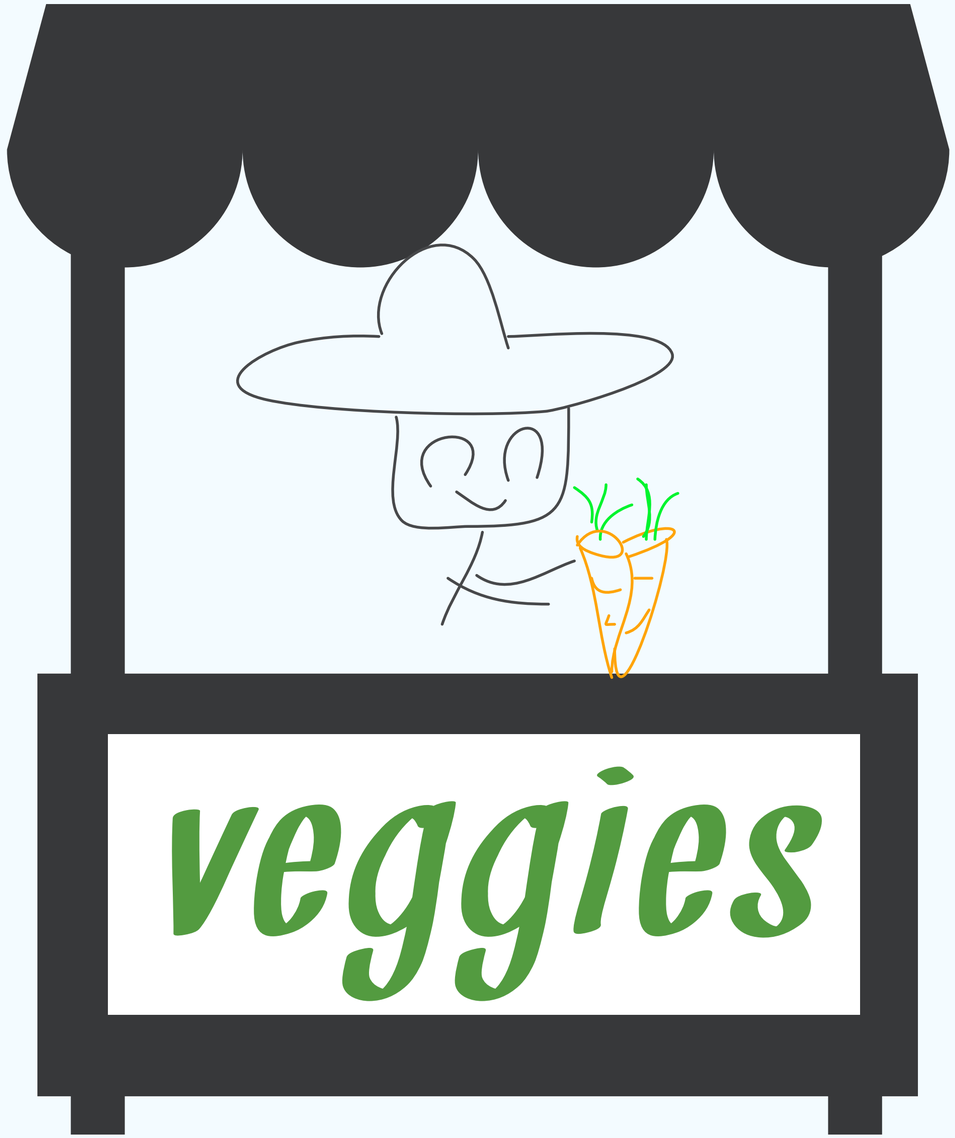
.h & .c files

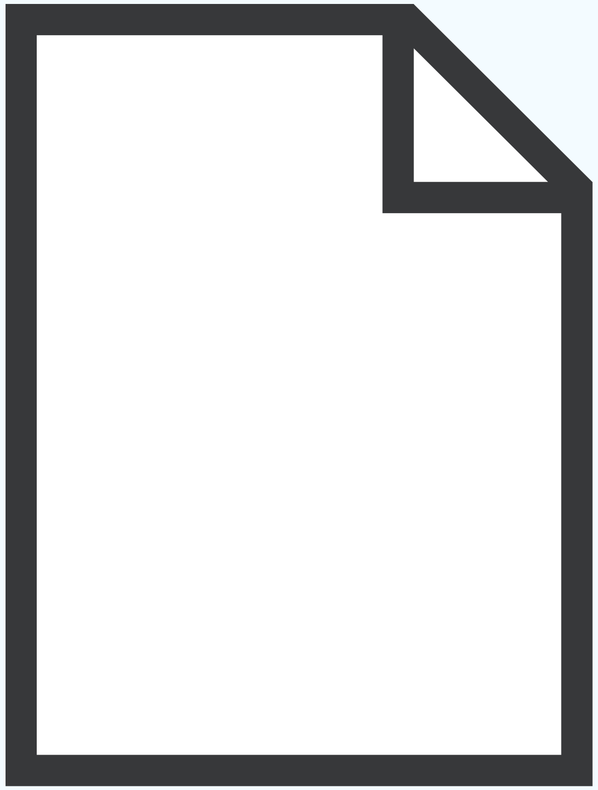




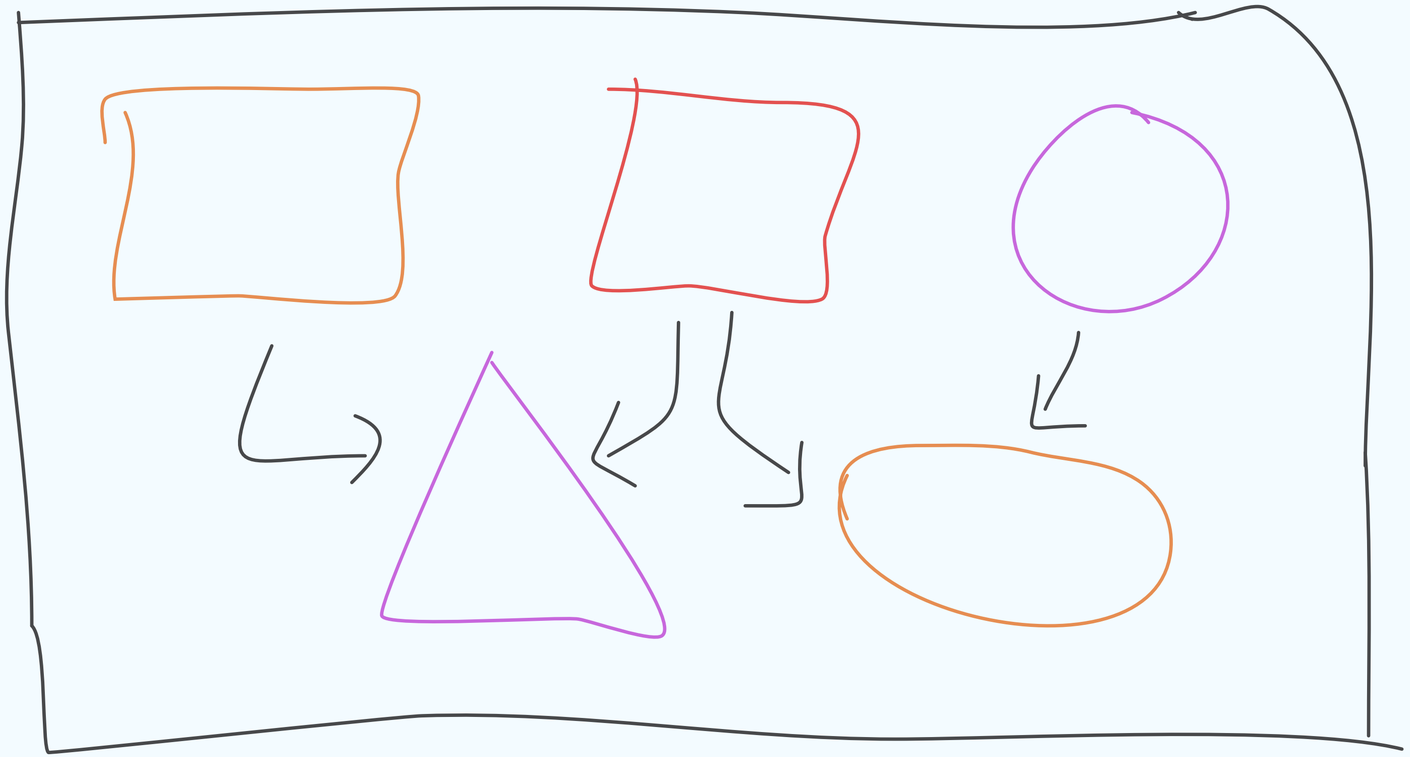


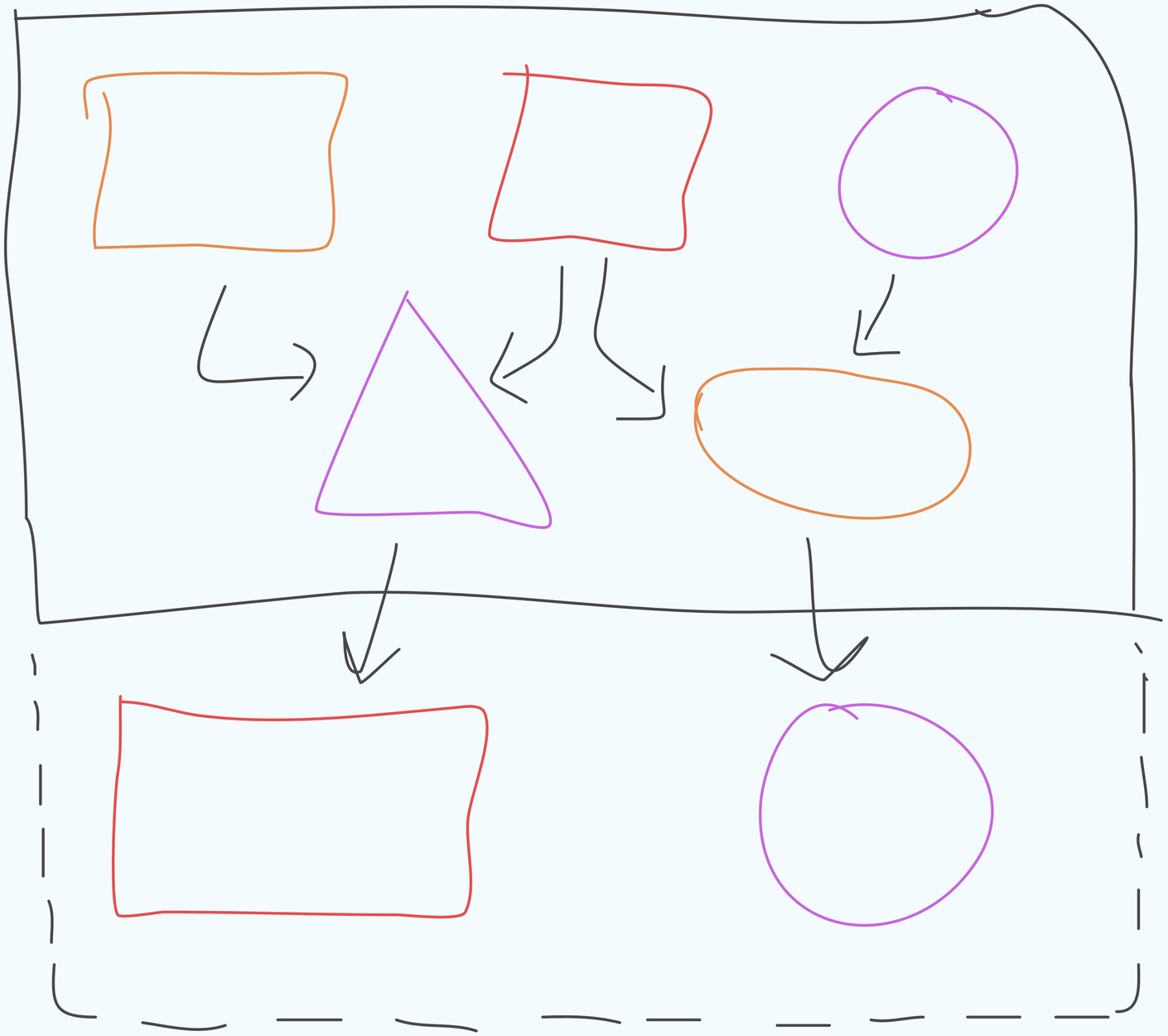


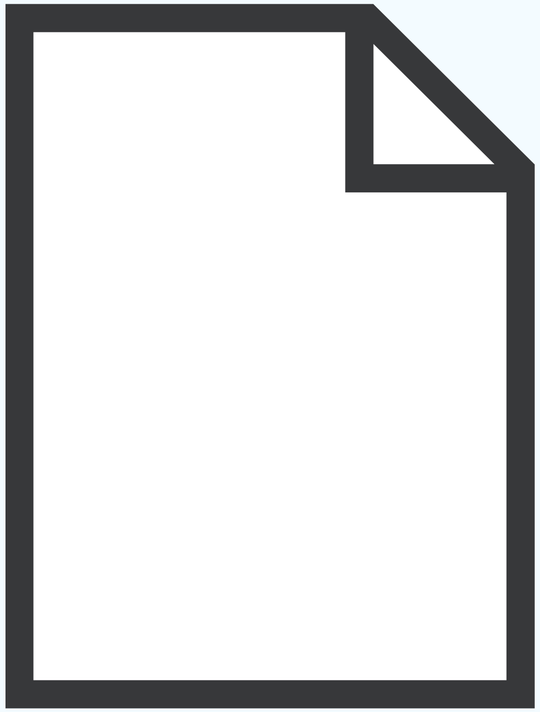




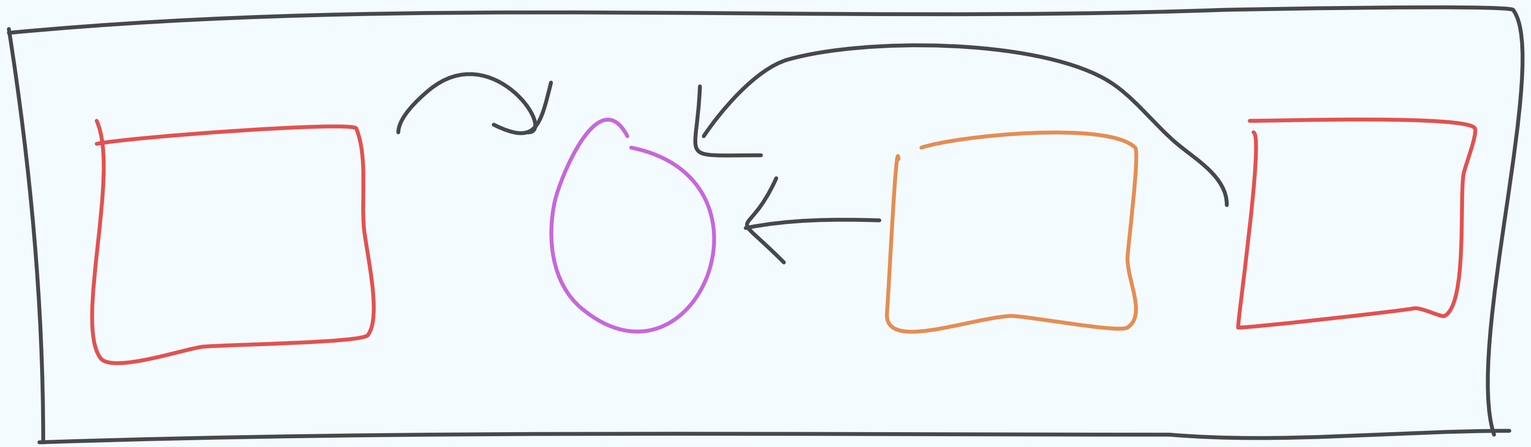
Makefile

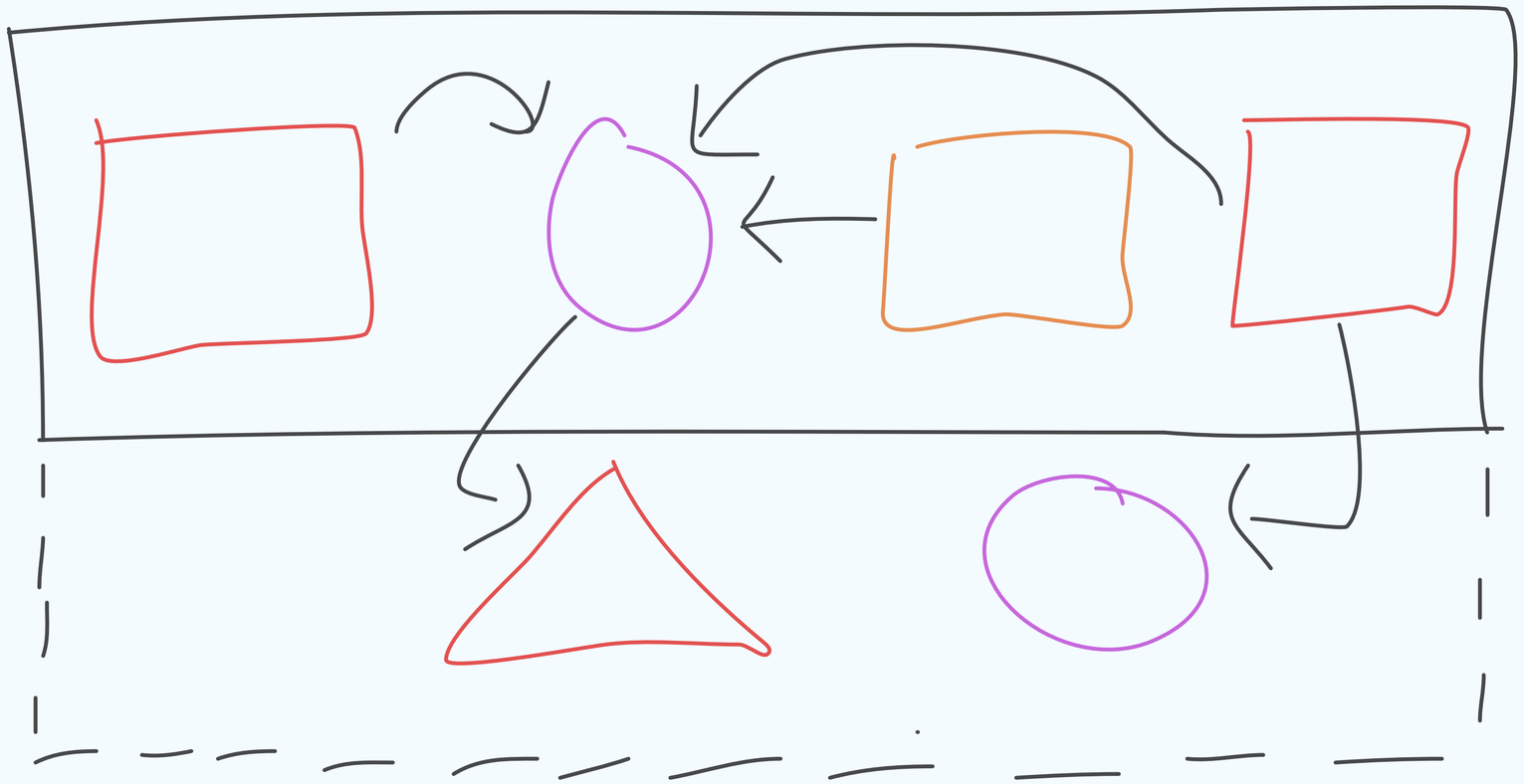


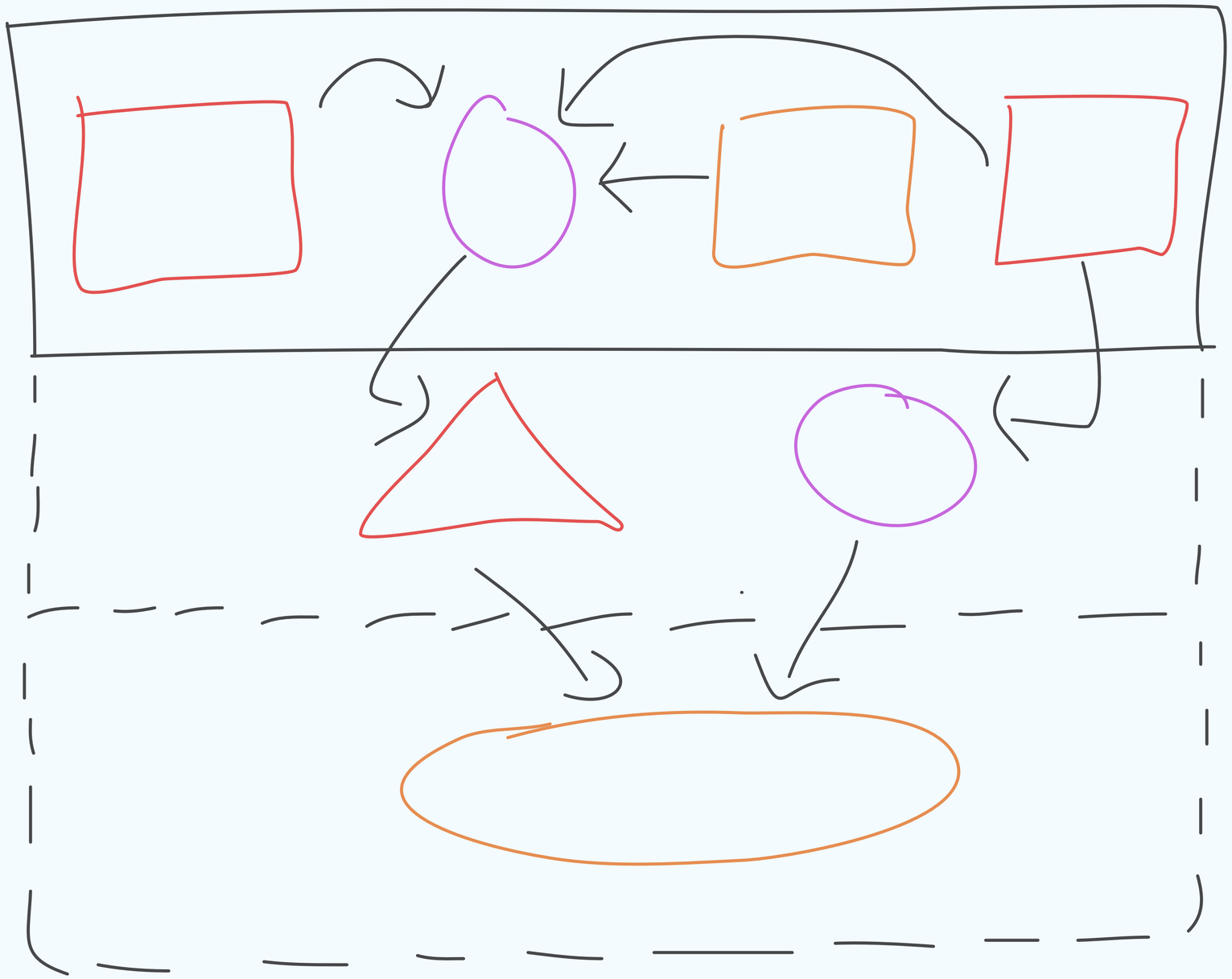


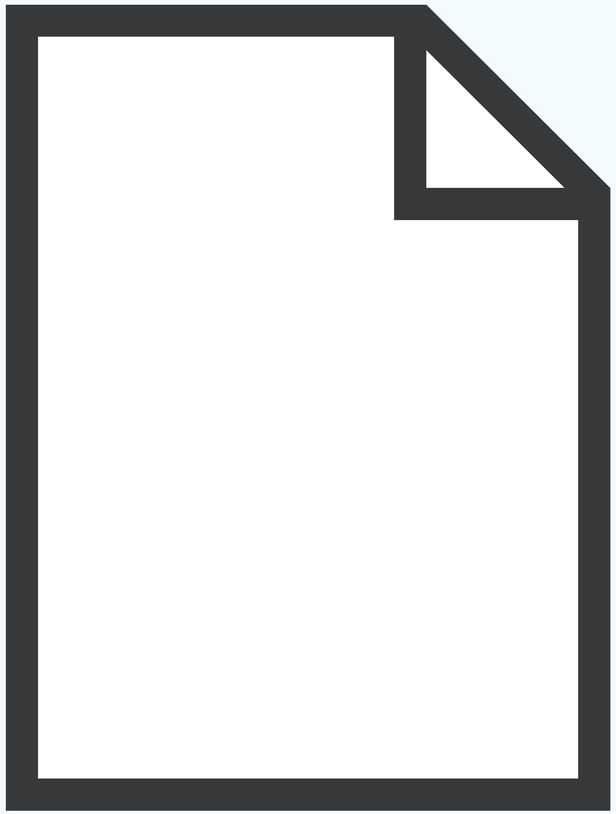


jar file

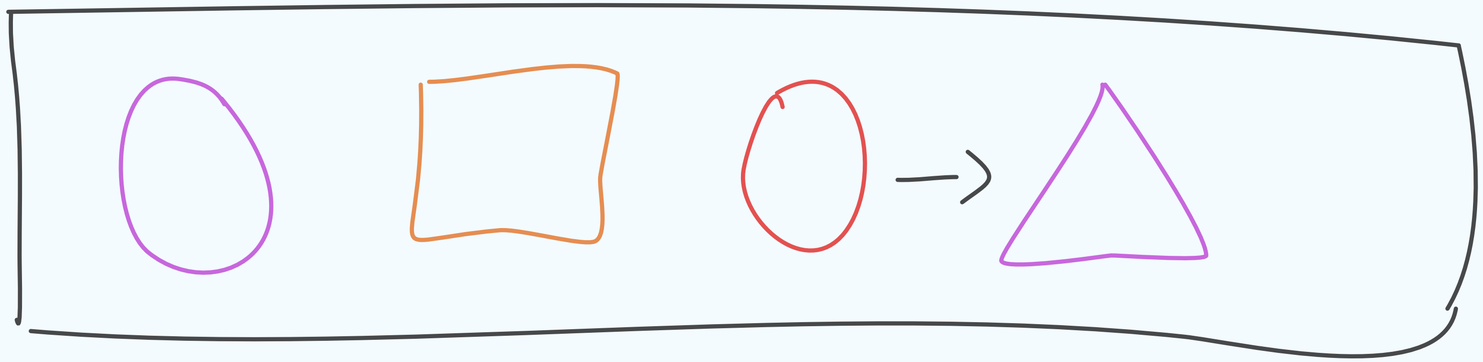


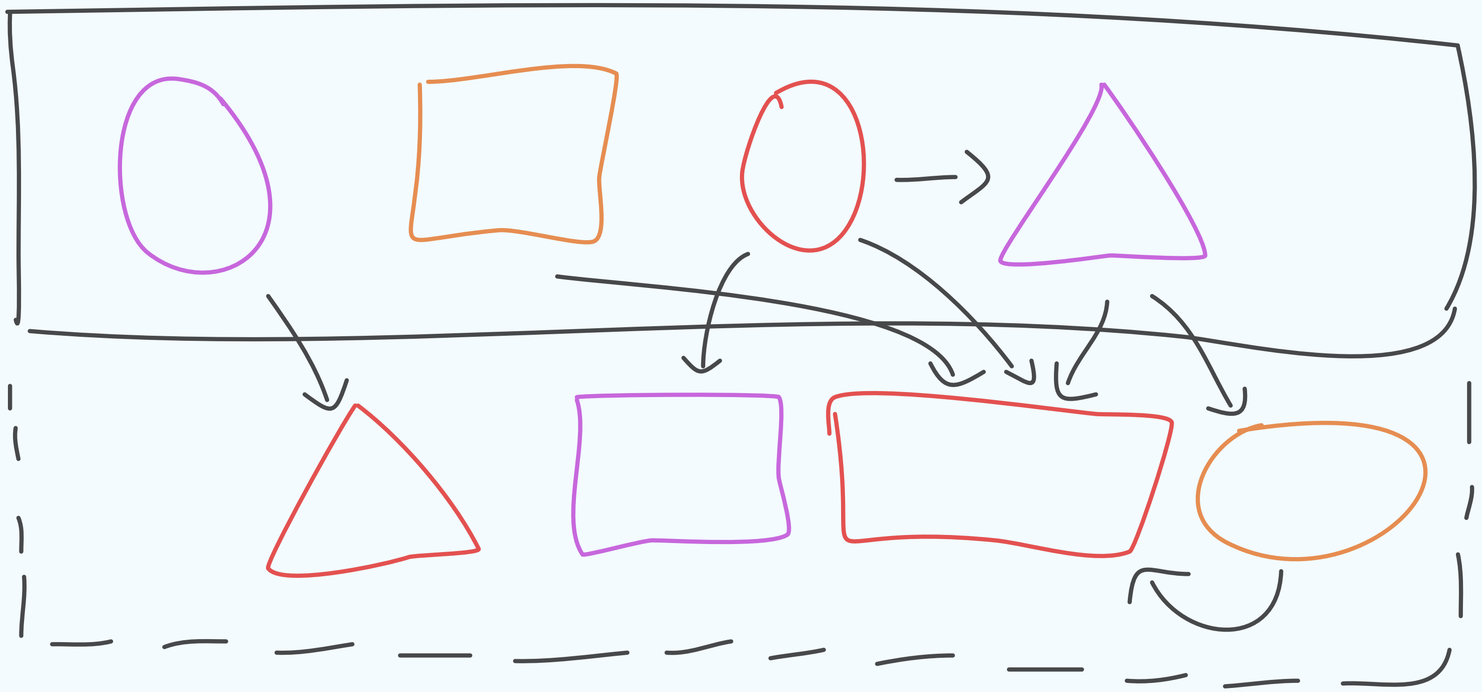


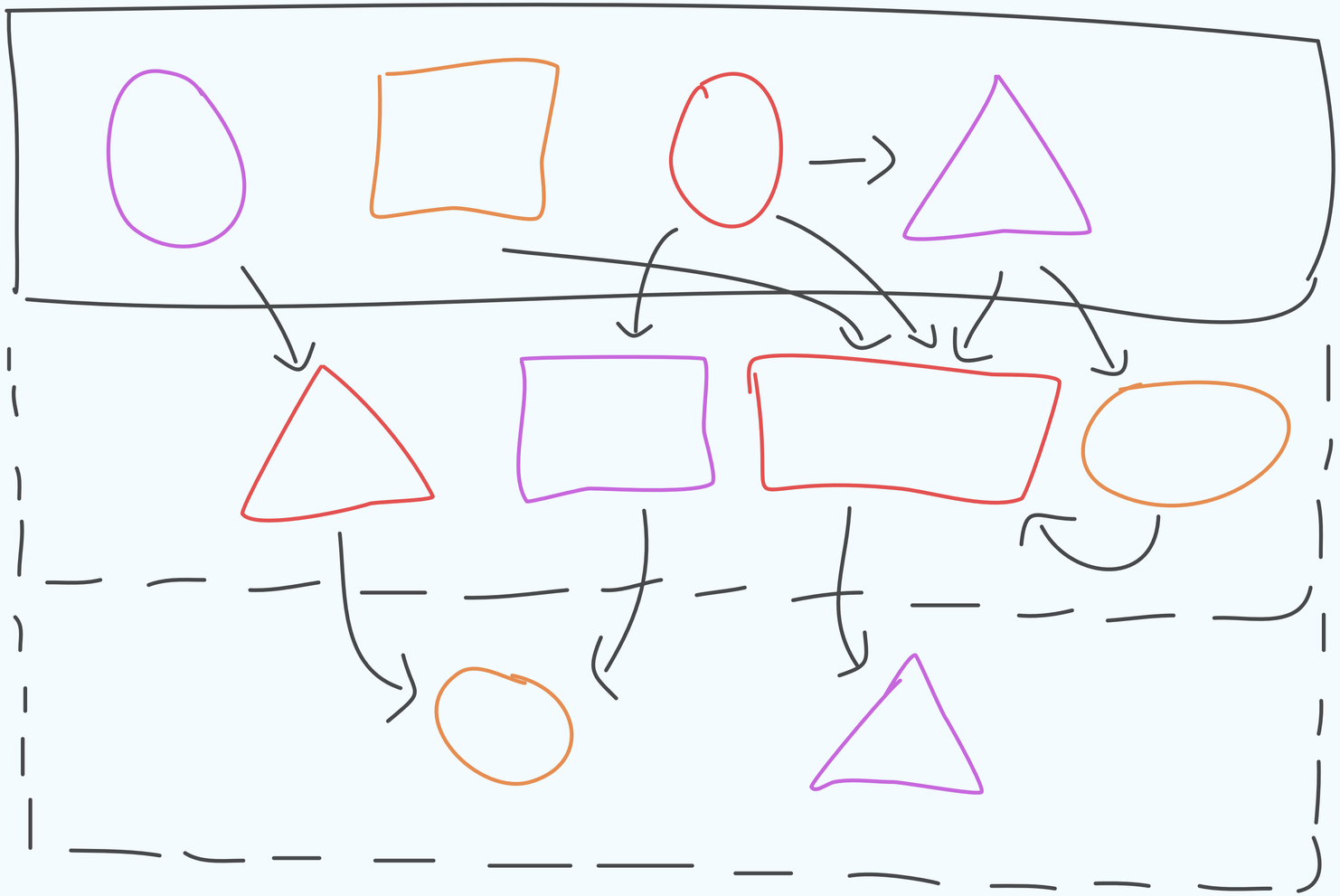


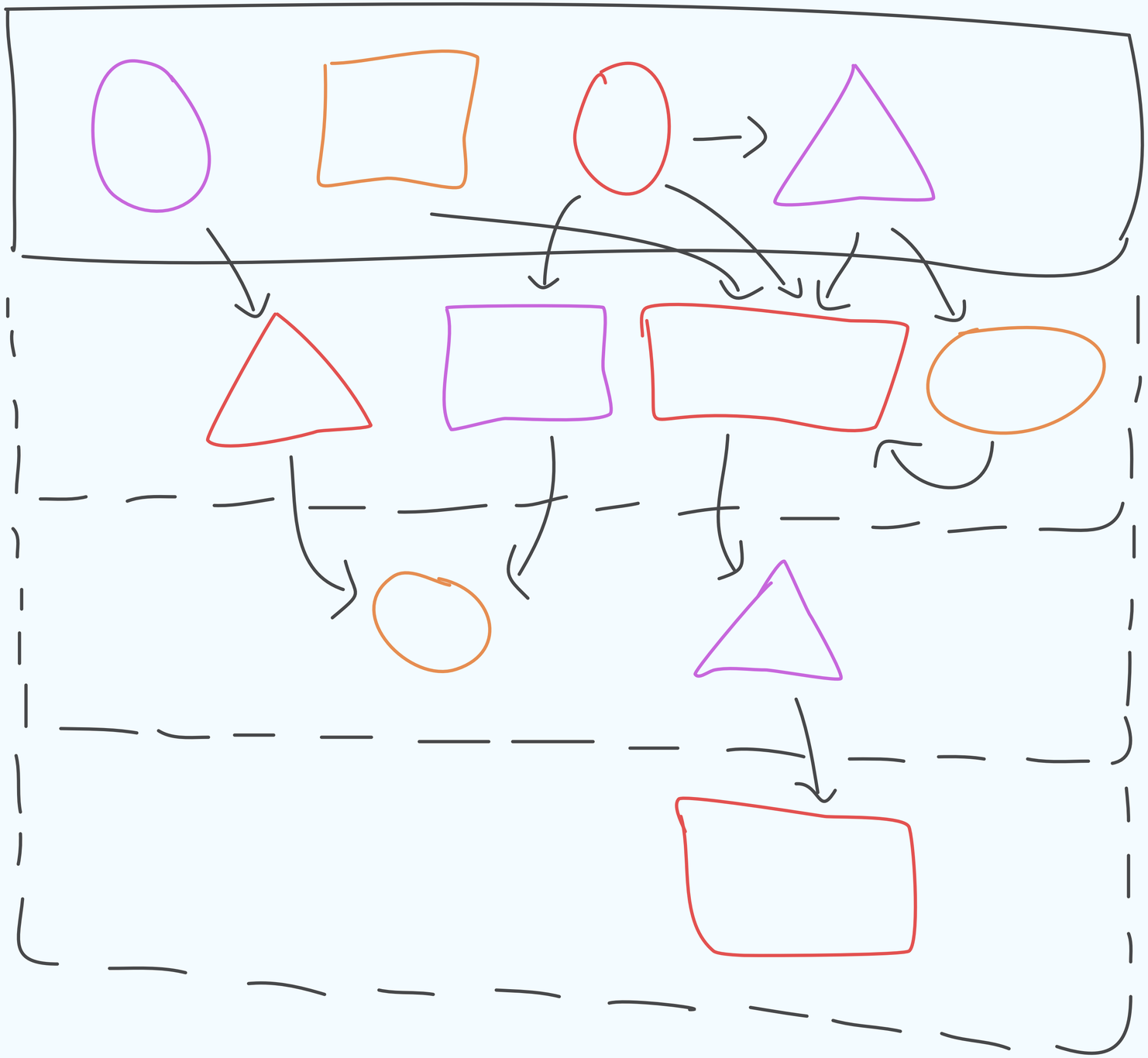


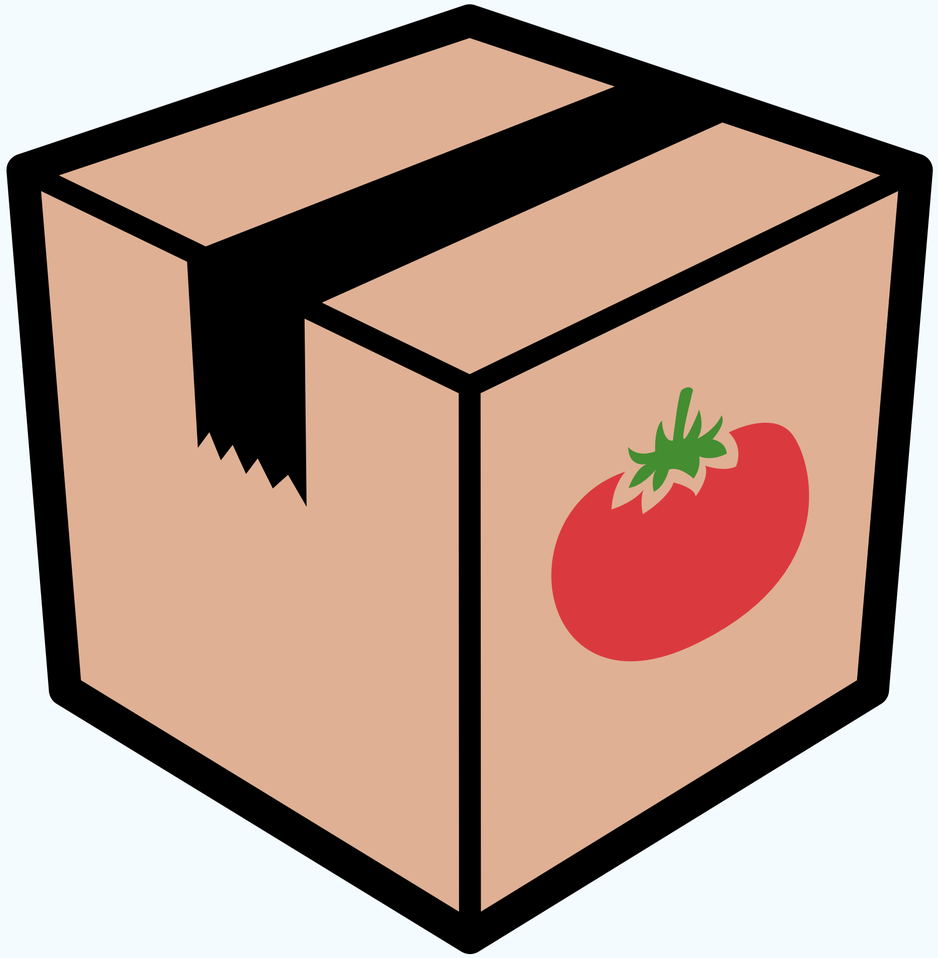
Gemfile

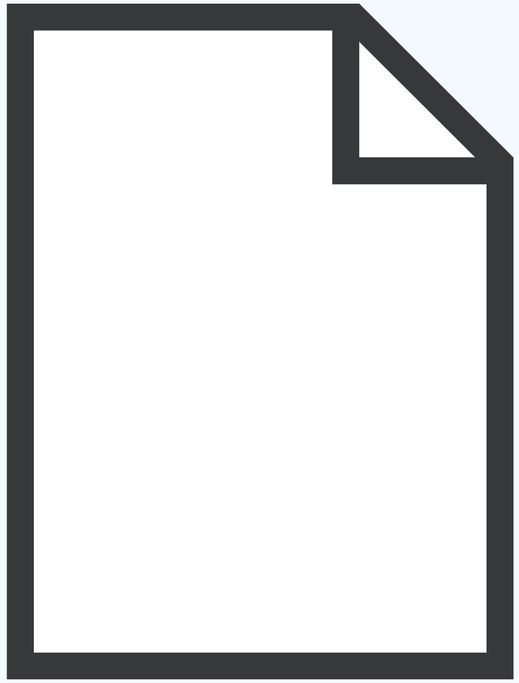




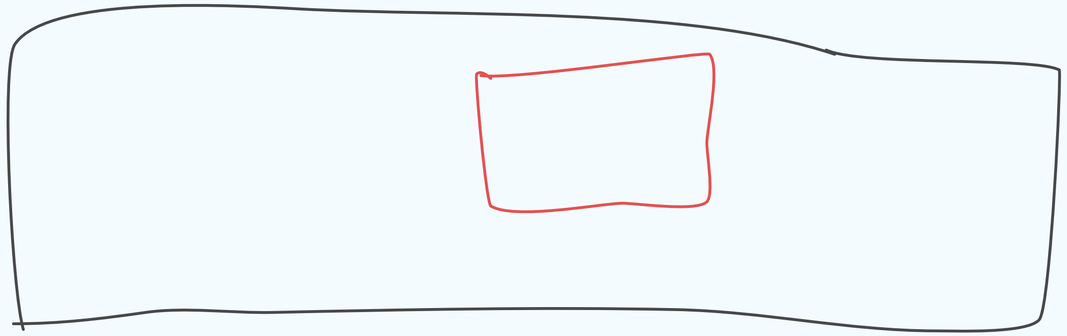


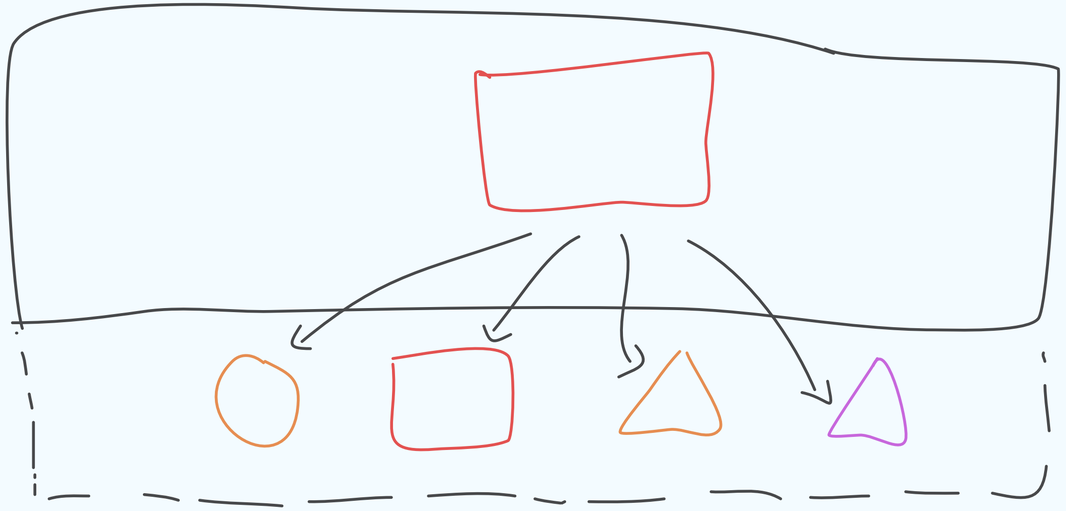


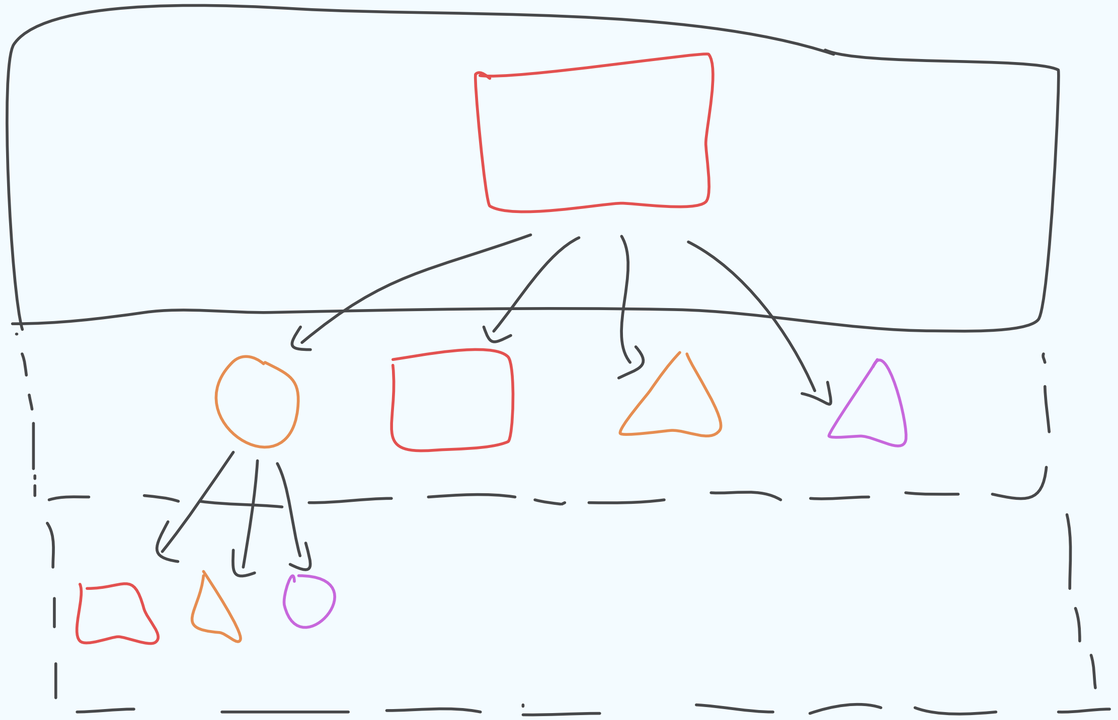


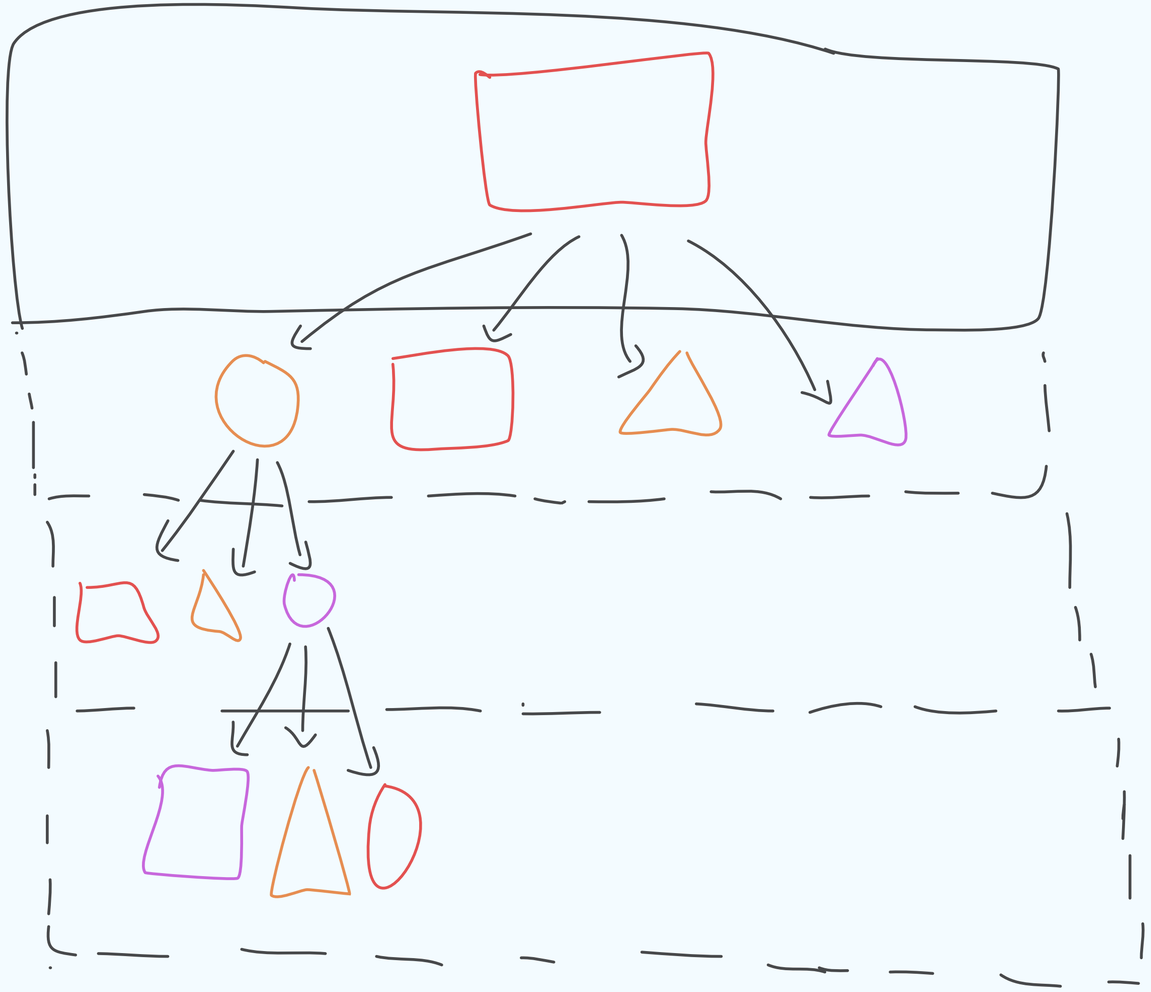


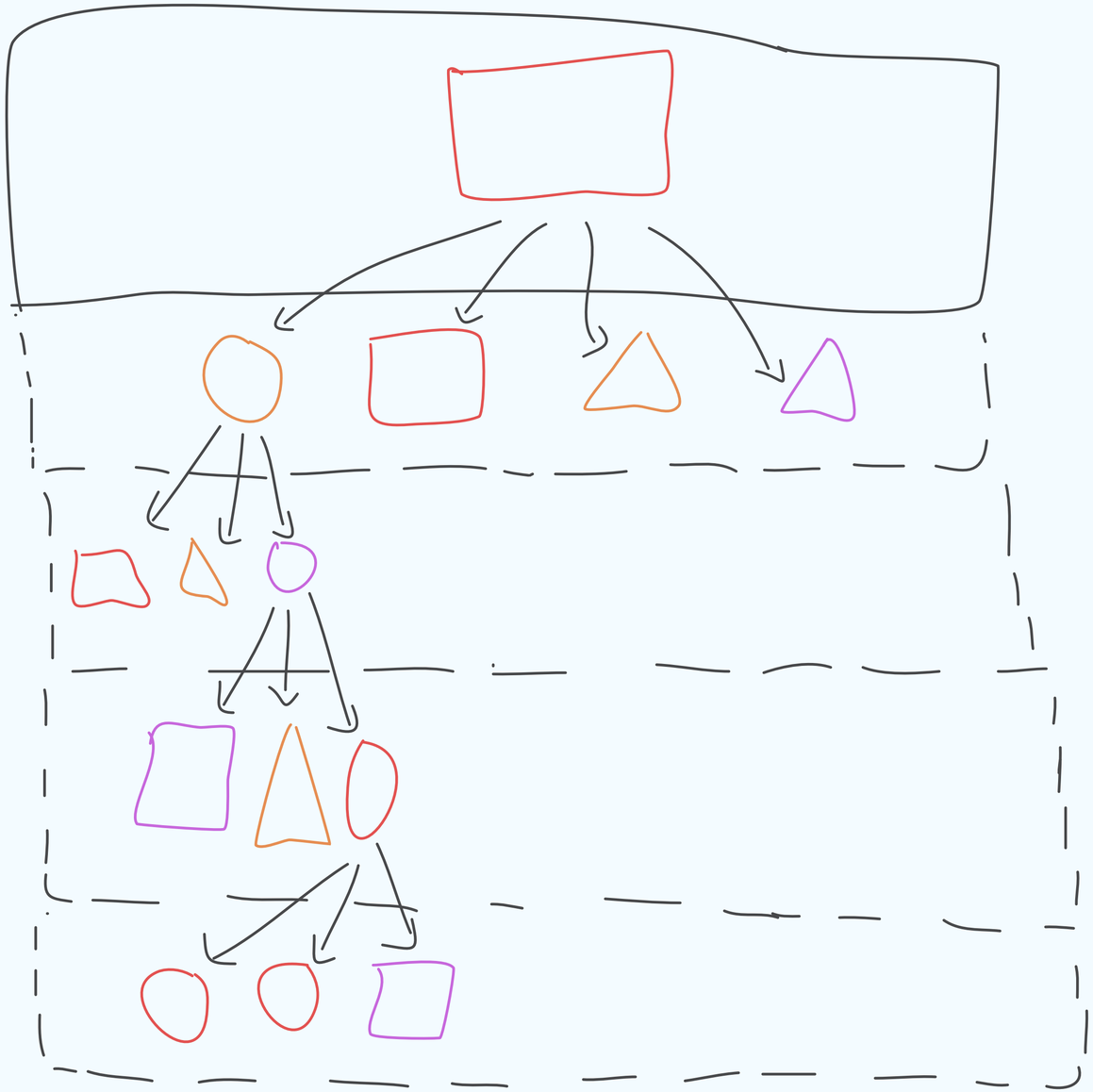
package.json

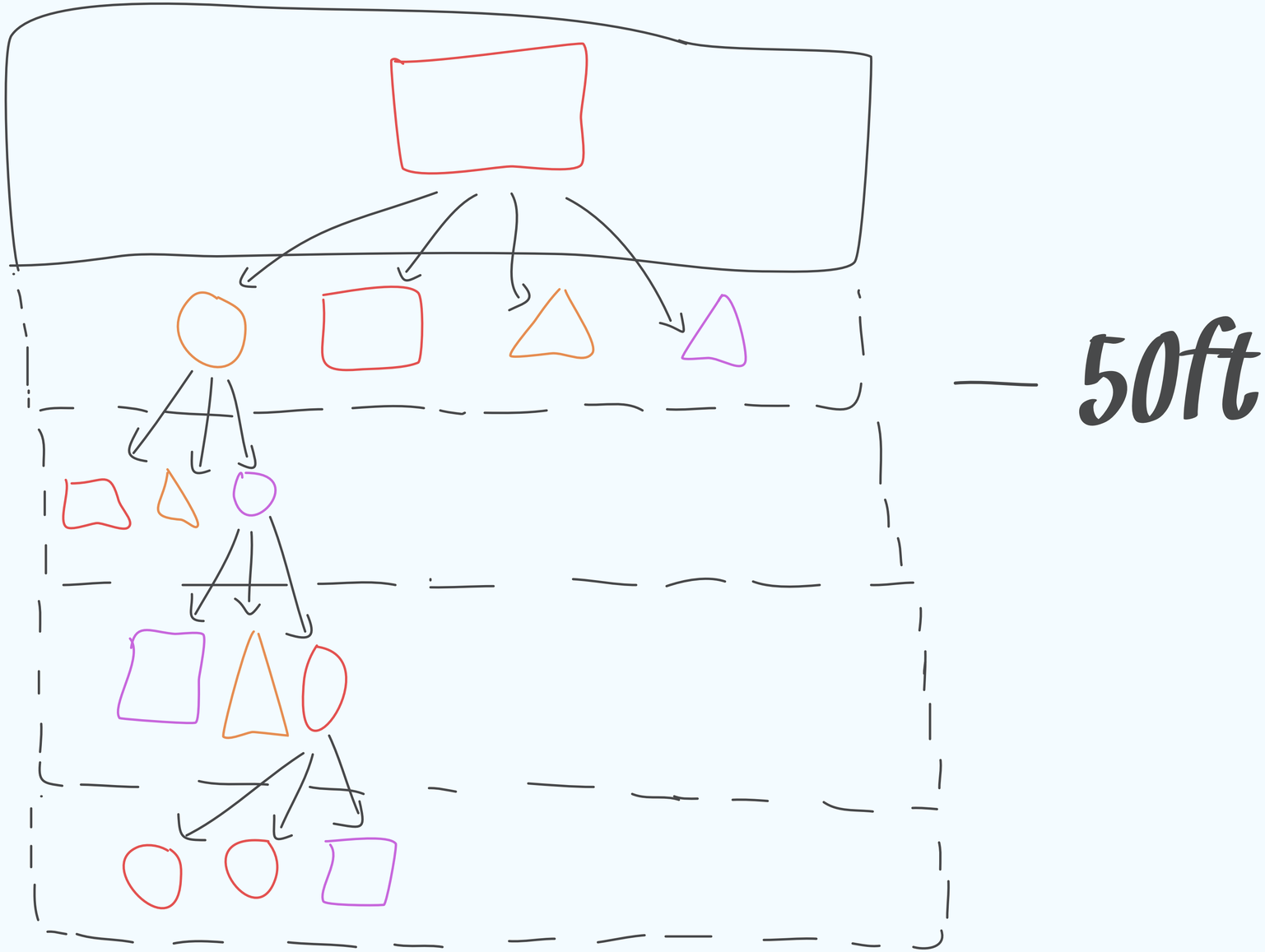


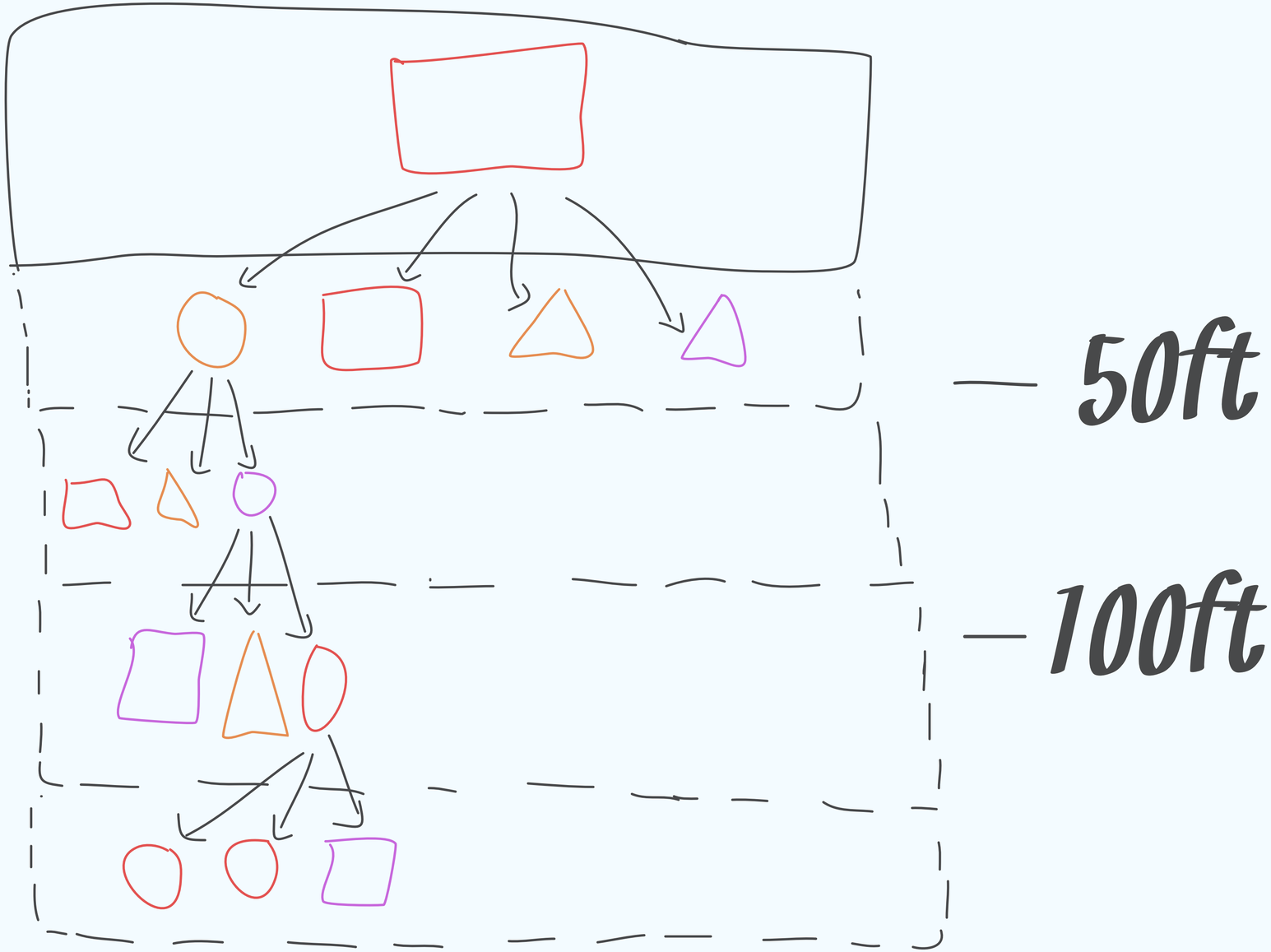


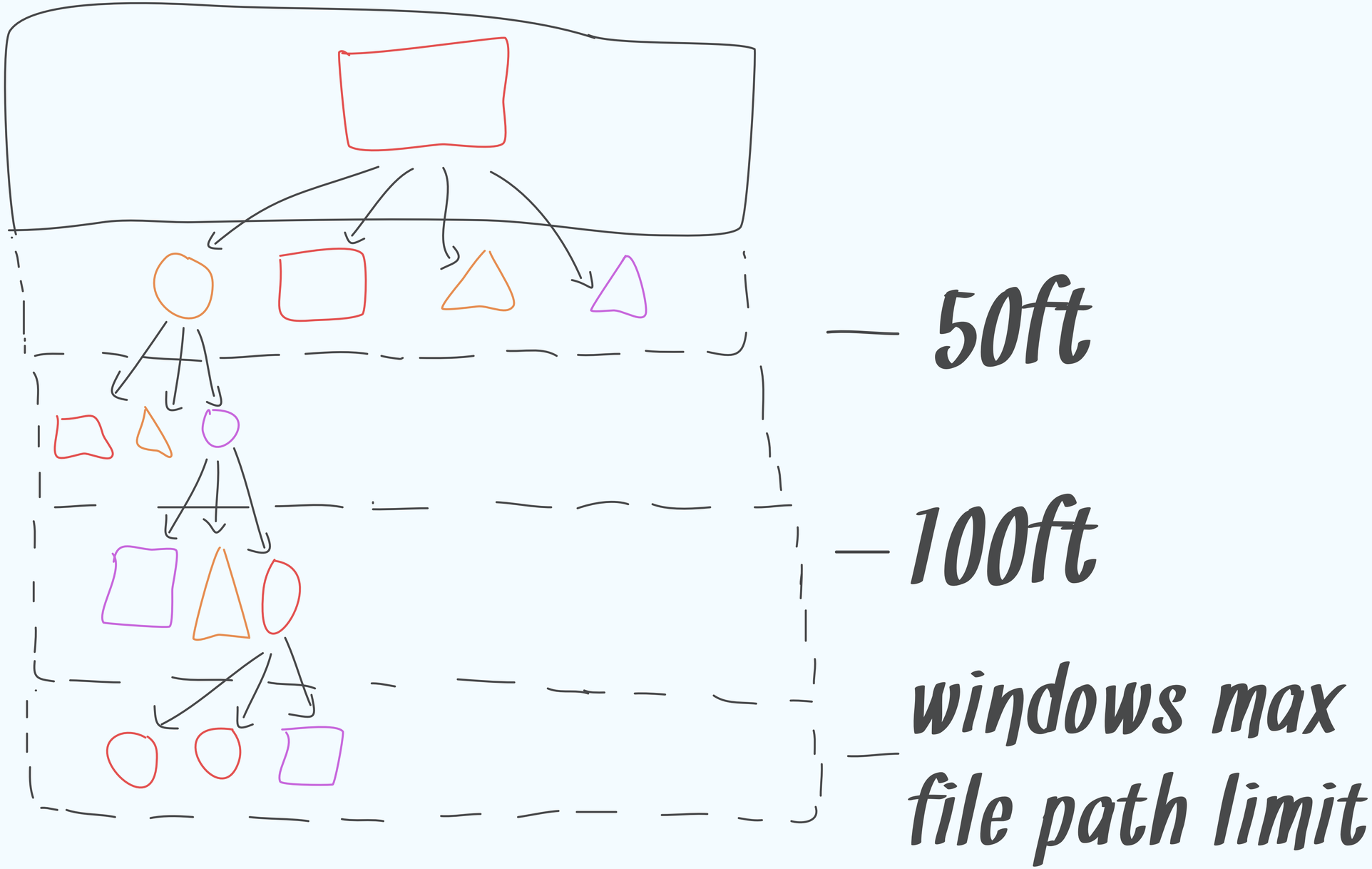







50ft


50ft
100ft


50ft
100ft
windows max
file path limit

short-term progress

short-term progress

for the low, low price of

short-term progress

for the low, low price of

long-term fragility

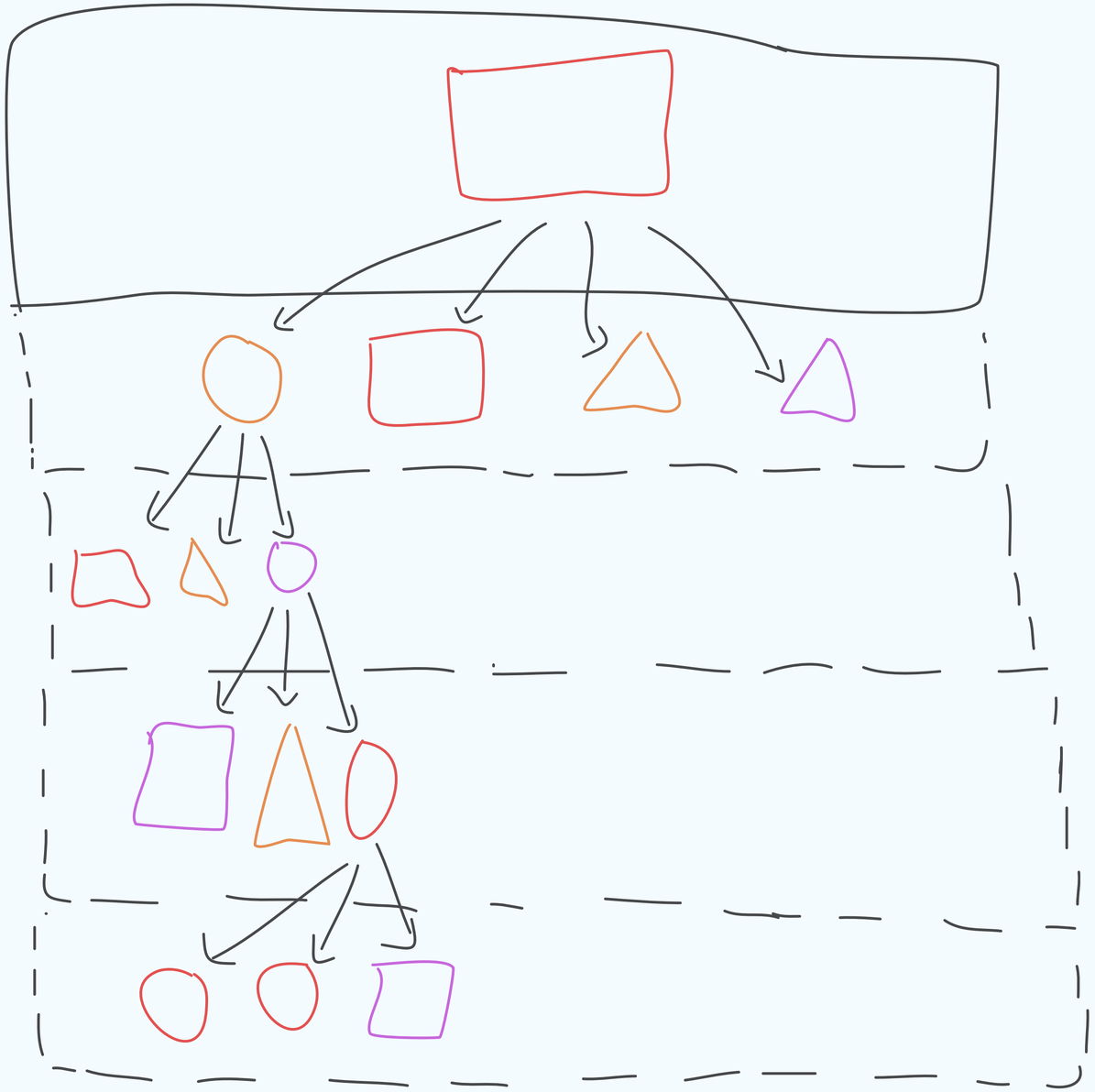
It's like, if you buy a puppy,
you're bringing it home

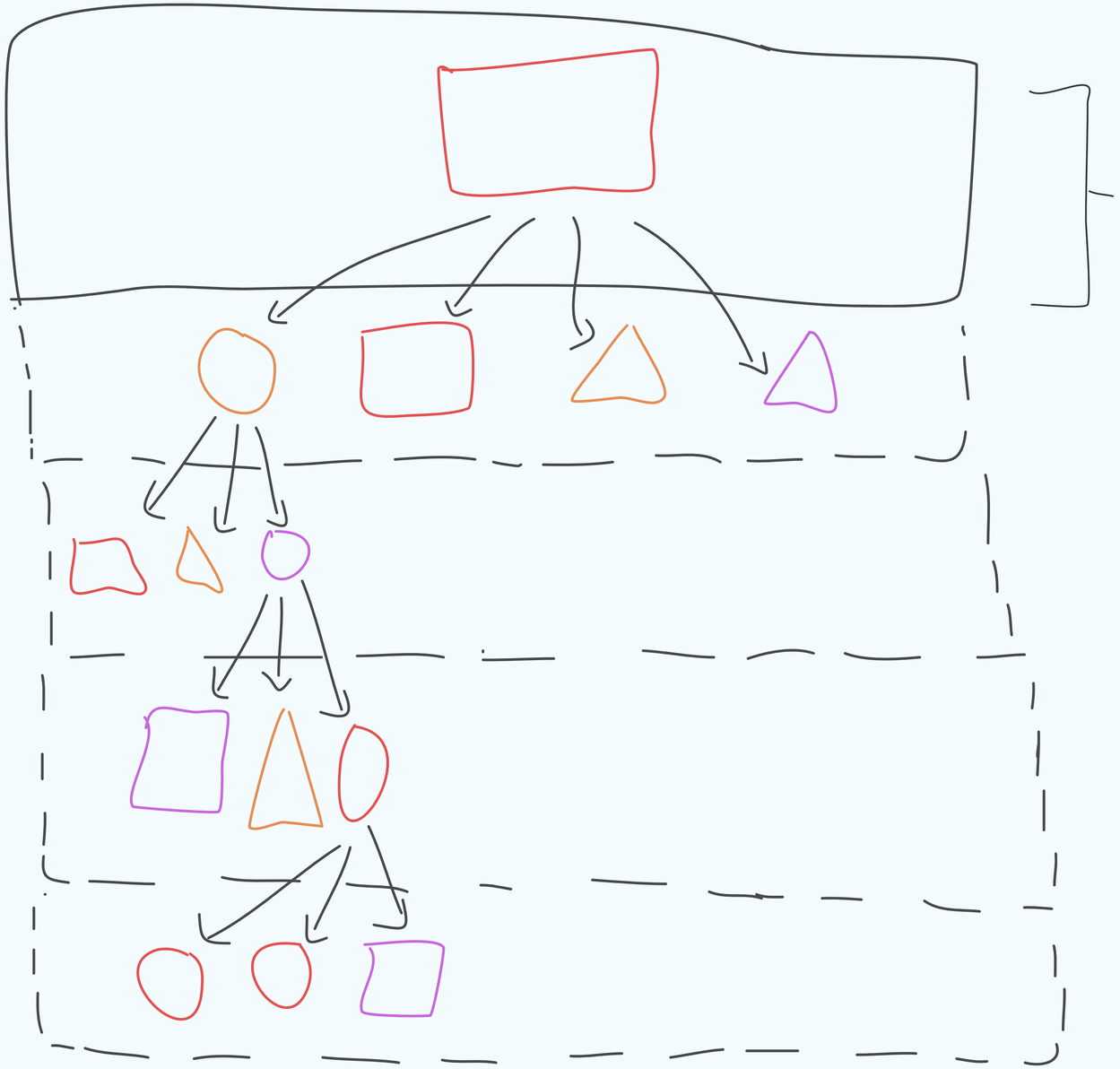
Gary Bernhardt
@garybernhardt

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.

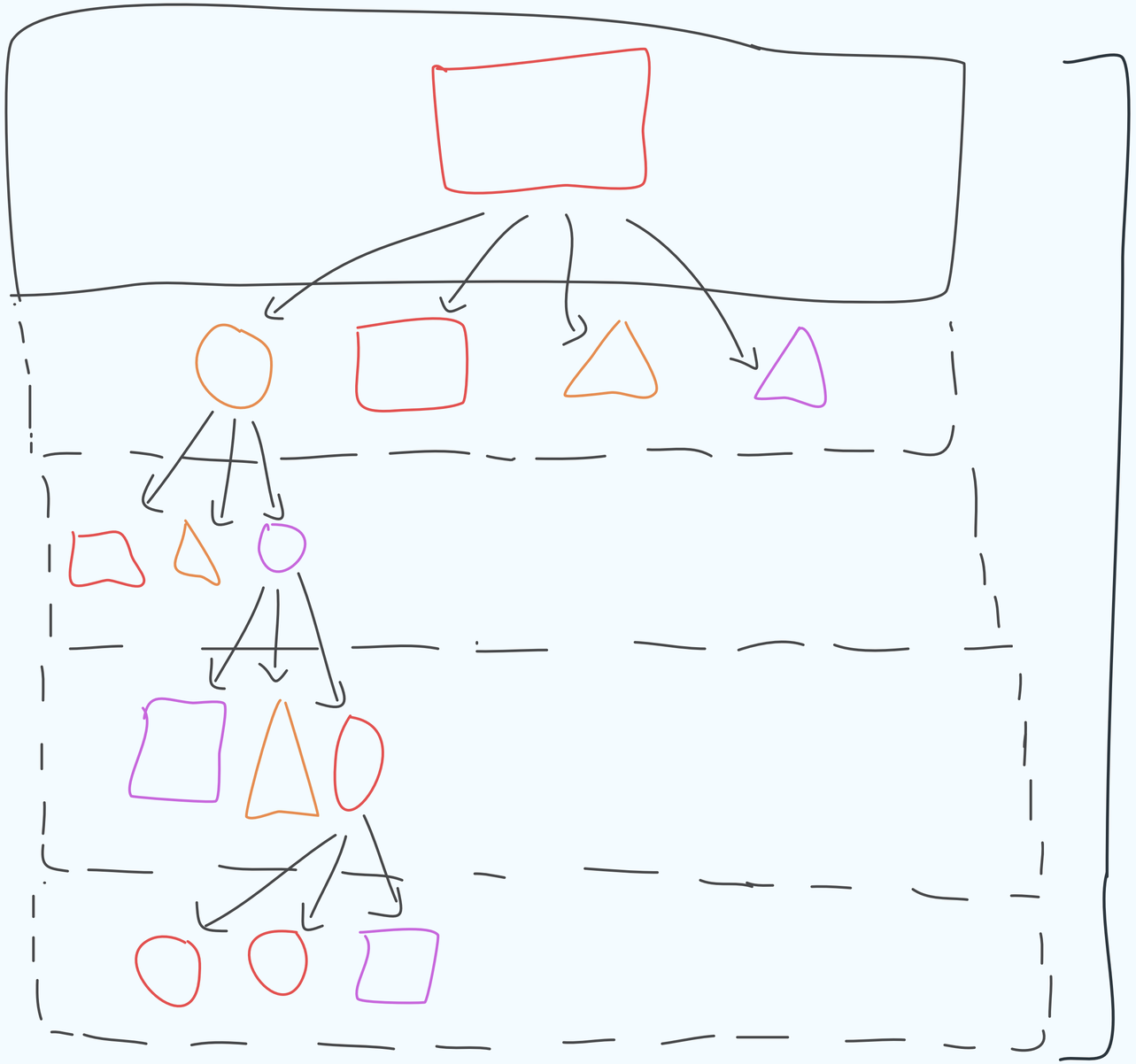
Gary Bernhardt
@garybernhardt

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.

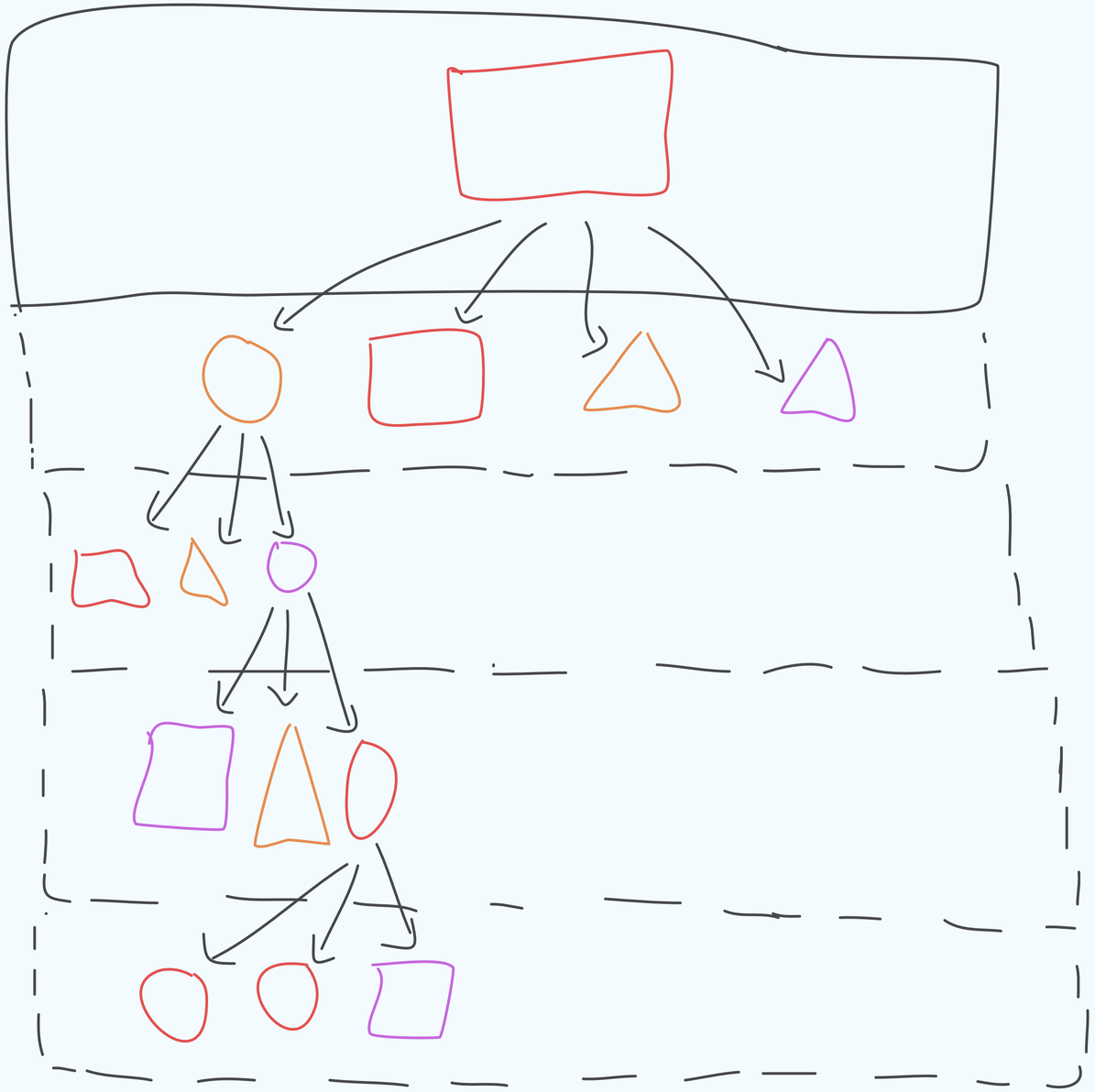




What we think our app is



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
Using zurb-foundation 4.3.2
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.
```

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.
Your bundle has 10 direct dependencies and 43 transitive dependencies.
Your gems' version specifiers preclude the installation of 1300 gems.
```

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.
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.
```

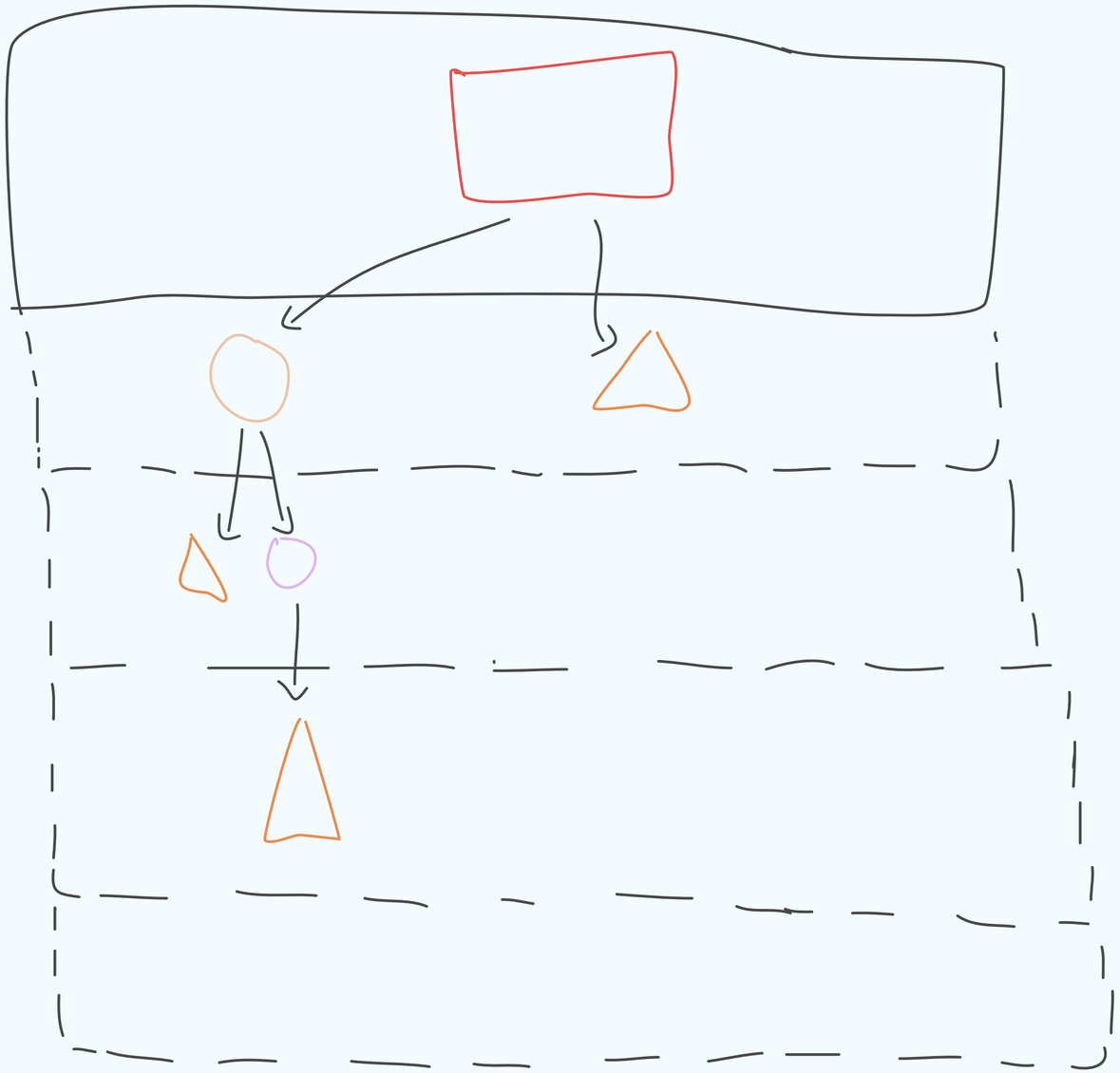
WWW.HETEMEEL.COM

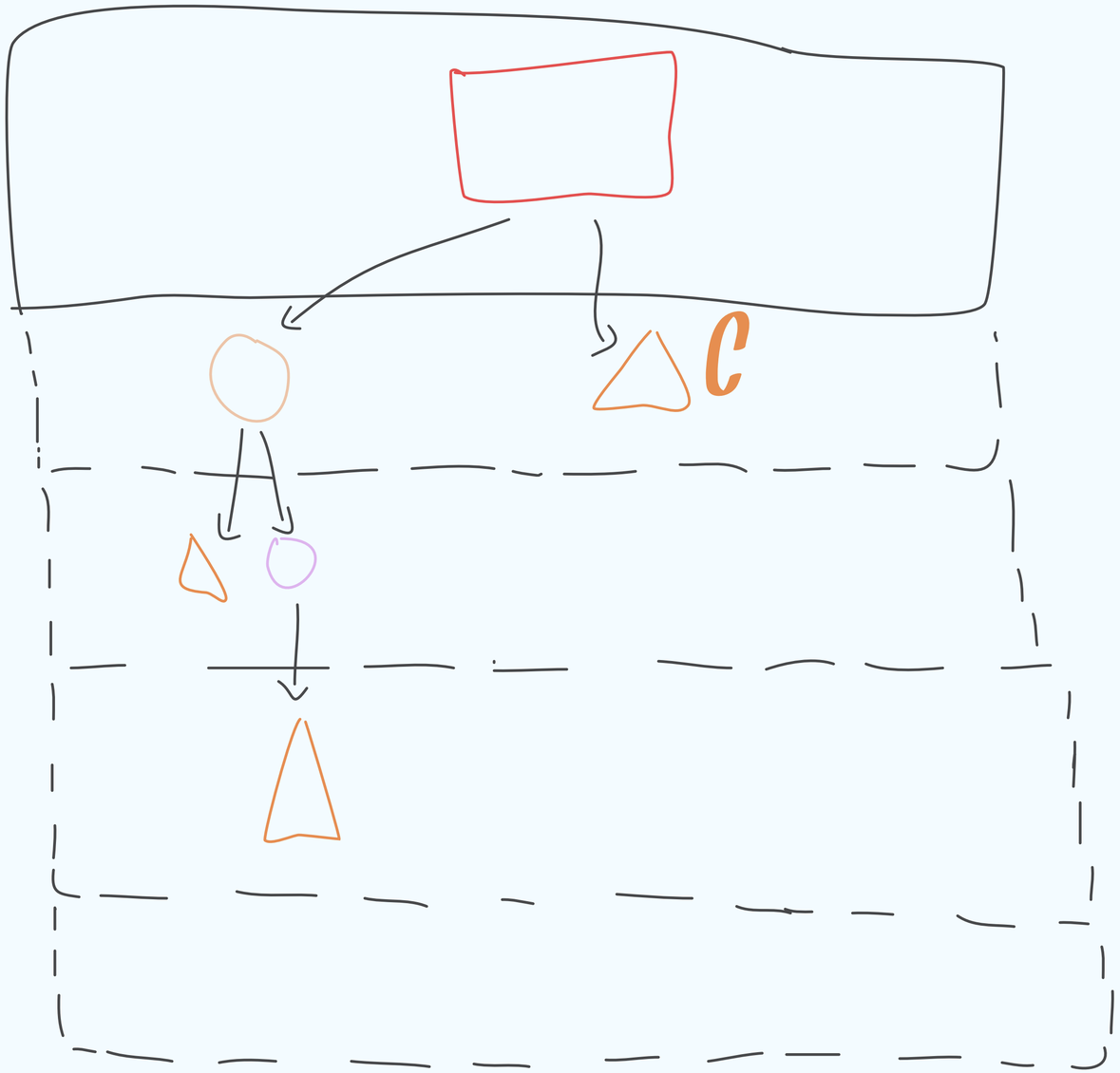
HA!

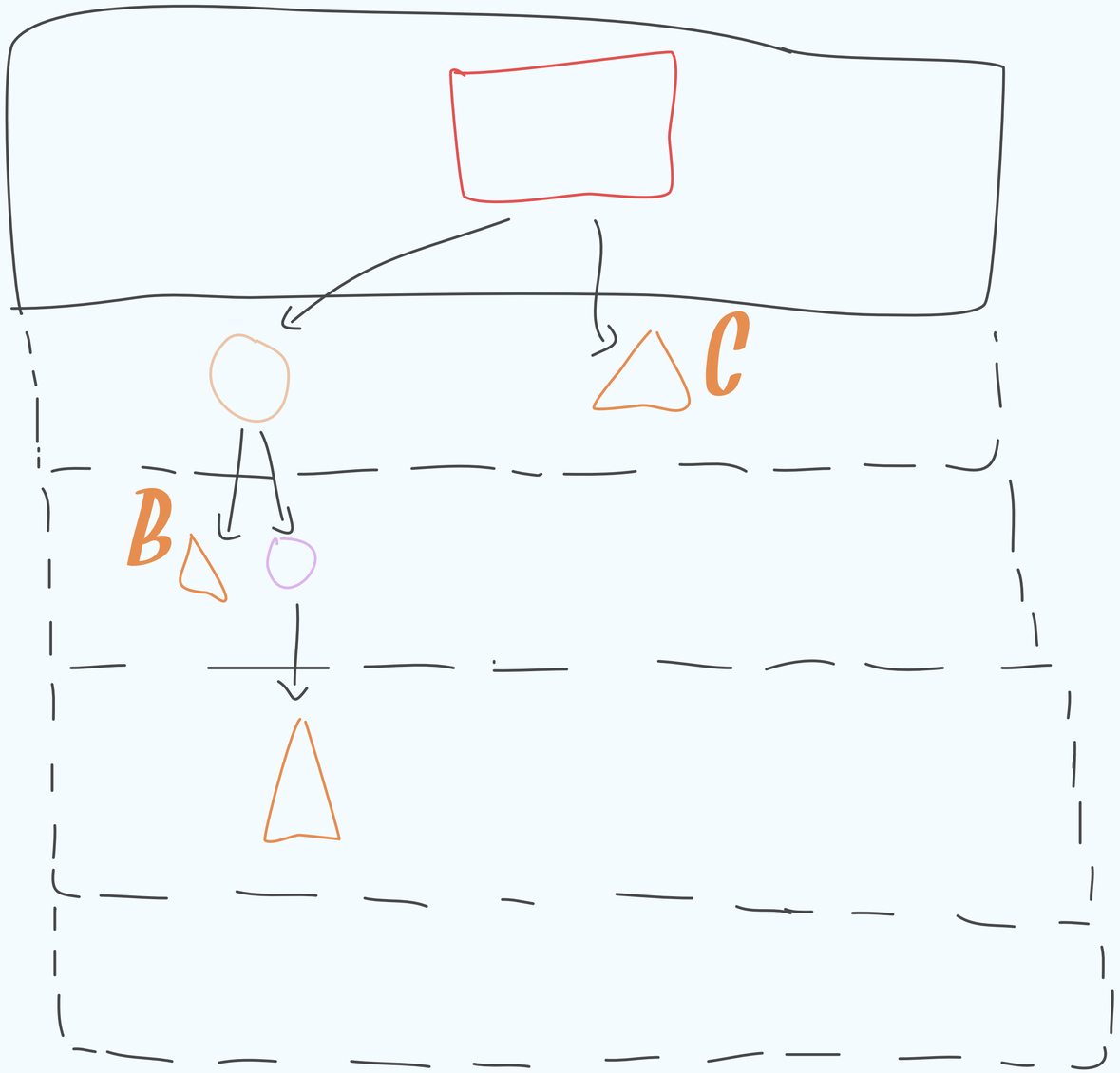
HA!

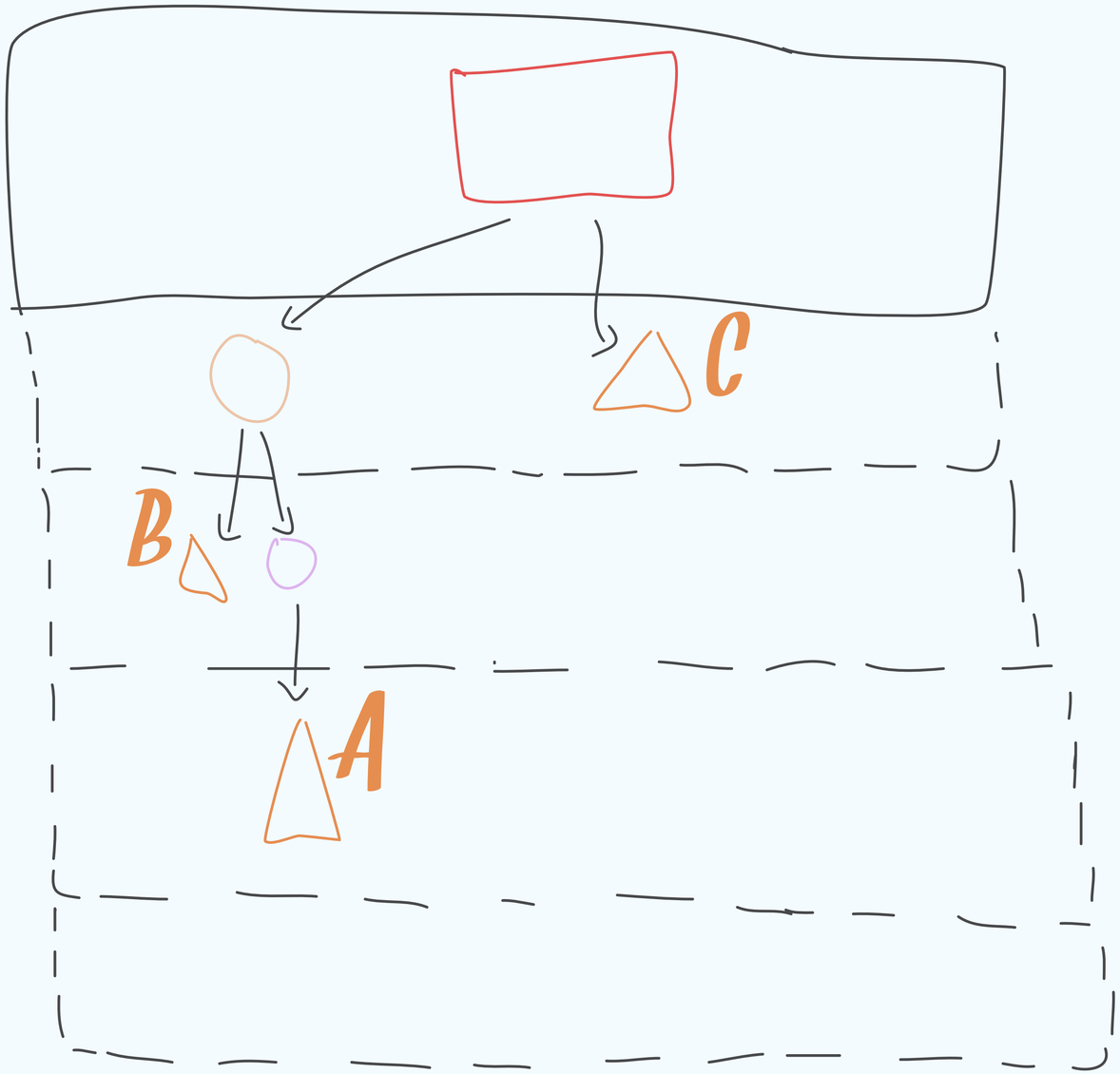
VERSION RESOLUTION

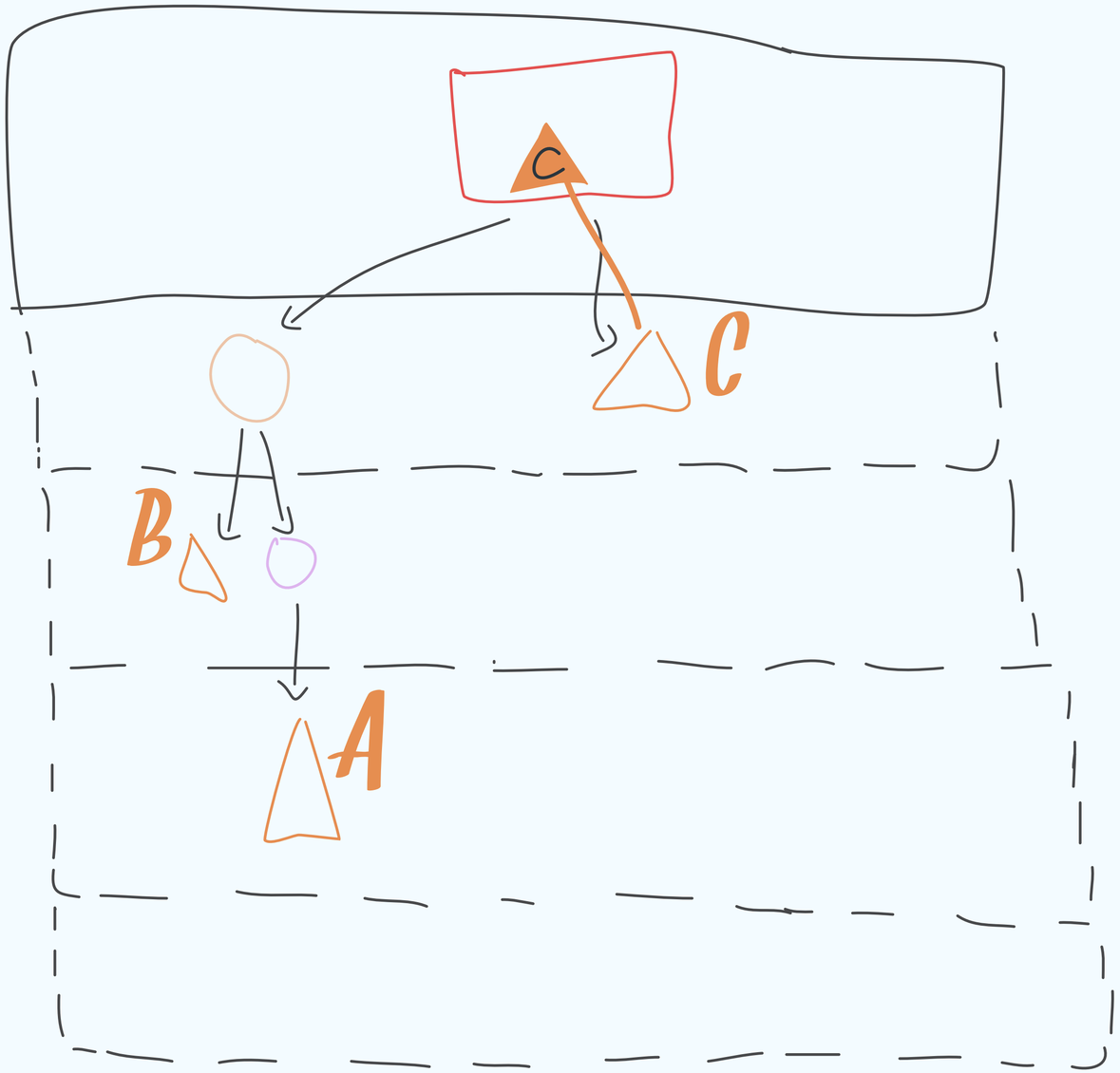
DOESN'T AFFECT NPM!

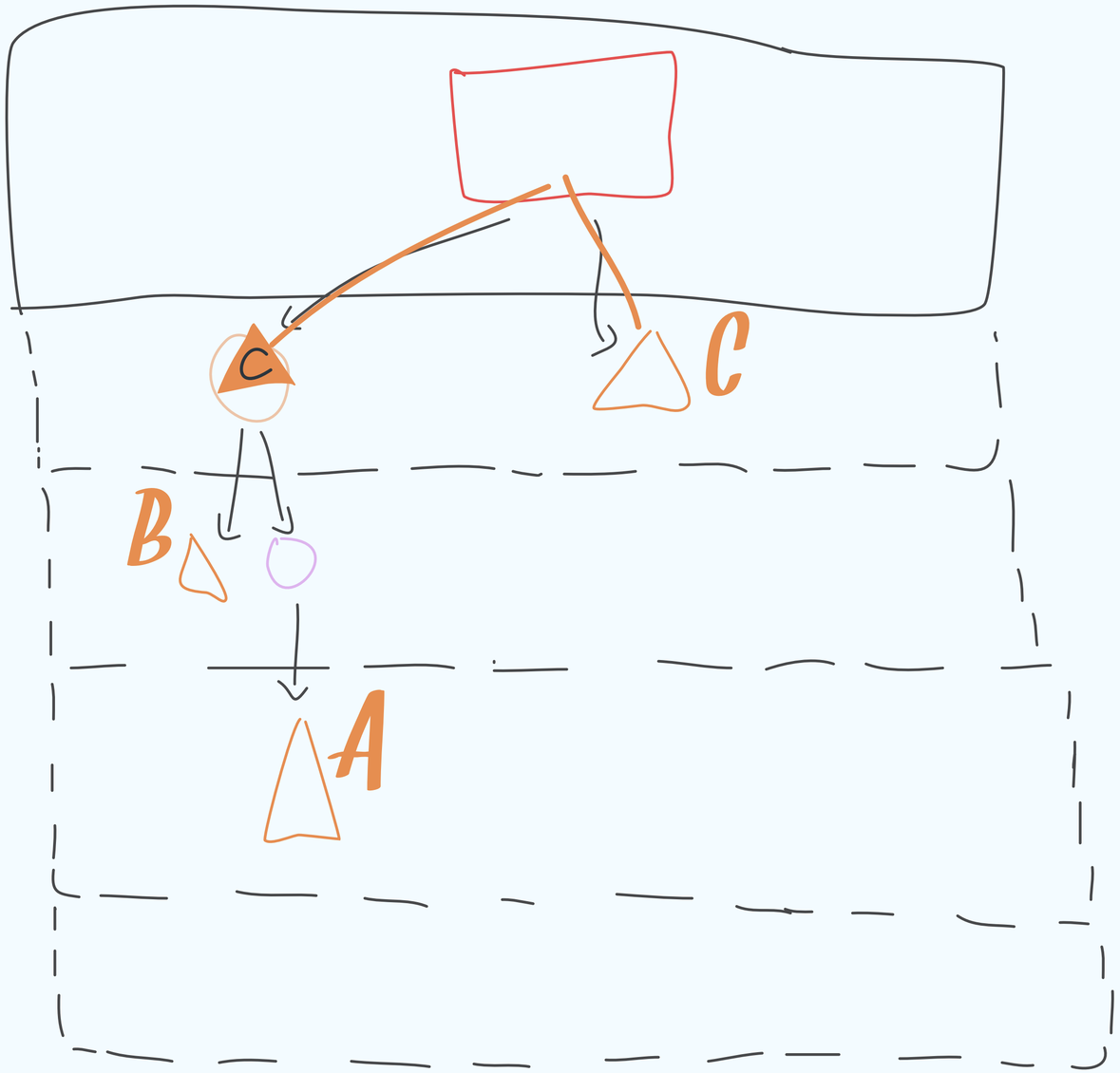


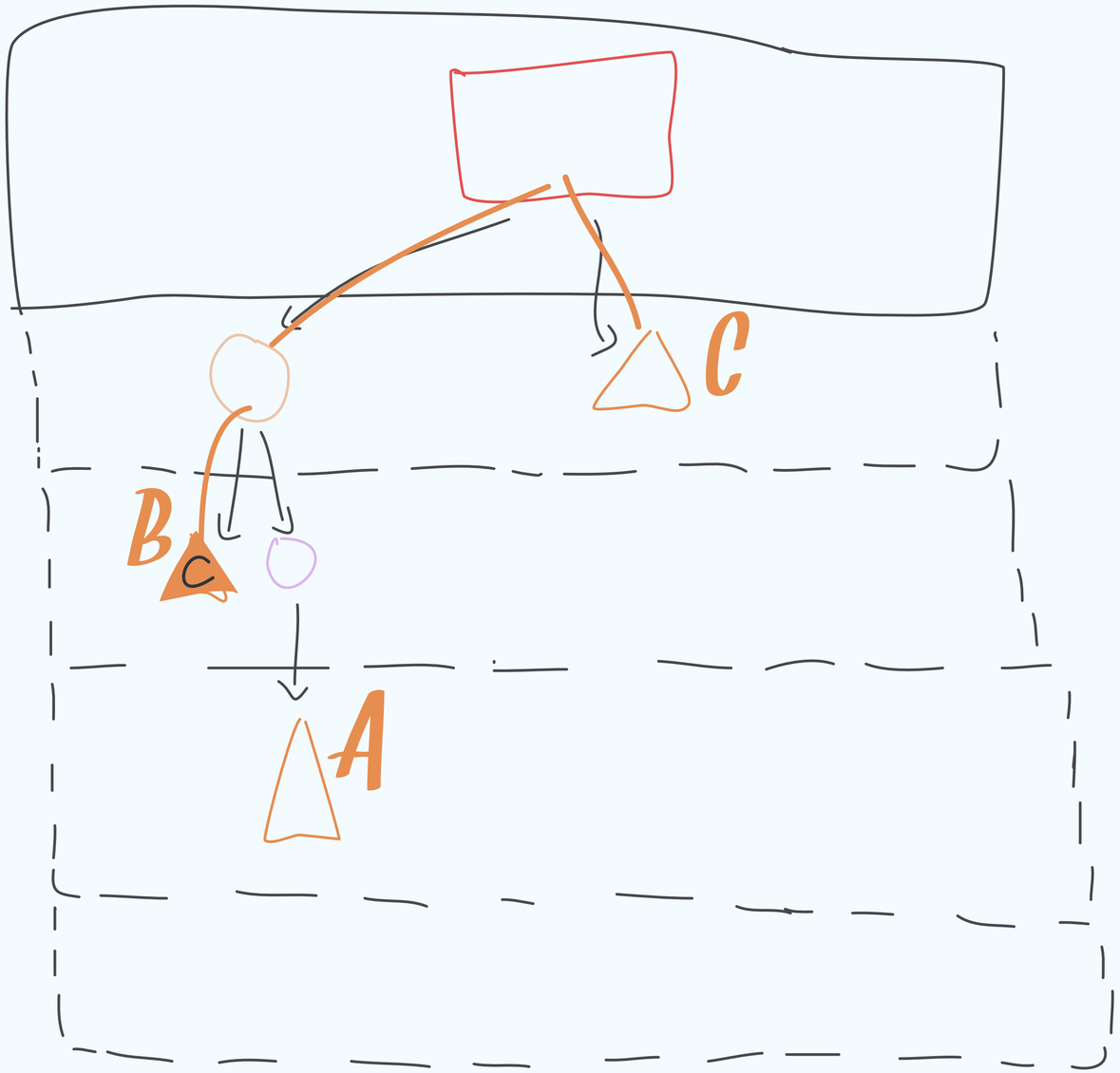

C

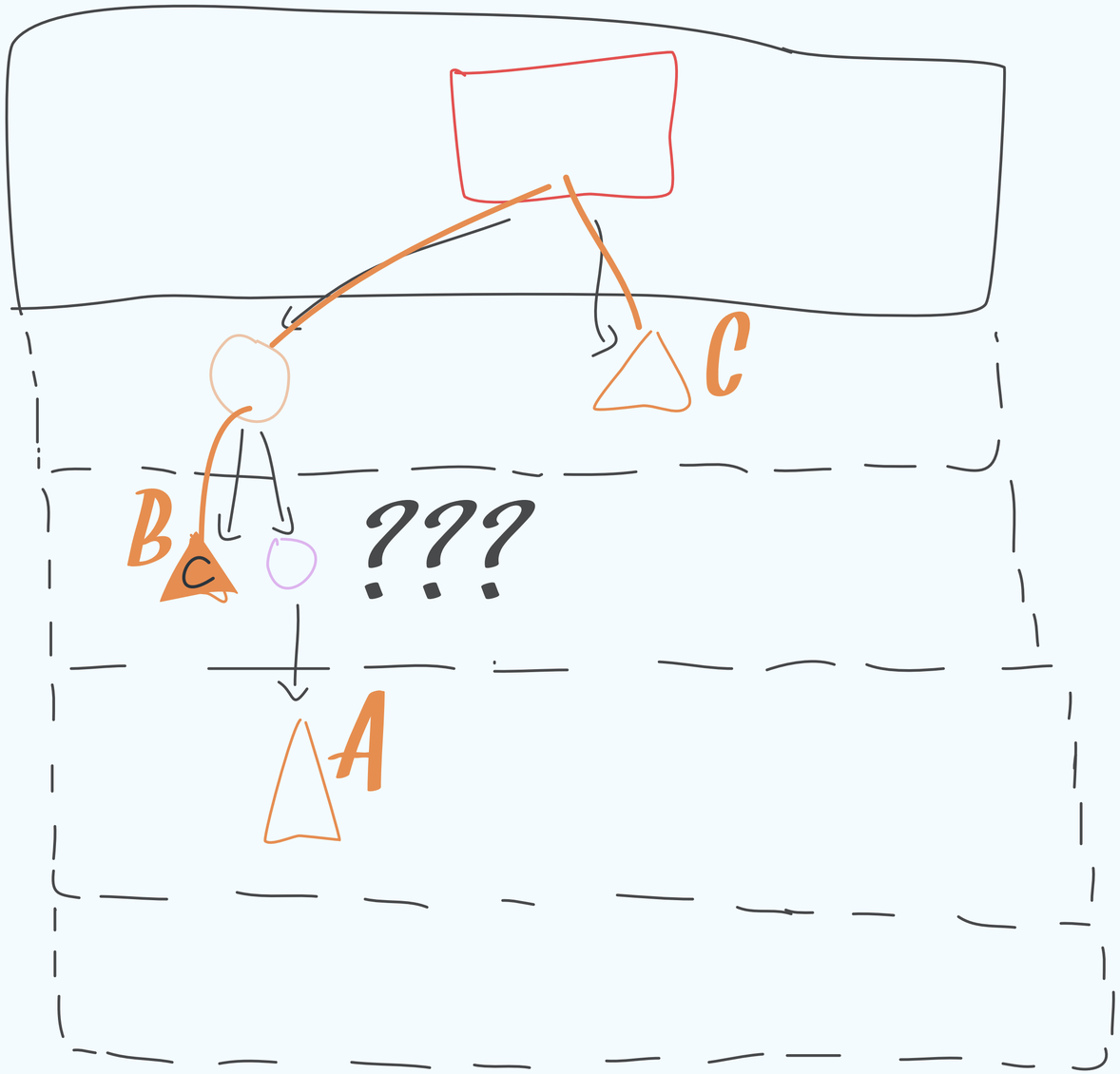

C
B

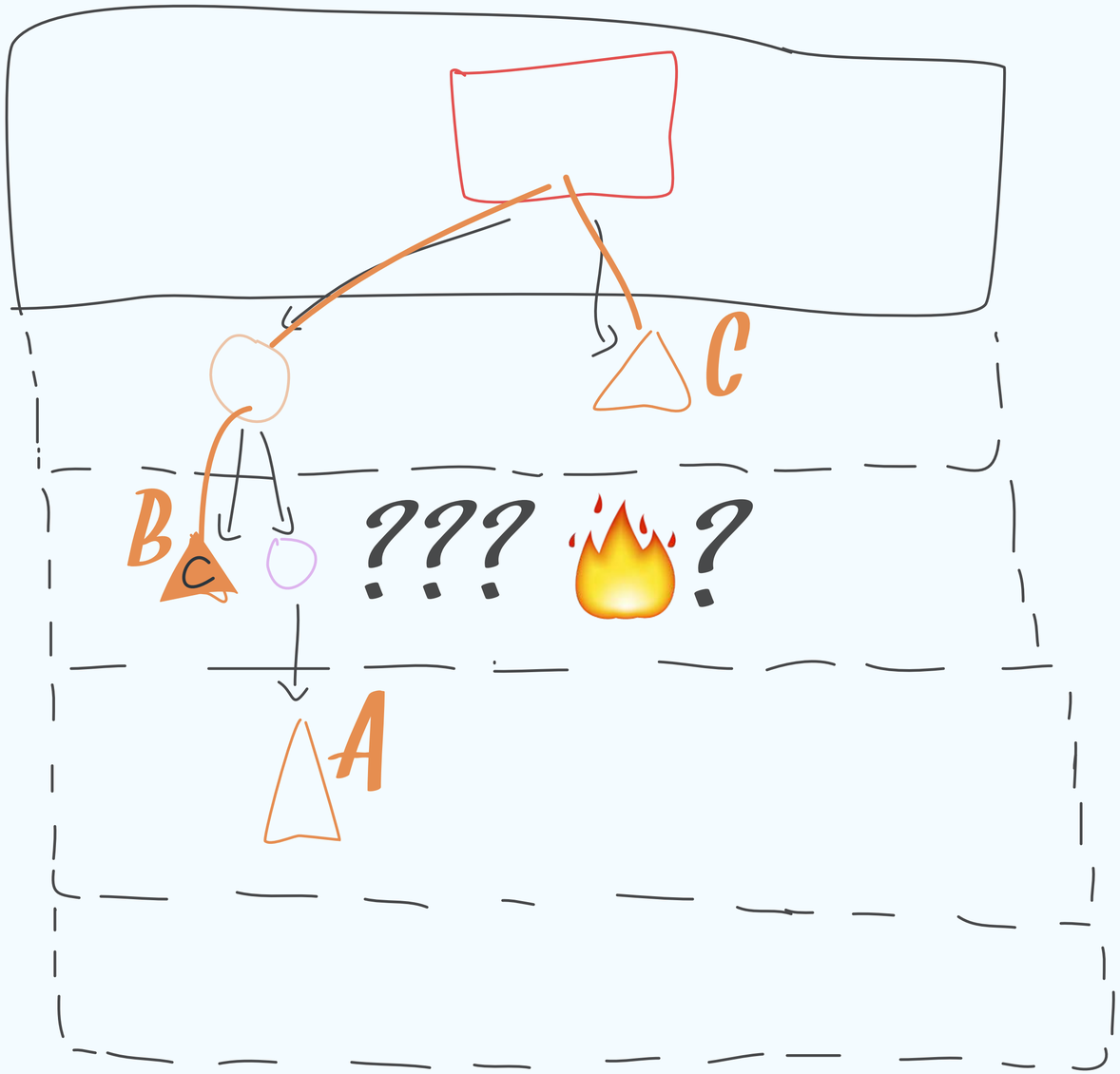

C
B
A

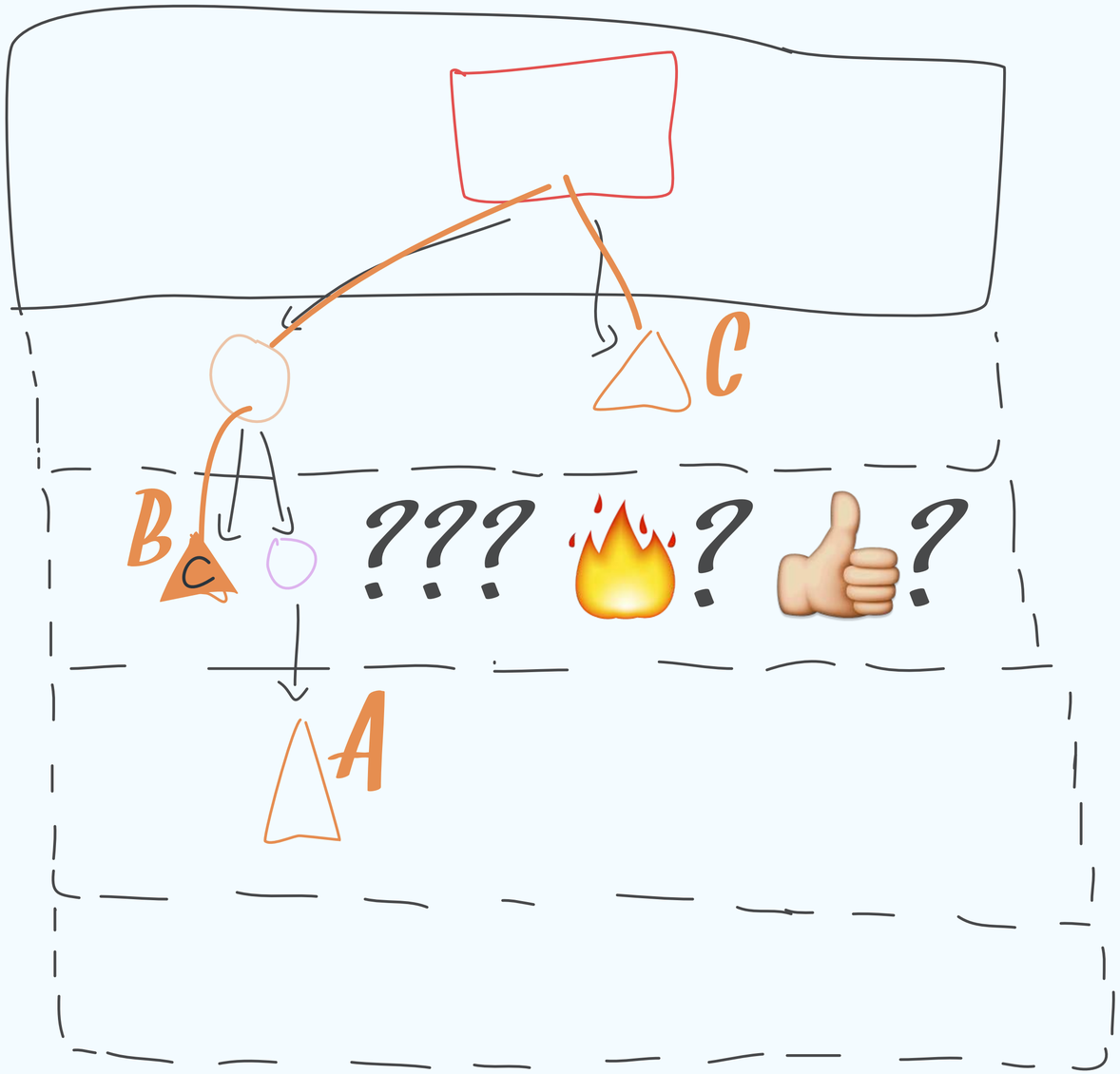

C
C
B
A

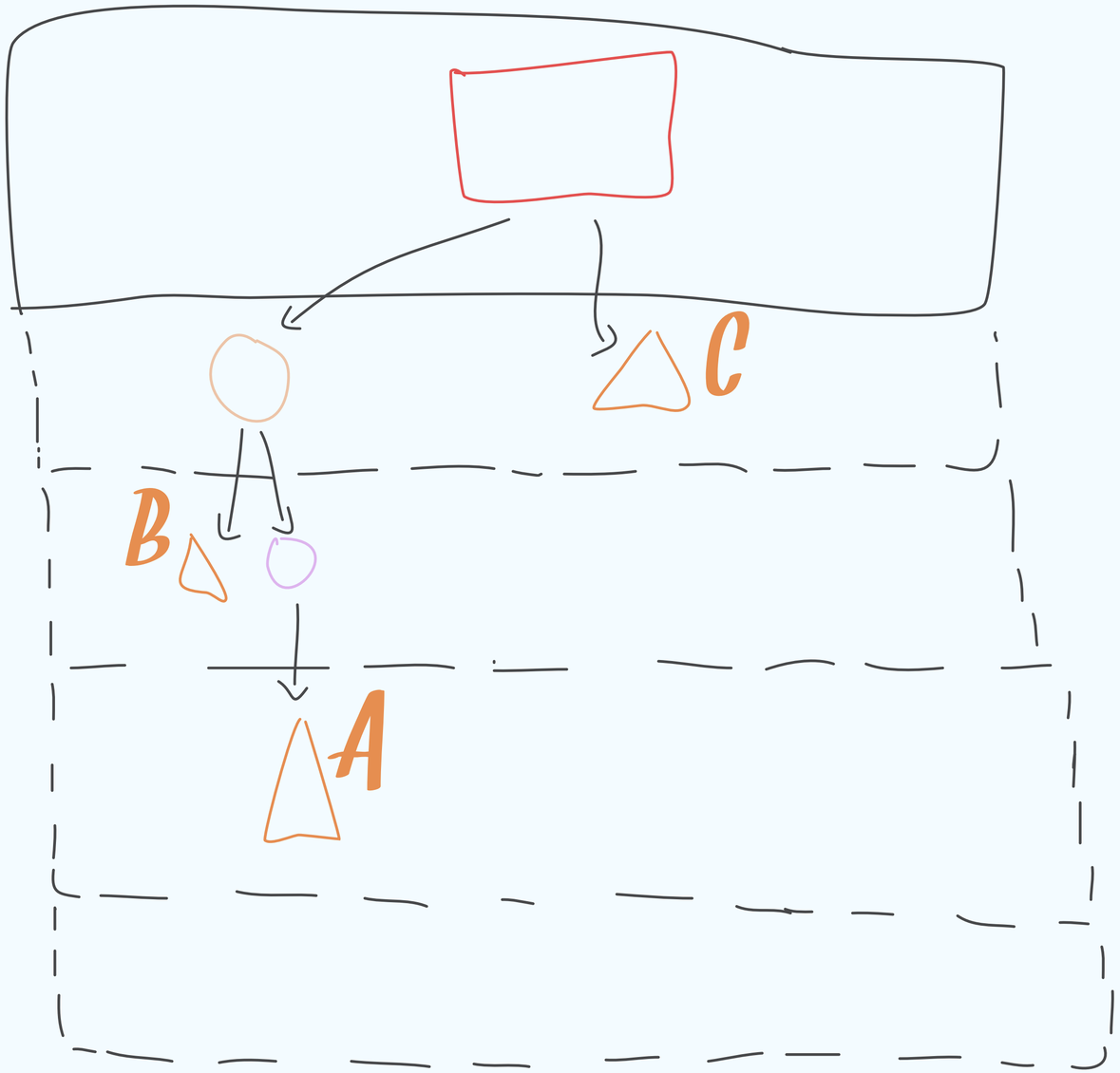

C
C
B
A

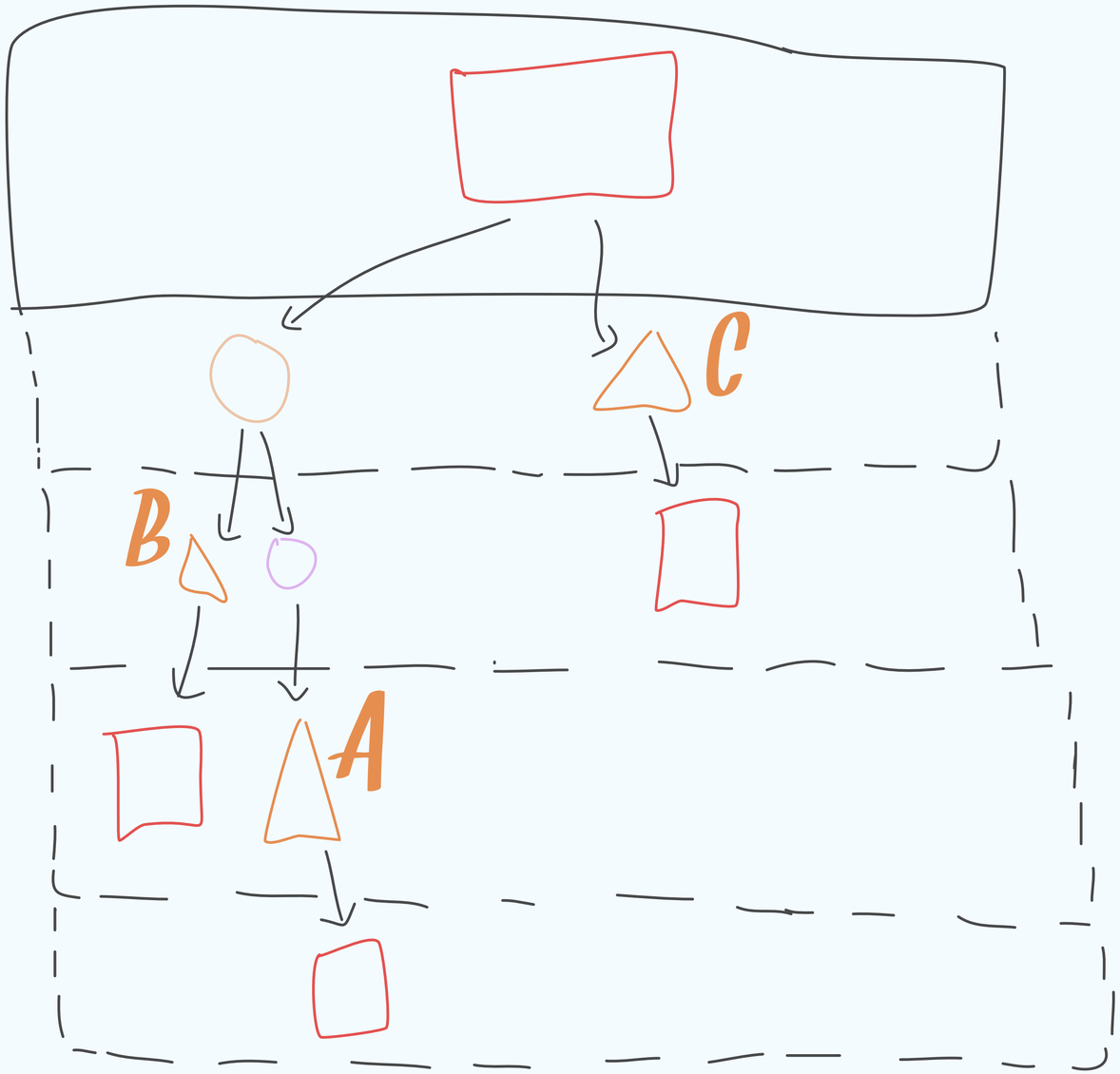

C
B
C
A

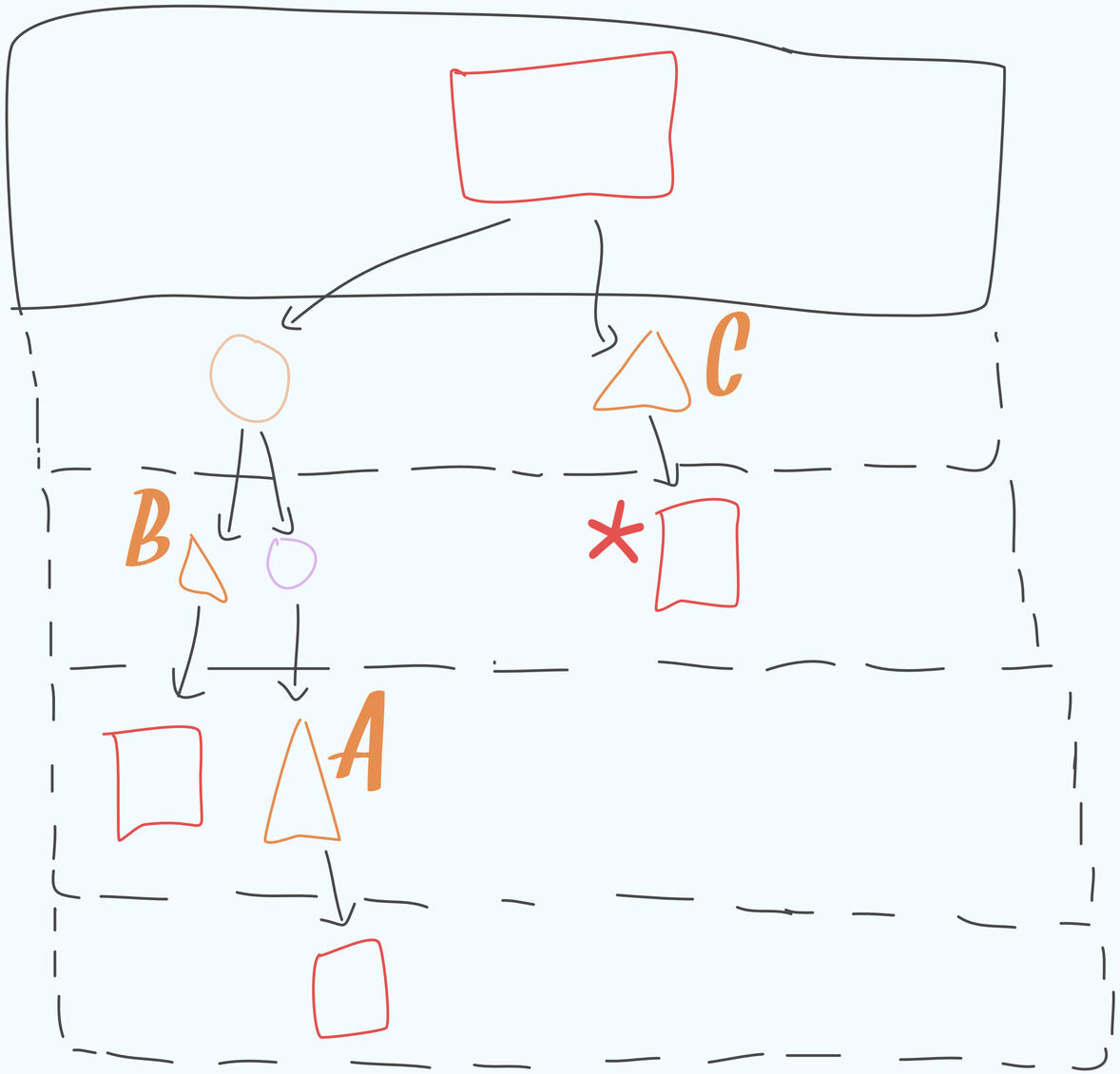

C
B
C
???
A

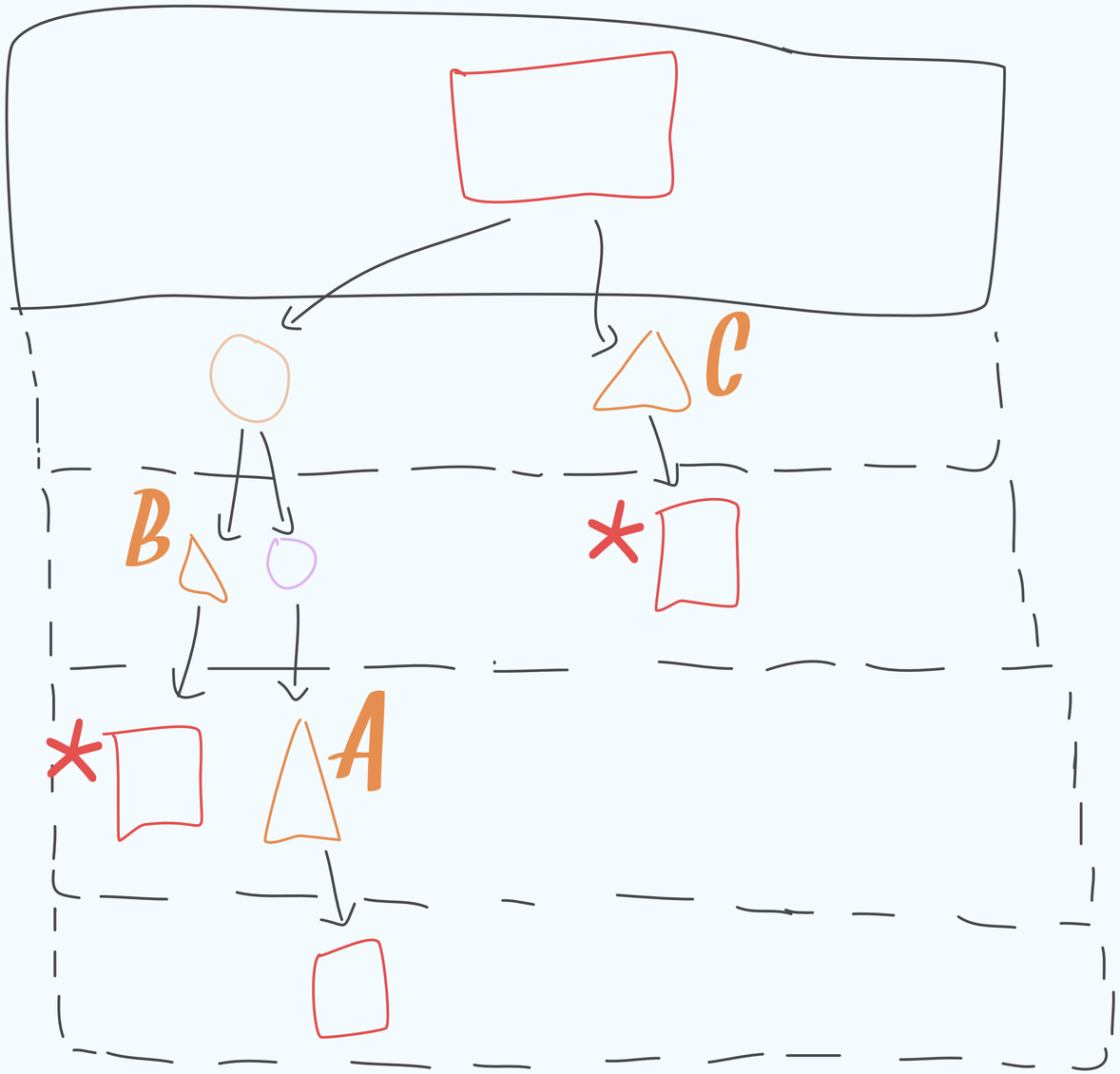

C
B
C
???
?
A

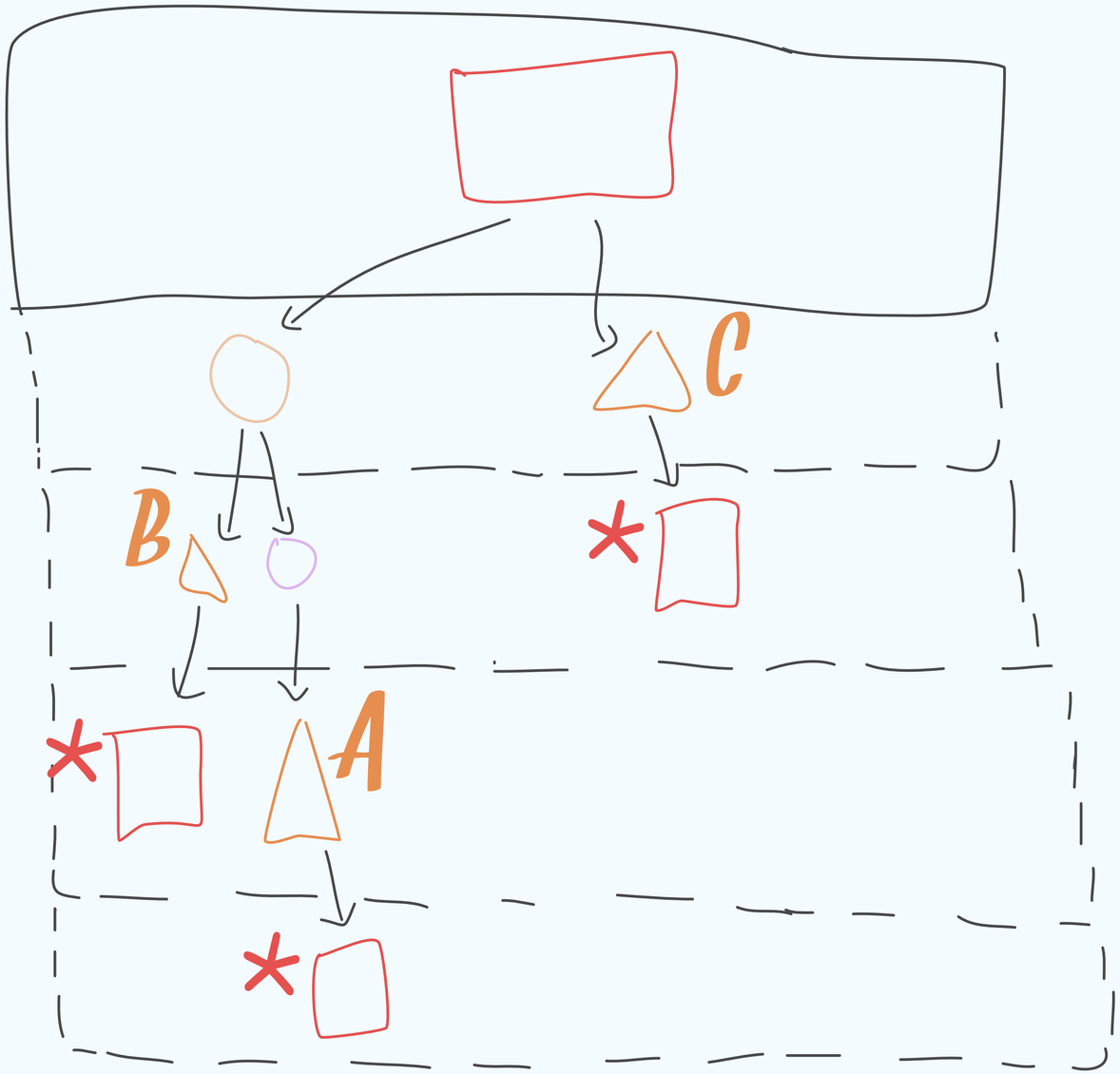

C
B
C
???
?
?
A


C
B
A

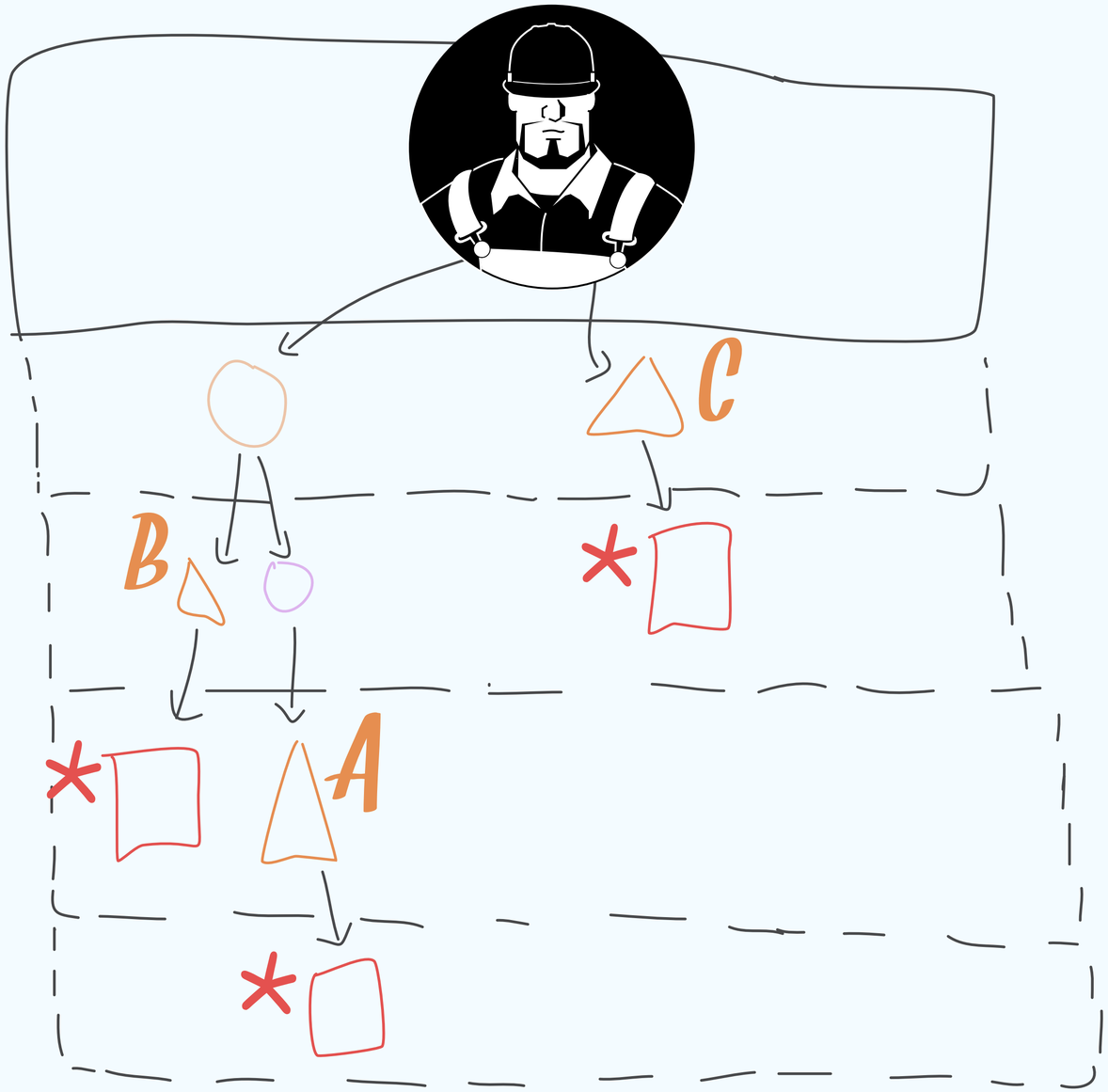

C
B
A

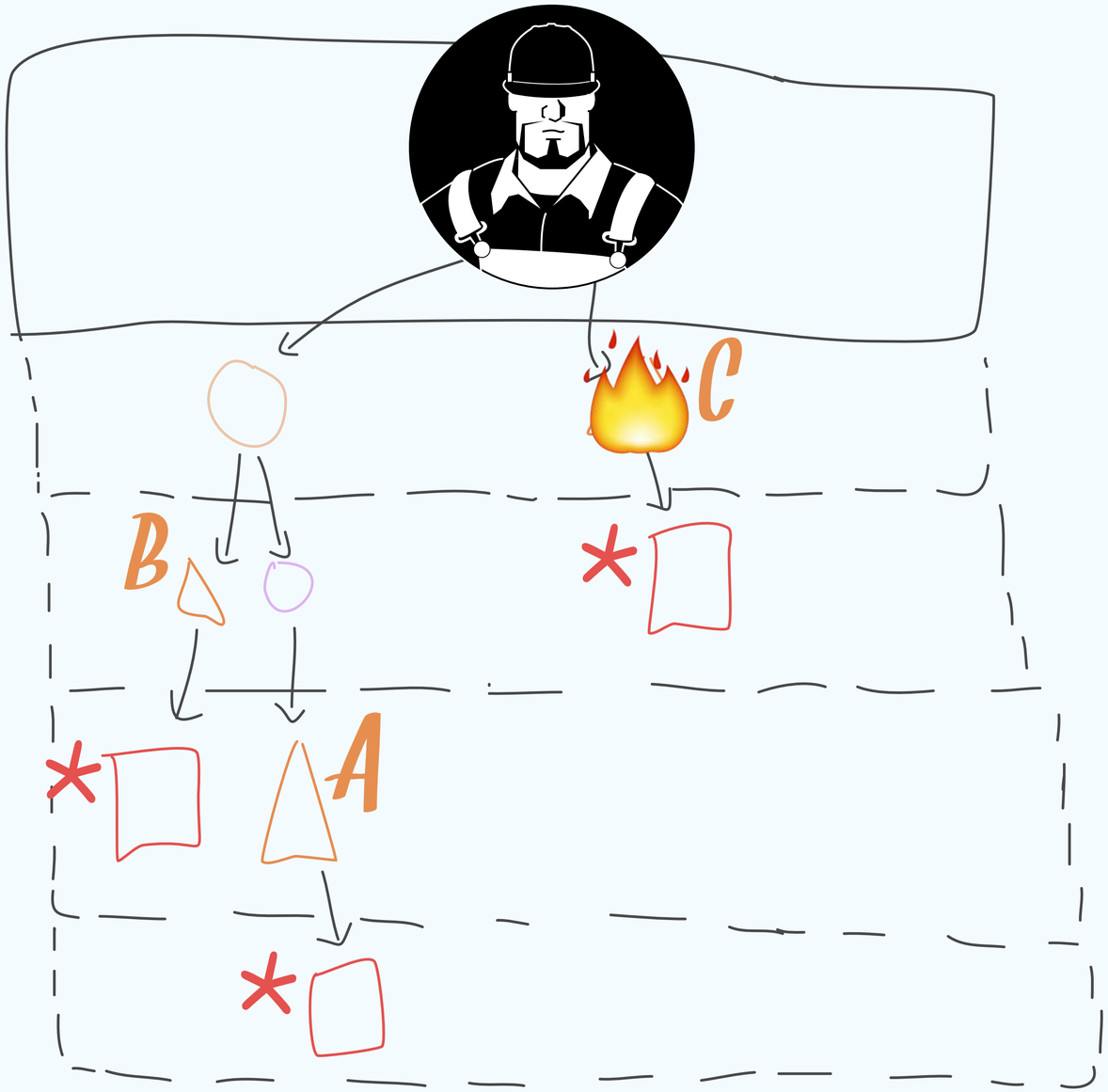

C
B
*
A

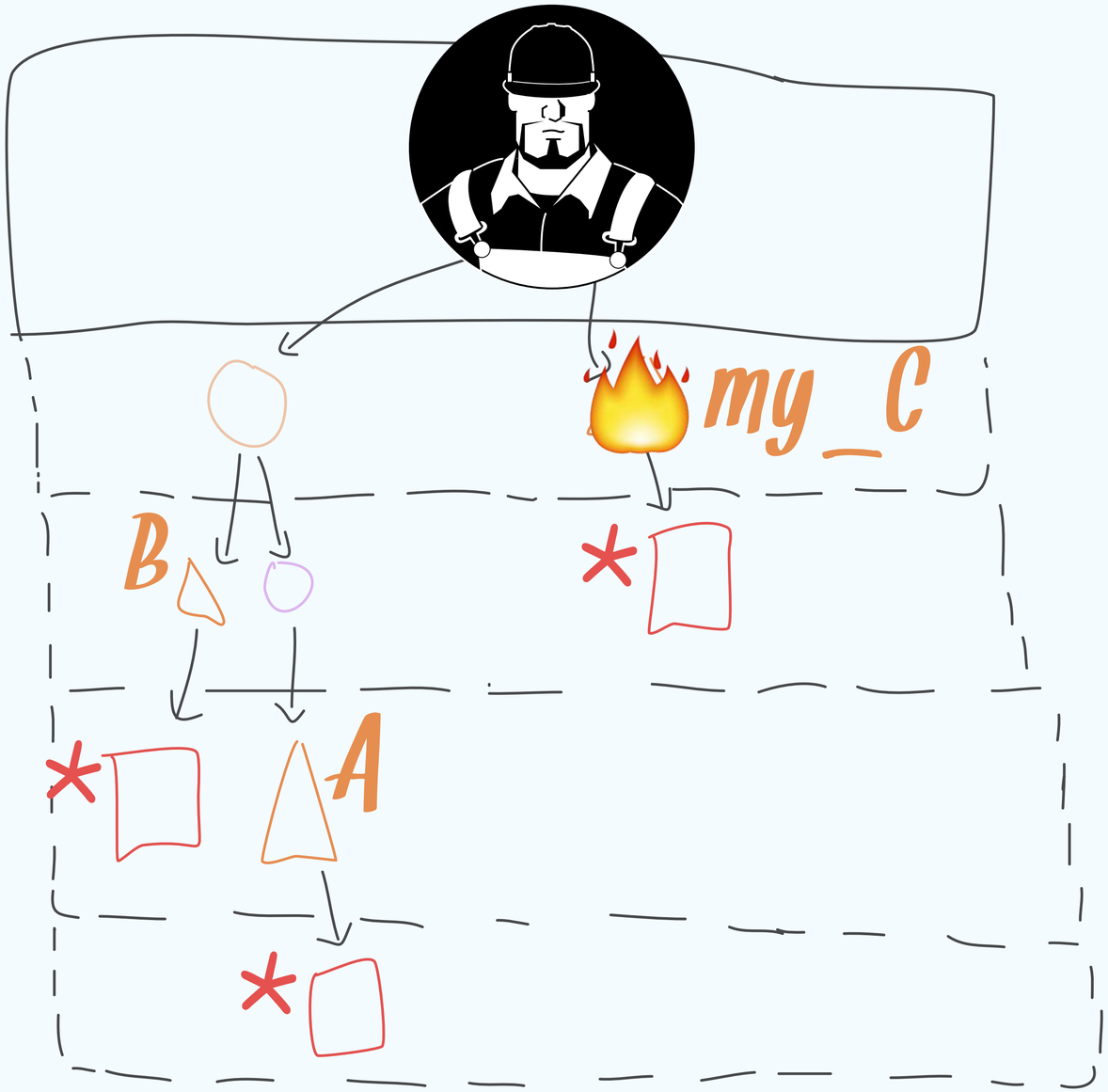

C
B
A

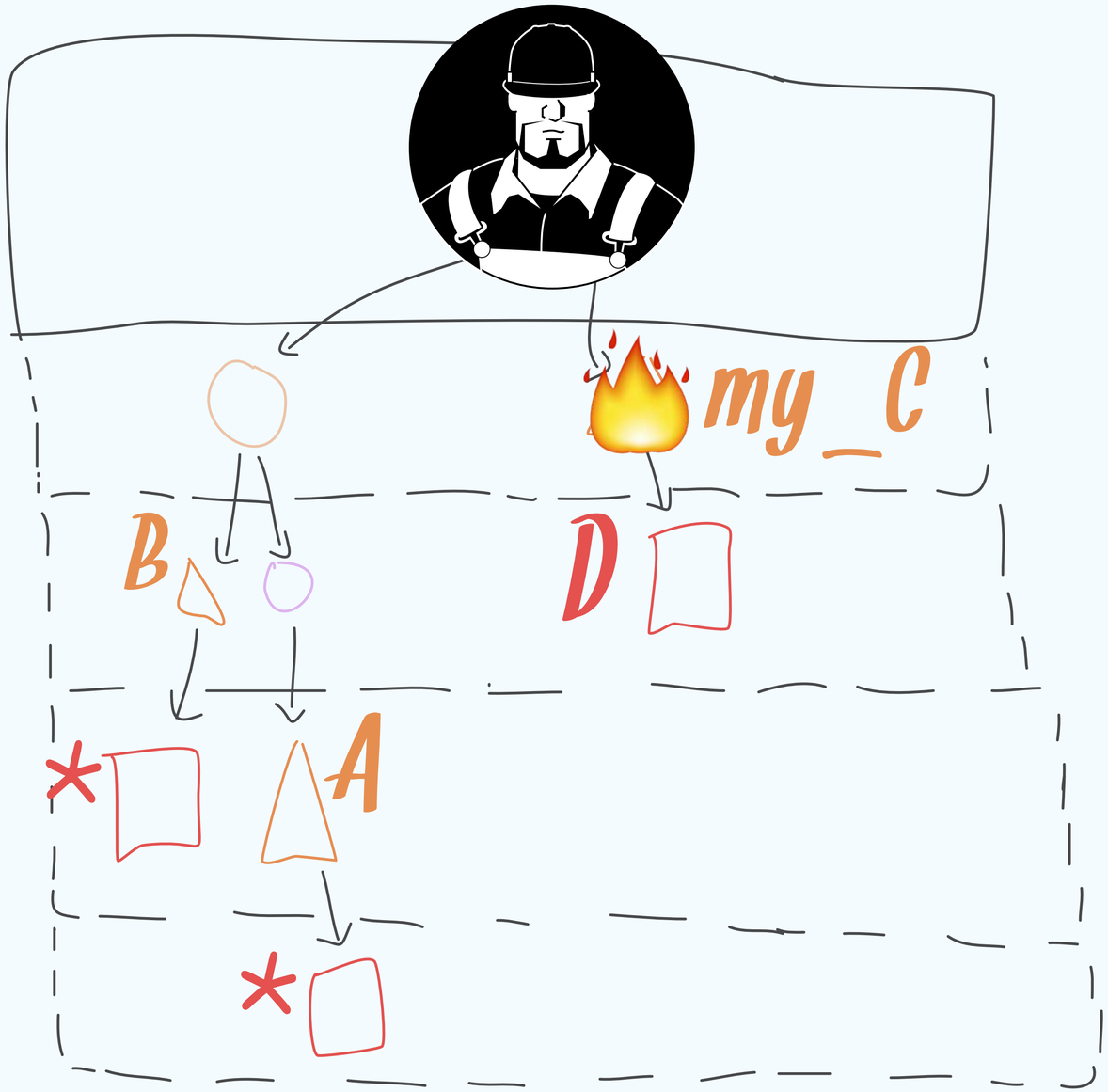

C
B
A

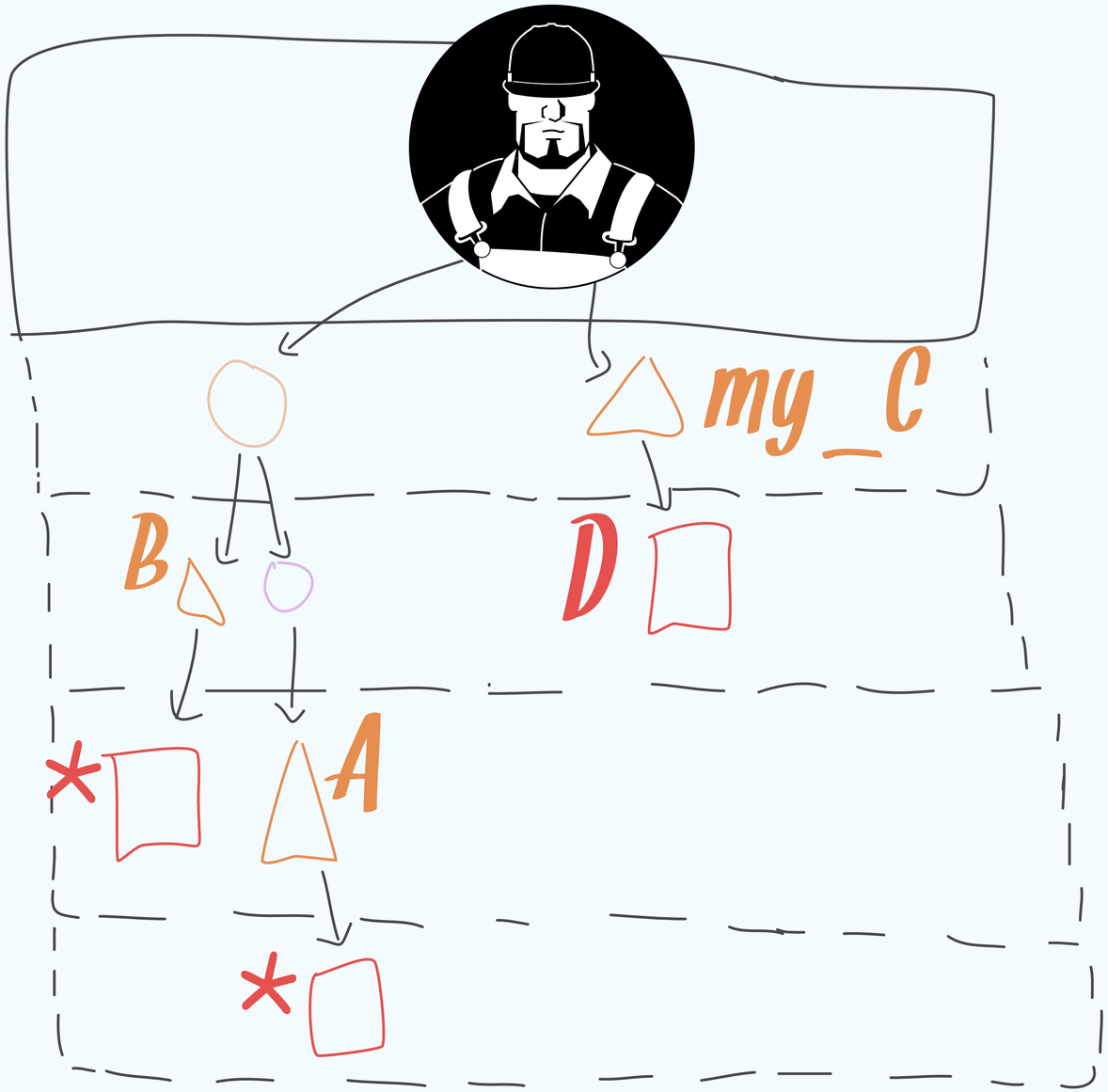
One day, every new install started failing


C
B
A

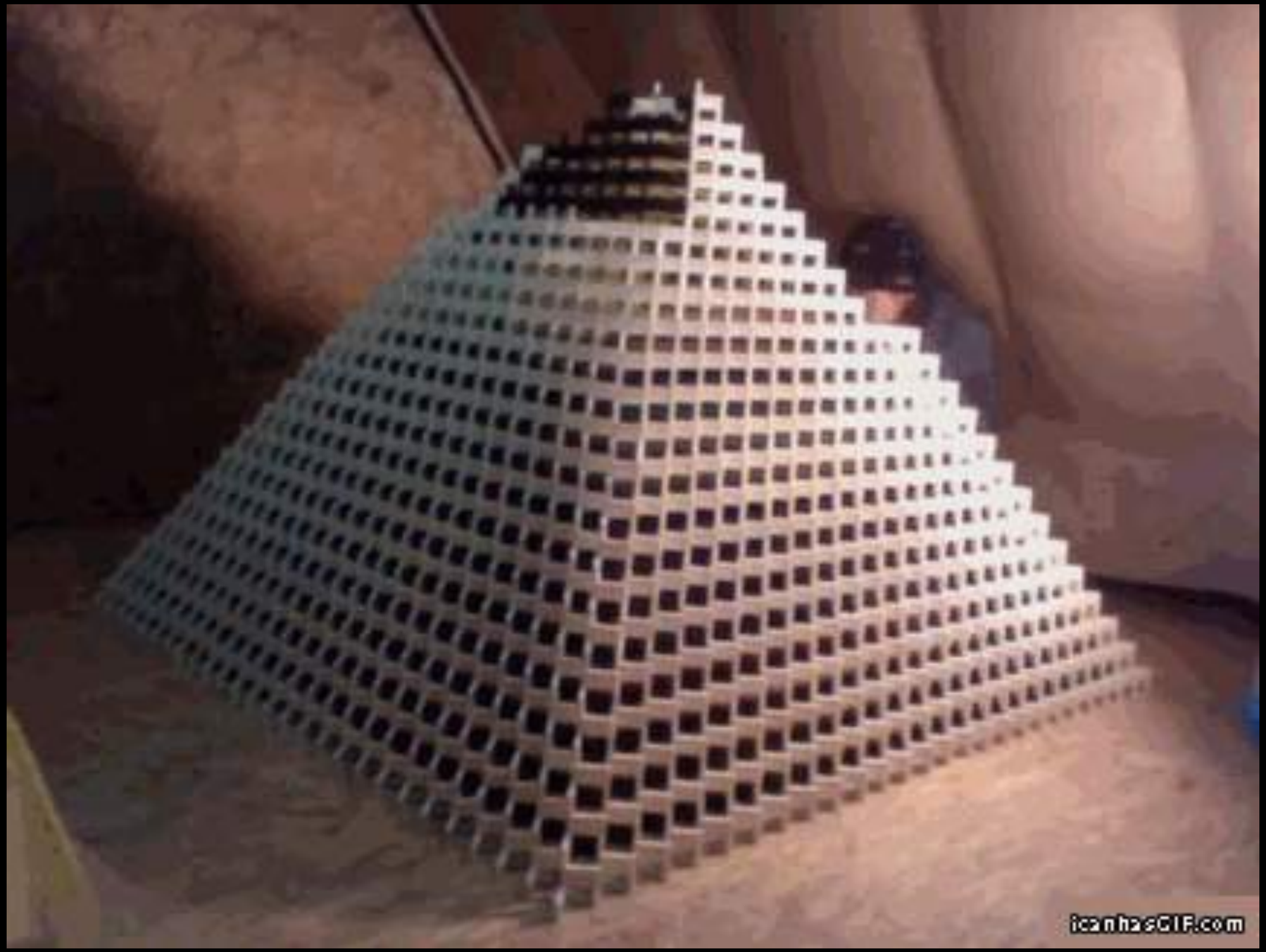

C
B
A

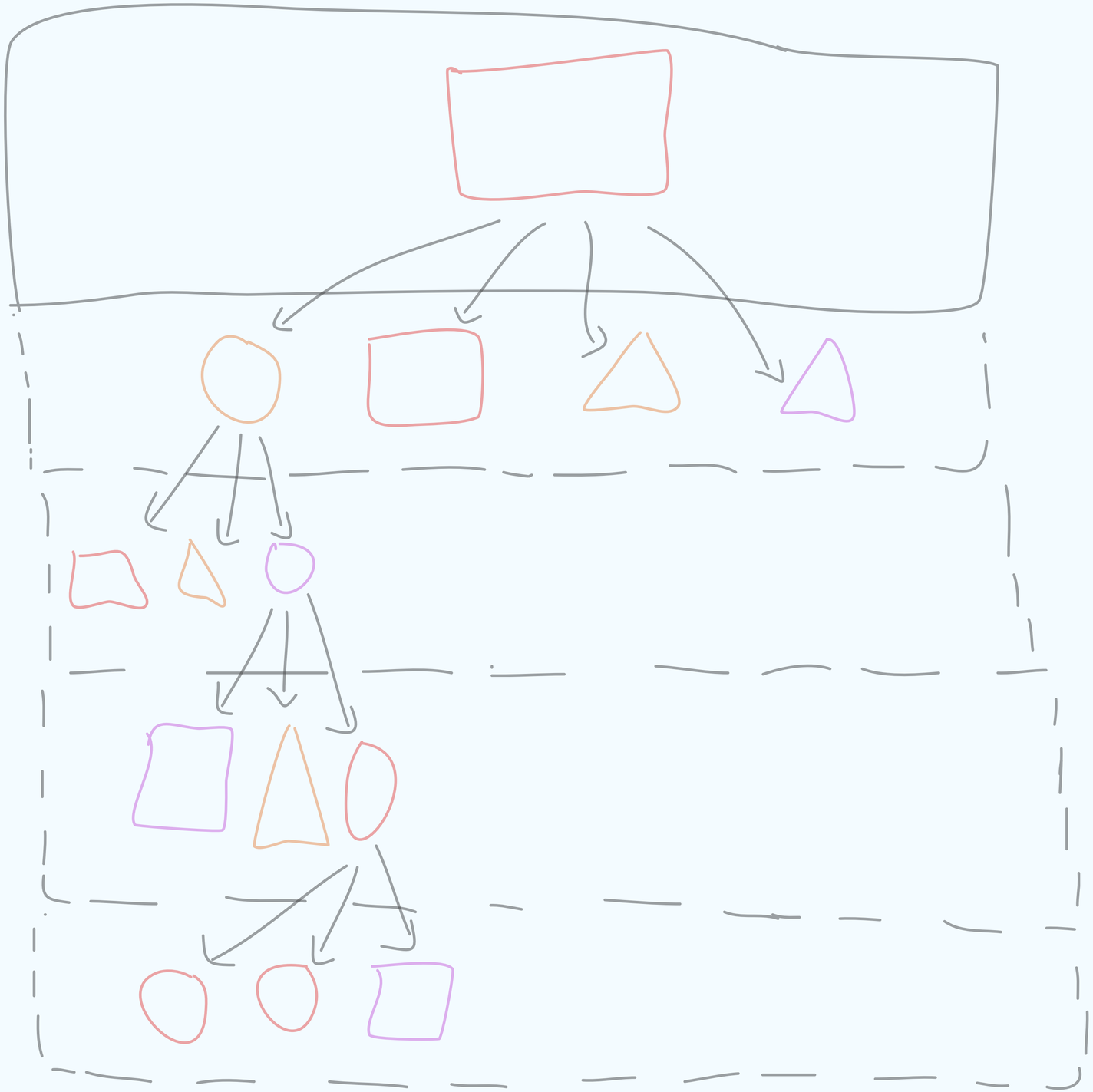

my_C
B
A

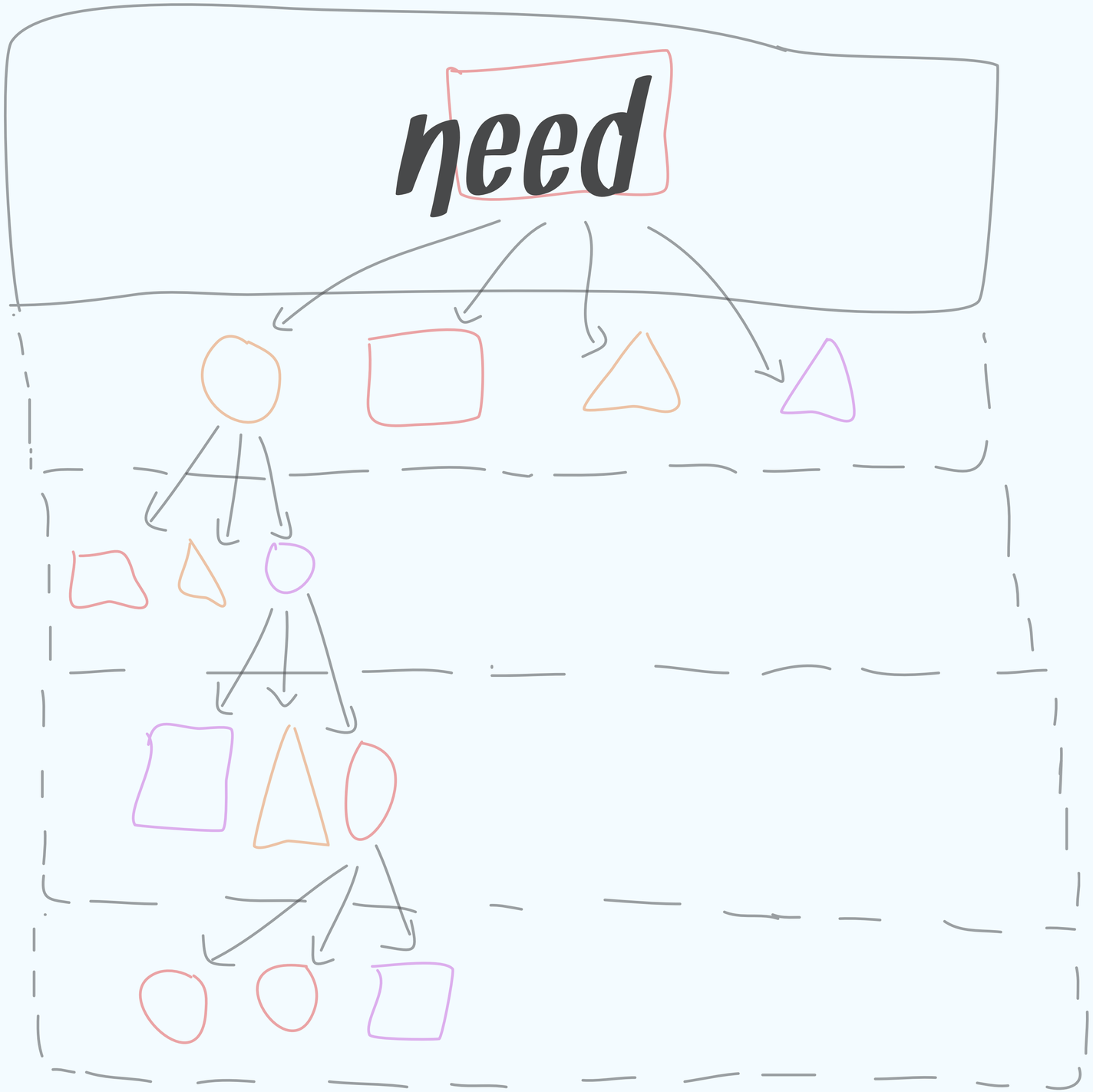

my_C
B
D
A

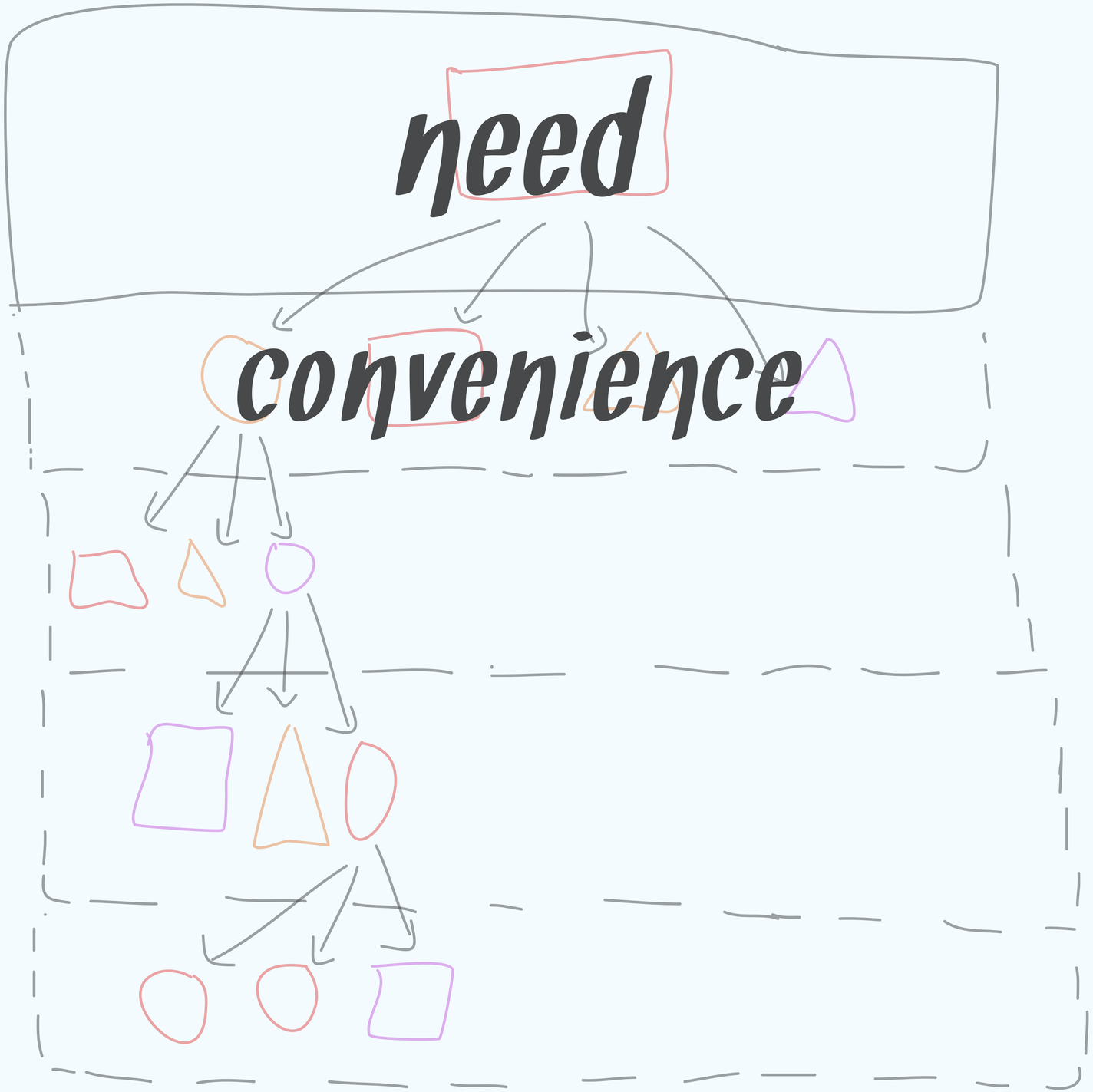

my_C
B
D
A

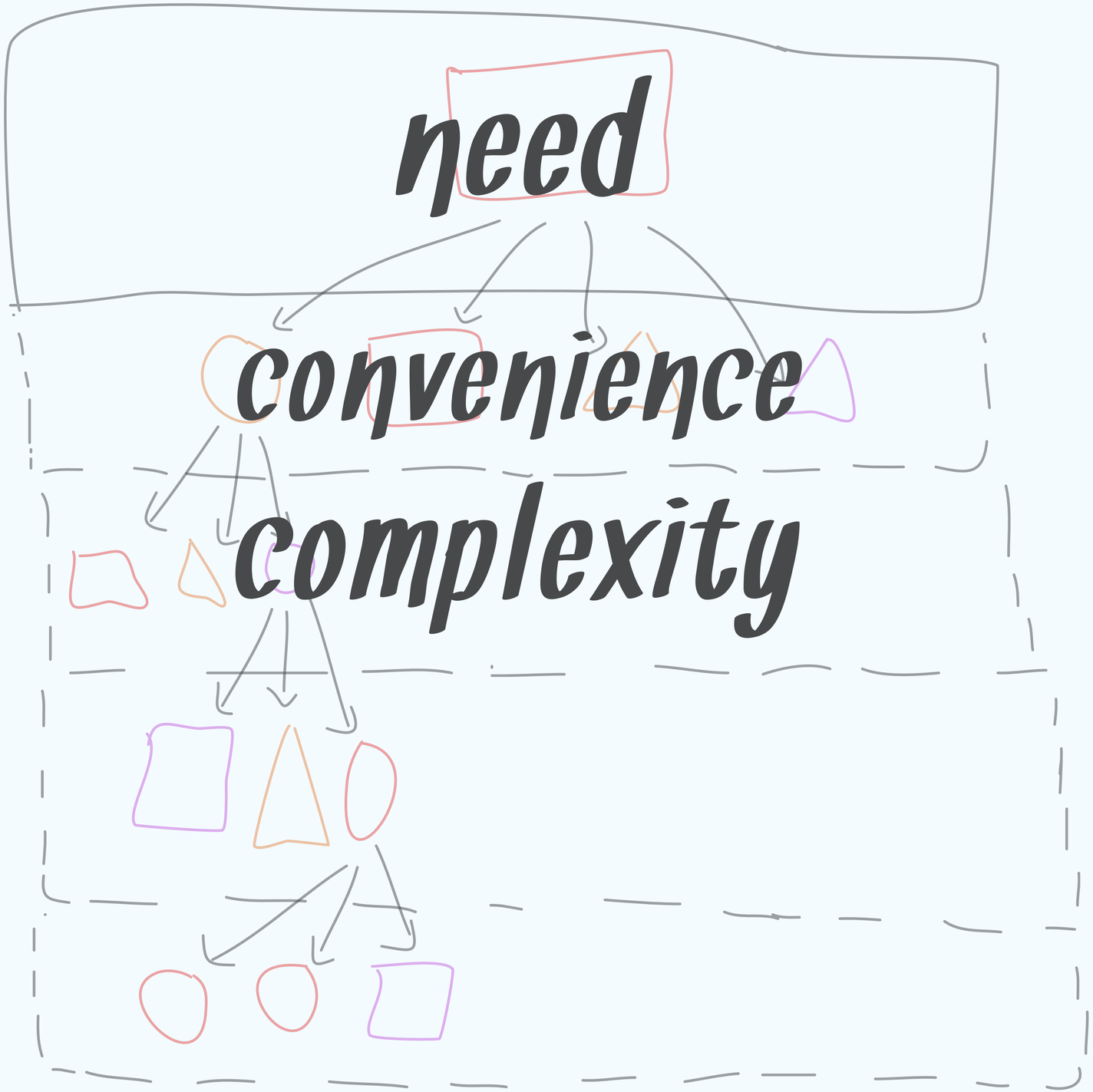
Video of me that weekend


icanhasGIF.com

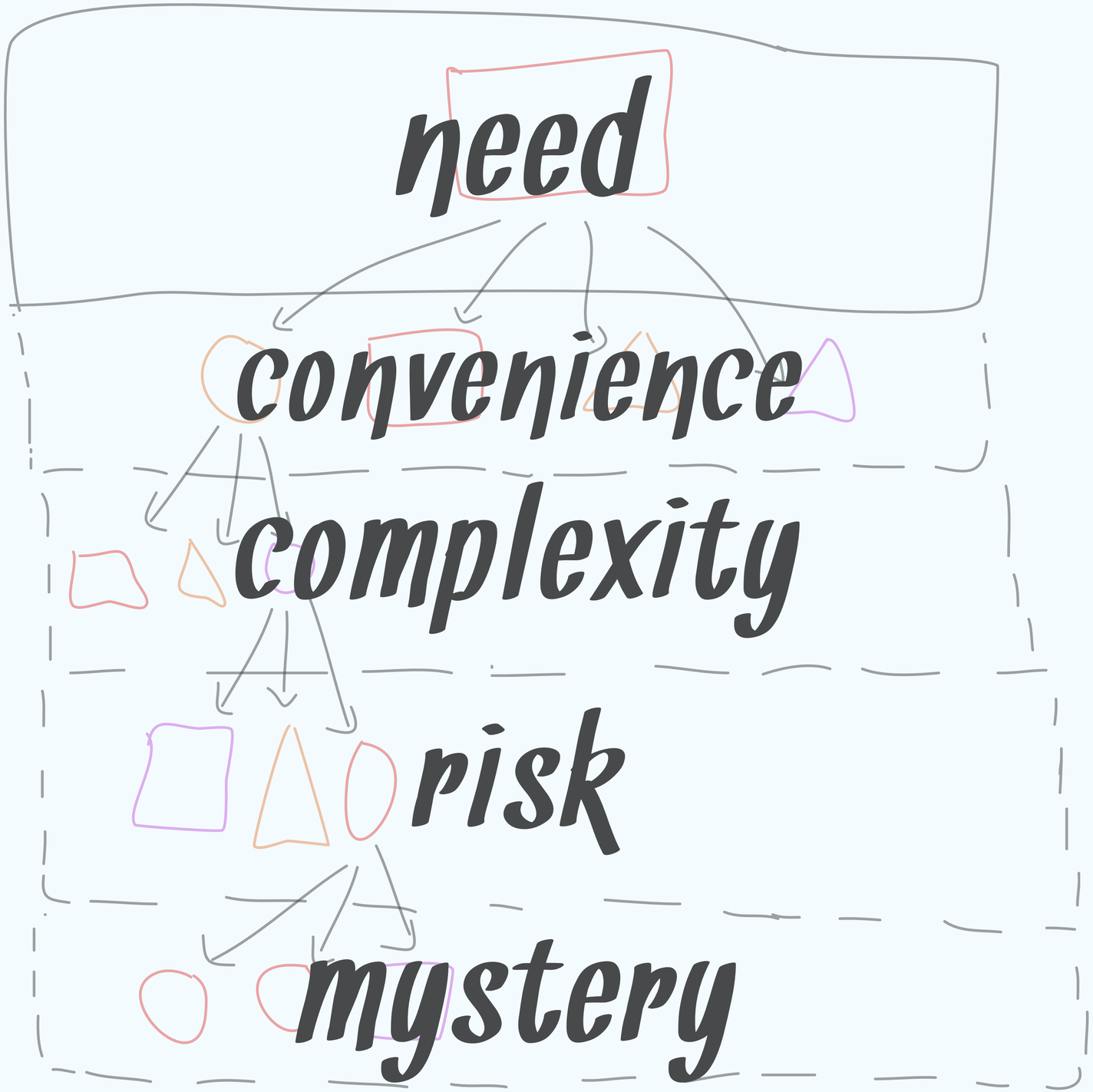


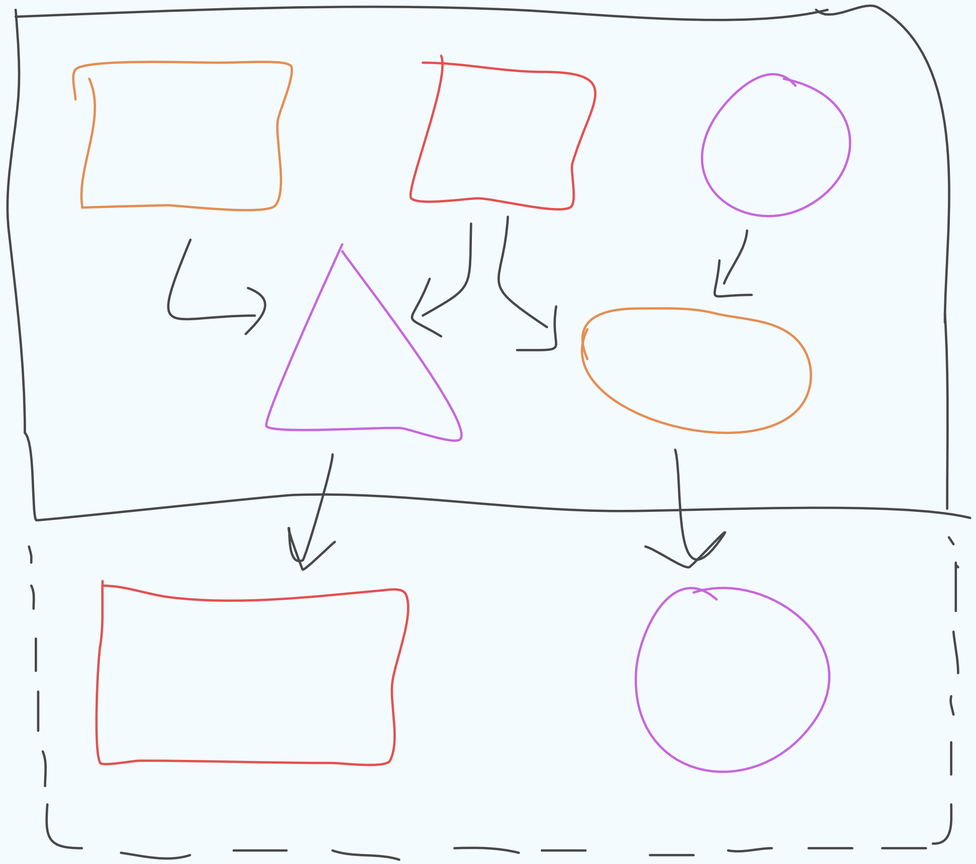

need


need
convenience

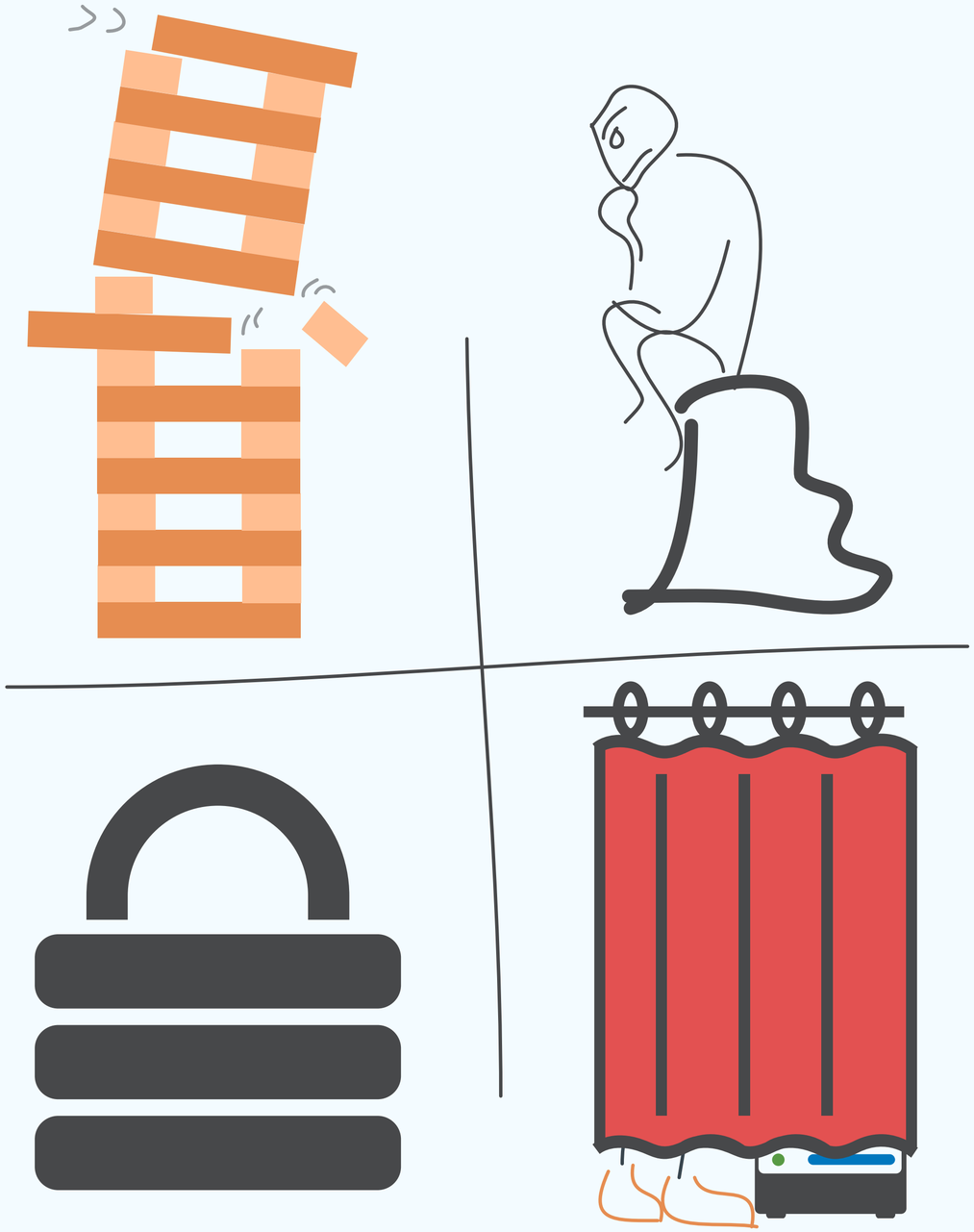

need
convenience
complexity

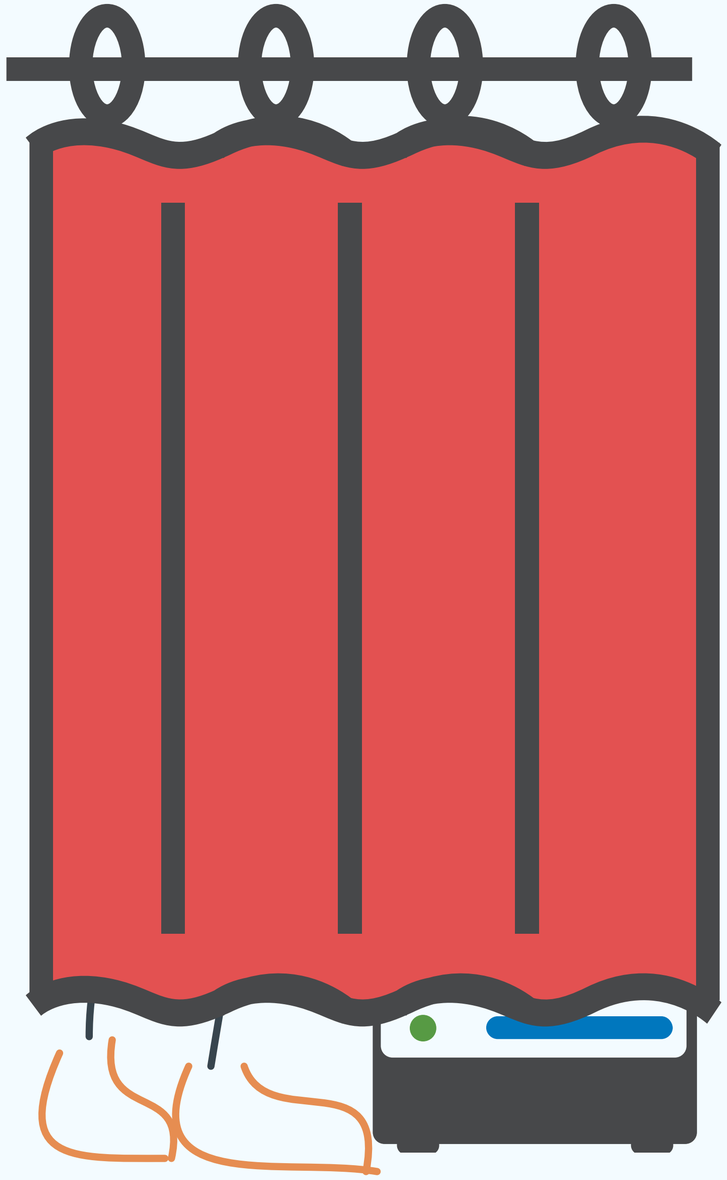
need
convenience
complexity
risk


need
convenience
complexity
risk
mystery

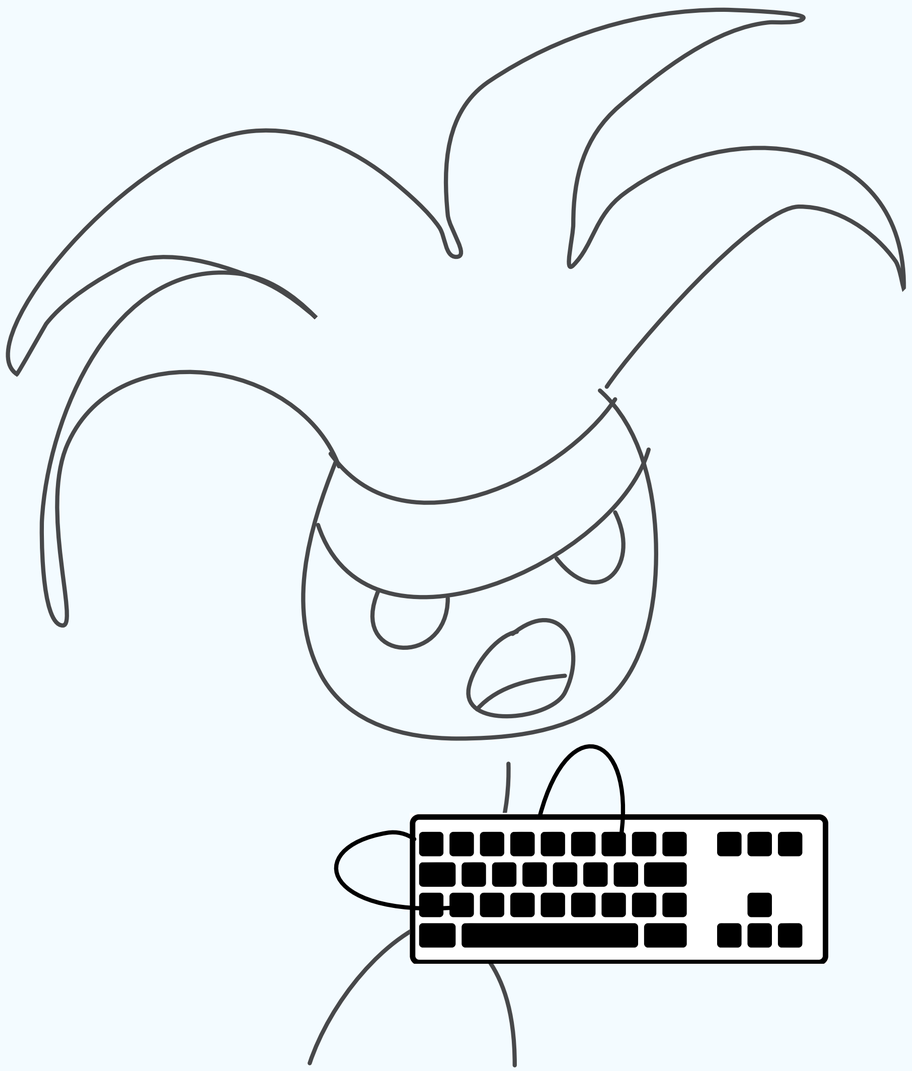


As painful as Makefiles are, they still work 30 years later





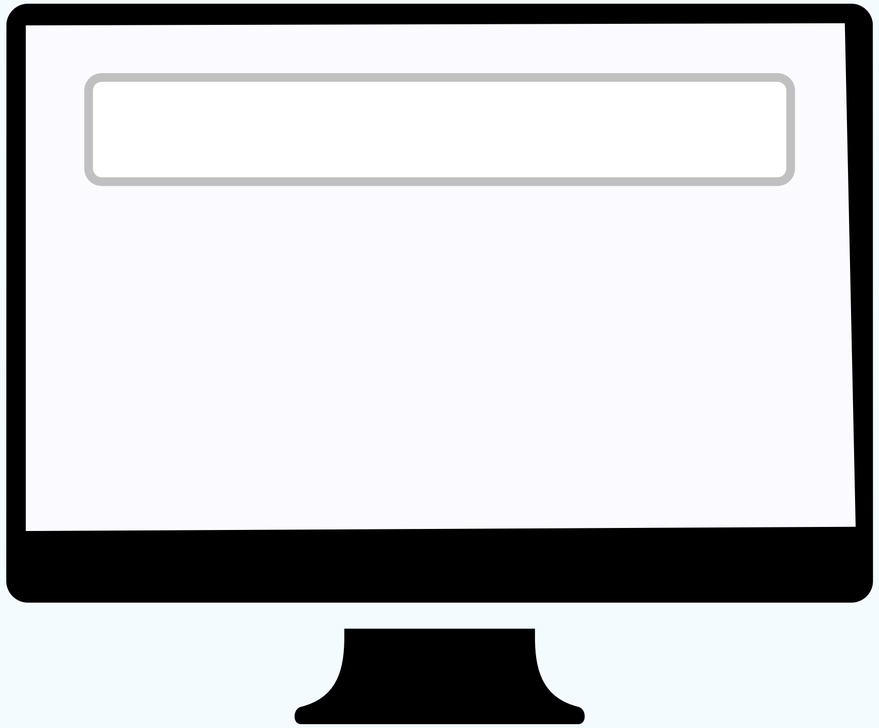
Open Source Maintainers are not Rockstars



Maintainers are just extra-early adopters

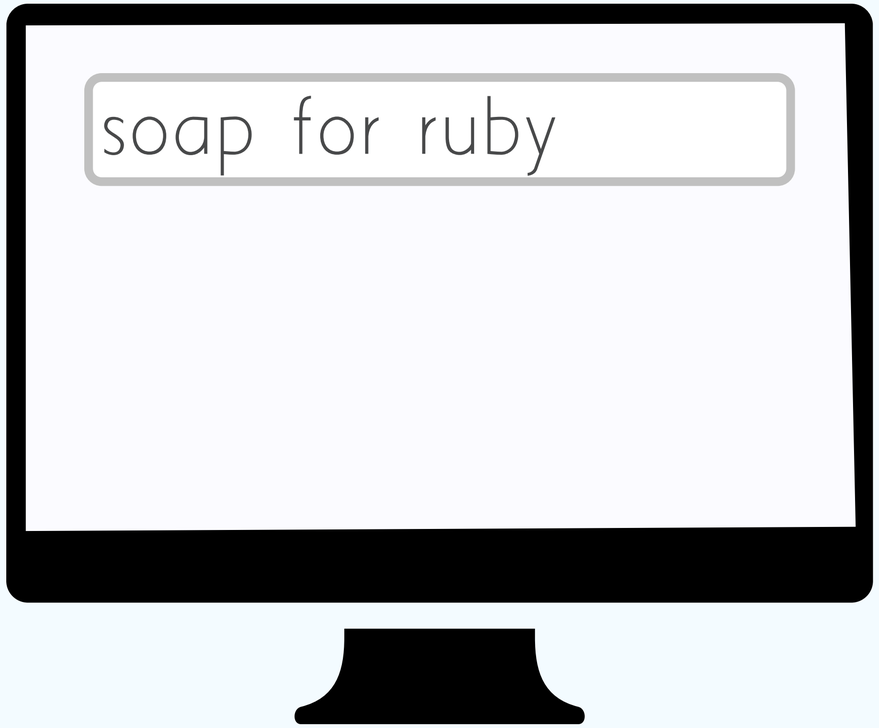
Maintainer

Early Adopter



Maintainer

Early Adopter



Maintainer

Early Adopter

Maintainer

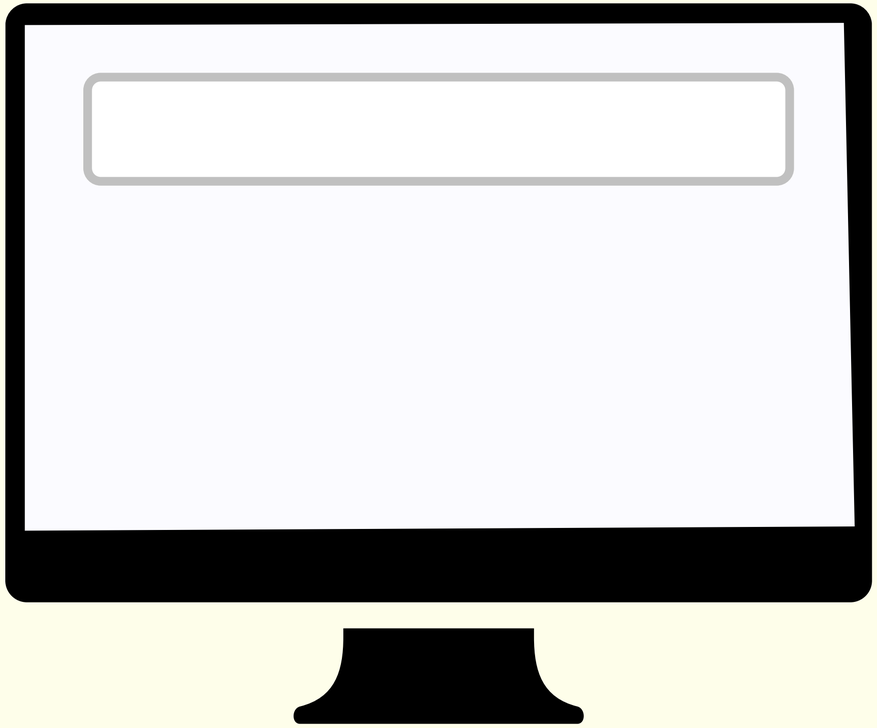
Early Adopter

Maintainer

Early Adopter

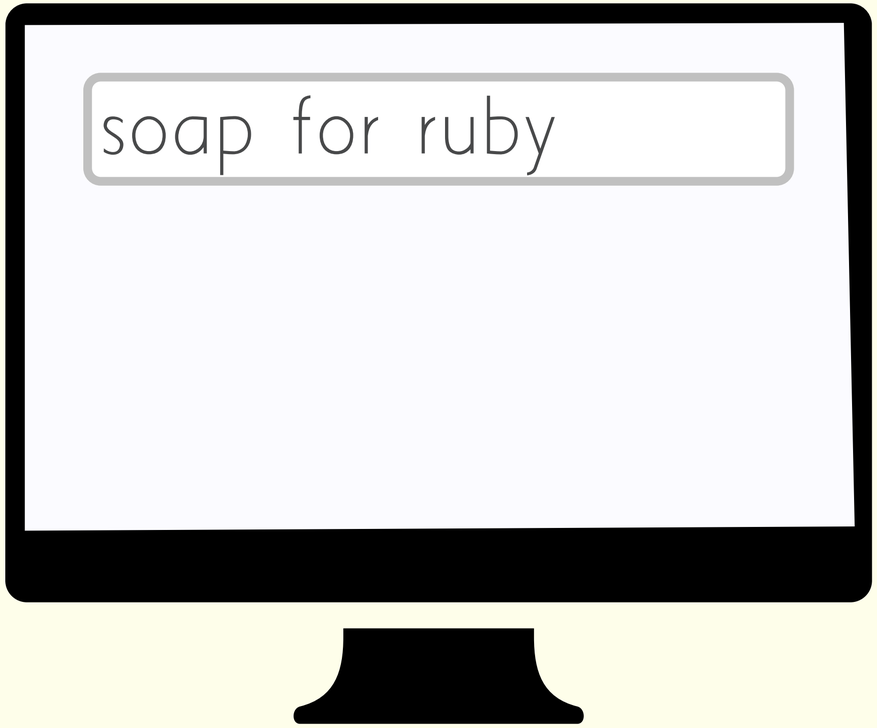
Maintainer

Early Adopter



Maintainer

Early Adopter



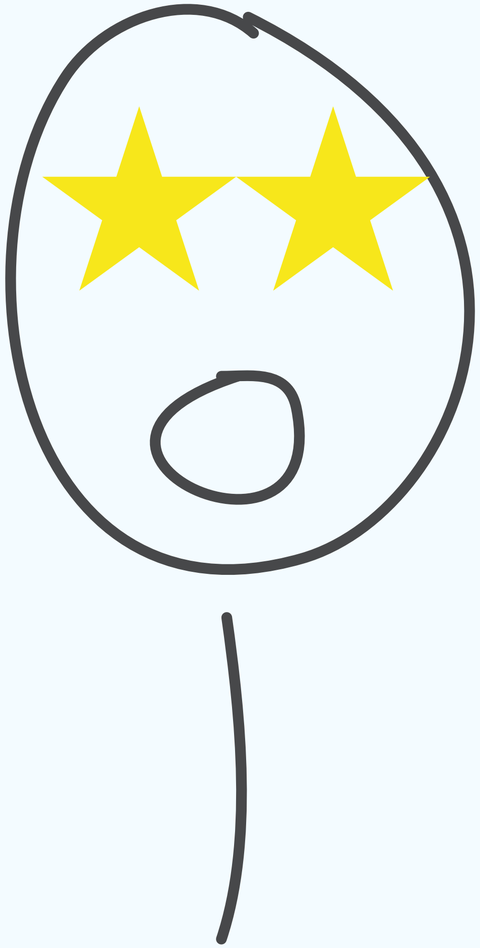
Maintainer

Early Adopter

Maintainer

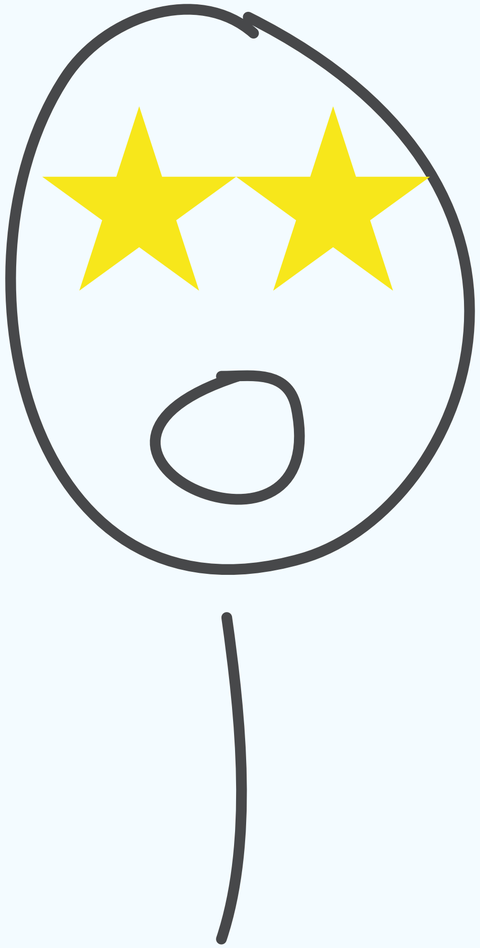
Early Adopter

Maintainer



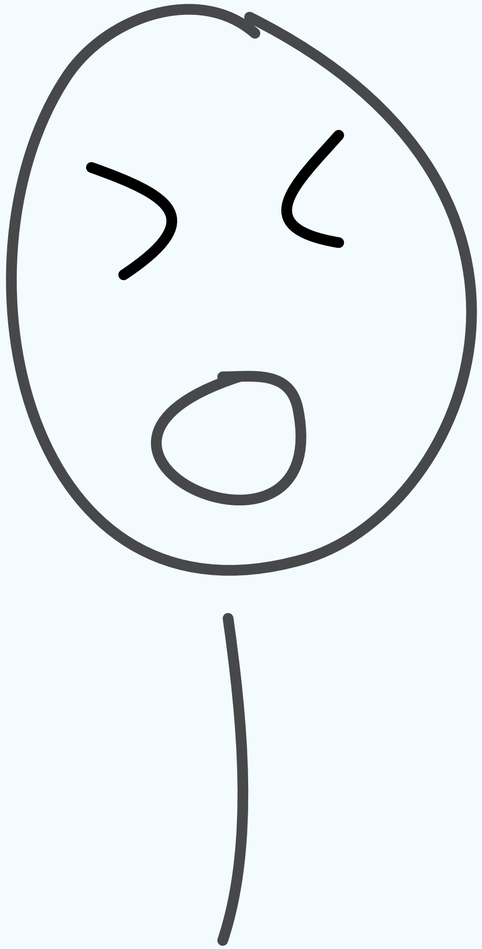
Early Adopter

Maintainer



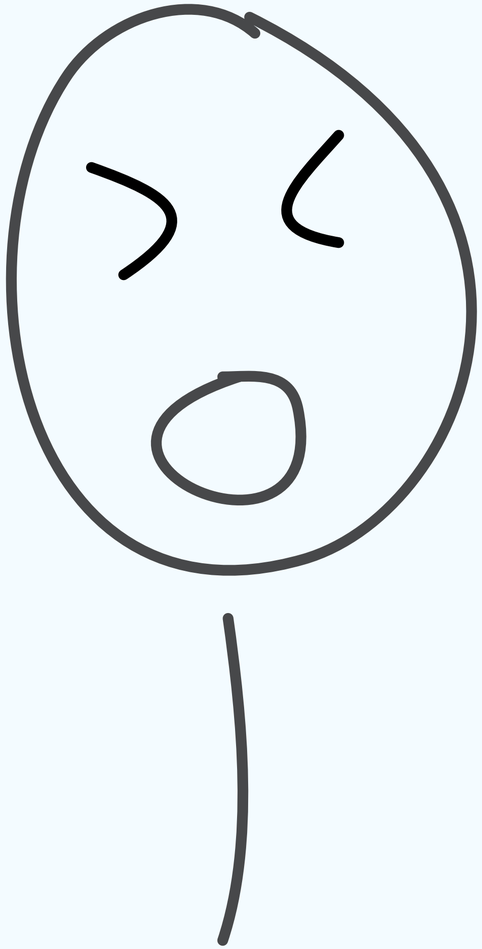
Early Adopter

Maintainer



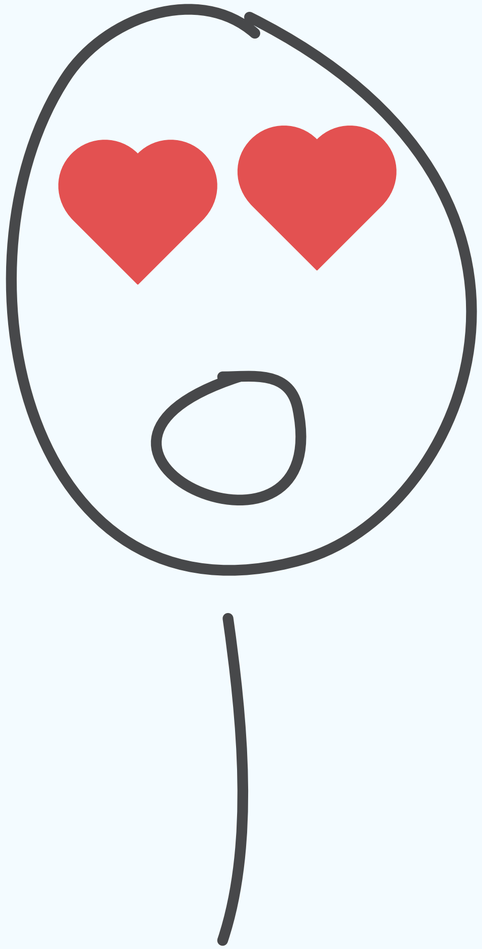
Early Adopter

Maintainer



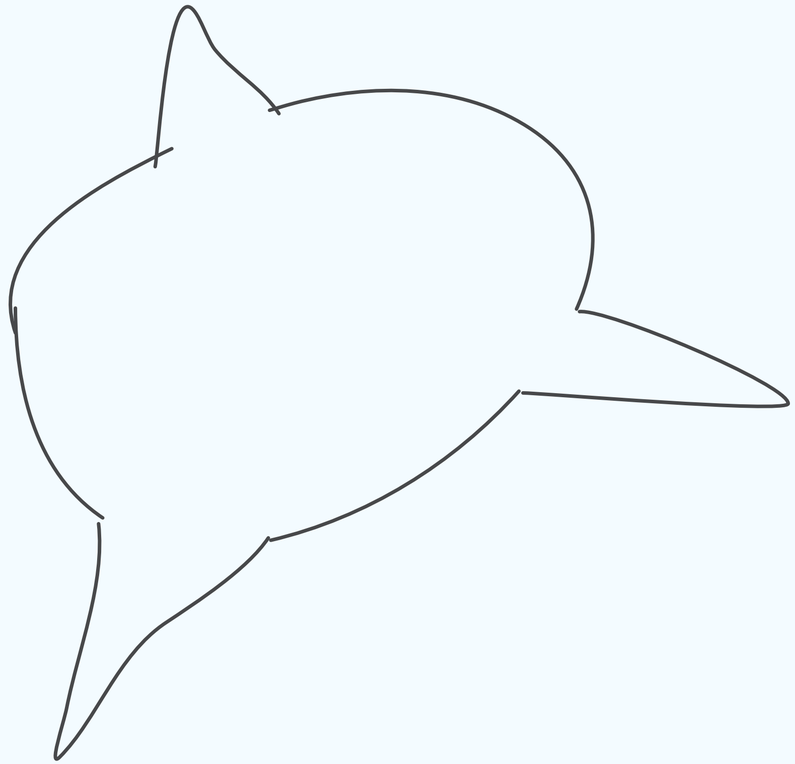
Early Adopter

Maintainer



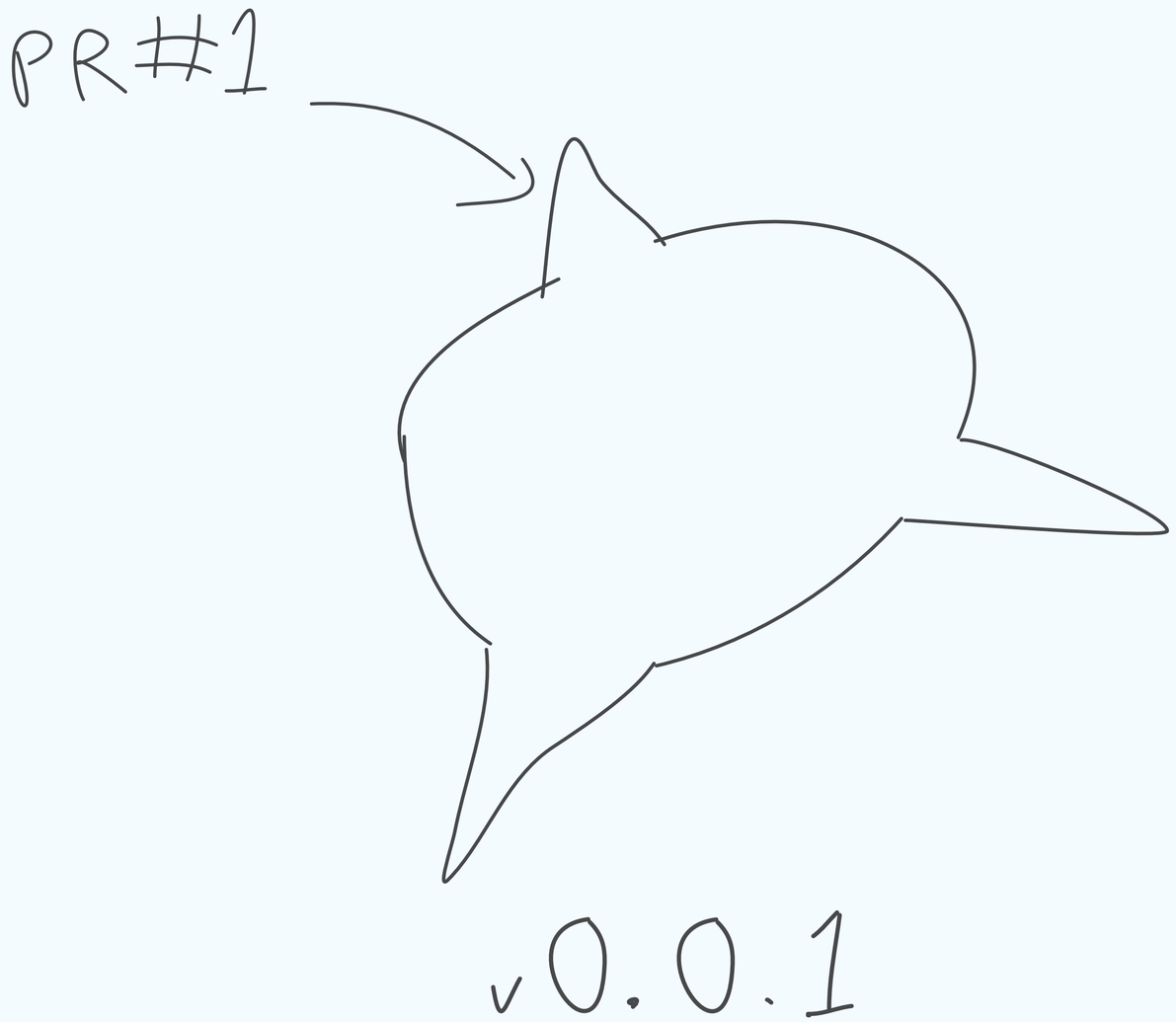
Early Adopter

Scratching an Itch

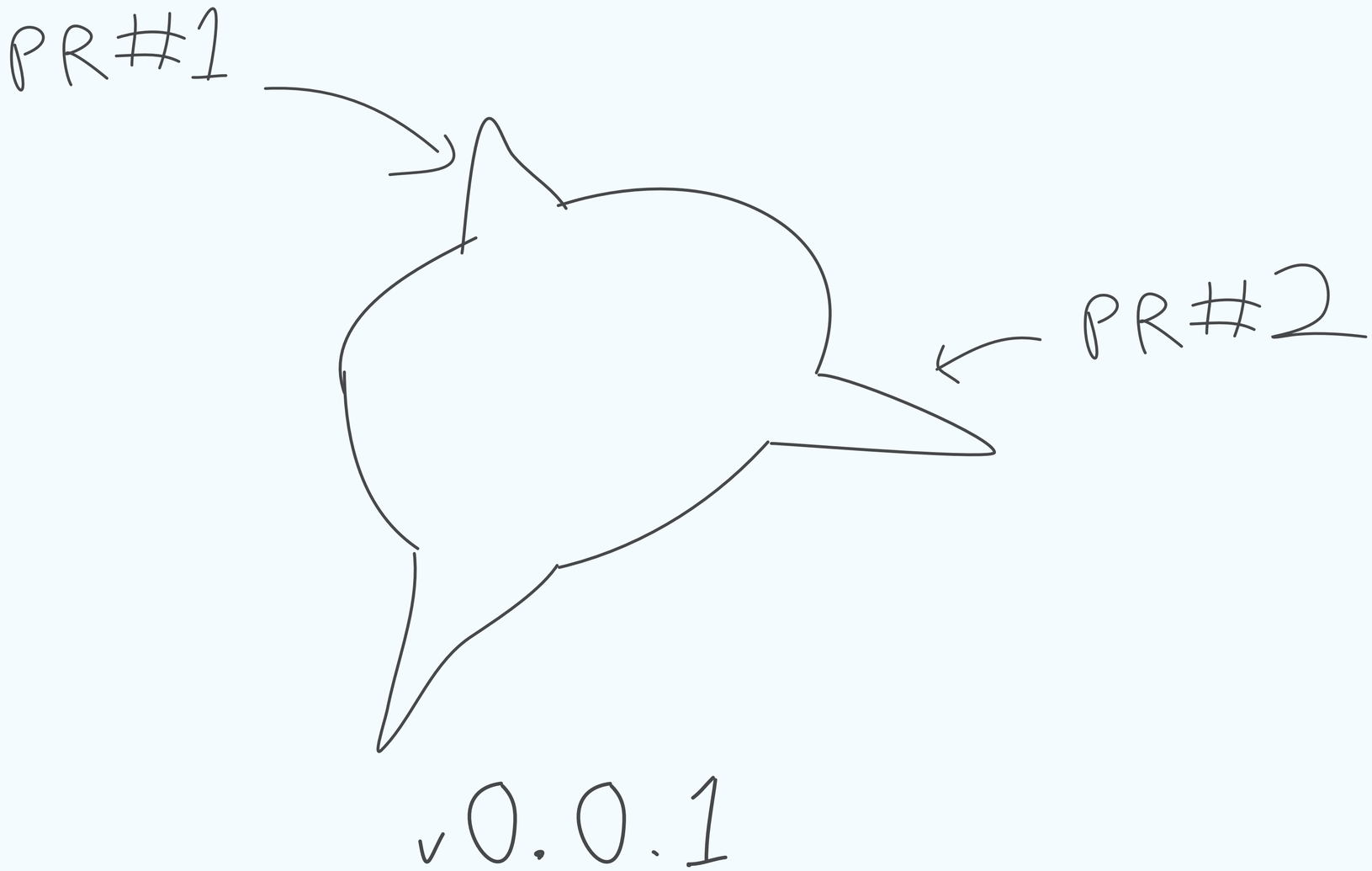


v0.0.1

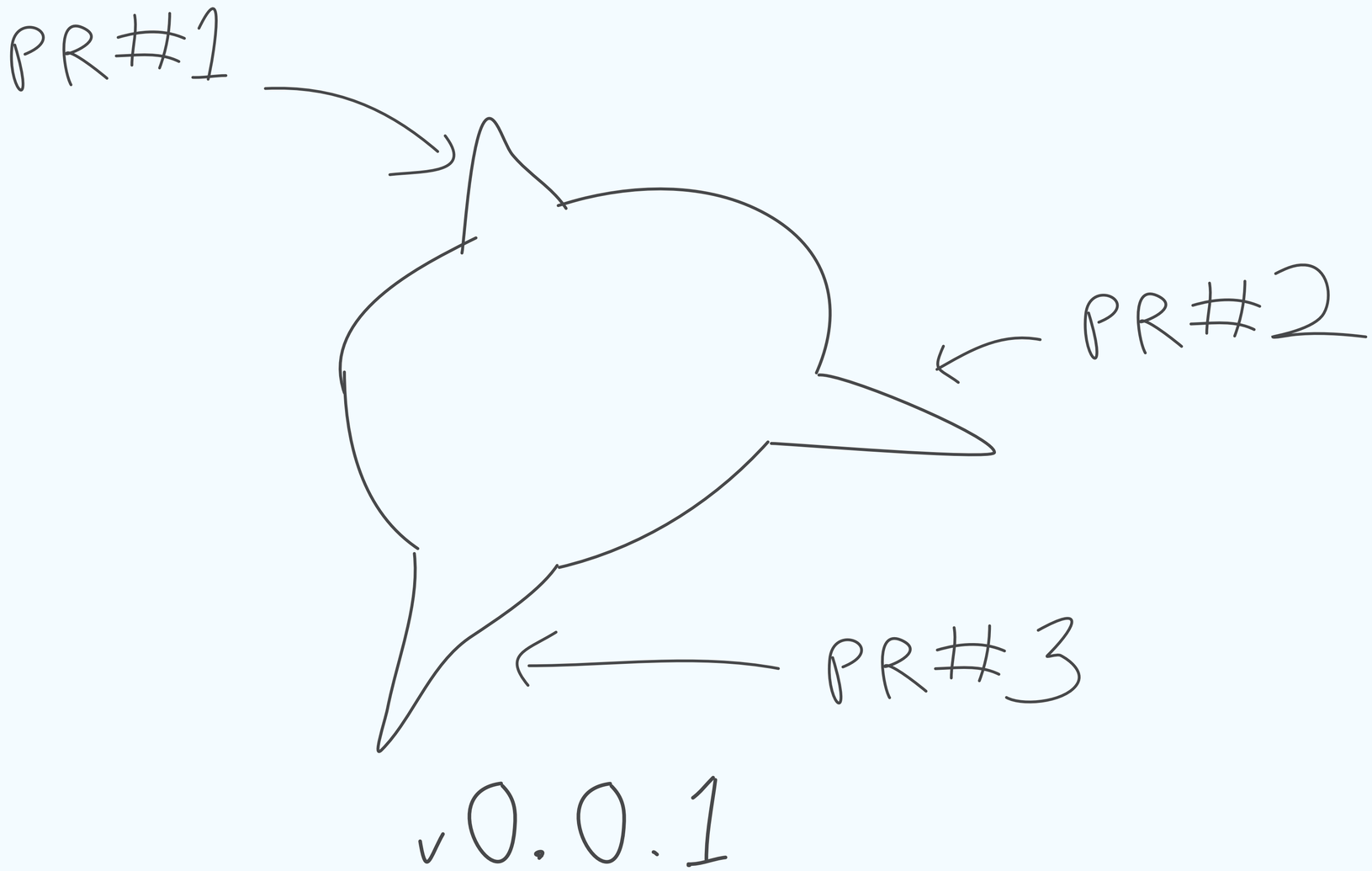
Scratching an Itch



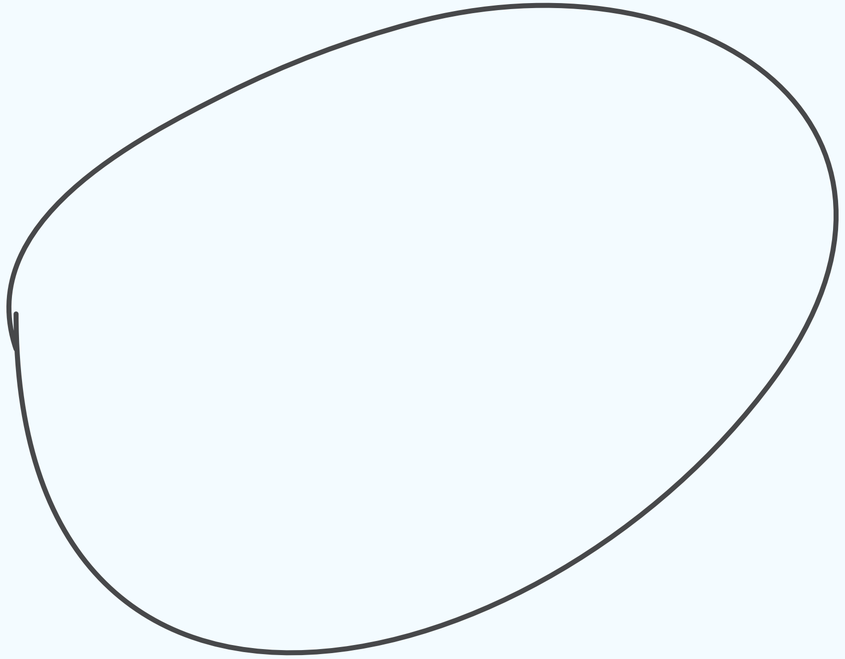
Scratching an Itch



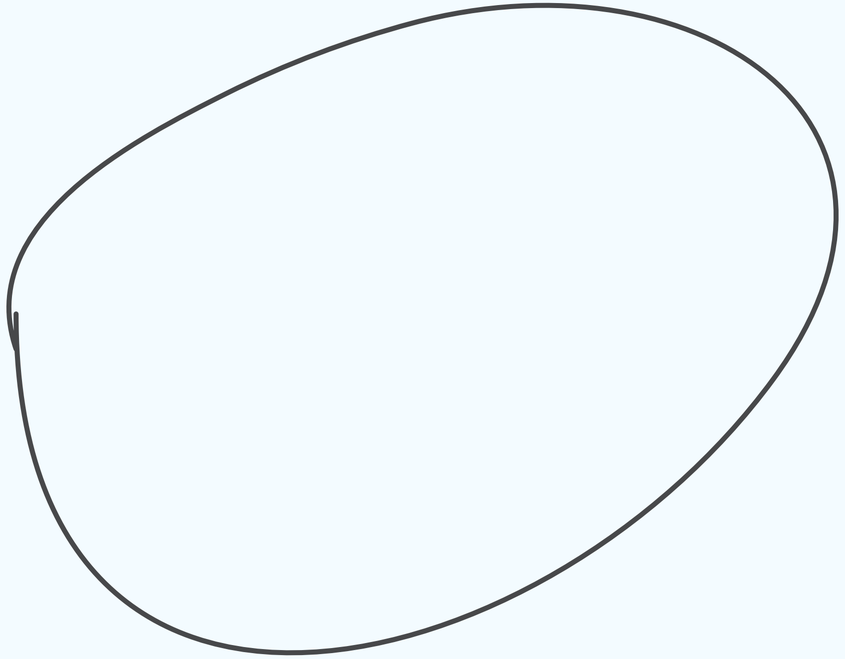
Scratching an Itch



Scratching an Itch

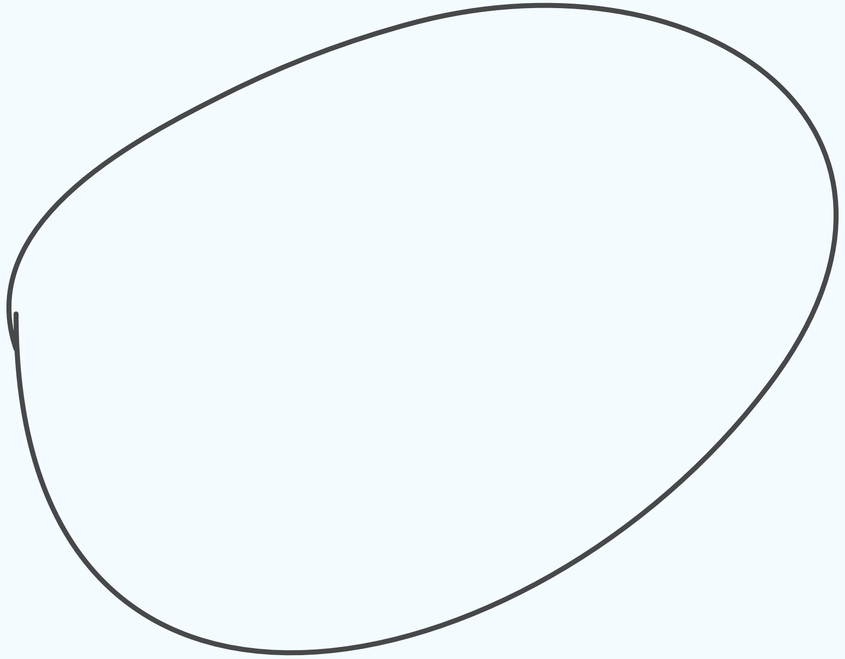


Scratching an Itch



v1.0.0

Scratching an Itch



v0.84.0

Maintainer

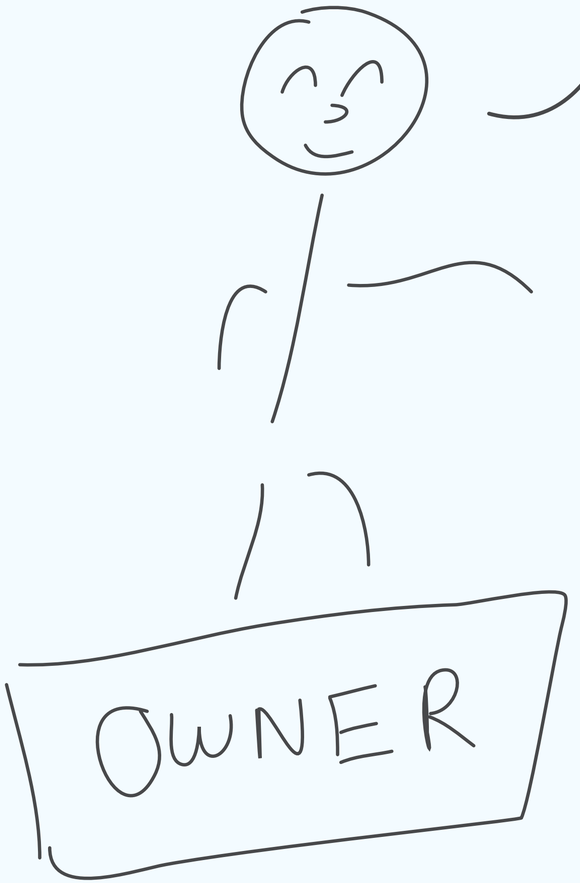
Early Adopter

Maintainer

Early Adopter

Maintainer

hey, let's own this together!



Early Adopter

wow, me? let's do this!

Maintainer

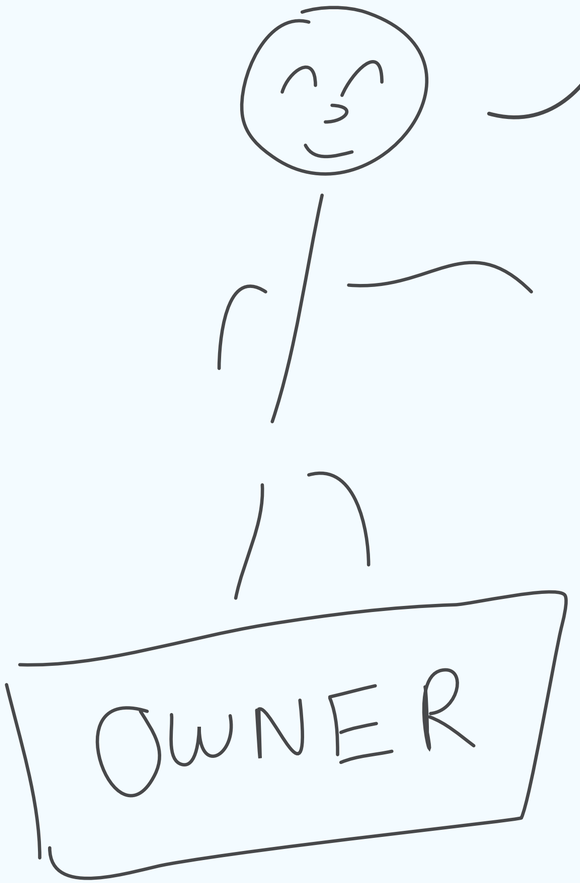
Early Adopter

Maintainer

Early Adopter

Maintainer

hey, let's make you a committer!



Early Adopter

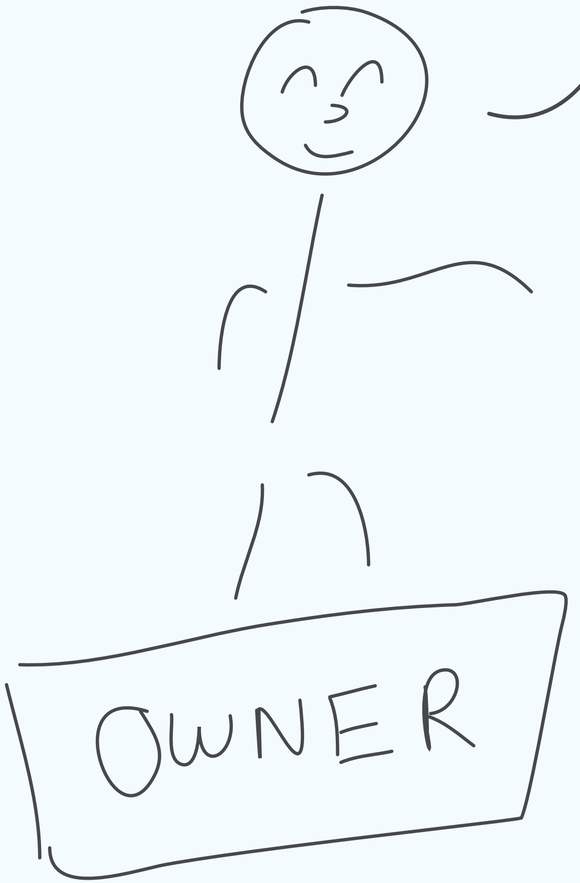
awesome, i will help sometimes!

Maintainer

Early Adopter

Maintainer

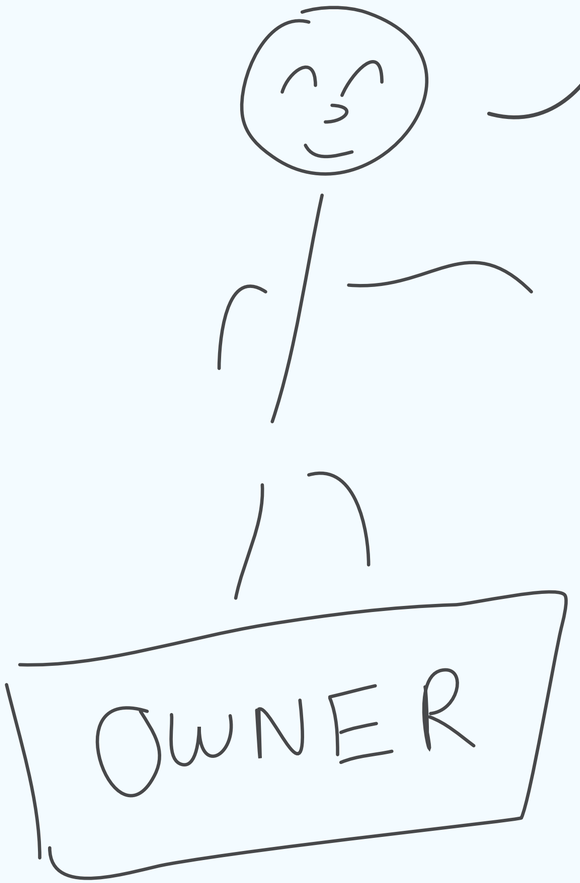
hey, let's never communicate again!



Early Adopter

Maintainer

hey, let's never communicate again!



Early Adopter

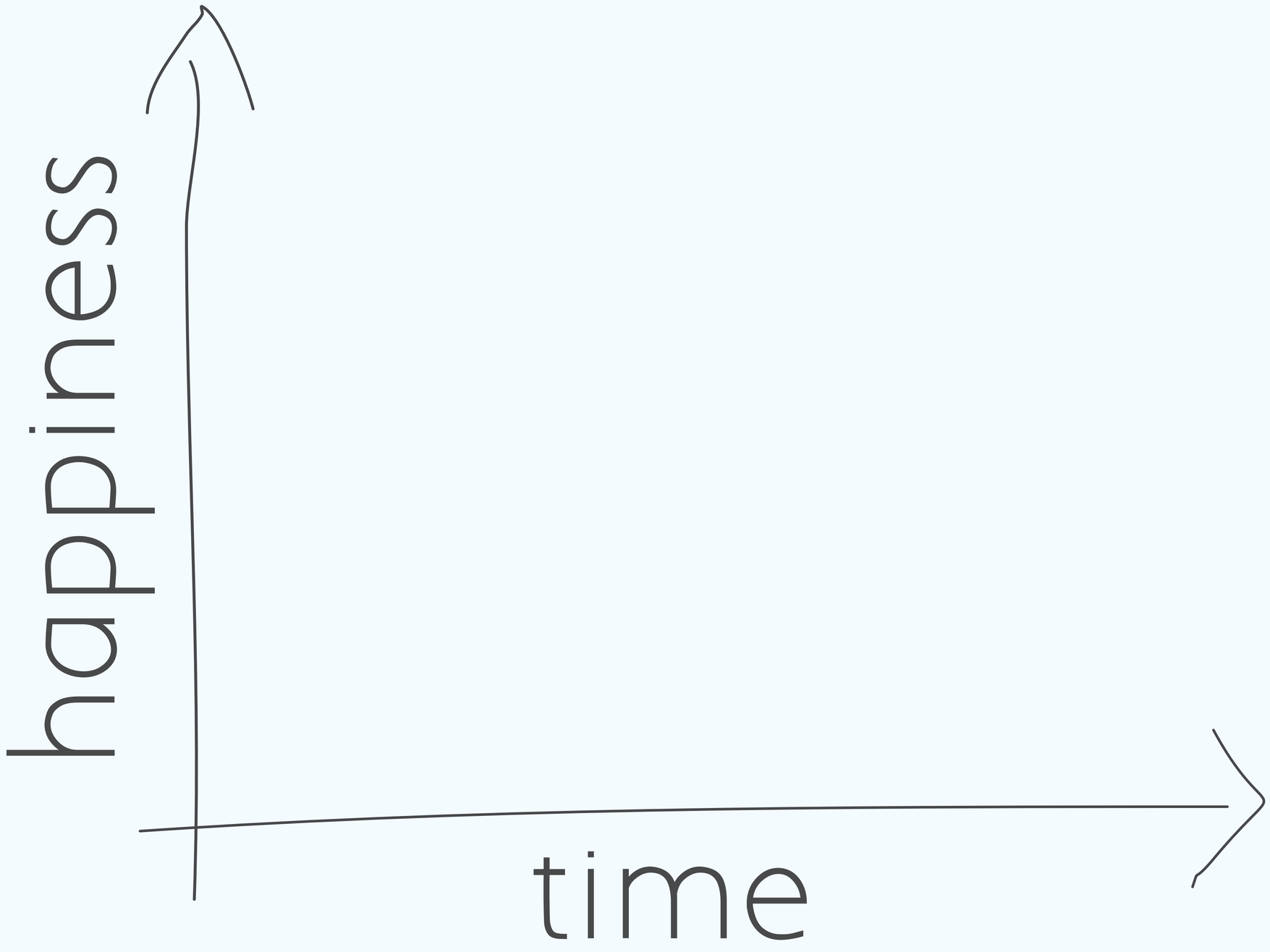
sounds good, bye forever!

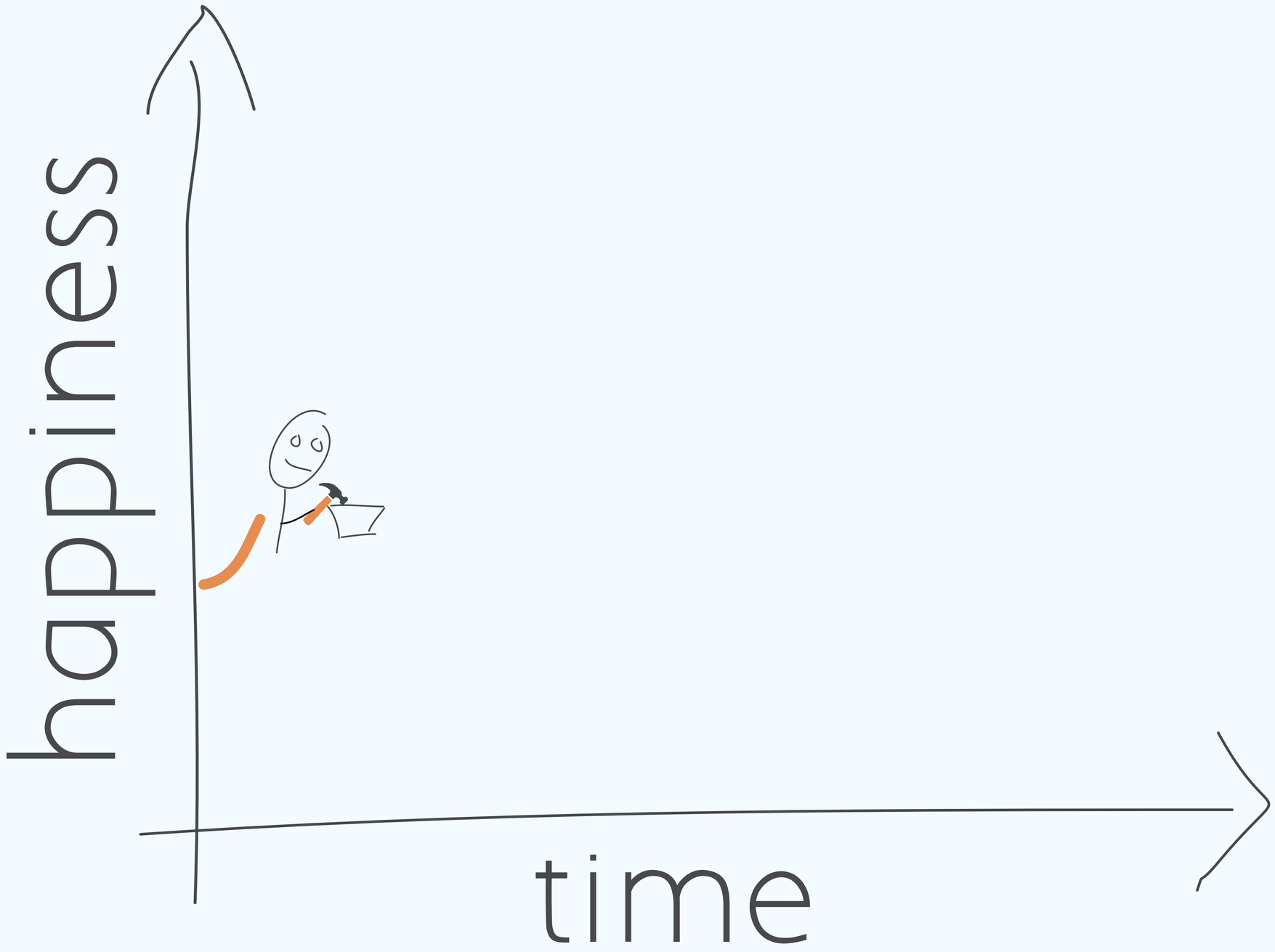
Maintainer

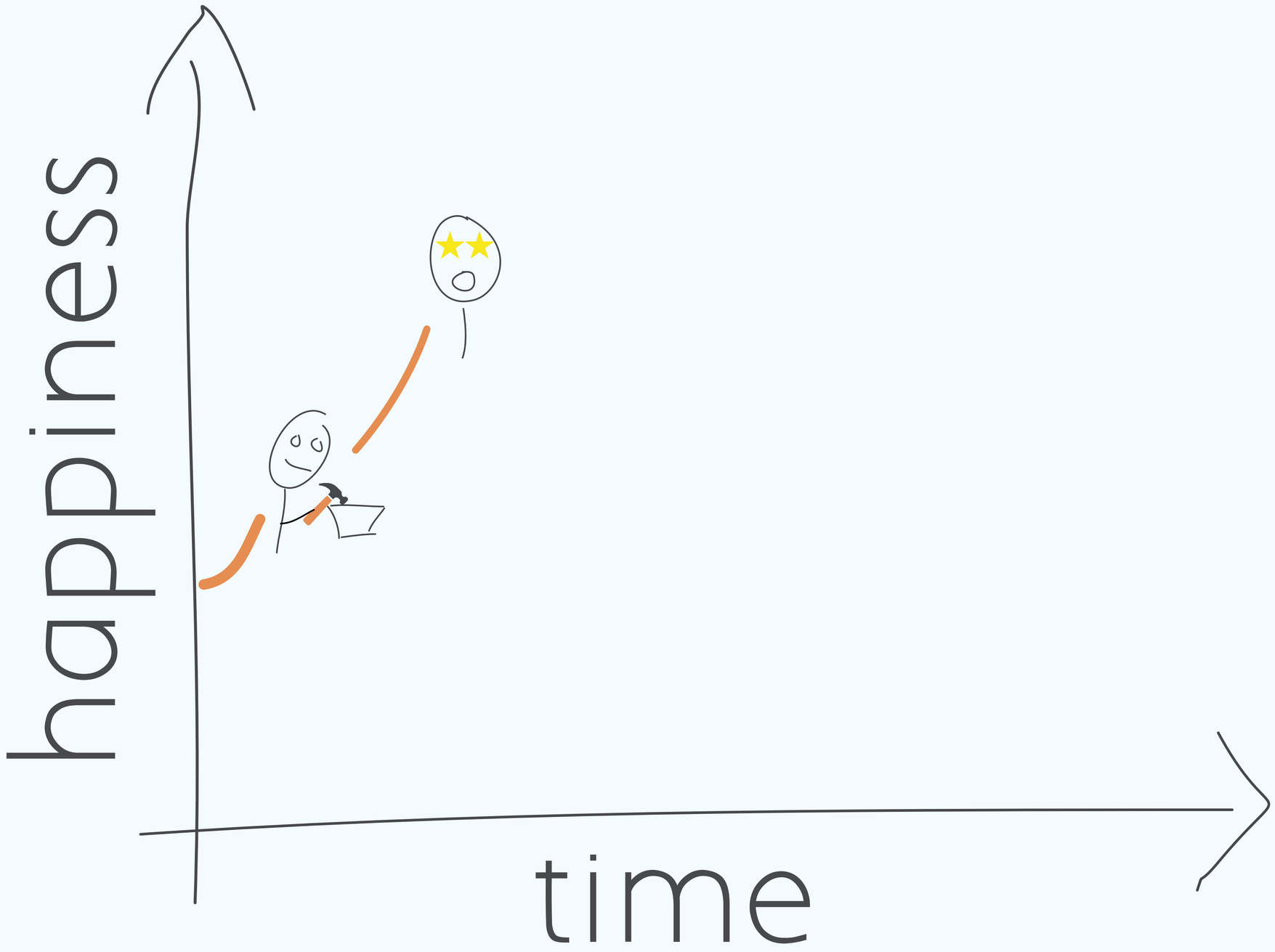
Early Adopter

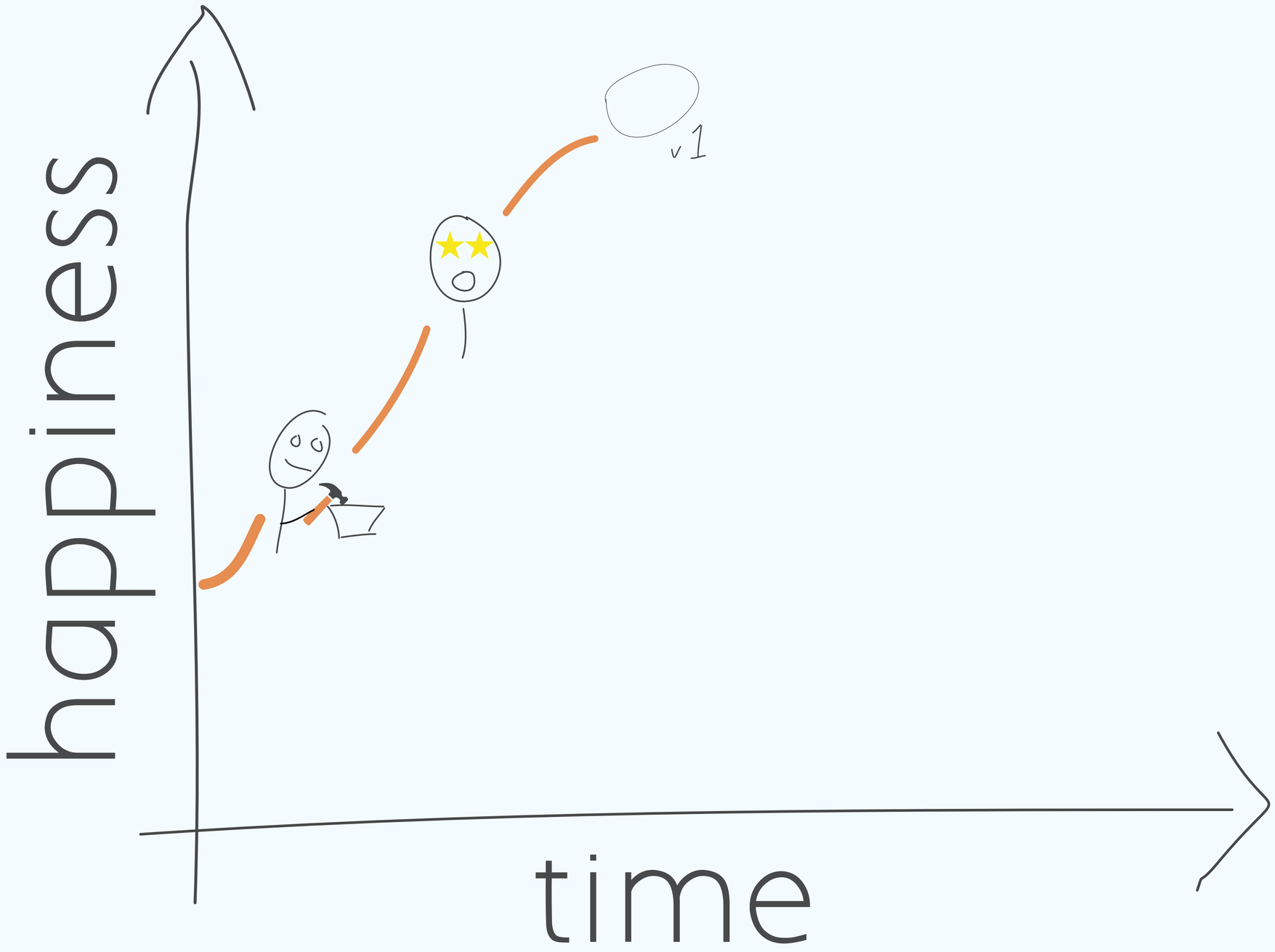
hey, let's never communicate again!

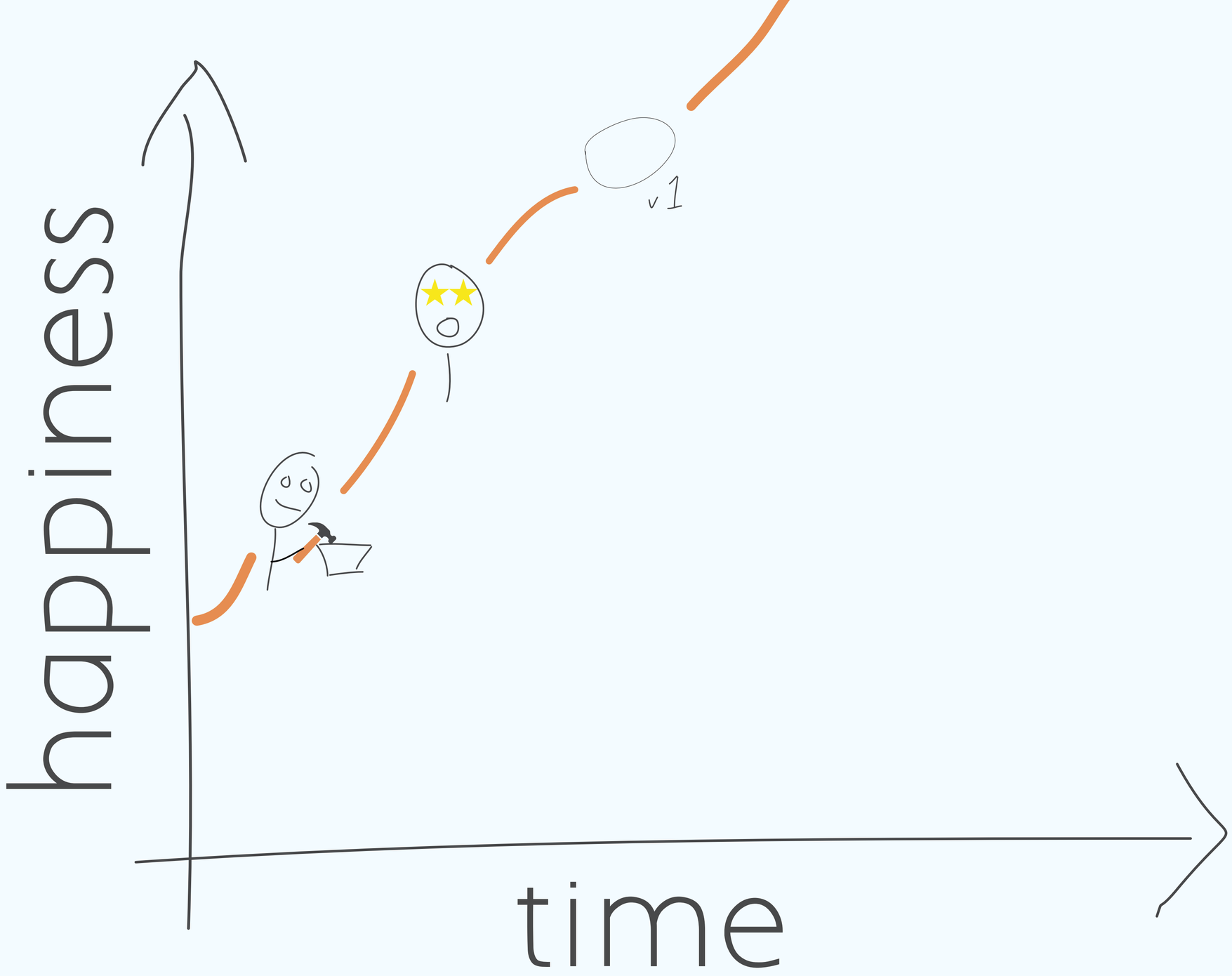
Why don't maintainers just share control?


happiness
time


happiness
time

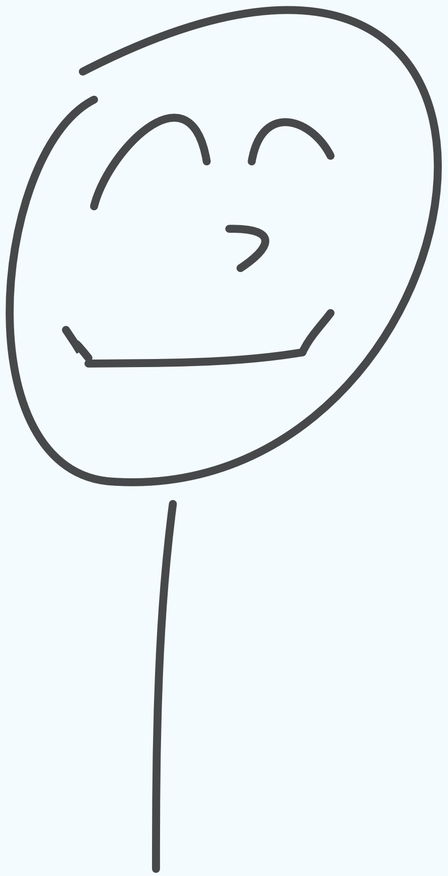

happiness
time


happiness
time
v1


happiness
time
v1

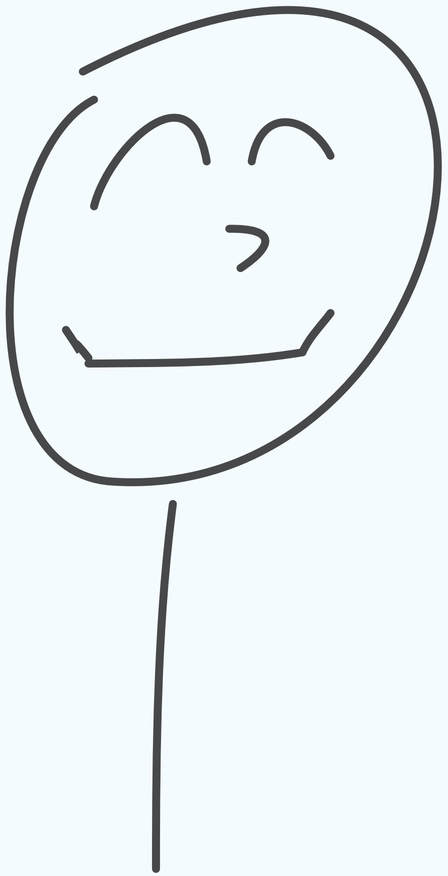
Late adopters will disabuse them of this happiness

Maintainer



Late Adopter

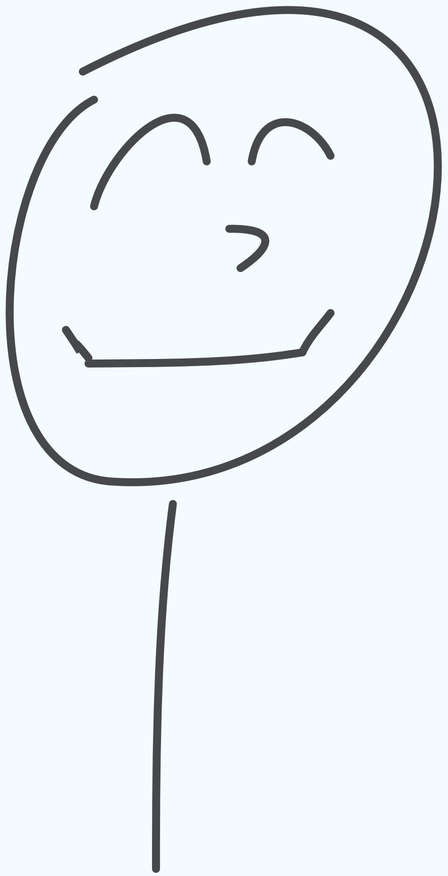
Maintainer



0 commits this week

Late Adopter

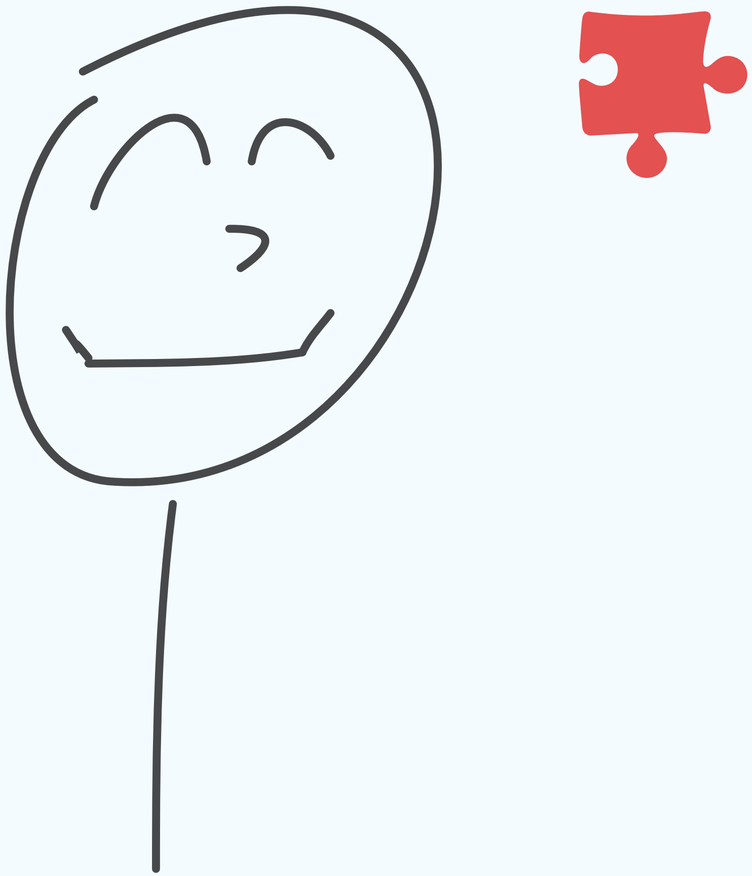
Maintainer



0 commits this ~~week~~ month

Late Adopter

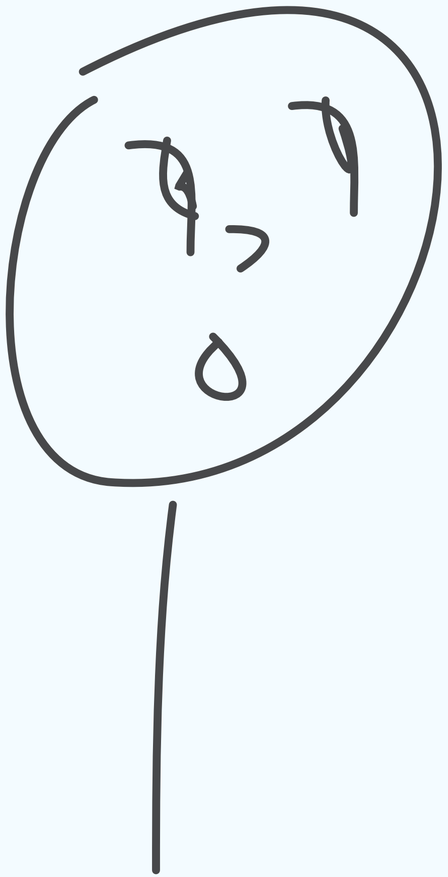
Maintainer



0 commits this ~~week~~ month

Late Adopter

Maintainer



0 commits this ~~week~~ month

Late Adopter

Maintainer

Late Adopter

0 commits this ~~week~~
MONTH

Maintainer

Late Adopter

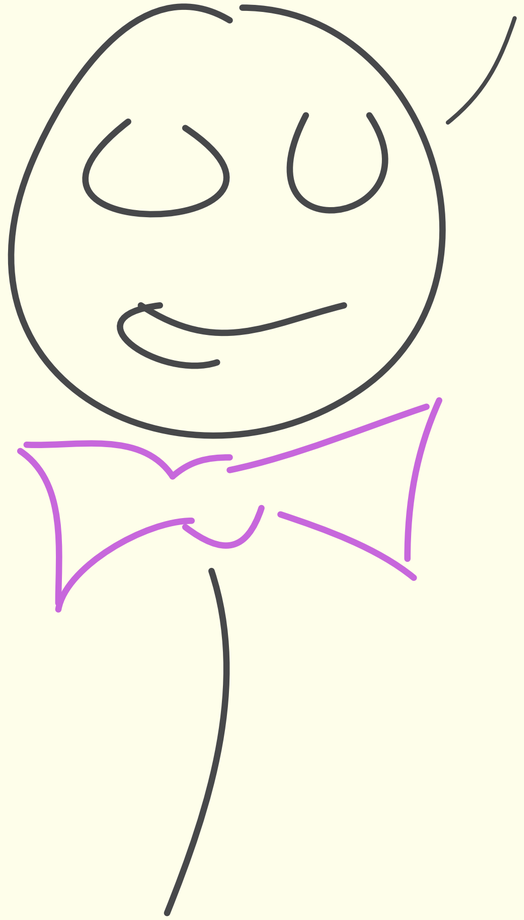
0 commits this ~~week~~
month

Maintainer

0 commits this ~~week~~
month

Late Adopter

no recent commits?
sounds stable!

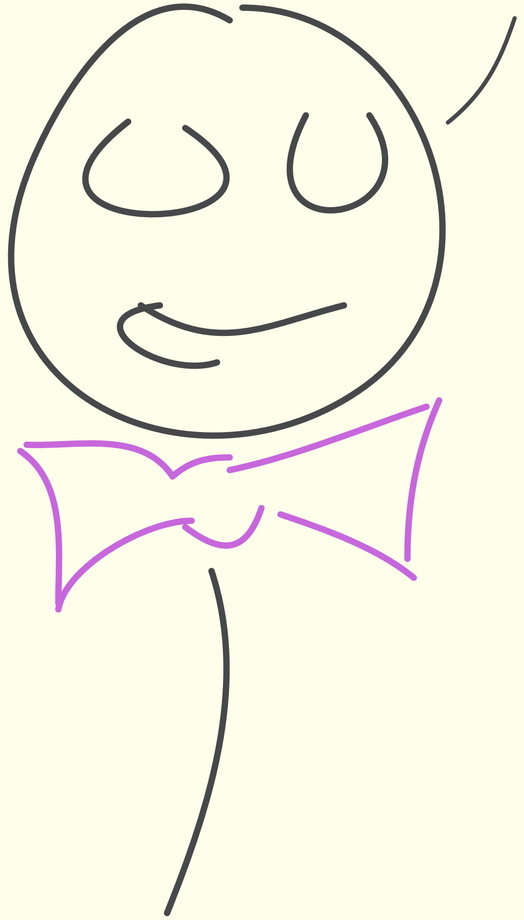


Maintainer

0 commits this ~~week~~
month

Late Adopter

800 stars?
sounds safe!

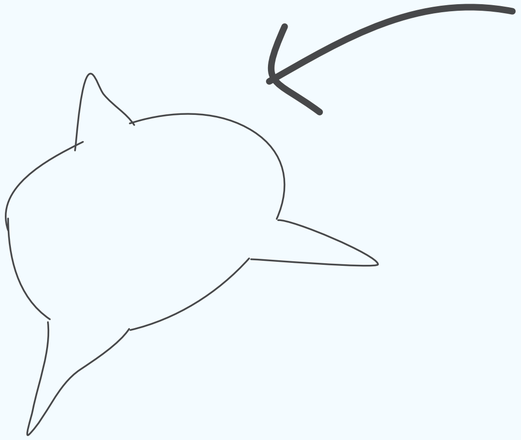


Maintainer

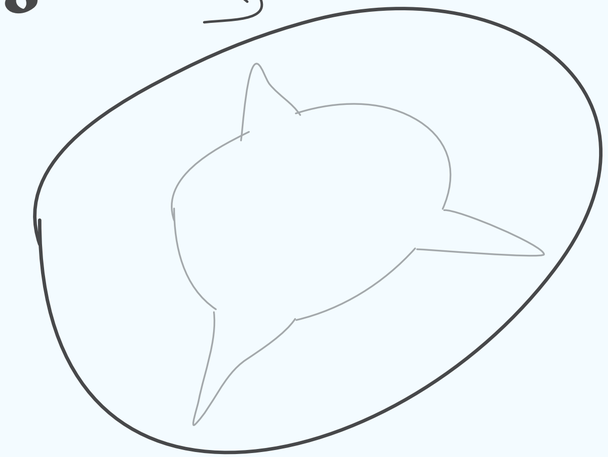
0 commits this ~~week~~
MONTH

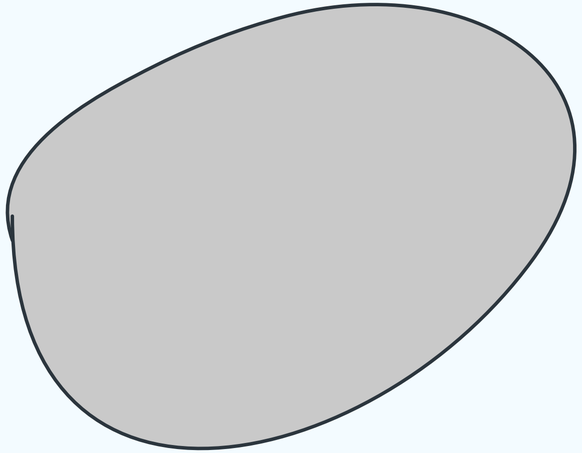
Late Adopter

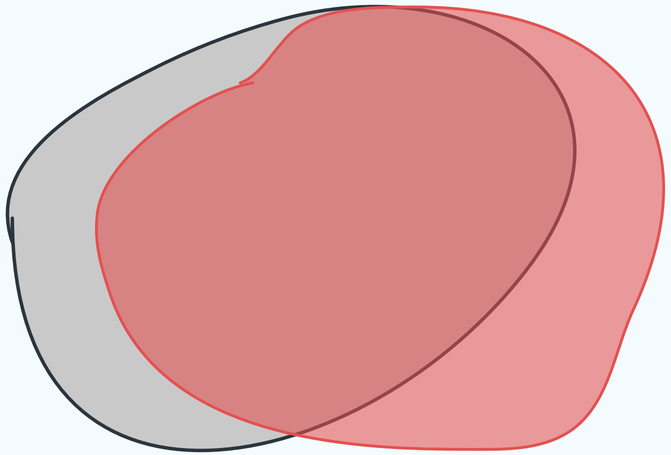
maintainer's needs



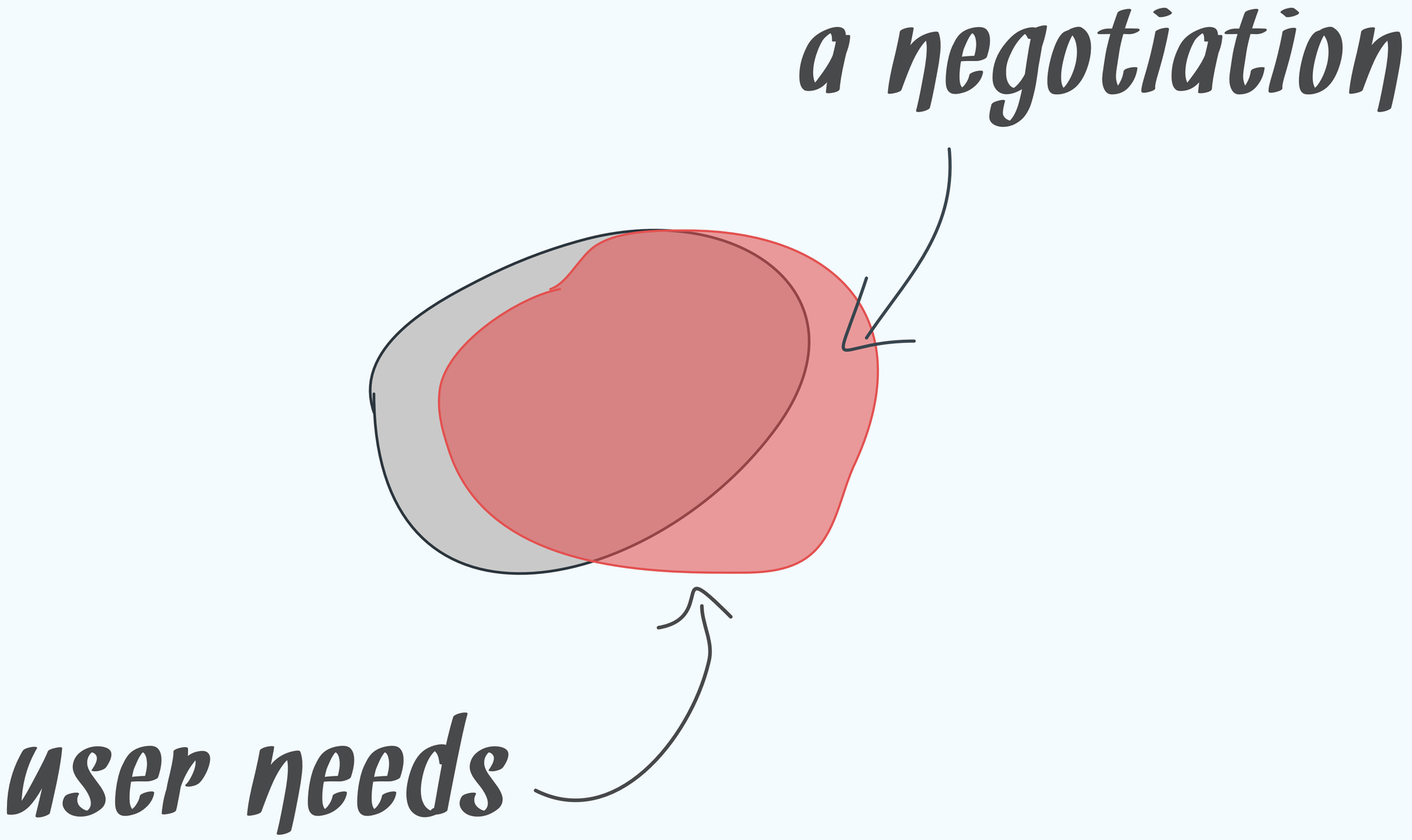
maintainer & early adopters' needs







user needs


a negotiation
user needs

Literally, like, two days later

Maintainer

Late Adopter

Maintainer

Late Adopter

Maintainer

Late Adopter

what?! it doesn't [enterprise] my [enterprise] at all!

Maintainer

Late Adopter

how could they ignore such an important use case?!

Missing Obvious and Important Feature!

Open

Missing Obvious and Important Feature!

Open

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

Missing Obvious and Important Feature!

Open

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

searls commented

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

Missing Obvious and Important Feature!

Open

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

searls commented

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

otherfirstnamelastname commented

👍🏽

Missing Obvious and Important Feature!

Open

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

searls commented

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

otherfirstnamelastname commented

👍

suspiciouslyprofessionalusername77 commented

👍 this is obvious and important—maintainer is bad and should feel bad

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

otherfirstnamelastname commented

👍

suspiciouslyprofessionalusername77 commented

👍 this is obvious and important—maintainer is bad and should feel bad

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

otherfirstnamelastname commented

👍

suspiciouslyprofessionalusername77 commented

👍 this is obvious and important—maintainer is bad and should feel bad

searls referenced this issue from a commit

`Complex enterprise feature due to popular demand` ··· `dad0778`

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

otherfirstnamelastname commented

👍

suspiciouslyprofessionalusername77 commented

👍 this is obvious and important—maintainer is bad and should feel bad

searls referenced this issue from a commit

`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?

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

otherfirstnamelastname commented

👍

suspiciouslyprofessionalusername77 commented

👍 this is obvious and important—maintainer is bad and should feel bad

searls referenced this issue from a commit

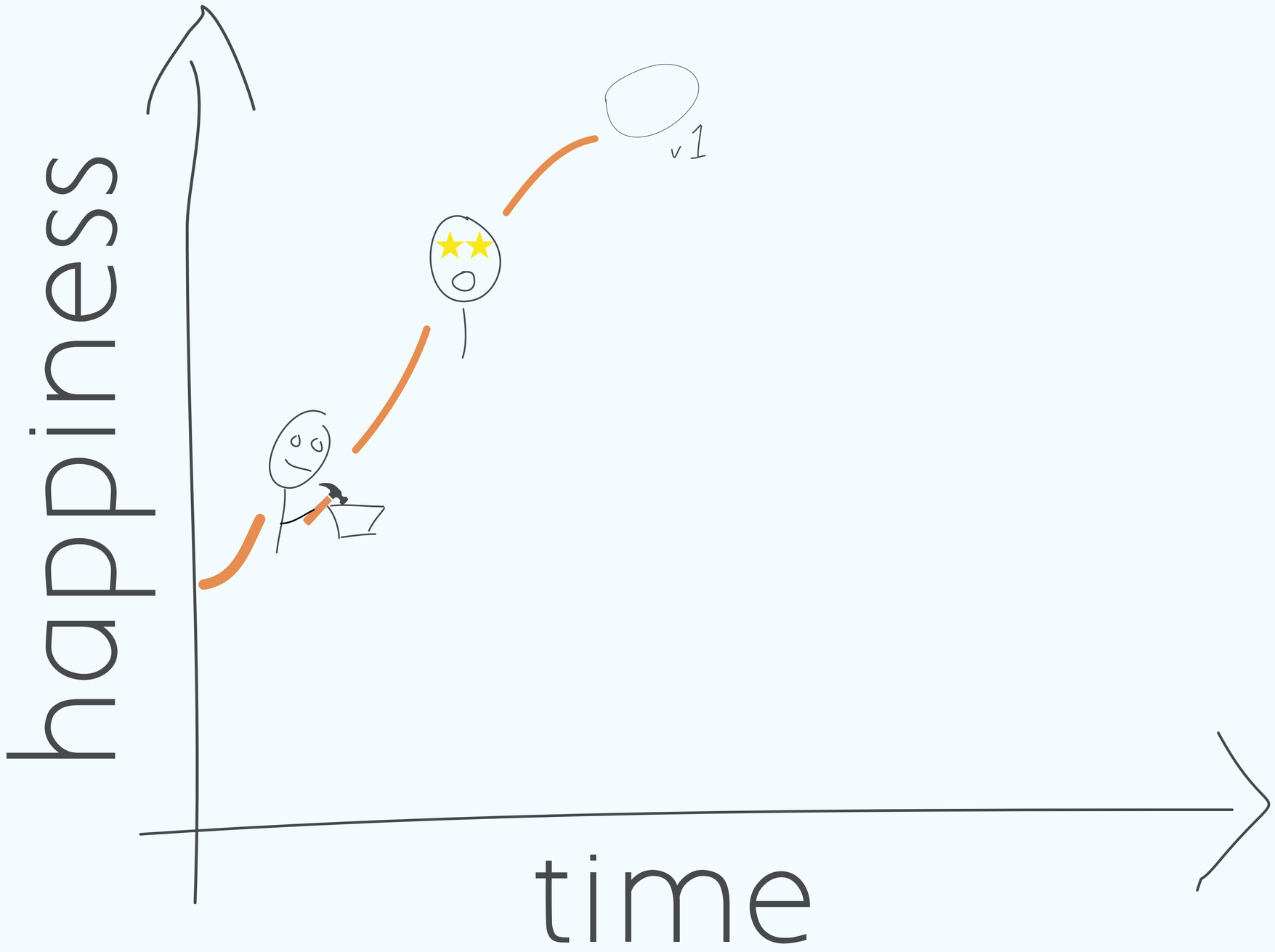
`Complex enterprise feature due to popular demand ···` dad0778

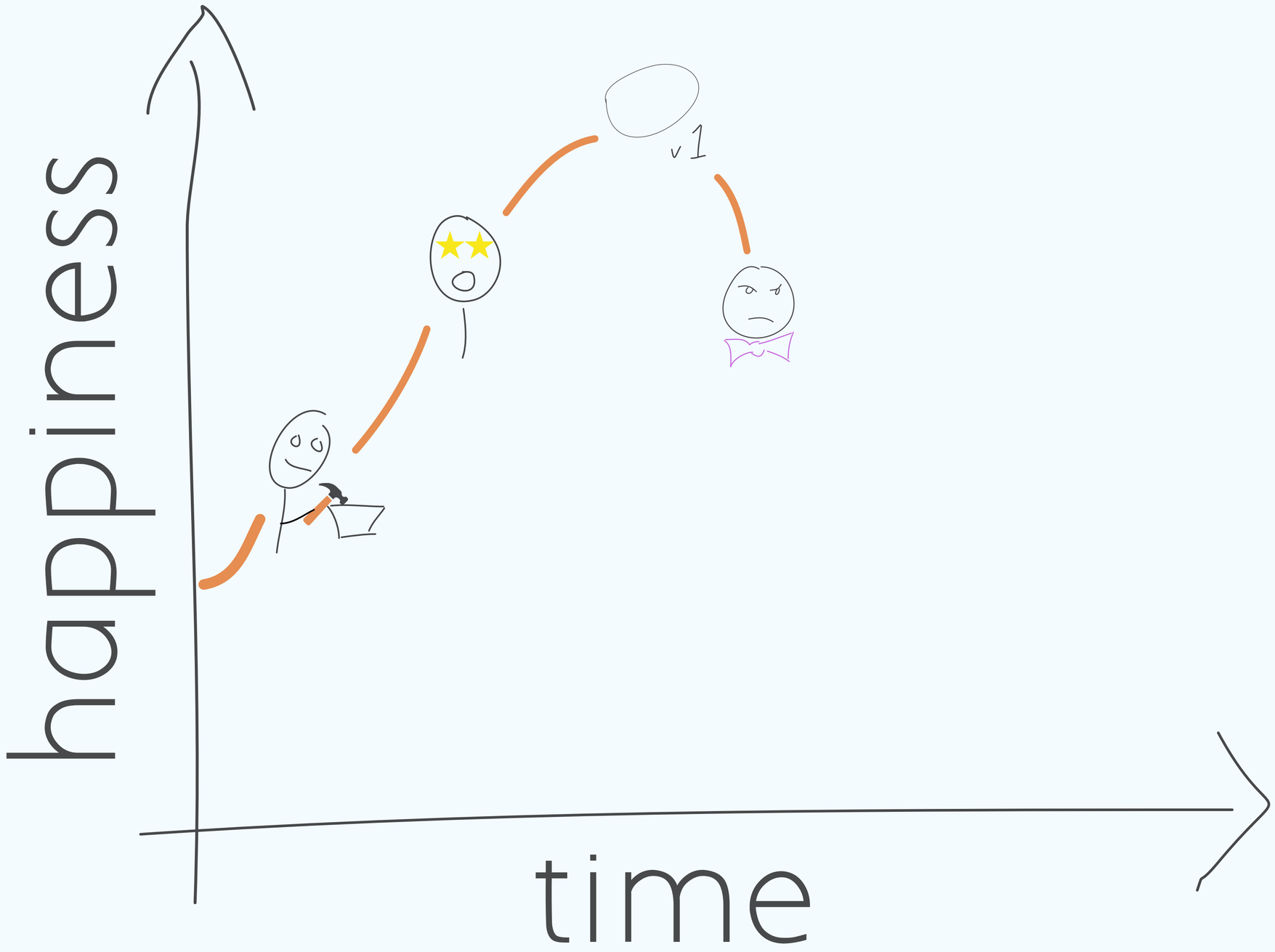
searls commented

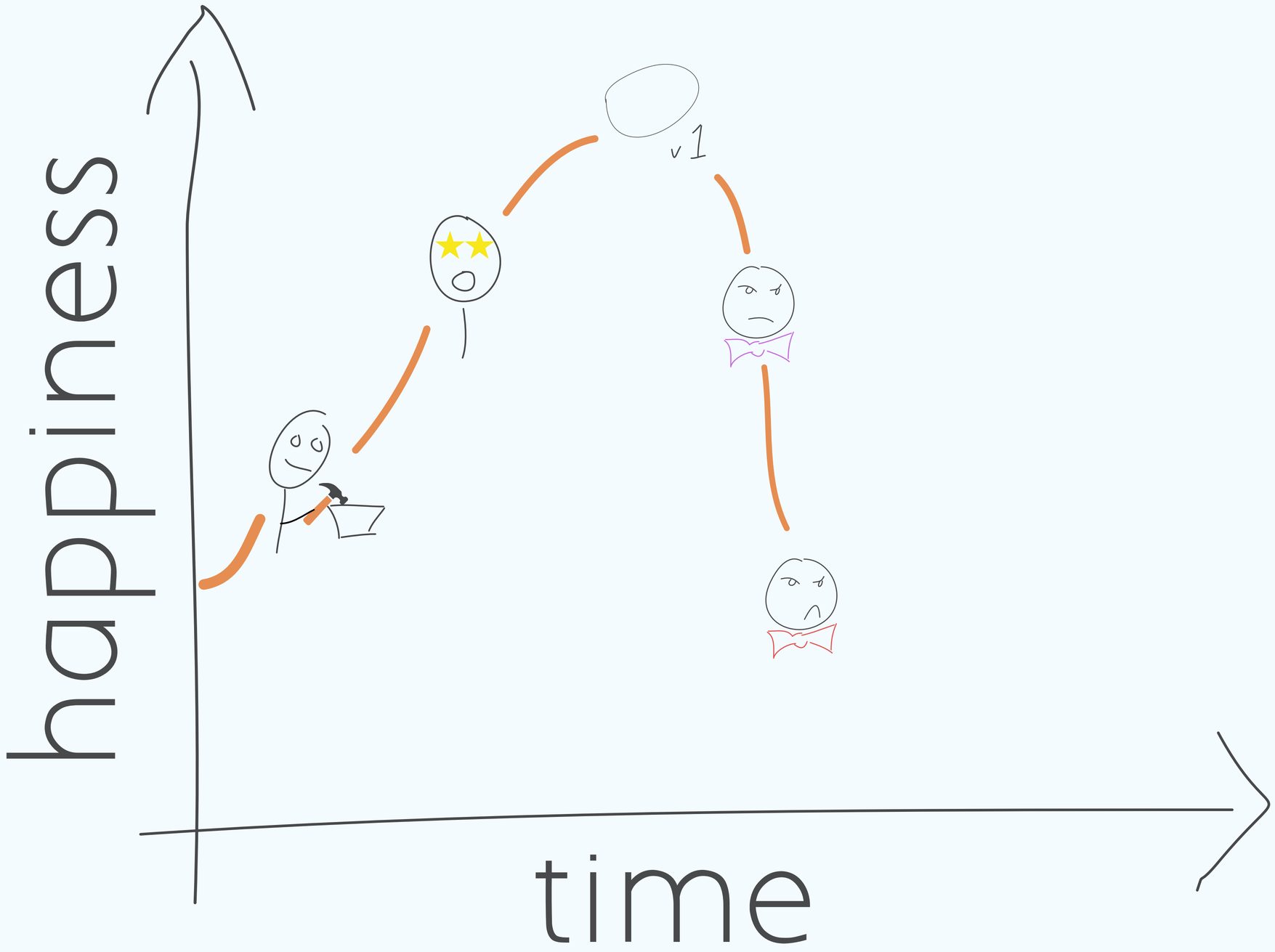
I just spent all weekend building this! Can someone verify it works before I close the issue?

searls commented

😢


happiness
time
v1


happiness
time
v1


happiness
v1
time

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

Late adopters make better customers than users

Dual-license

"Pro™" features

Late adopters make better customers than users

Dual-license

"Pro™" features

Paid support

Late adopters make better customers than users

Dual-license

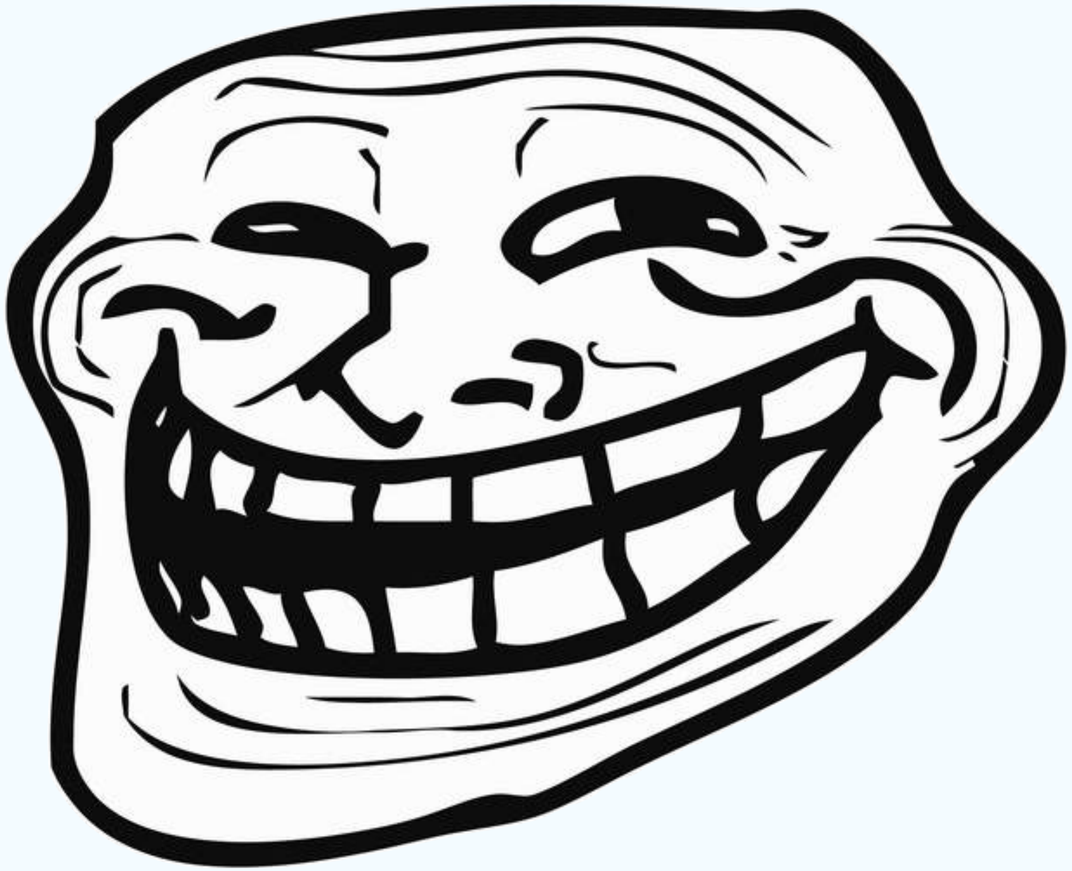
"Pro™" features

Paid support

¯_(ツ)_/¯

Maintainers should feel

free to say "No"



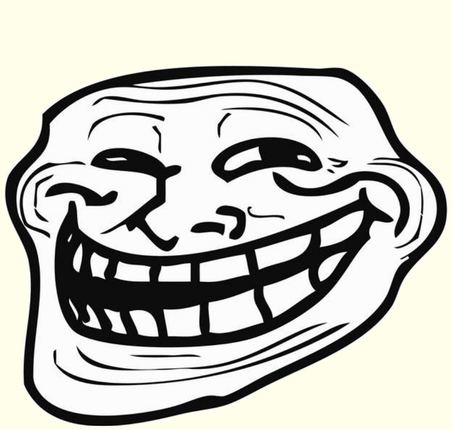
Maintainer

Trolls

Maintainer

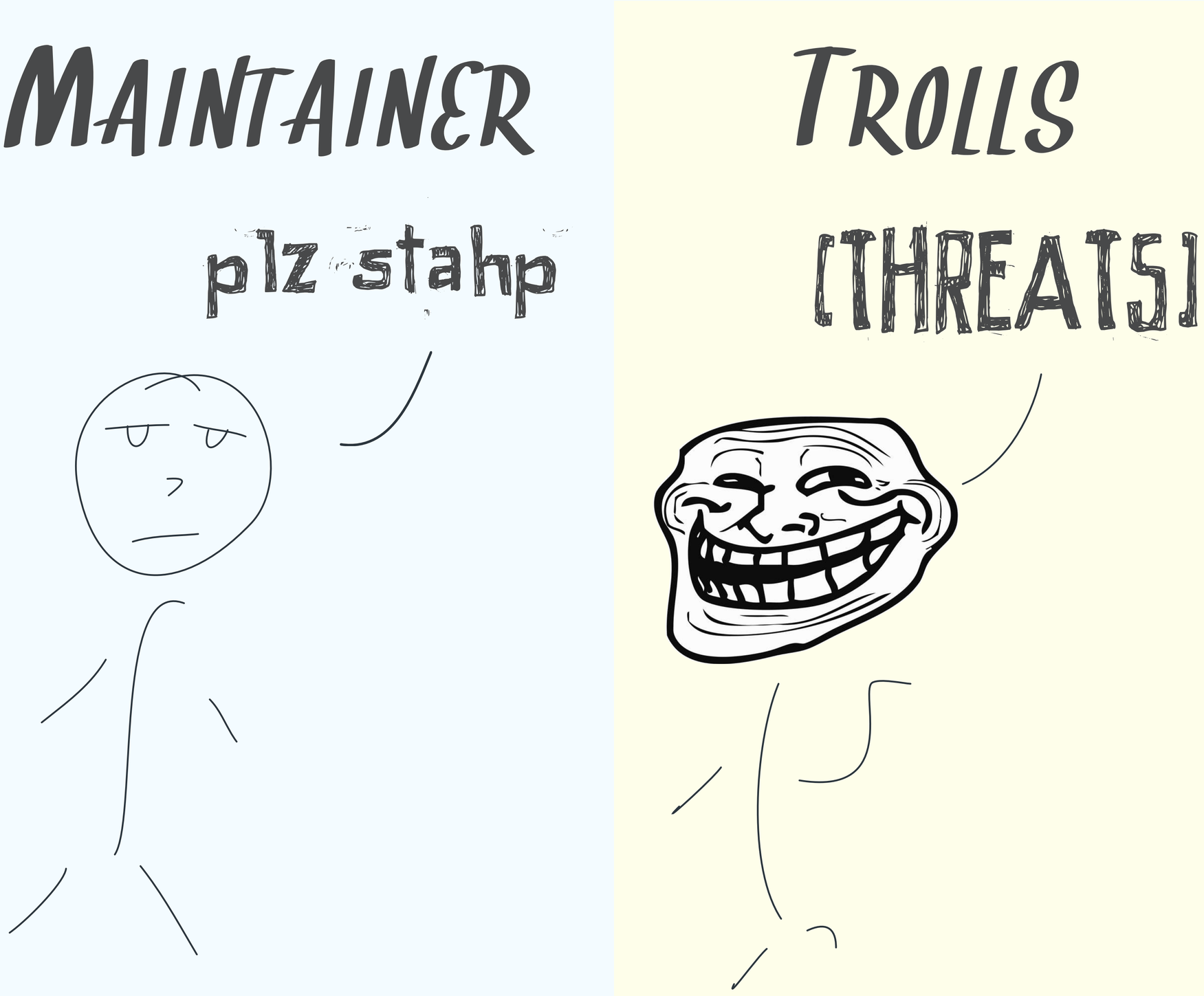
Trolls

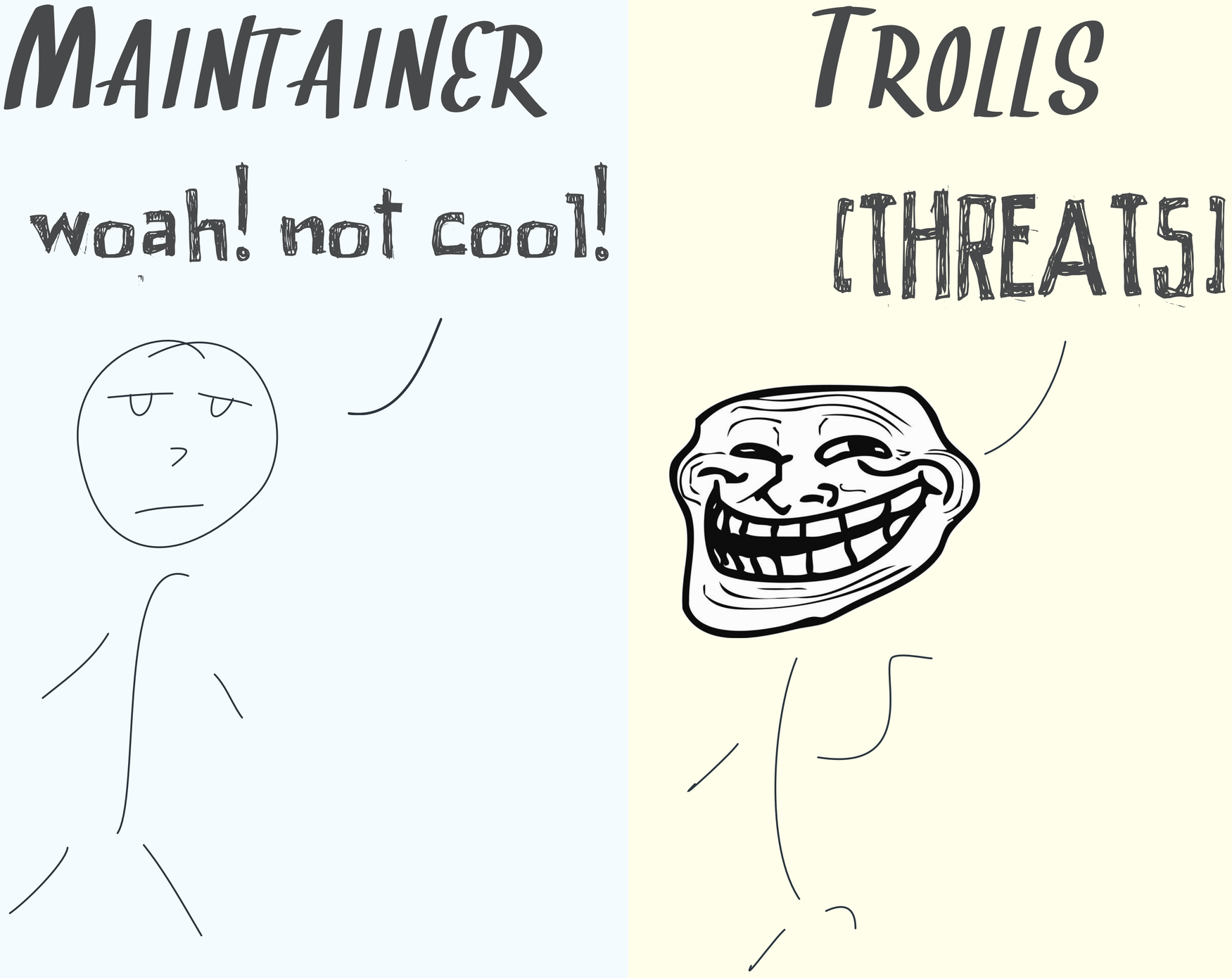
[HATE]

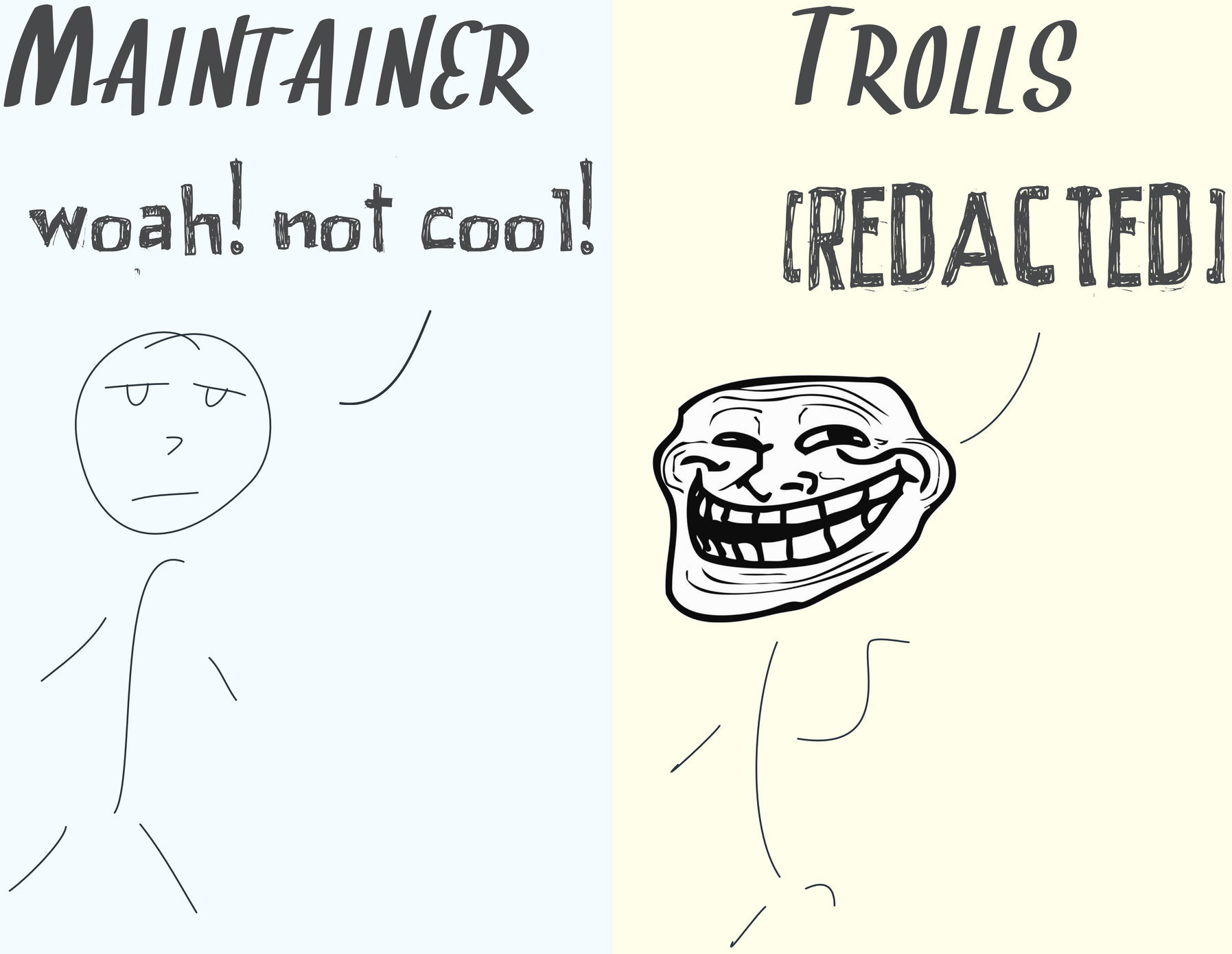


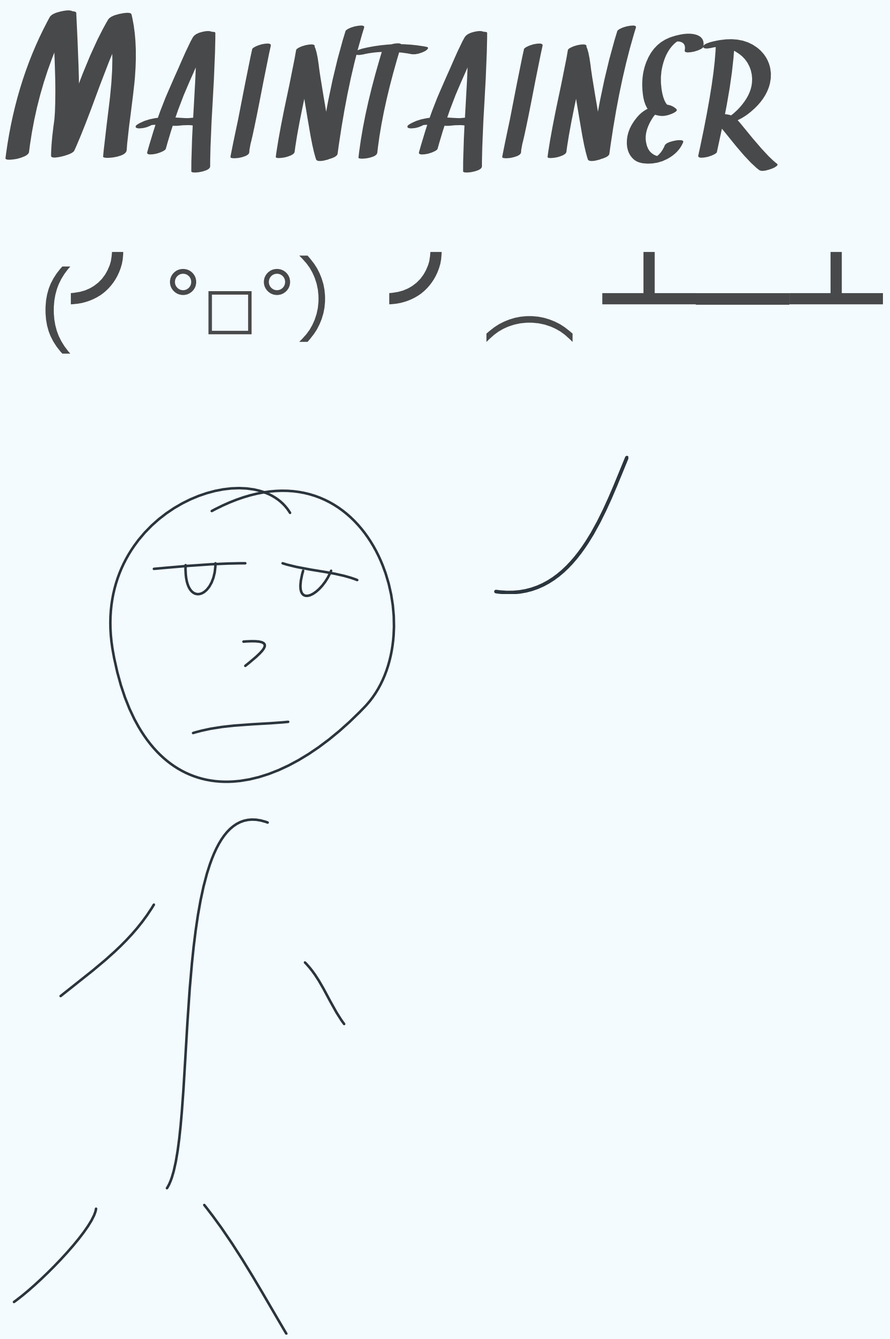
MAINTAINER
plz stahp

TROLLS
[HATE]

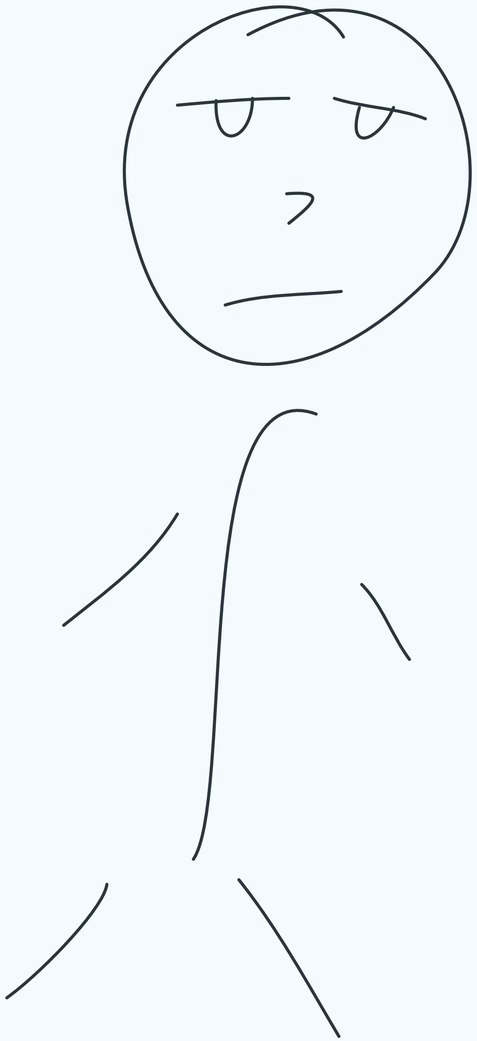

MAINTAINER
plz stahp
TROLLS
[THREATS]

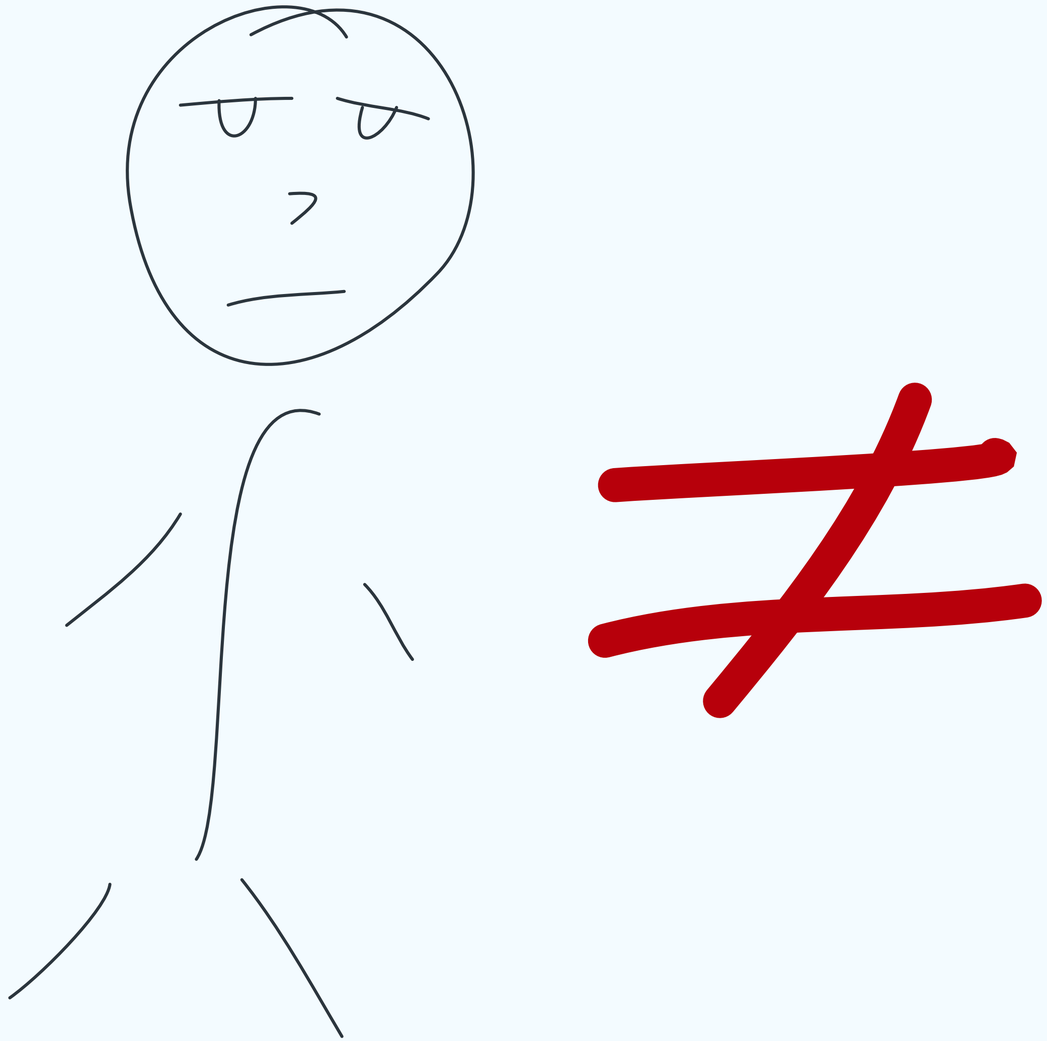

MAINTAINER
woah! not cool!
TROLLS
[THREATS]

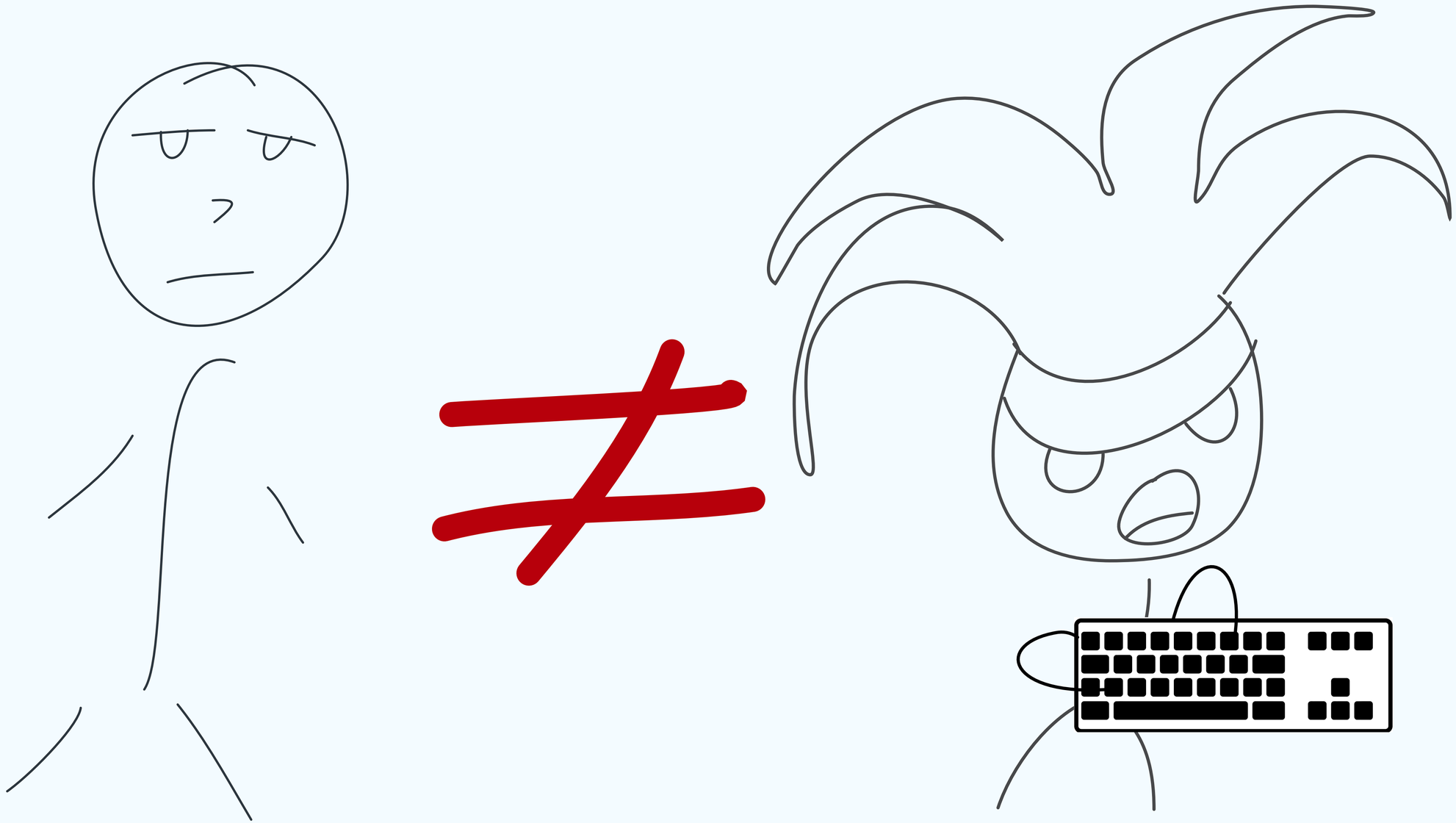

MAINTAINER
woah! not cool!
TROLLS
[REDACTED]


MAINTAINER
(ノ °□°) ノ ︵ ┻━┻

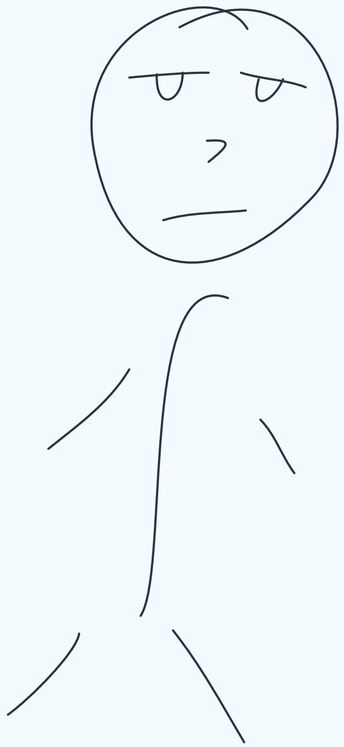
TROLLS
[REDACTED]







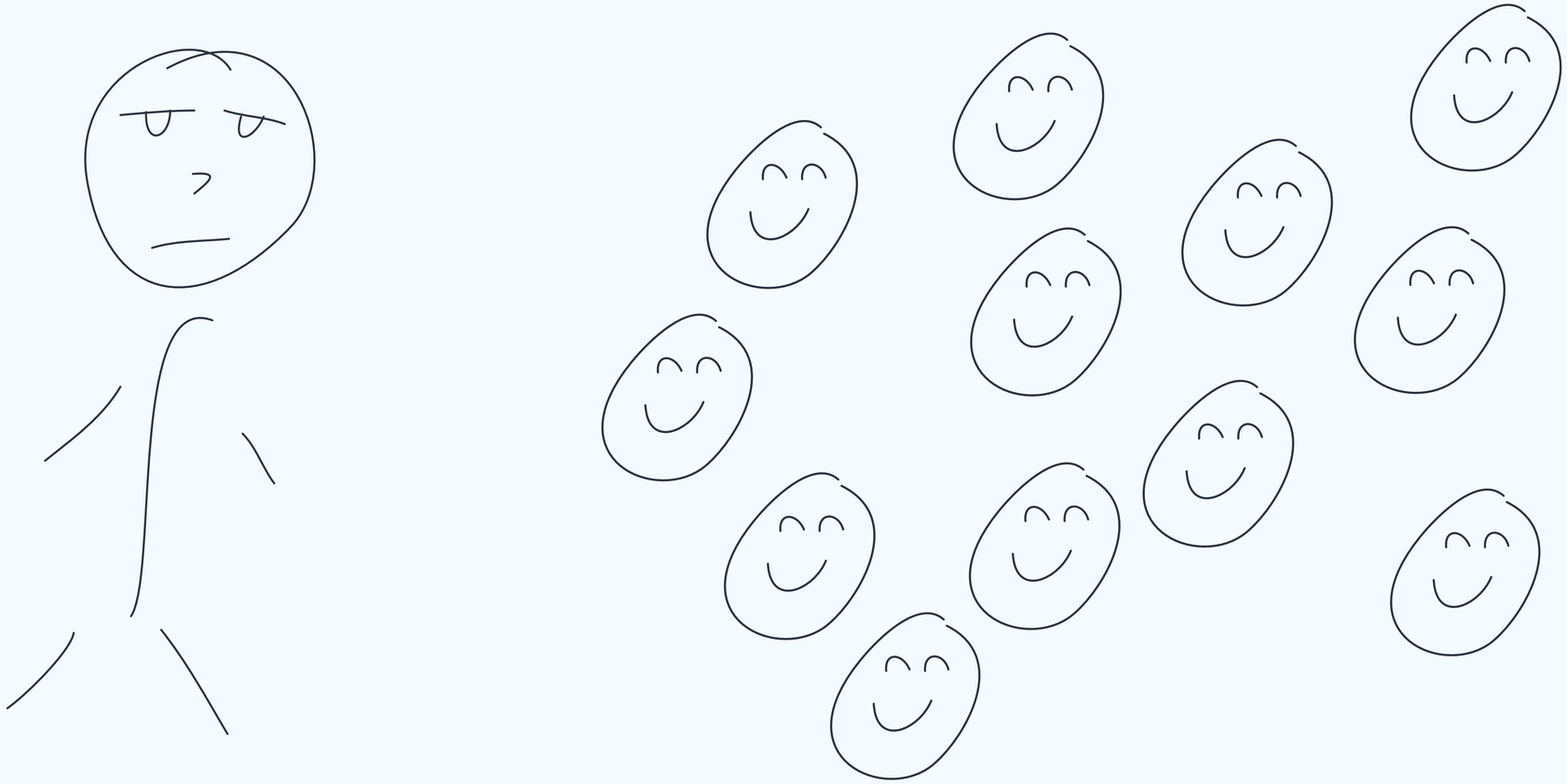
Asymmetric Power



maintainer

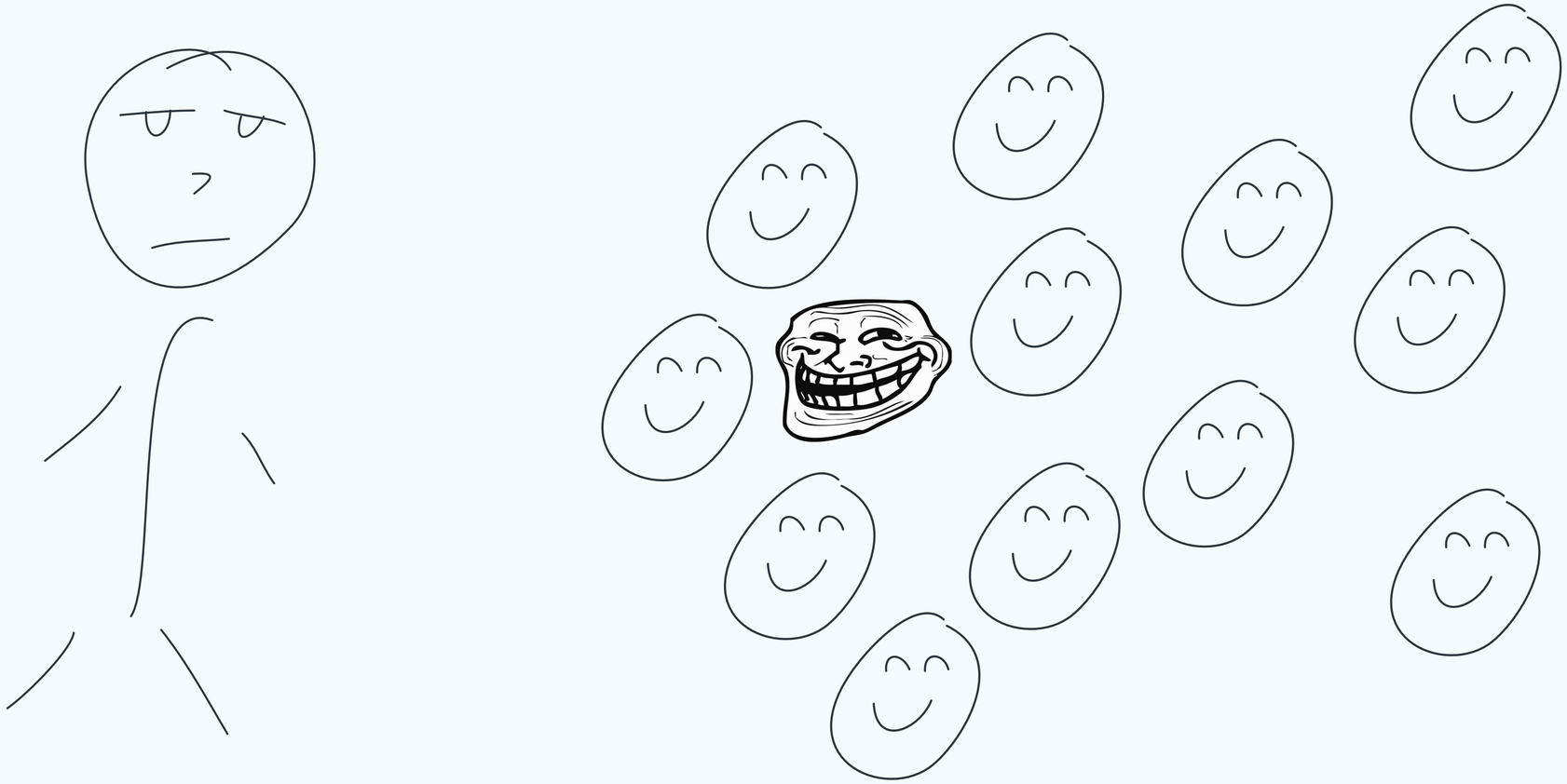
users

Asymmetric Power



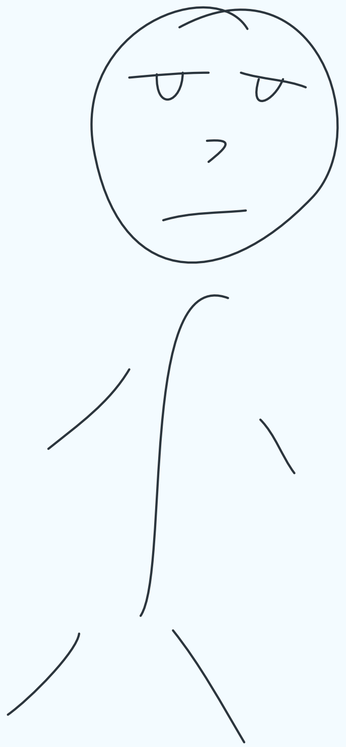
maintainer users

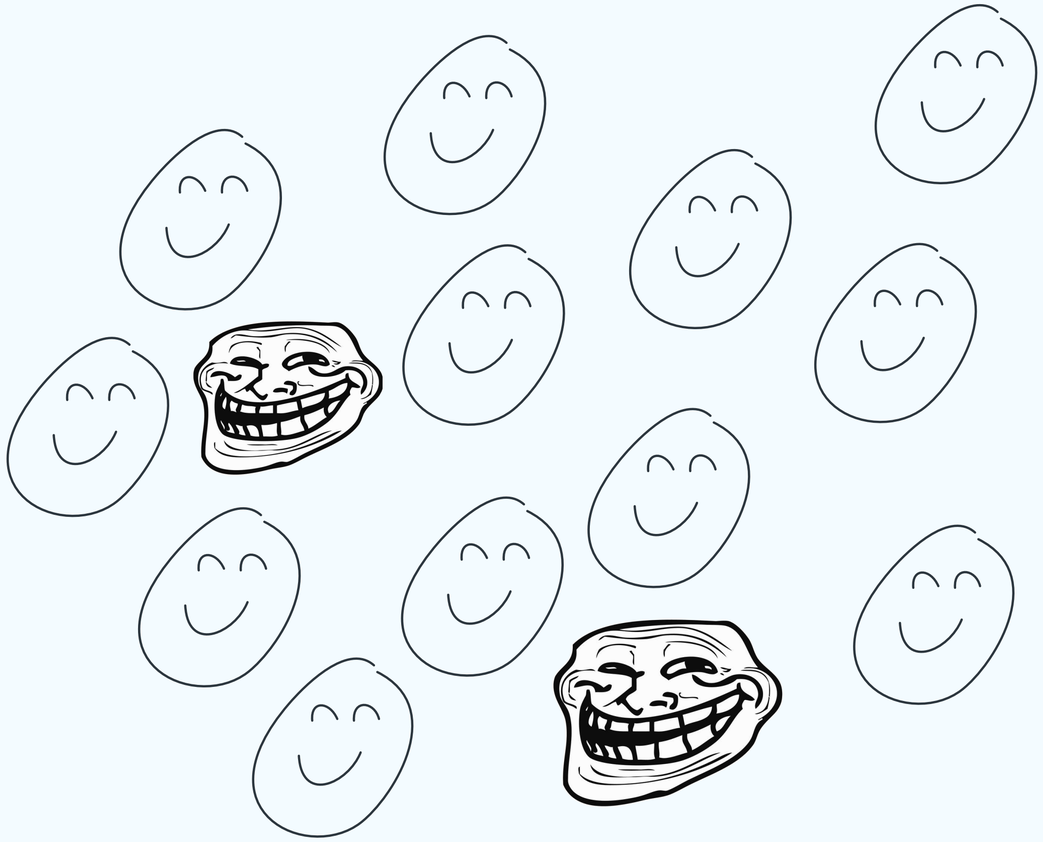
Asymmetric Power



maintainer users

Asymmetric Power

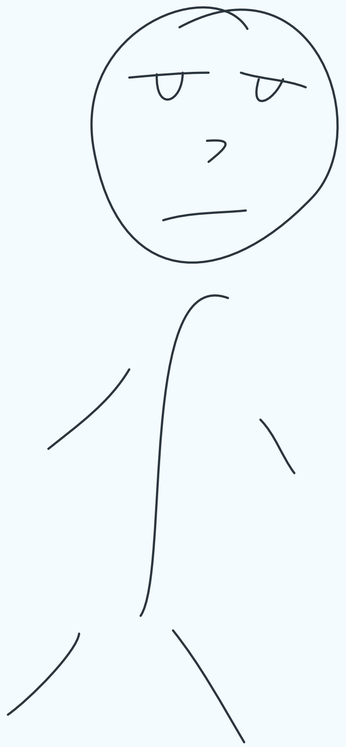


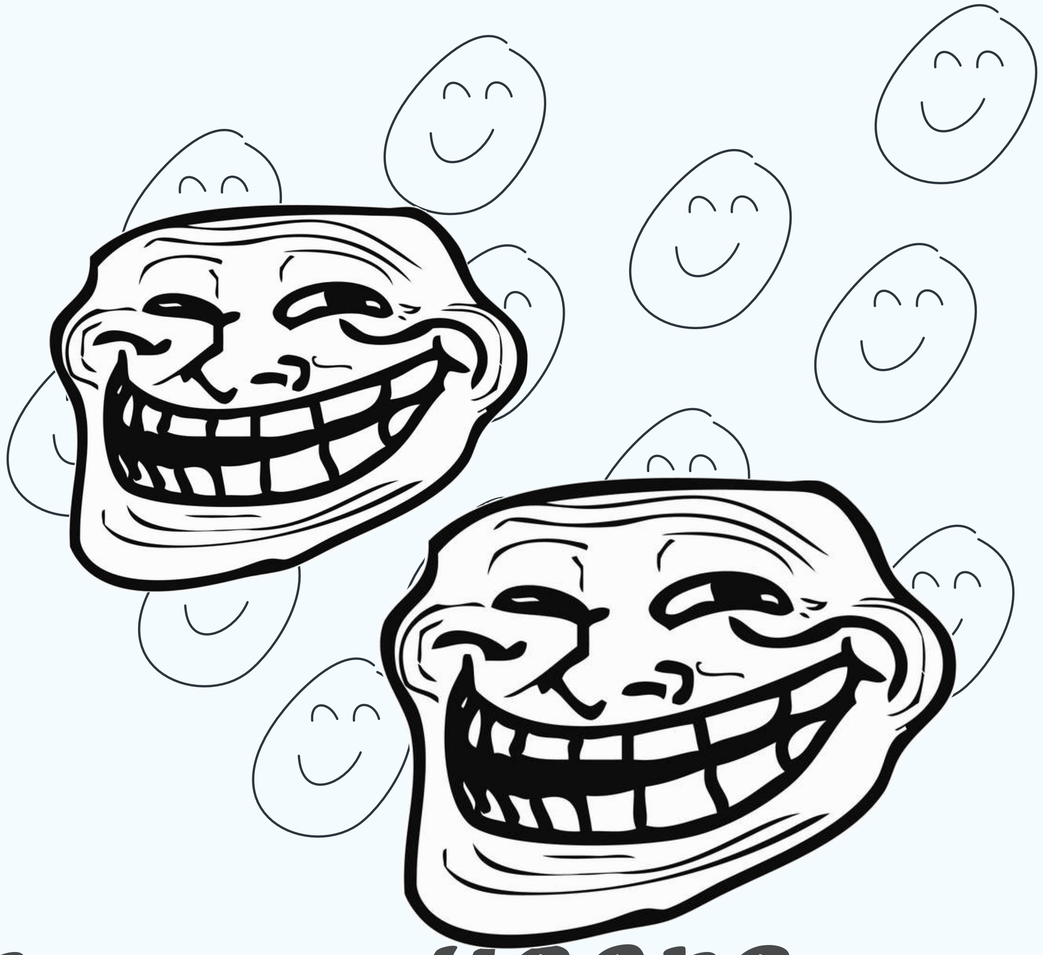


maintainer

users

Asymmetric Power

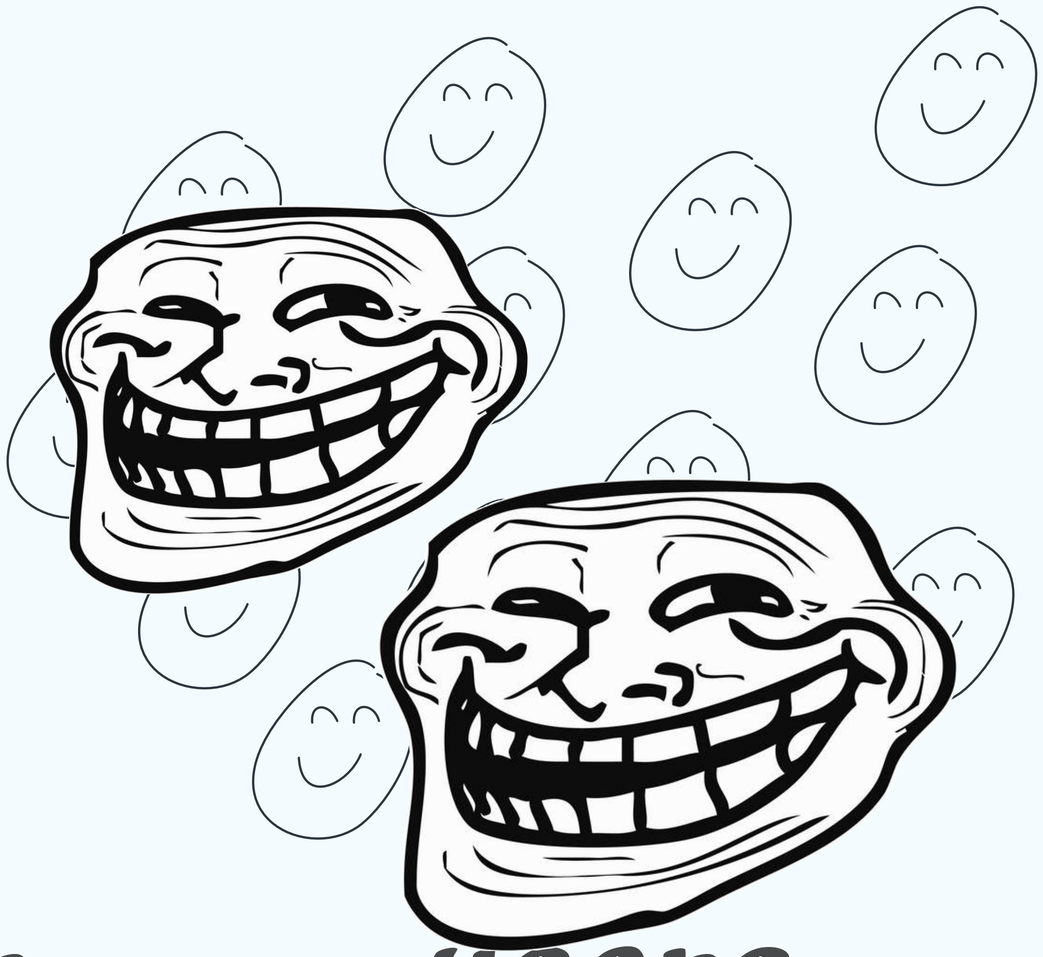




maintainer

users

Asymmetric Power



maintainer

users

Leaving Chef

Posted on August 27, 2014.

Seth Vargo

Ruby, Chef, Rants and Pants

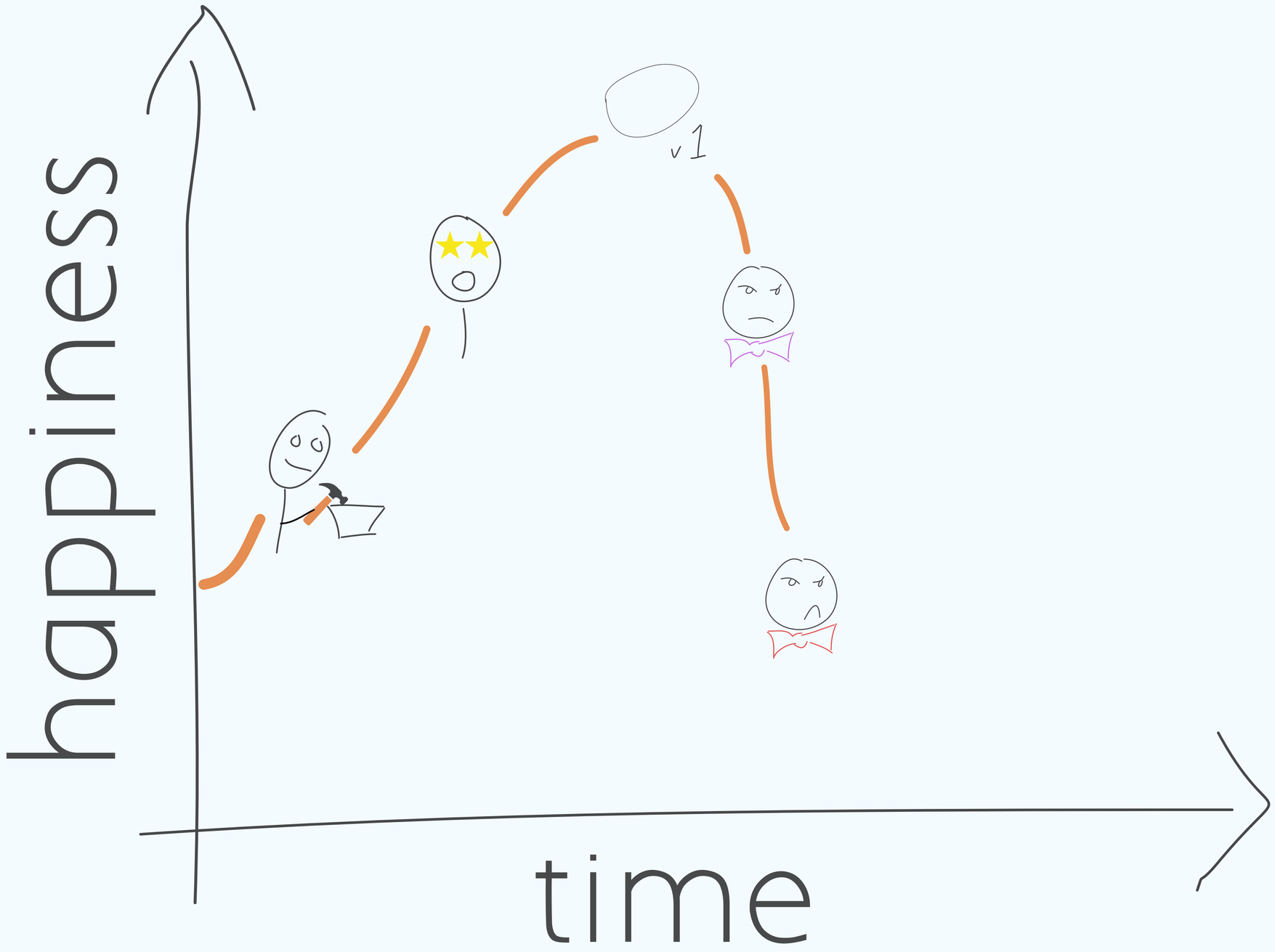
I am leaving Chef.

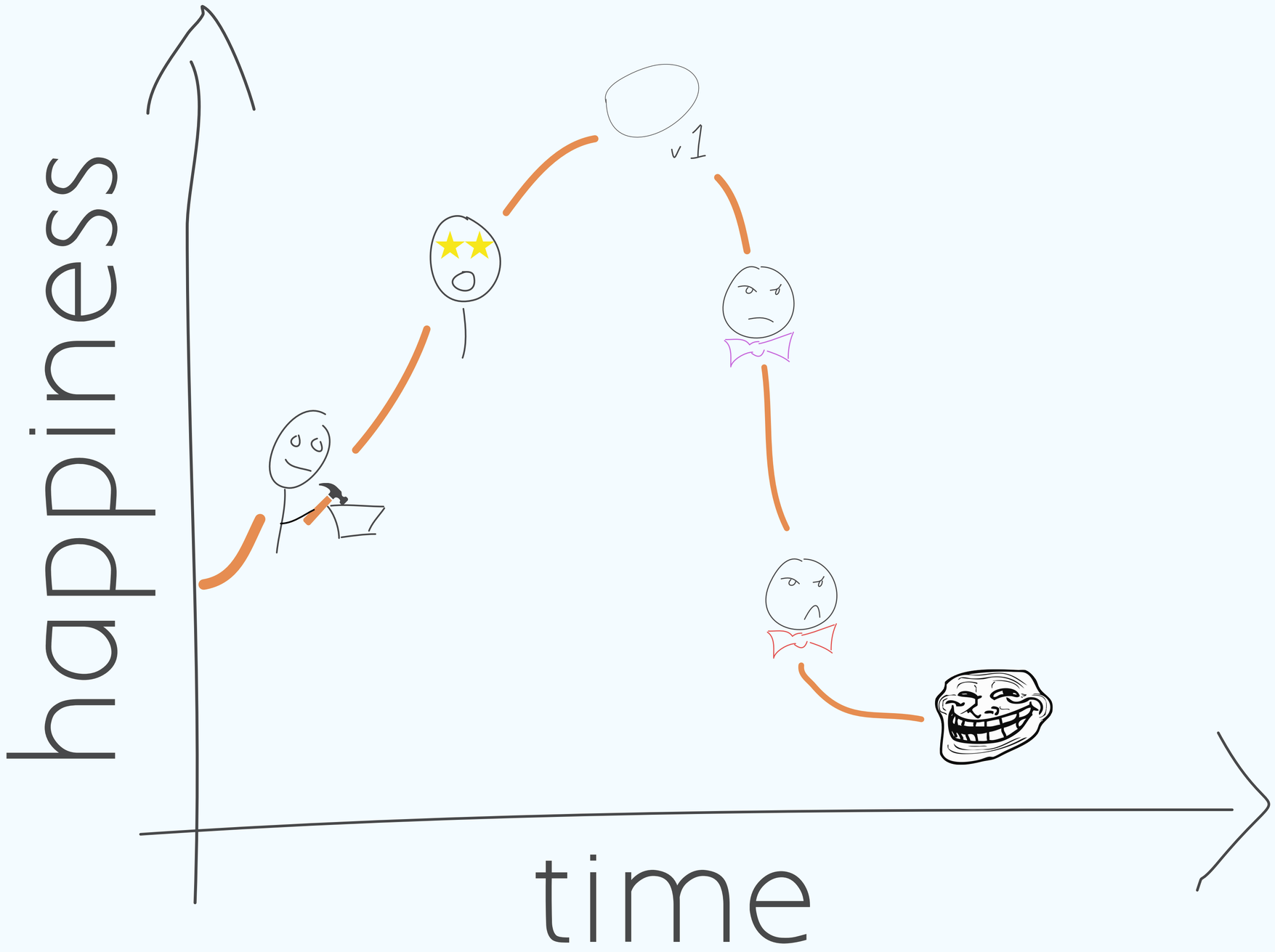
Chef (the company)

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)


happiness
v1
time


happiness
v1
time

Maintainer

Anybody

Maintainer

Anybody

MAINTAINER

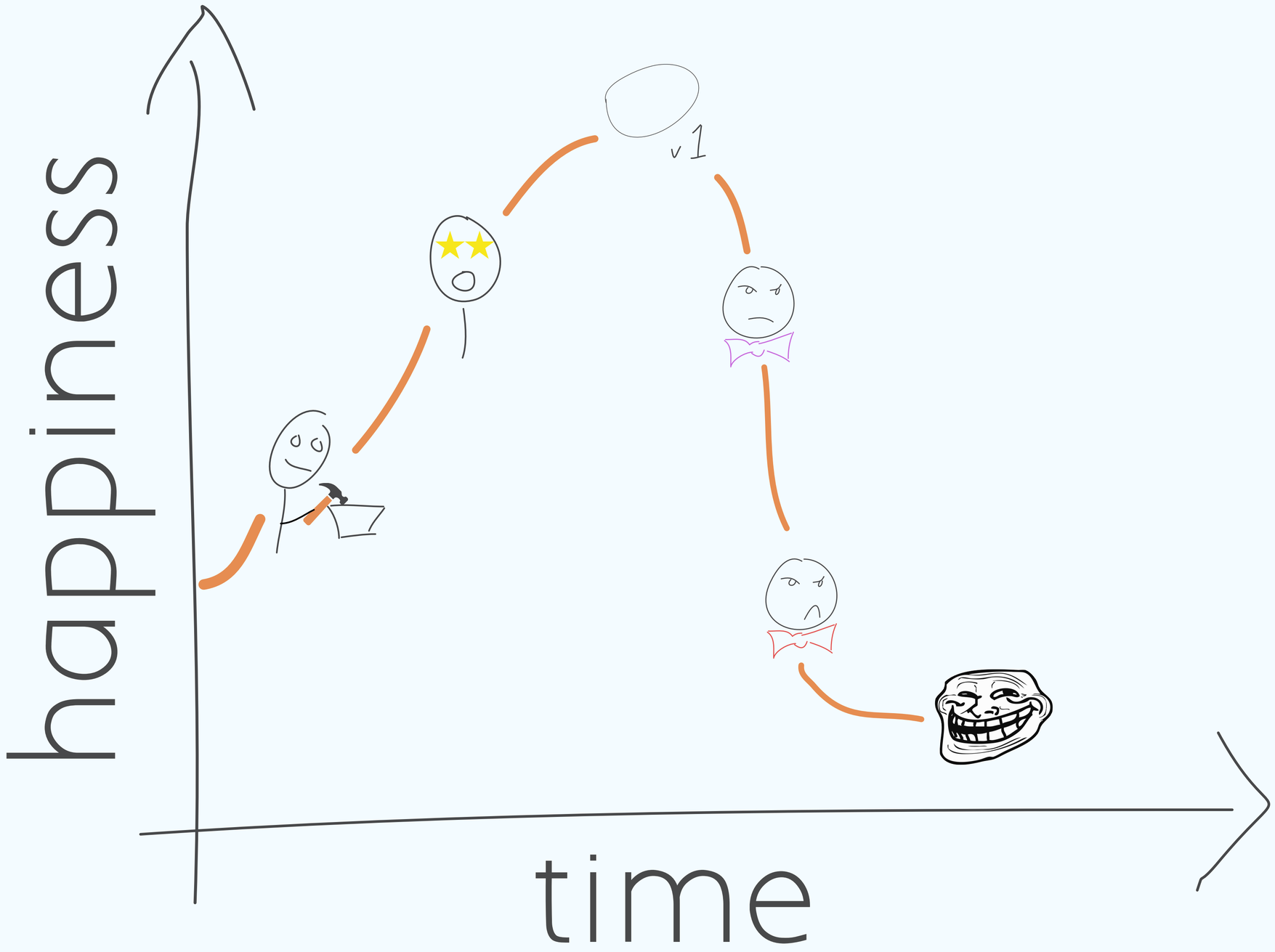
ANYBODY

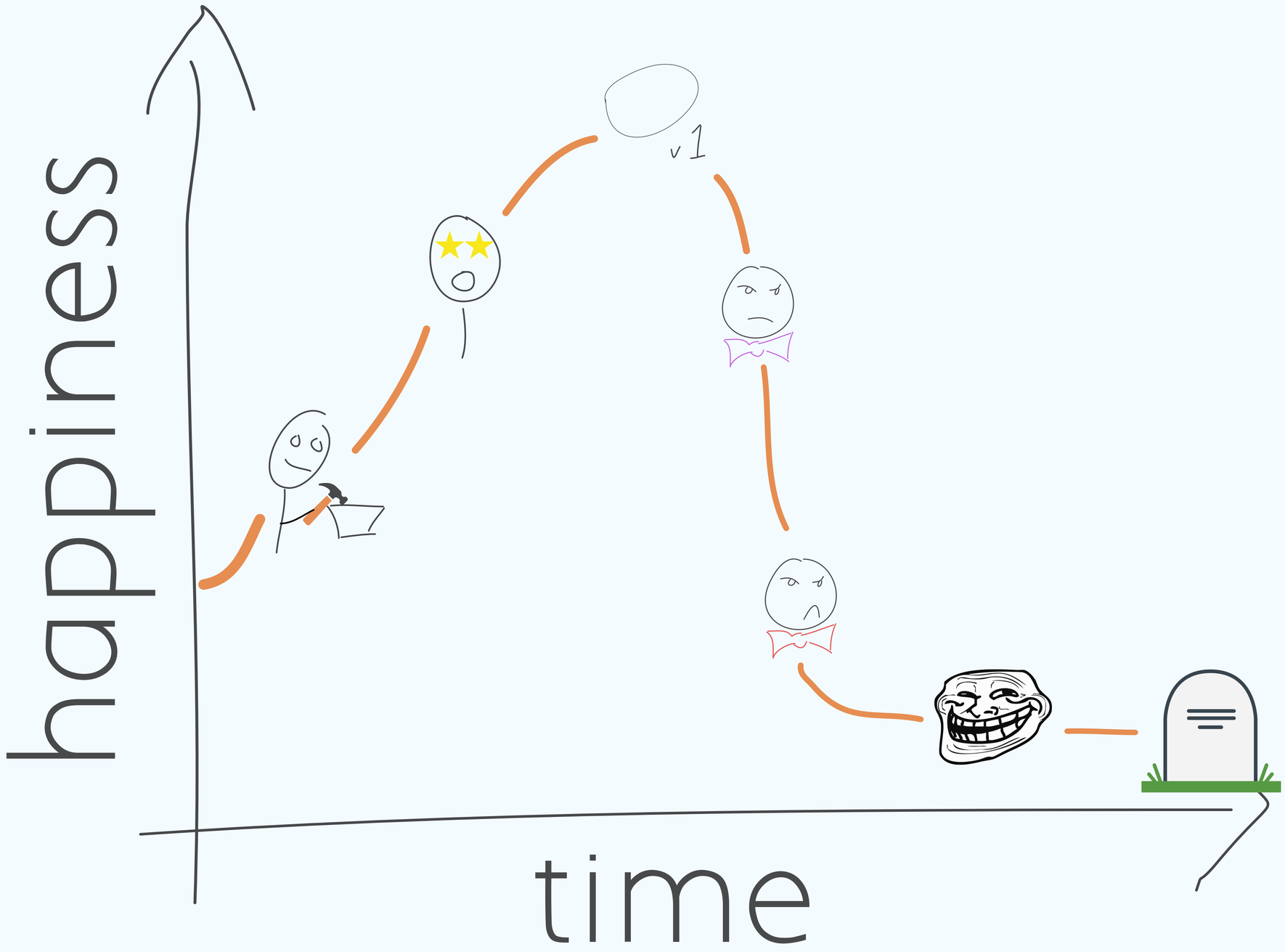
hello?

Maintainer

Anybody

anybody?


happiness
v1
time


happiness
time
v1

No Maintainer is Forever

GILES BOWKETT

THE CRACK OF DOOM ON THE HYDROGEN JUKEBOX

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.

giles
@gilesgoatboy

Follow

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

2:21 PM - 28 Jul 2014

4 RETWEETS 4 FAVORITES

"I wish there was a book about all the ways Rails gets OOP wrong

Where's _why?

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

2.5k 831 0

By Annie Lowrey

Illustration by Charlie Powell.

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.

Slate

FROM NEW YORK MAGAZINE

Brooklyn Coffee Shop Owner Posts Anti-Semitic Rants on Facebook, Instagram

FROM SLATE PLUS

Eleven Questions With *Slate* Web Designer Derreck Johnson

SPONSORED CONTENT

NASA Says We'll Find Extraterrestrial Life in 20 Years. Really?

FROM NEW YORK MAGAZINE

1950 Time Capsule Opened to Reveal Literal Garbage Water

PROGRESS IS EVERYONE'S BUSINESS
See how Goldman Sachs is helping the City of Santa Clara.

What if there were an app for this?

Connect to Services

RubyGems	✓
npm	setup
Github	✓

Your Projects

	Need Help?
lineman.js/lineman	YES NO
searls/jasmine-rails	YES NO
testdouble/present	YES NO

Offer Help

Projects You Use

searls/jasmine-rails Contact

mikeal/request npm Contact

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 npm Remove

bkeepers npm 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 ☁️?

Windows Azure
salesforce
Honeybadger.io
stripe
Firebase
Engine Yard
Parse
amazon web services
PUSHER
IronCache
Iris Couch
Cloud CouchDB
SKYLIGHT
heroku
Postmark
bugsnag
SendGrid
URBAN AIRSHIP
AppSignal
mongoHQ
rackspace
the #1 managed cloud company
Google Cloud Platform

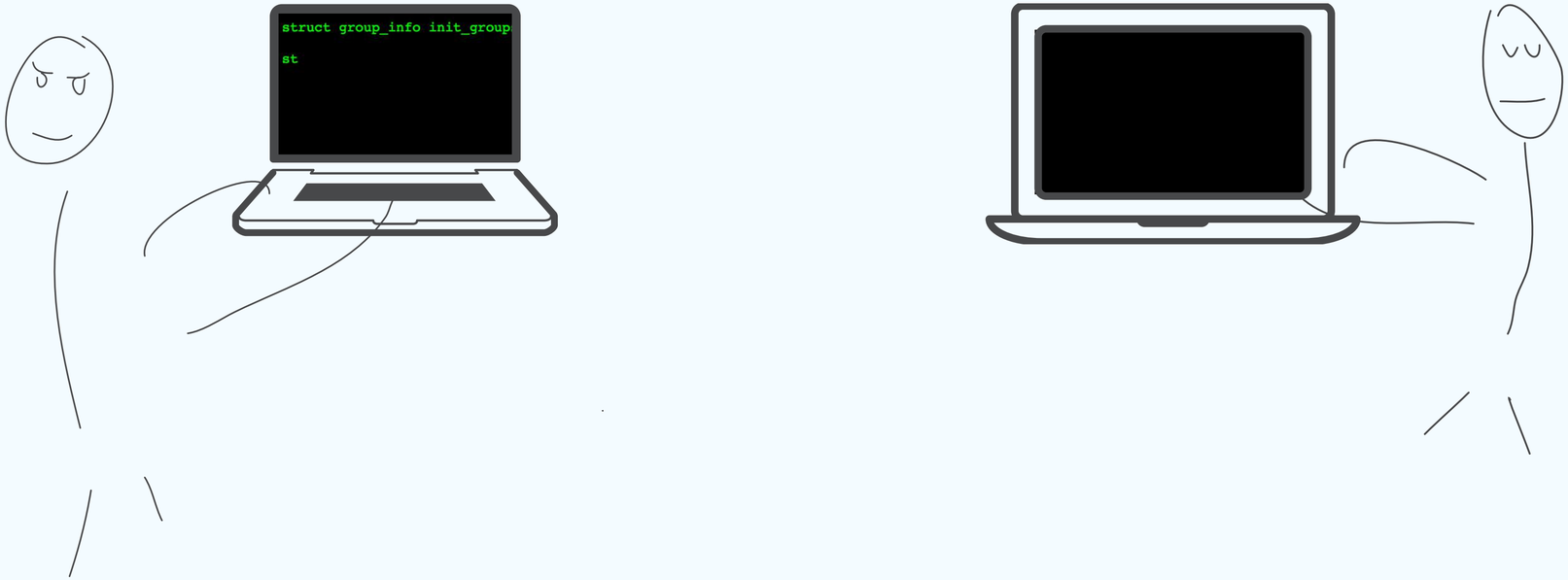
Can any centralized service be open?

I ask, because most open source infrastructure is centralized

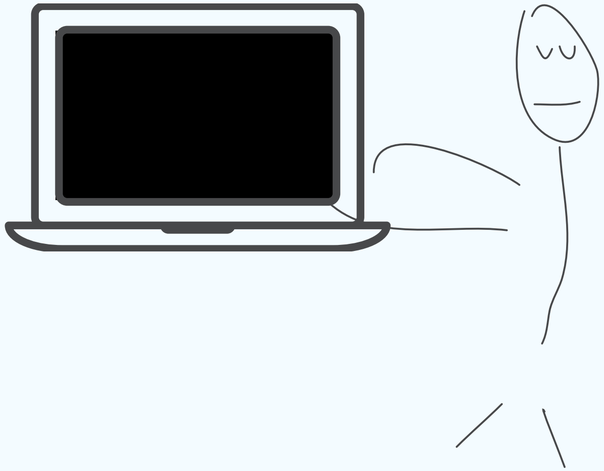
What if RubyGems disappears?

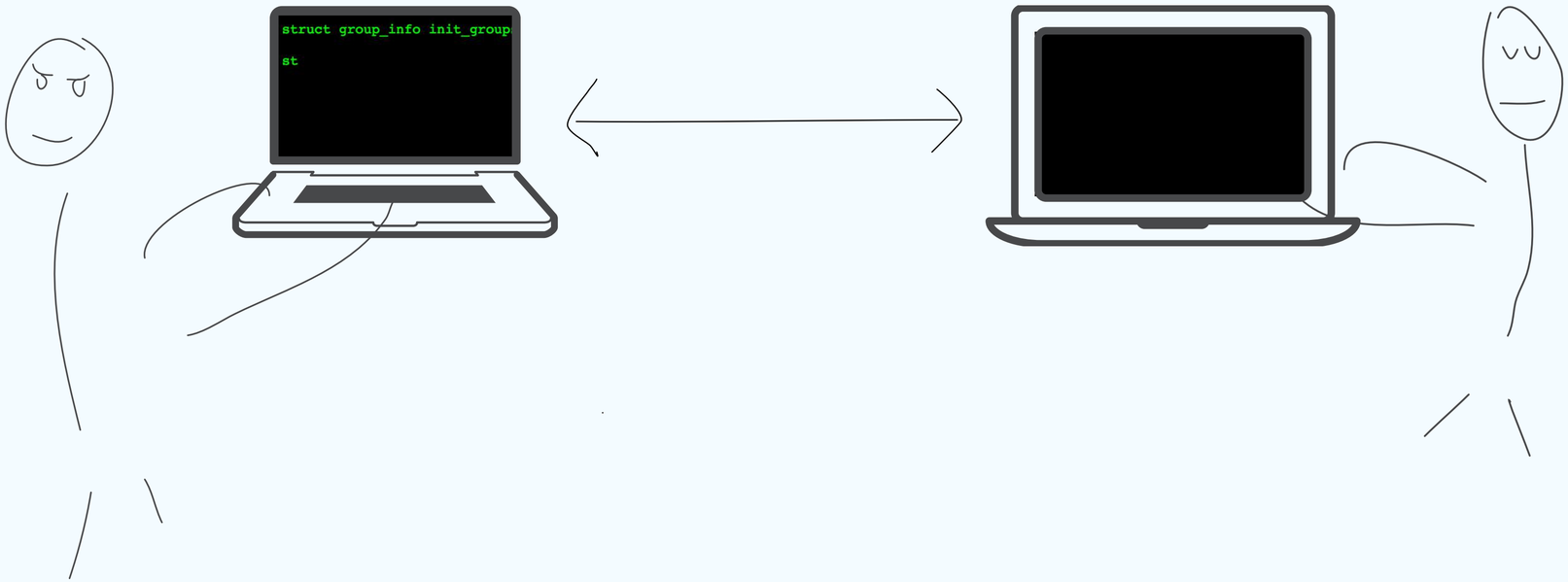
What if npm fails and loses a month of backups?

What might a decentralized dependency service look like?

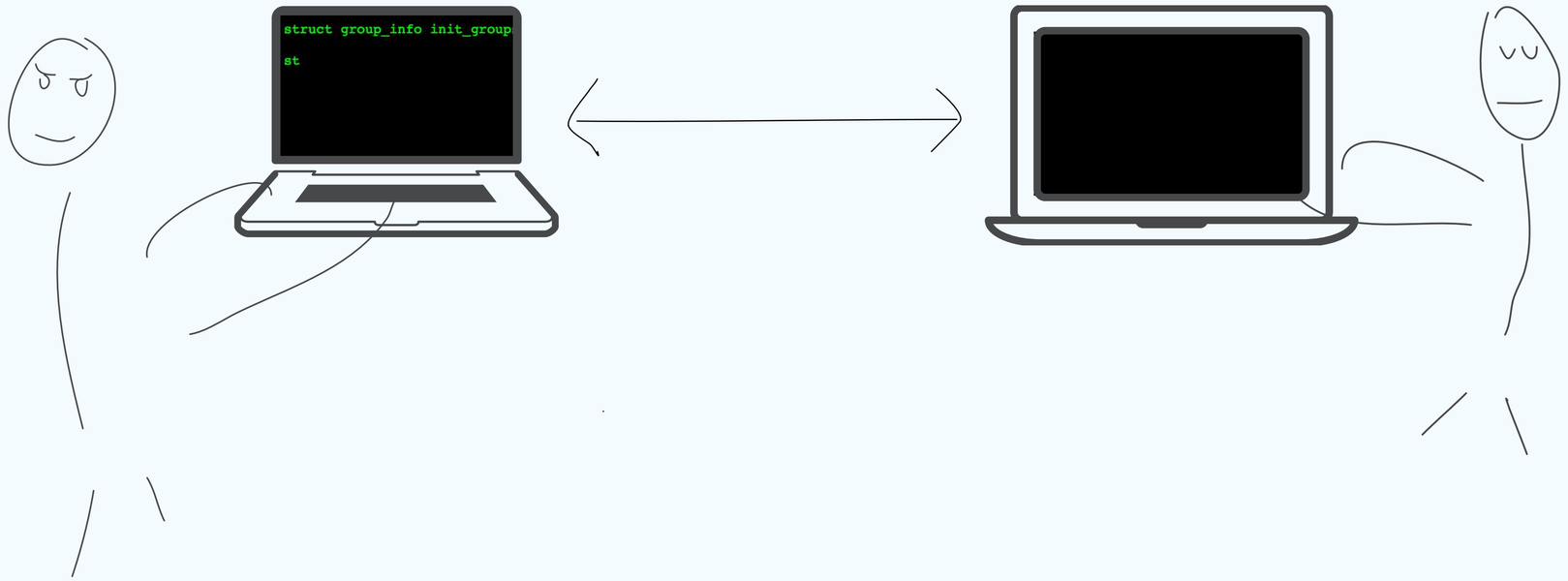

struct group_info init_group
st

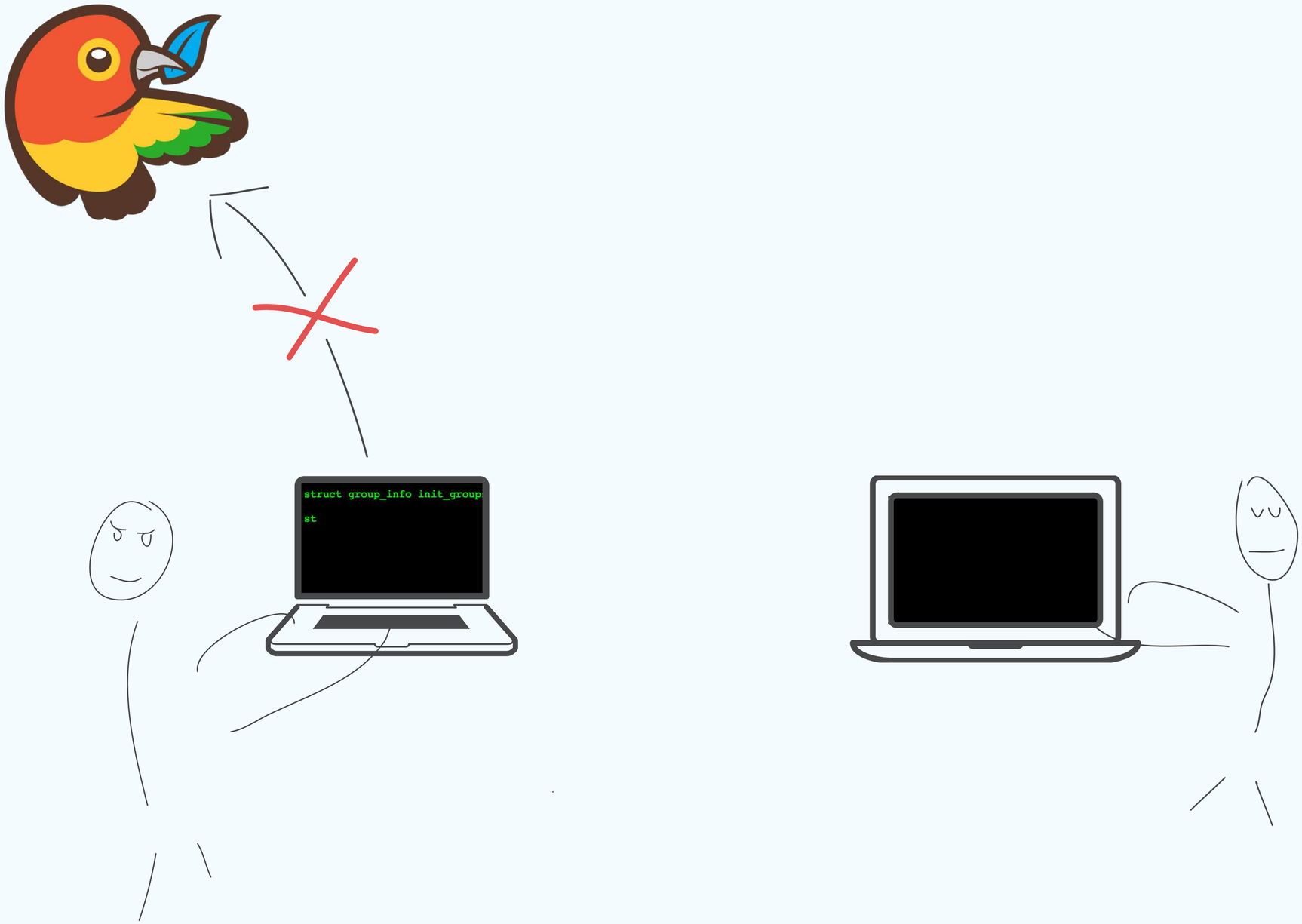
Oh no! Github went down!

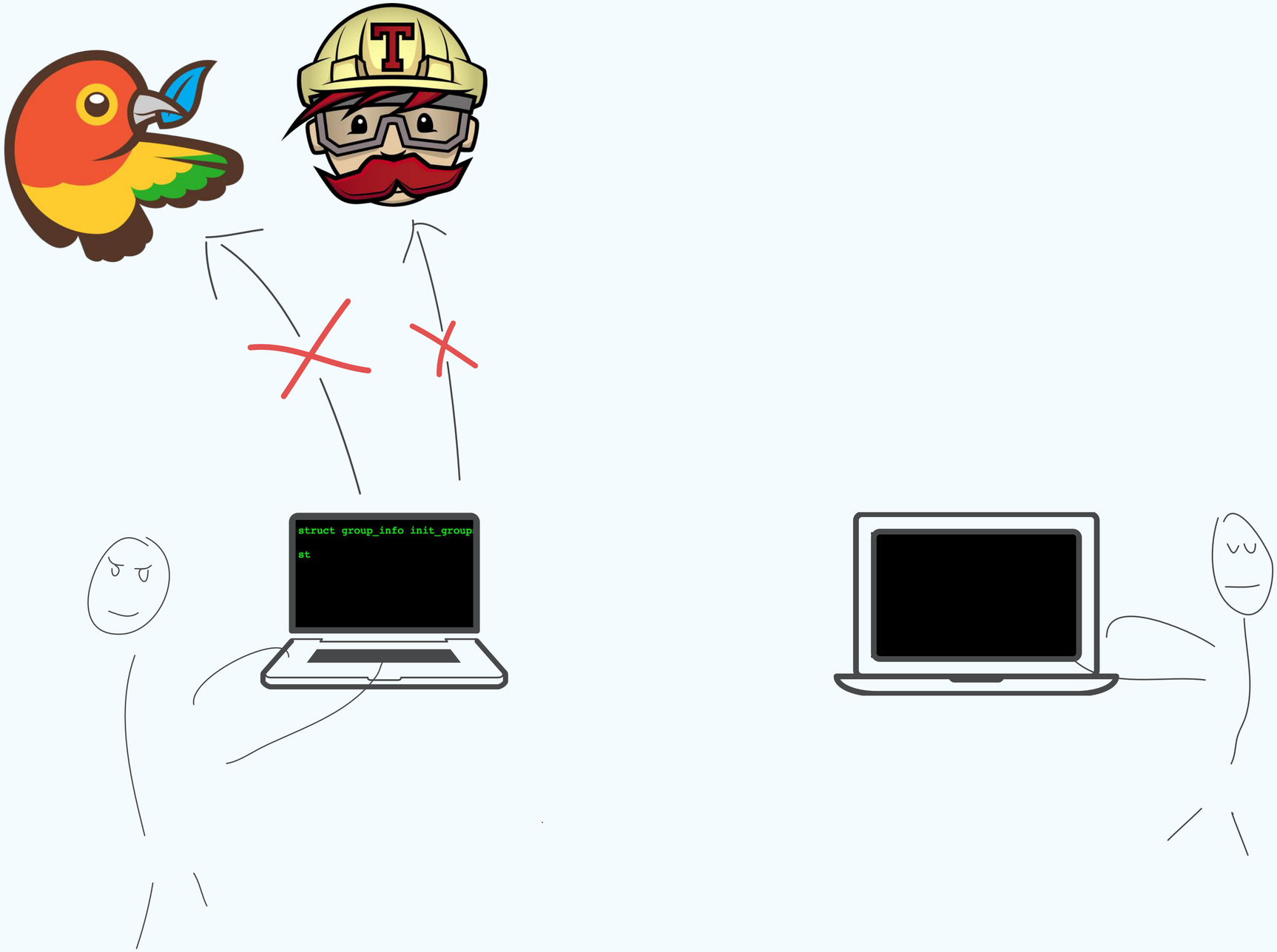


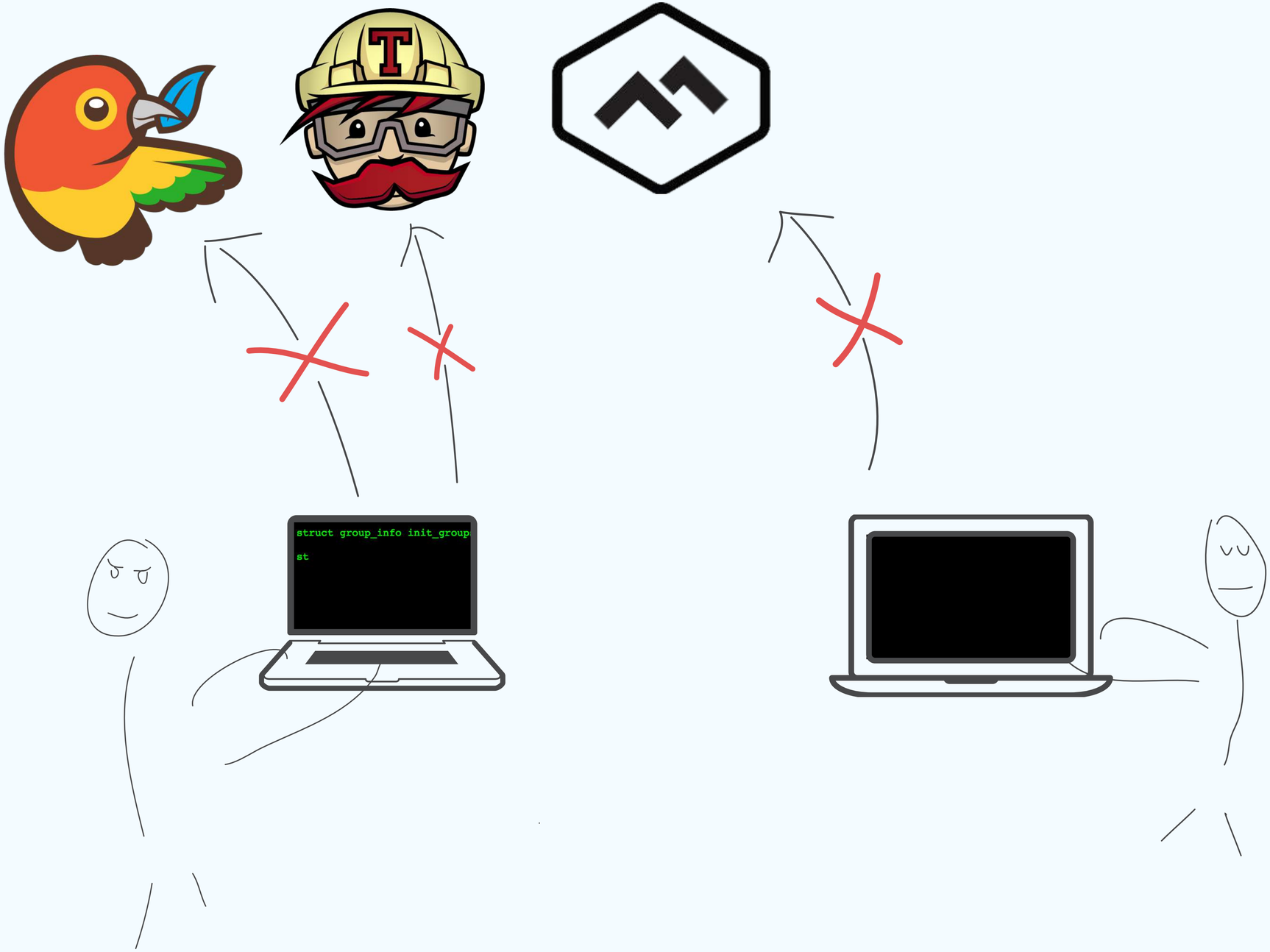

struct group_info init_group
st

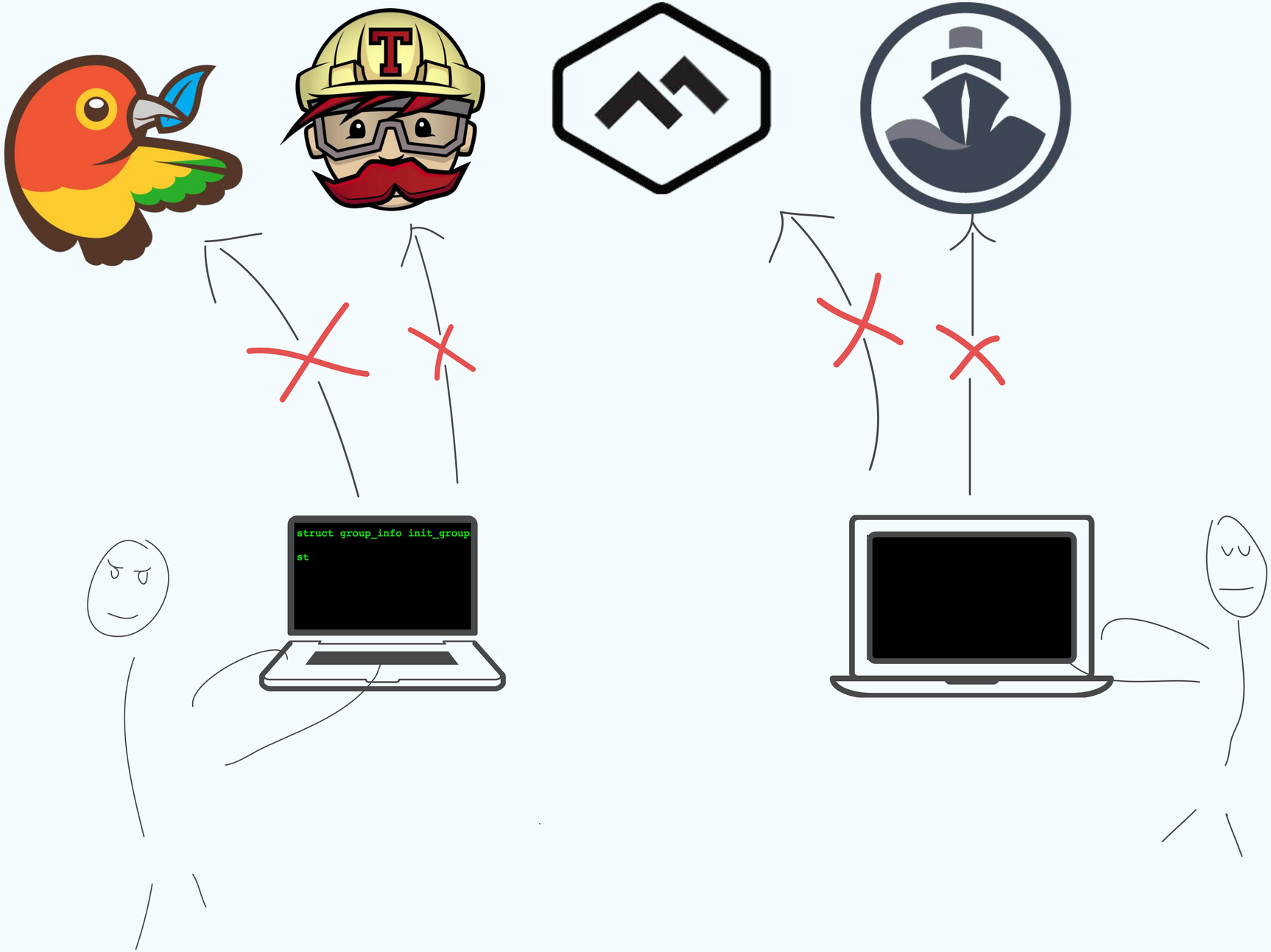
Good thing that's all we use Github for!

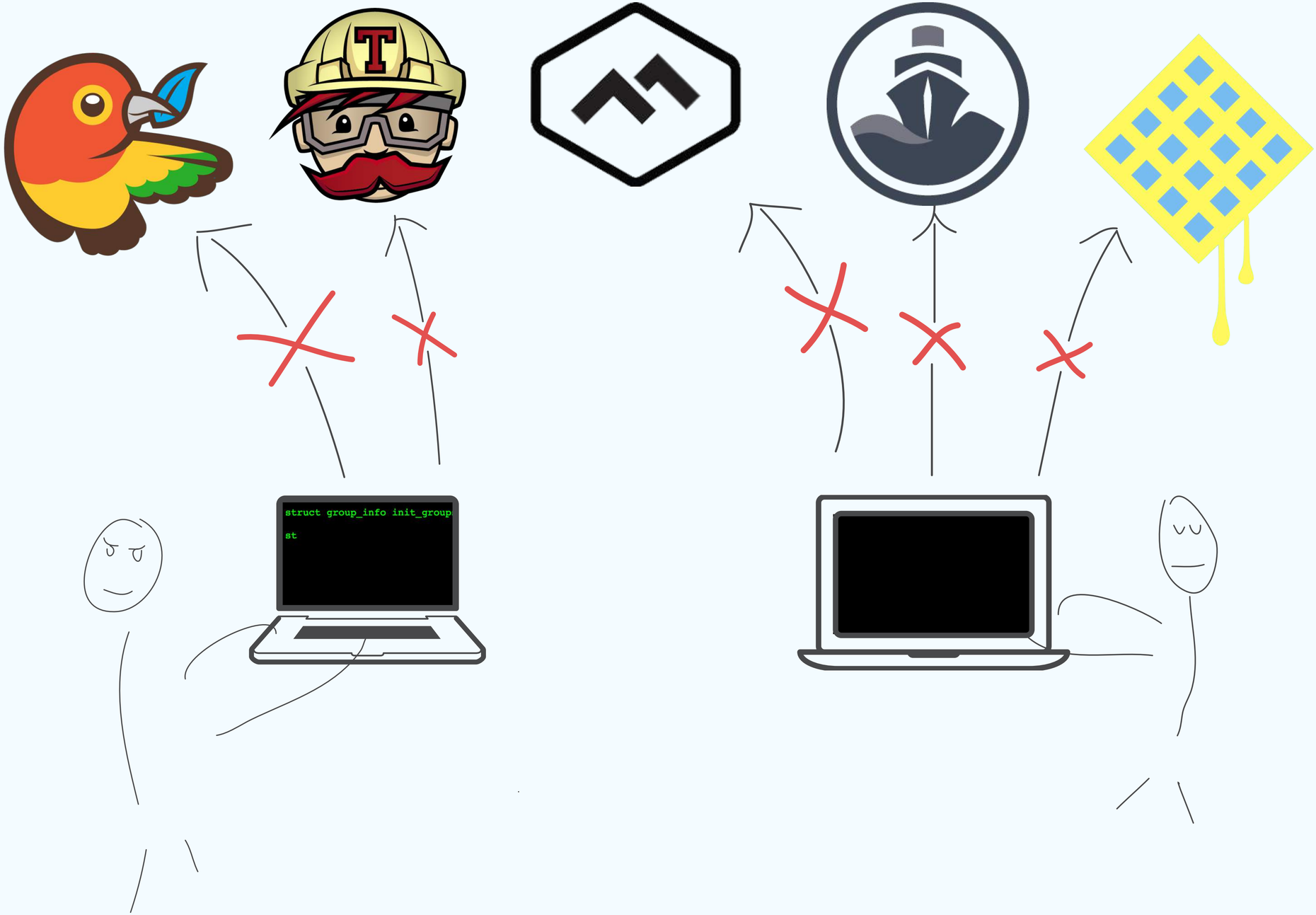



struct group_info init_group
st

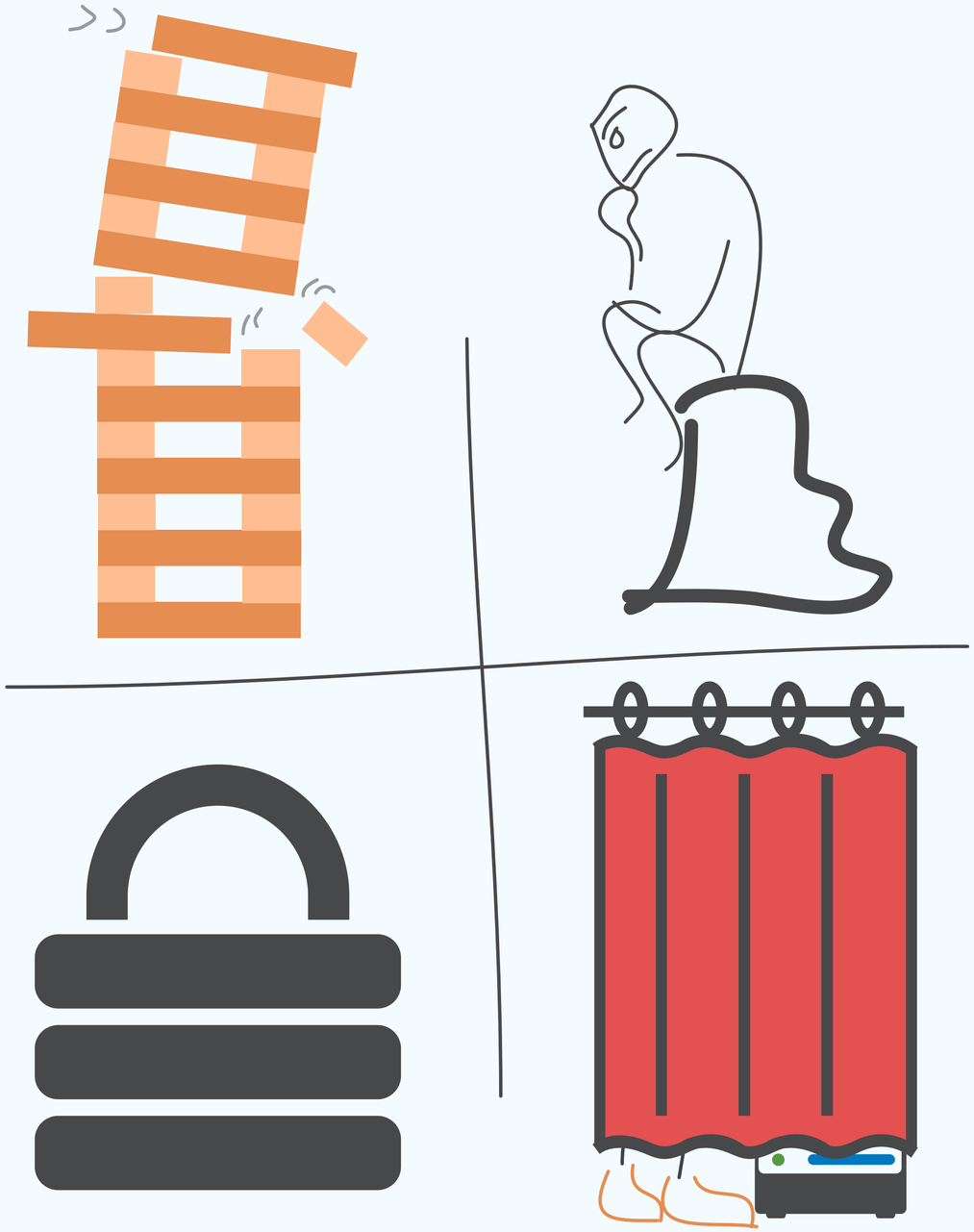

struct group_info init_group
st


struct group_info init_group
st


struct group_info init_group
st

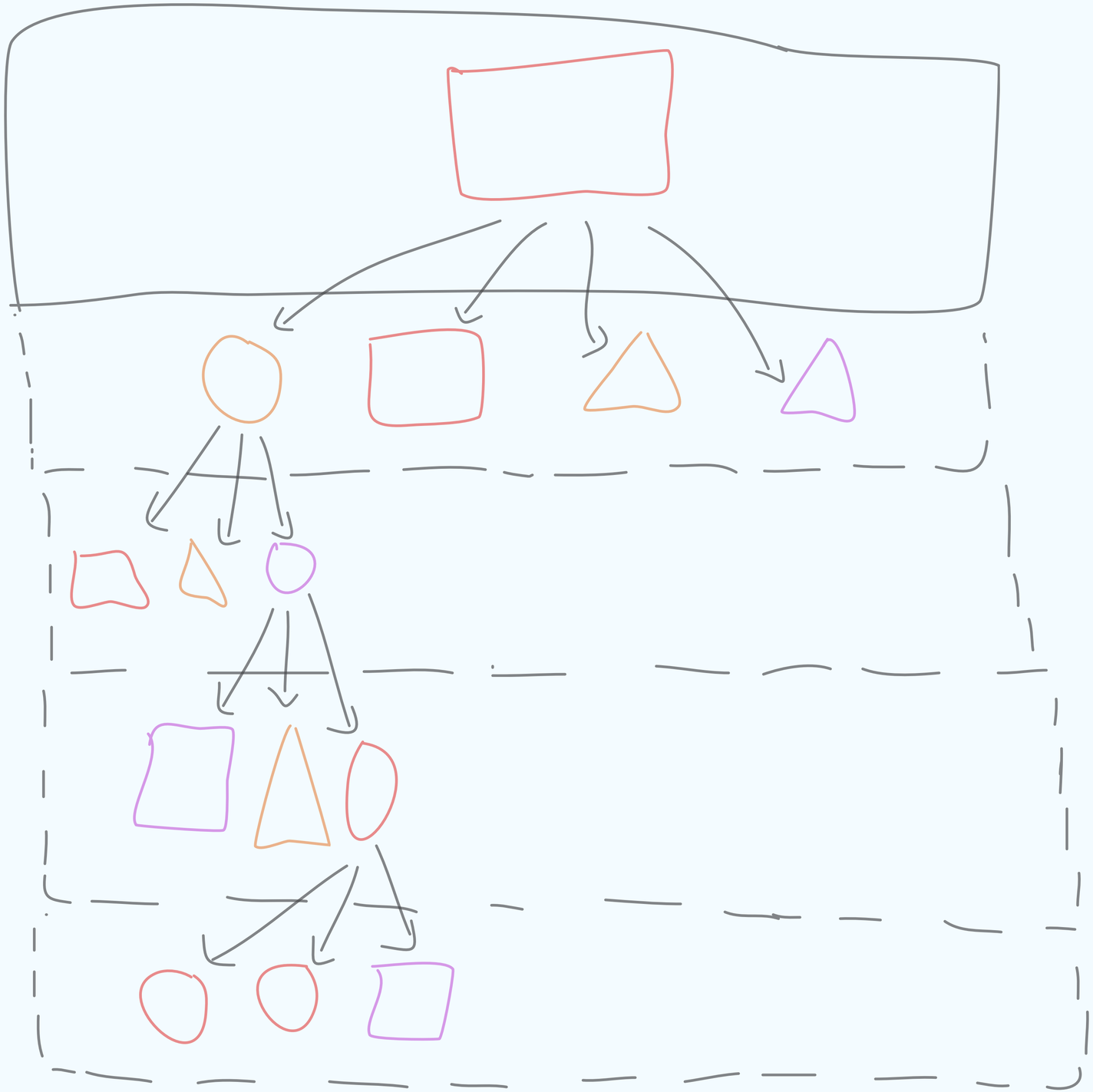

struct group_info init_group
st

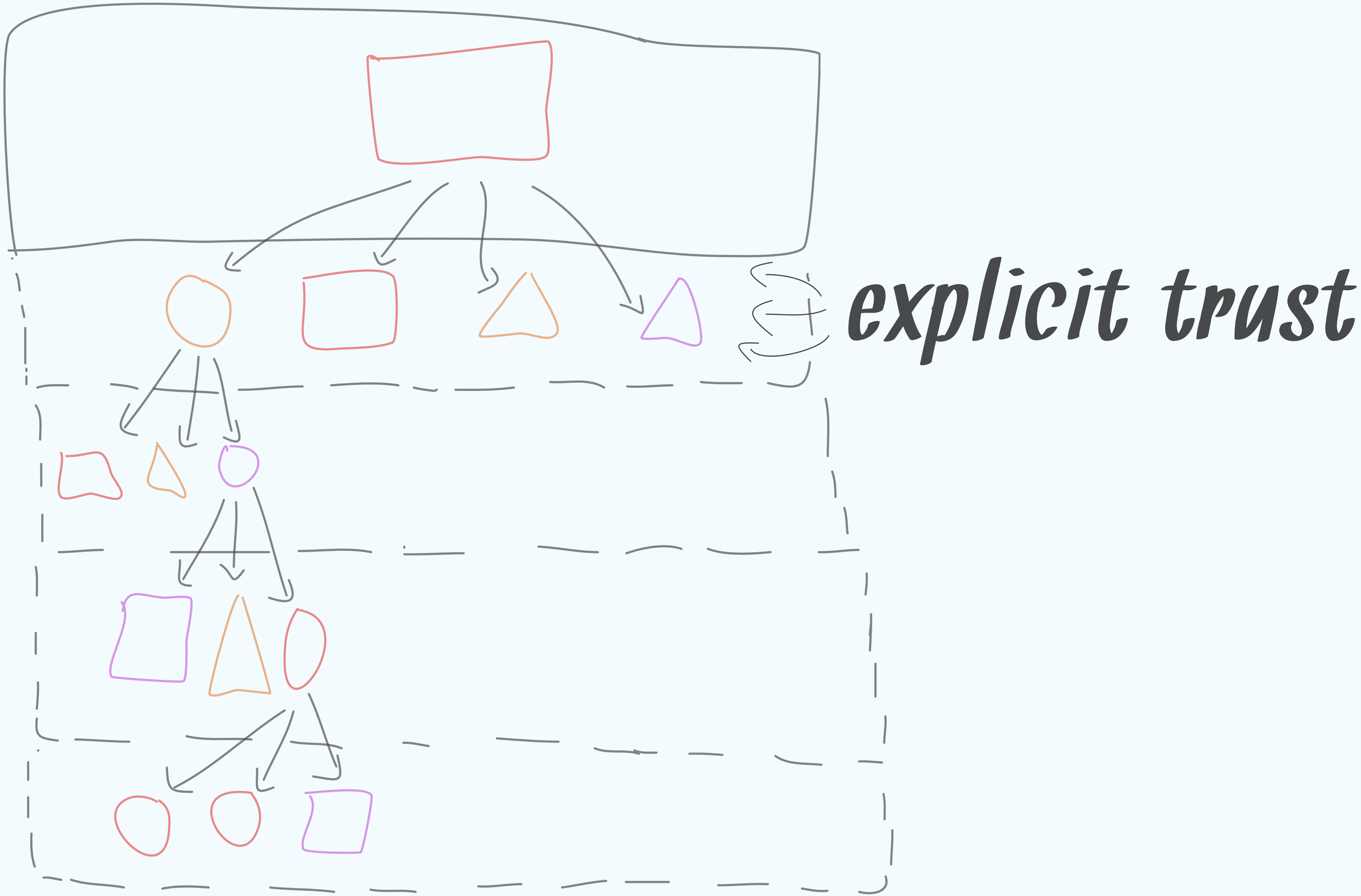
How can we connect numerous services while avoiding single points of failure?

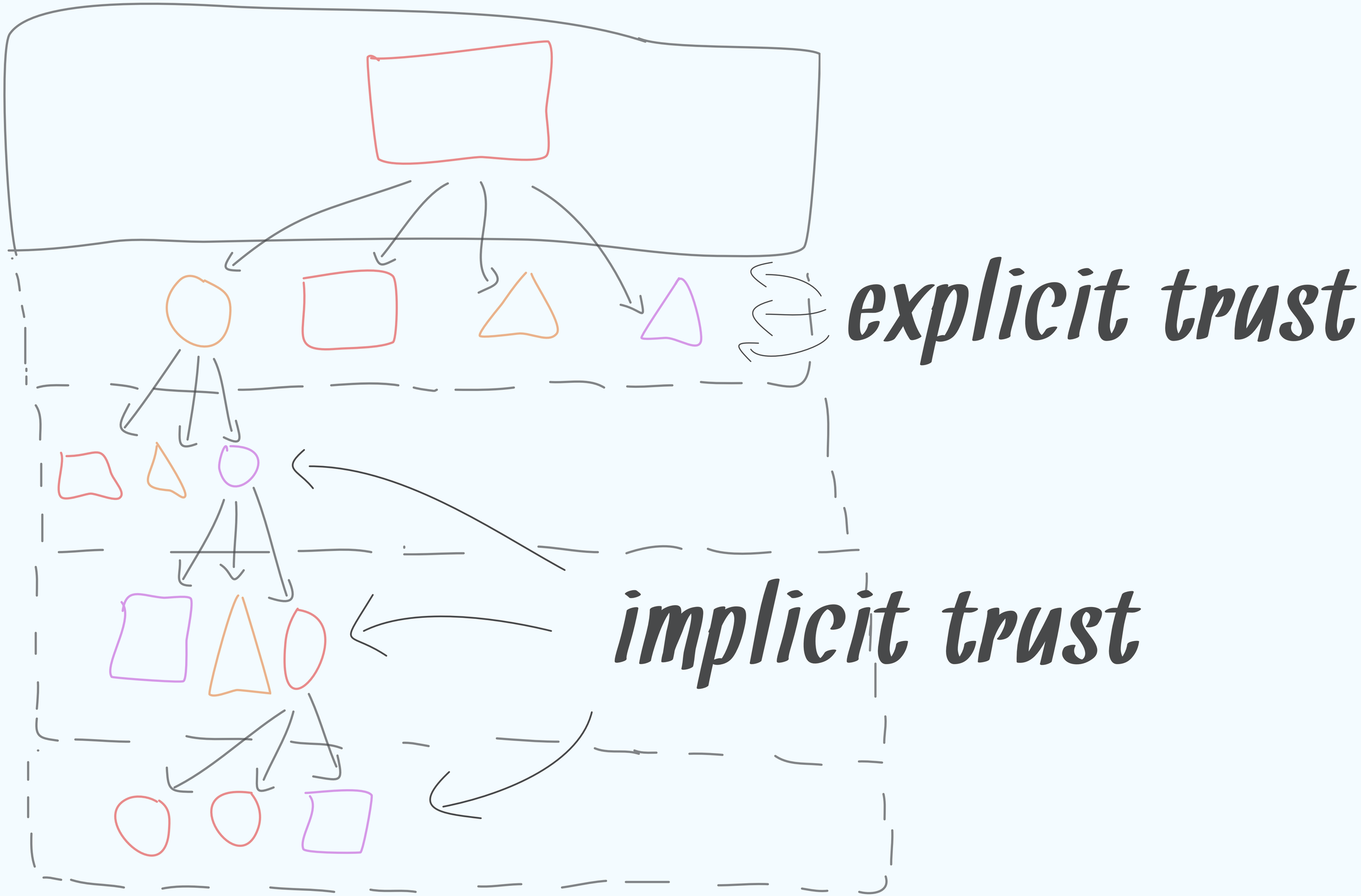


Open Source requires adoption

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

Linus Benedict Torvalds

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 :-(.

Linus Benedict Torvalds

No Catchy Name!

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 :-(.

Linus Benedict Torvalds

No Catchy Name!

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).

Self deprecation!

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 :-(.

Linus Benedict Torvalds

No Catchy Name!

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).

Self deprecation!

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)

Off message!

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 :-(.

Linux wouldn't have made the front page of Hacker News!

THE APACHE ANT PROJECT

- Apache Ant
  - Welcome
  - License
  - News
  - Security Reports
- Documentation
  - Manual
  - Related Projects
  - External Tools and Tasks
  - Resources
  - Frequently Asked Questions
  - Wiki
  - Having Problems?
- Download
  - Binary Distributions
  - Source Distributions
  - Ant Manual
- Contributing
  - Mailing Lists
  - Git Repositories
  - Subversion Repositories
  - Nightly+Continuous Builds
  - Bug Database
  - Security
- Sponsorship
  - Thanks
  - Sponsorship
- Project Management
  - Contributors
  - Apache Ant Mission
  - Project Bylaws
  - Legal

APACHECON DENVER
WESTIN DENVER DOWNTOWN
APRIL 7-9, 2014

Welcome

Migration to Git

May 23d, 2014 - Apache Ant's family of projects migrates to git on https://git-wip-us.apache.org/repos/a

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 extension dependent upon each other. The main known usage of Ant is the build of Java applications. Ant supplies a number of built-in tasks allow 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 re 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 wit 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 1.9, the possibility

THE APACHE ANT PROJECT

- Apache Ant
  - Welcome
  - License
  - News
  - Security Reports
- Documentation
  - Manual
  - Related Projects
  - External Tools and Tasks
  - Resources
  - Frequently Asked Questions
  - Wiki
  - Having Problems?
- Download
  - Binary Distributions
  - Source Distributions
  - Ant Manual
- Contributing
  - Mailing Lists
  - Git Repositories
  - Subversion Repositories
  - Nightly+Continuous Builds
  - Bug Database
  - Security
- Sponsorship
  - Thanks
  - Sponsorship
- Project Management
  - Contributors
  - Apache Ant Mission
  - Project Bylaws
  - Legal

APACHECON DENVER
WESTIN DENVER DOWNTOWN
APRIL 7-9, 2014

Logo!

Welcome

Migration to Git

May 23d, 2014 - Apache Ant's family of projects migrates to git on https://git-wip-us.apache.org/repos/a

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 extension dependent upon each other. The main known usage of Ant is the build of Java applications. Ant supplies a number of built-in tasks allow 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 re 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 wit 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 1.9, the possibility

Apache > Ant.apache

THE APACHE ANT PROJECT

Home | Projects

- Apache Ant
  - Welcome
  - License
  - News
  - Security Reports
- Documentation
  - Manual
  - Related Projects
  - External Tools and Tasks
  - Resources
  - Frequently Asked Questions
  - Wiki
  - Having Problems?
- Download
  - Binary Distributions
  - Source Distributions
  - Ant Manual
- Contributing
  - Mailing Lists
  - Git Repositories
  - Subversion Repositories
  - Nightly+Continuous Builds
  - Bug Database
  - Security
- Sponsorship
  - Thanks
  - Sponsorship
- Project Management
  - Contributors
  - Apache Ant Mission
  - Project Bylaws
  - Legal

APACHECON DENVER APRIL 7-9, 2014

<APACHE ANT>

the Apache Ant si

logo!

Welcome

Migration to Git

May 23d, 2014 - Apache Ant's family of projects migrates to git on https://git-wip-us.apache.org/repos/a

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™

Web site stuff!

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 allow 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 re 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 wit 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 1.9, the possibility

Apache > Ant.apache

THE APACHE ANT PROJECT

Home Projects

- Apache Ant
  - Welcome
  - License
  - News
  - Security Reports
- Documentation
  - Manual
  - Related Projects
  - External Tools and Tasks
  - Resources
  - Frequently Asked Questions
  - Wiki
  - Having Problems?
- Download
  - Binary Distributions
  - Source Distributions
  - Ant Manual
- Contributing
  - Mailing Lists
  - Git Repositories
  - Subversion Repositories
  - Nightly+Continuous Builds
  - Bug Database
  - Security
- Sponsorship
  - Thanks
  - Sponsorship
- Project Management
  - Contributors
  - Apache Ant Mission
  - Project Bylaws
  - Legal

APACHECON DENVER APRIL 7-9, 2014

<APACHE ANT>

the Apache Ant si

Welcome

Migration to Git

May 23d, 2014 - Apache Ant's family of projects migrates to git on https://git-wip-us.apache.org/repos/a

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

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 extension dependent upon each other. The main known usage of Ant is the build of Java applications. Ant supplies a number of built-in tasks allow 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 re 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 wit 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 1.9, the possibility

logo!

Foundation Affiliation!

Web site stuff!

More dependencies means

less time to vet them

RubyMoney - Money-Rails

ENDORSE 17

gem version 0.12.0 | build passing | dependencies out-of-date | code climate 3.3 | license MIT

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:

```
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.

RubyMoney - Money-Rails

ENDORSE 17

gem version 0.12.0 | build passing | dependencies out-of-date | code climate 3.3 | license MIT

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.

Quick intro!

Installation

Add this line to your application's Gemfile:

```
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.

RubyMoney - Money-Rails

ENDORSE 17

gem version 0.12.0 | build passing | dependencies out-of-date | code climate 3.3 | license MIT

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.

Quick intro!

Installation

Add this line to your application's Gemfile:

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

And then execute:

```
$ bundle
```

Or install it yourself using:

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

Easy steps!

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.

RubyMoney - Money-Rails

ENDORSE 17

gem version 0.12.0 | build passing | dependencies out-of-date | code climate 3.3 | license MIT

Introduction

This library provides integration of the money gem with Rails.

Use monetize to easily wrap fields you want to be backed by Money objects and helpers provided by the money gem.

Currently, the 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:

```
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.

Mostly green badges!

Quick intro!

Easy steps!

It's an arms race 🚀

YEOMAN

Using Yeoman | Discovering generators | Creating a generator | Blog | Contributing

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.

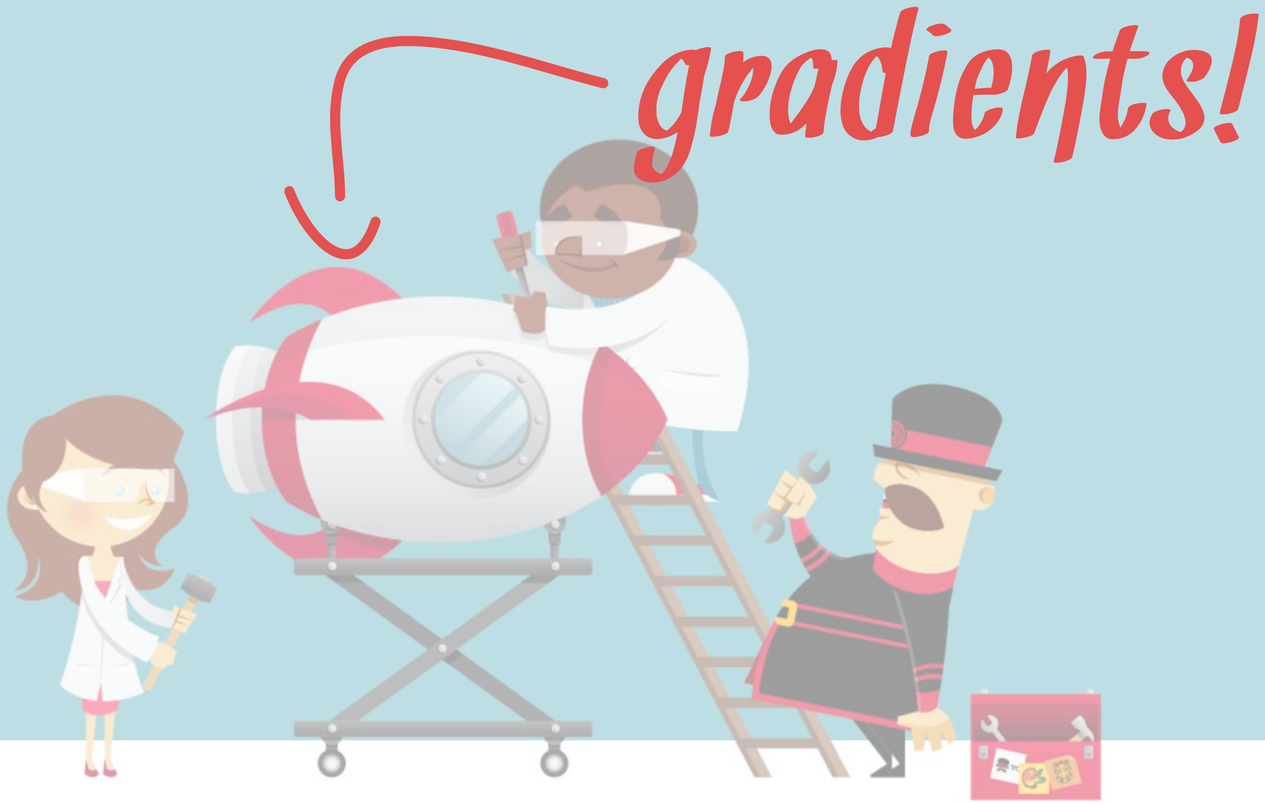
One-line install using npm:

```
npm install -g yo
```

YEOMAN

Using Yeoman | Discovering generators | Creating a generator | Blog | Contributing

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:

```
npm install -g yo
```

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:

```
npm install -g yo
```

YEOMAN

Using Yeoman | Discovering generators | Creating a generator | Blog | Contributing

THE WEB'S SCAFFOLDING TOOL FOR MODERN WEBAPPS

gradients!

Authoritative Tagline!

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:

```
npm install -g yo
```

One liner!

YEOMAN

Using Yeoman | Discovering generators | Creating a generator | Blog | Contributing

THE WEB'S SCAFFOLDING TOOL FOR MODERN WEBAPPS

gradients!

Authoritative Tagline!

1000 things!

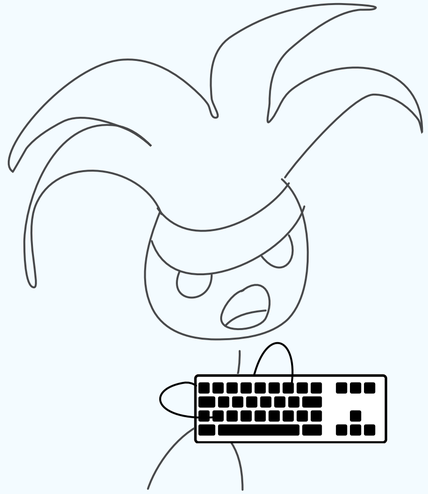
Get started and then find a generator for your webapp. Generators are available for Angular, Backbone, Ember and over 1000+ other projects. Read the Yeoman Monthly Digest for our latest picks.

One-line install using npm:

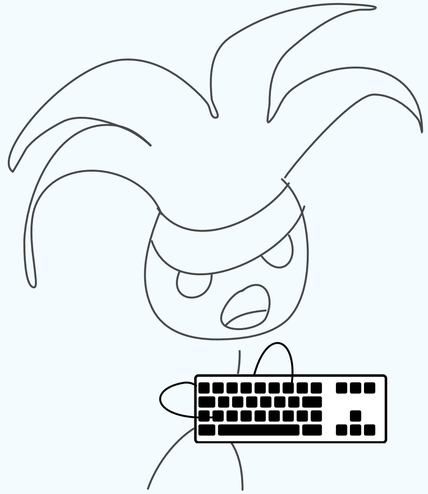
```
npm install -g yo
```

One liner!

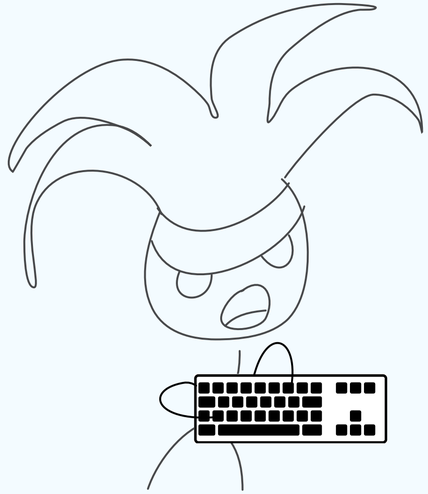
Optimized for adoption



Optimized for adoption

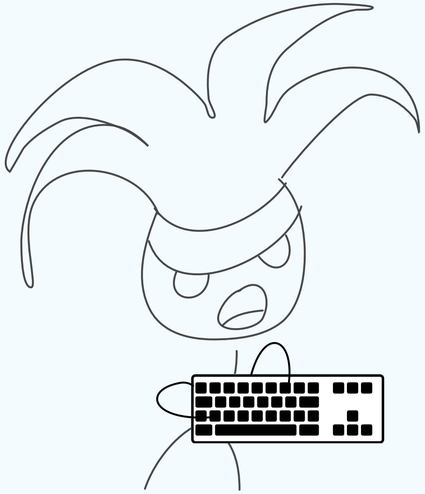


Optimized for adoption



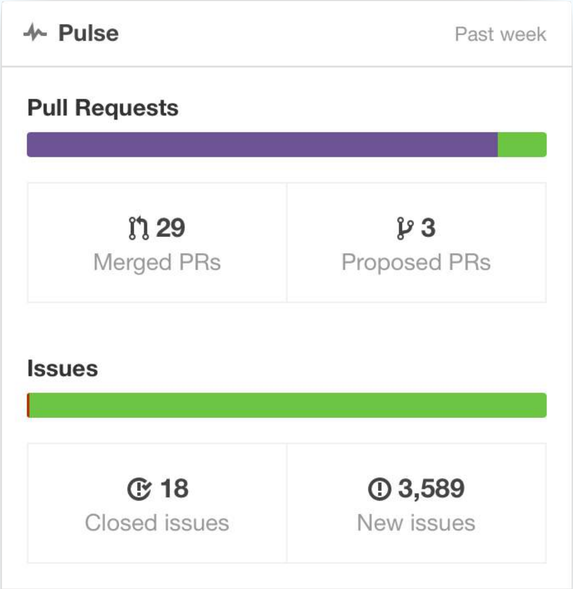
Star 994 Fork 76

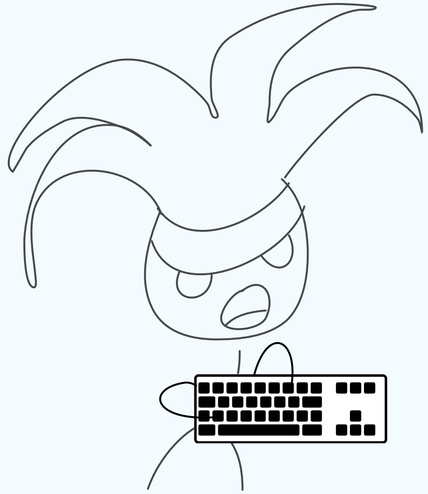
Optimized for adoption



Star 994 Fork 76

Optimized for adoption





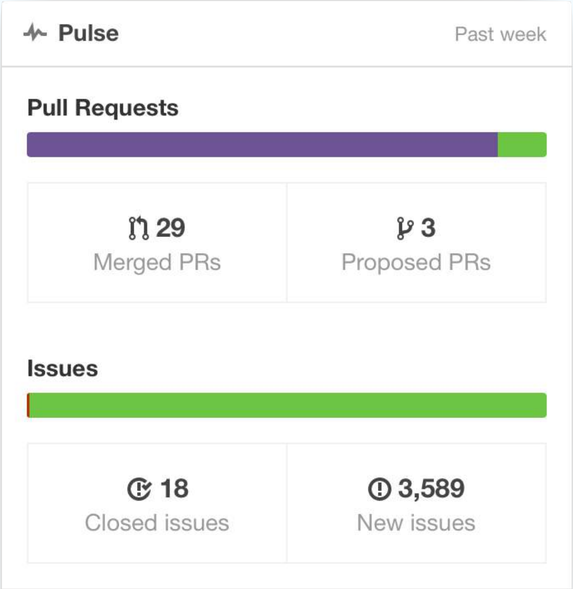
Star 994

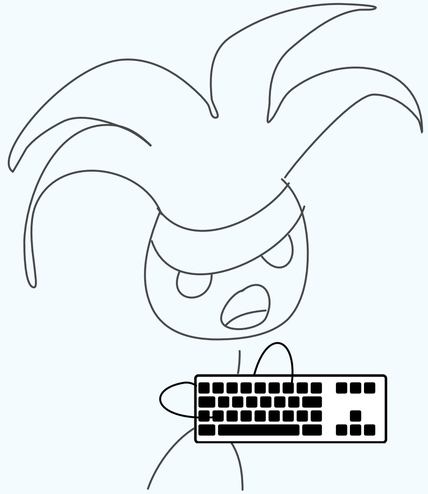
Fork 76

23,954 total downloads

480 for this version

Optimized for adoption





Star 994

Fork 76

23,954 total downloads

480 for this version

Optimized for adoption

Pulse — Past week

Pull Requests

29 Merged PRs

3 Proposed PRs

Issues

18 Closed issues

3,589 New issues

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!"

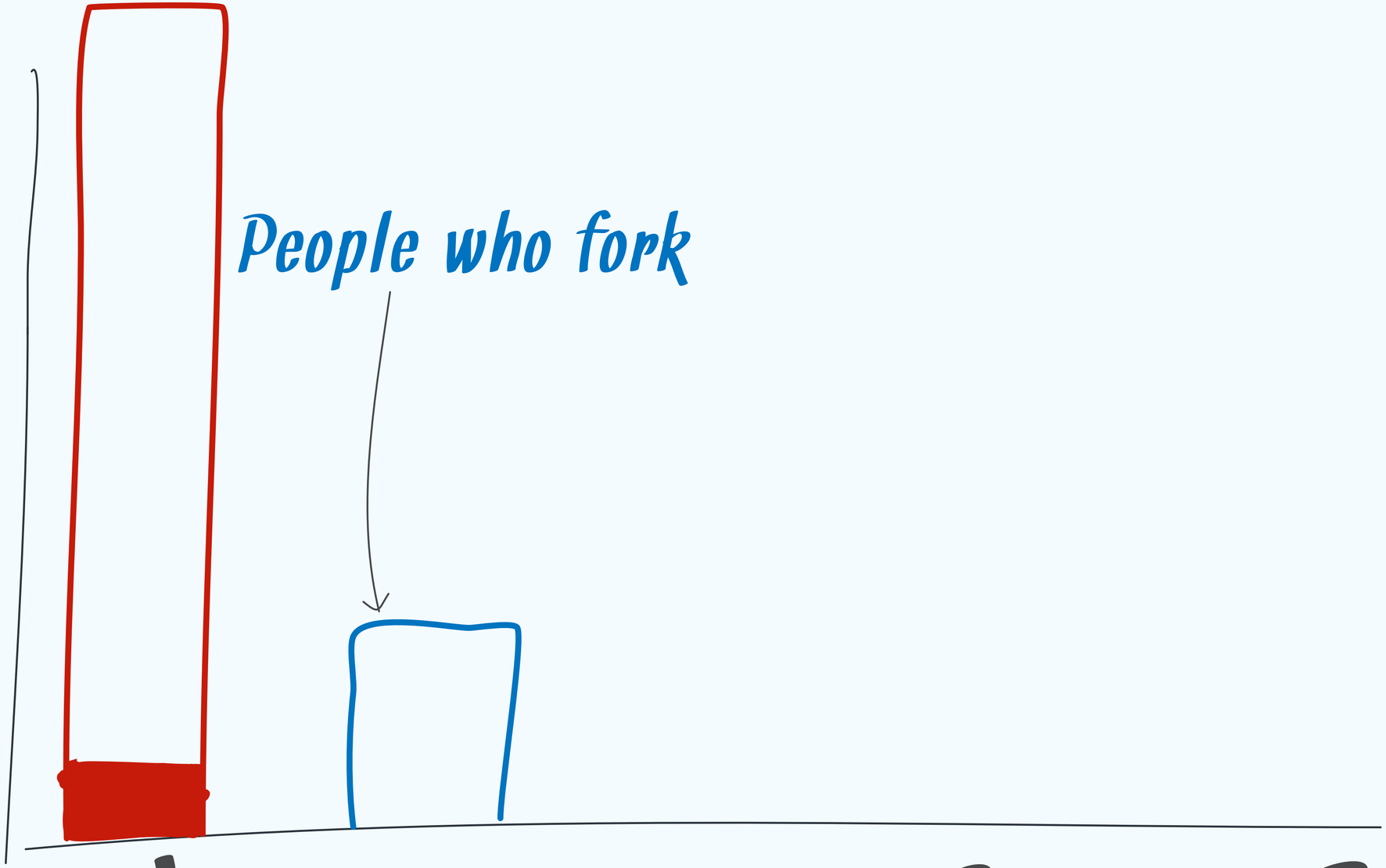
technically

"Open source code is accessible to everyone!"

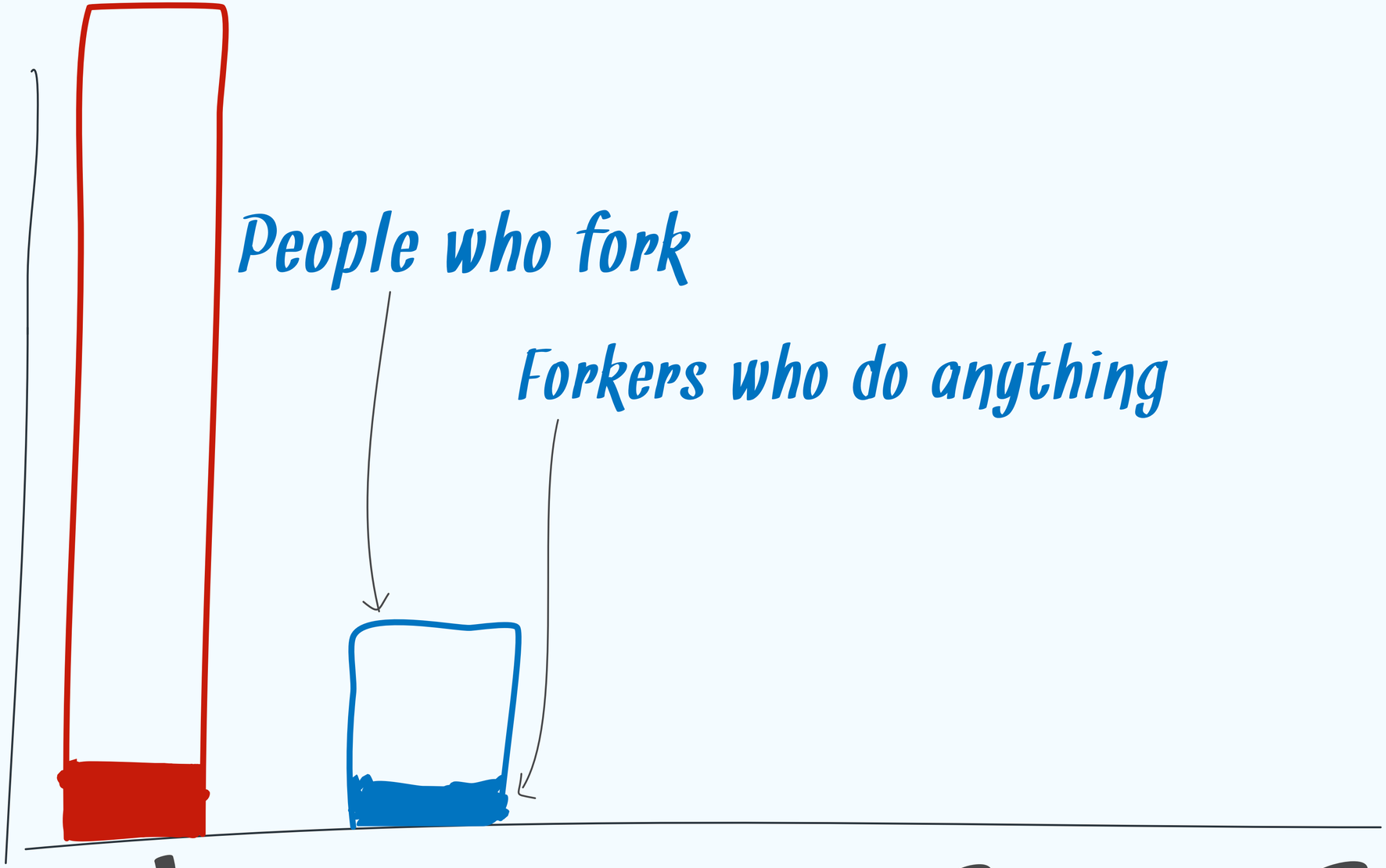
Who reads The Source?

Who reads The Source?

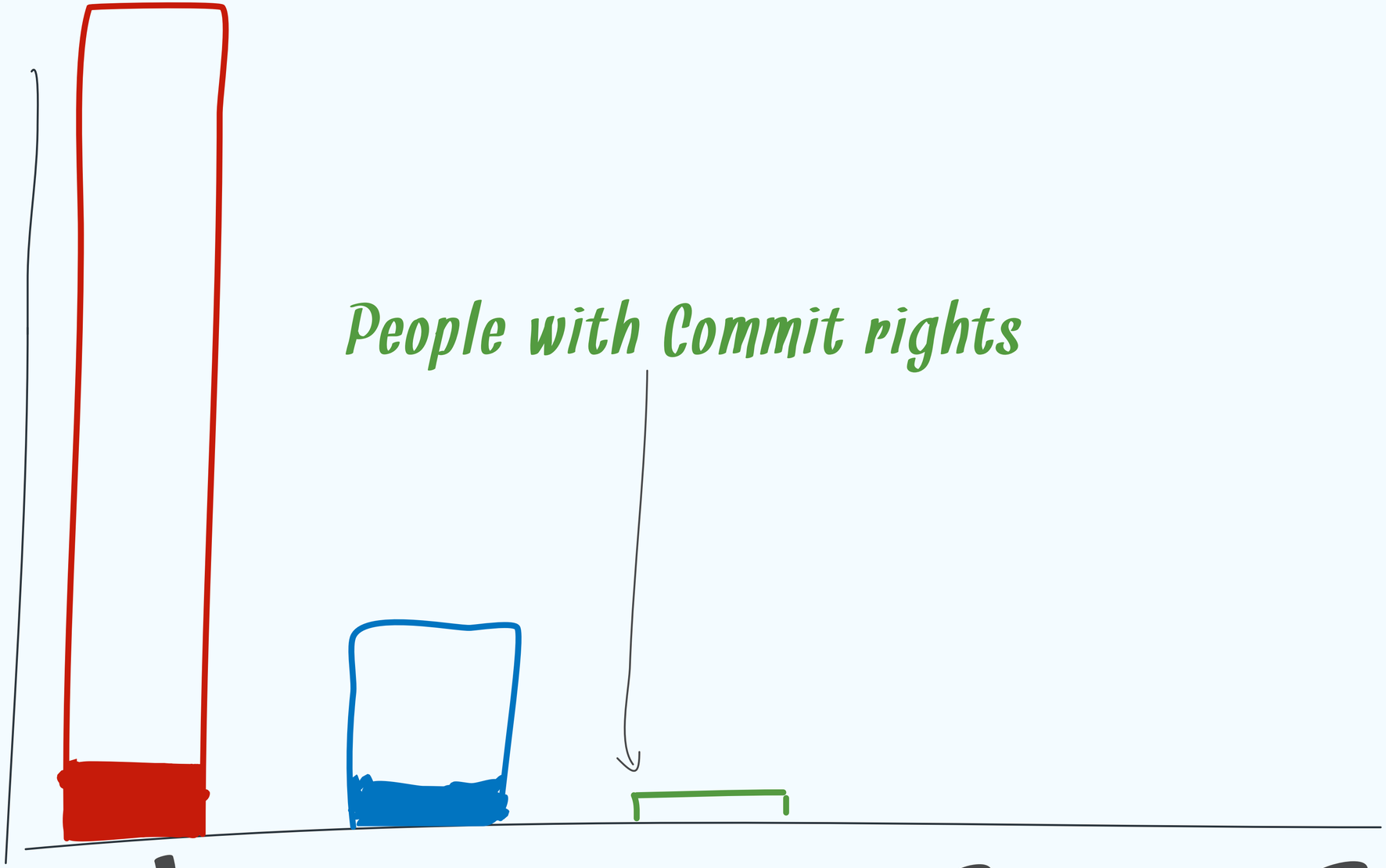
Who reads the Source?



Who reads the source?

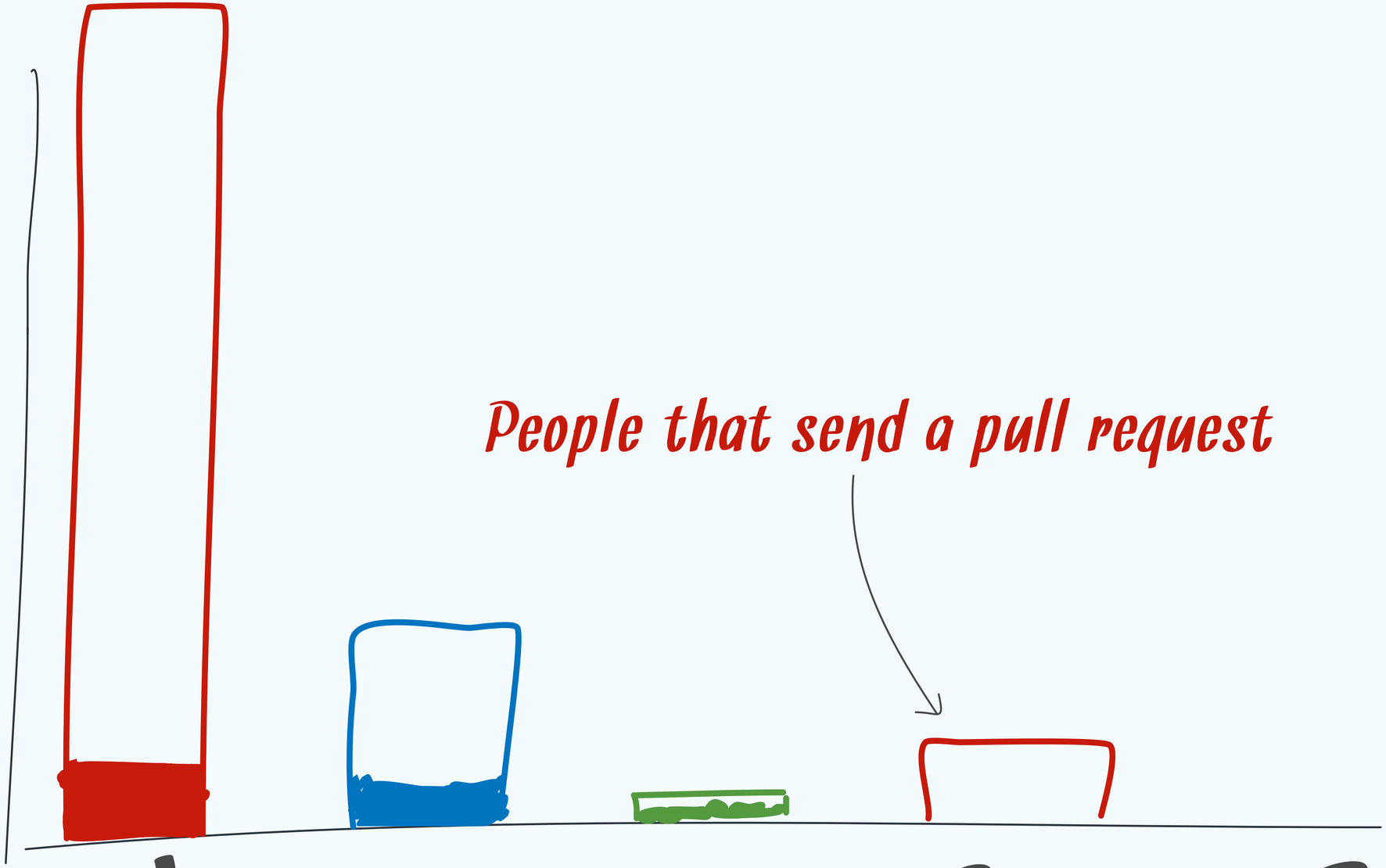


Who reads the source?

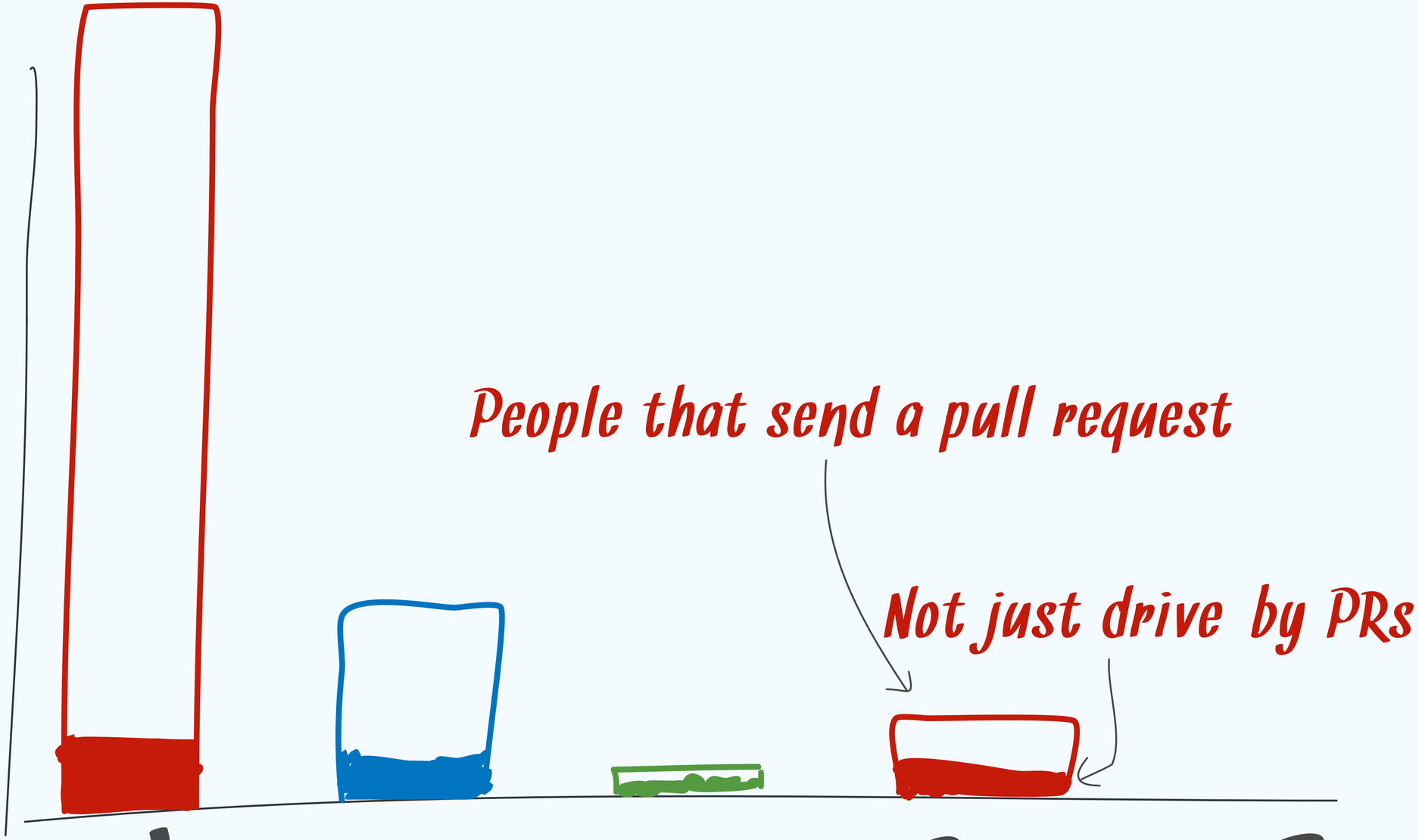


Who reads the Source?

Who reads the Source?



Who reads the source?



Who reads the source?

Who reads the source?

Who reads the source?

/bin/bash

Global variables everywhere

```
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 `=xxx' 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

```
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

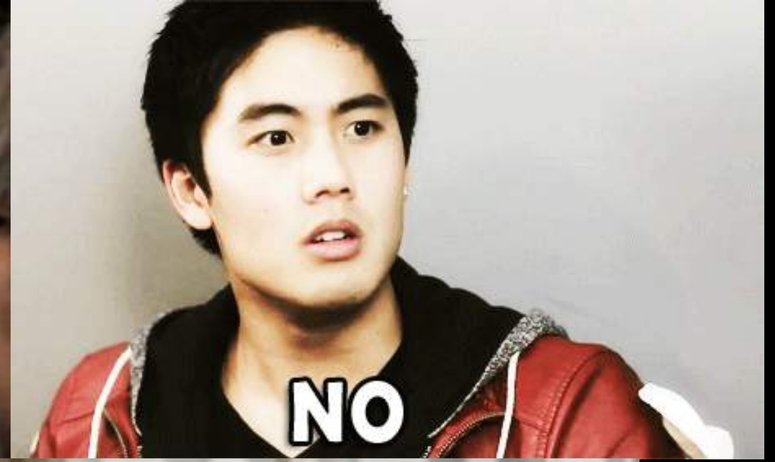
```
for (i = 0; env[i] != NULL; i++) {
```

"The solution is not...proprietary software—the solution is to put energy and resources into auditing and improving free programs."

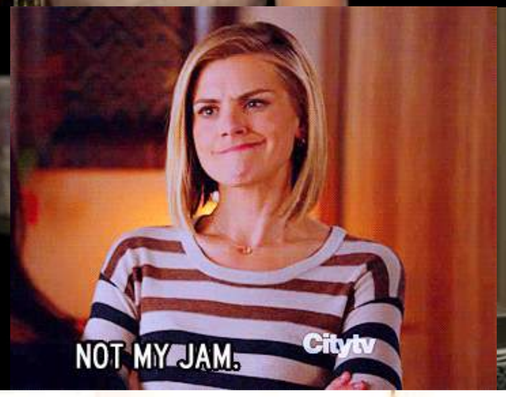
- Free Software Foundation

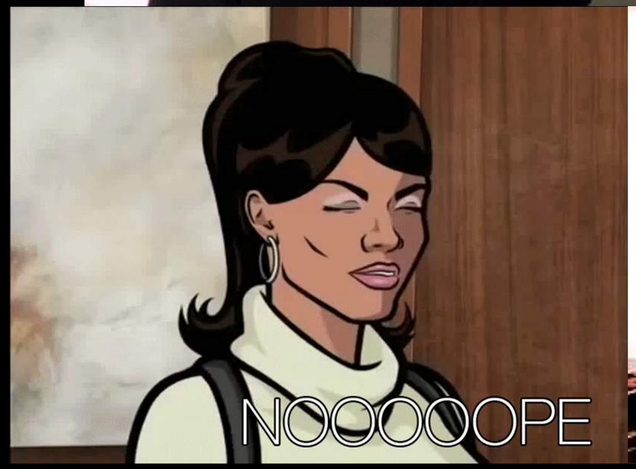
Who wants to audit the quality of code that literally everyone depends on?

GMA's OSCAR PARTY WITH THE STARS
LEADING LADIES STEAL THE NIGHT
LAWRENCE AND HATHAWAY SHINE


NO

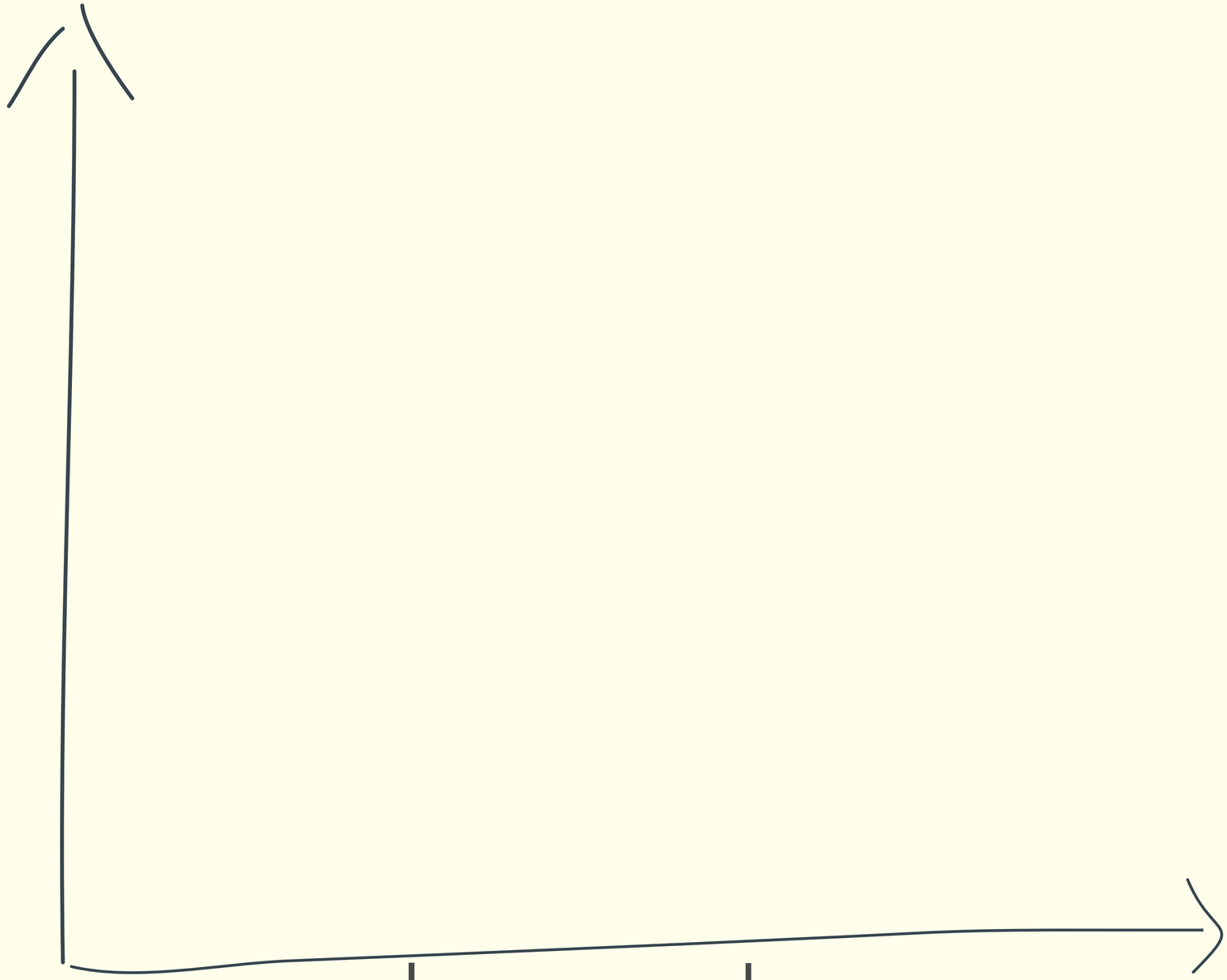
No, thank you, please.


NOT MY JAM.
Citytv

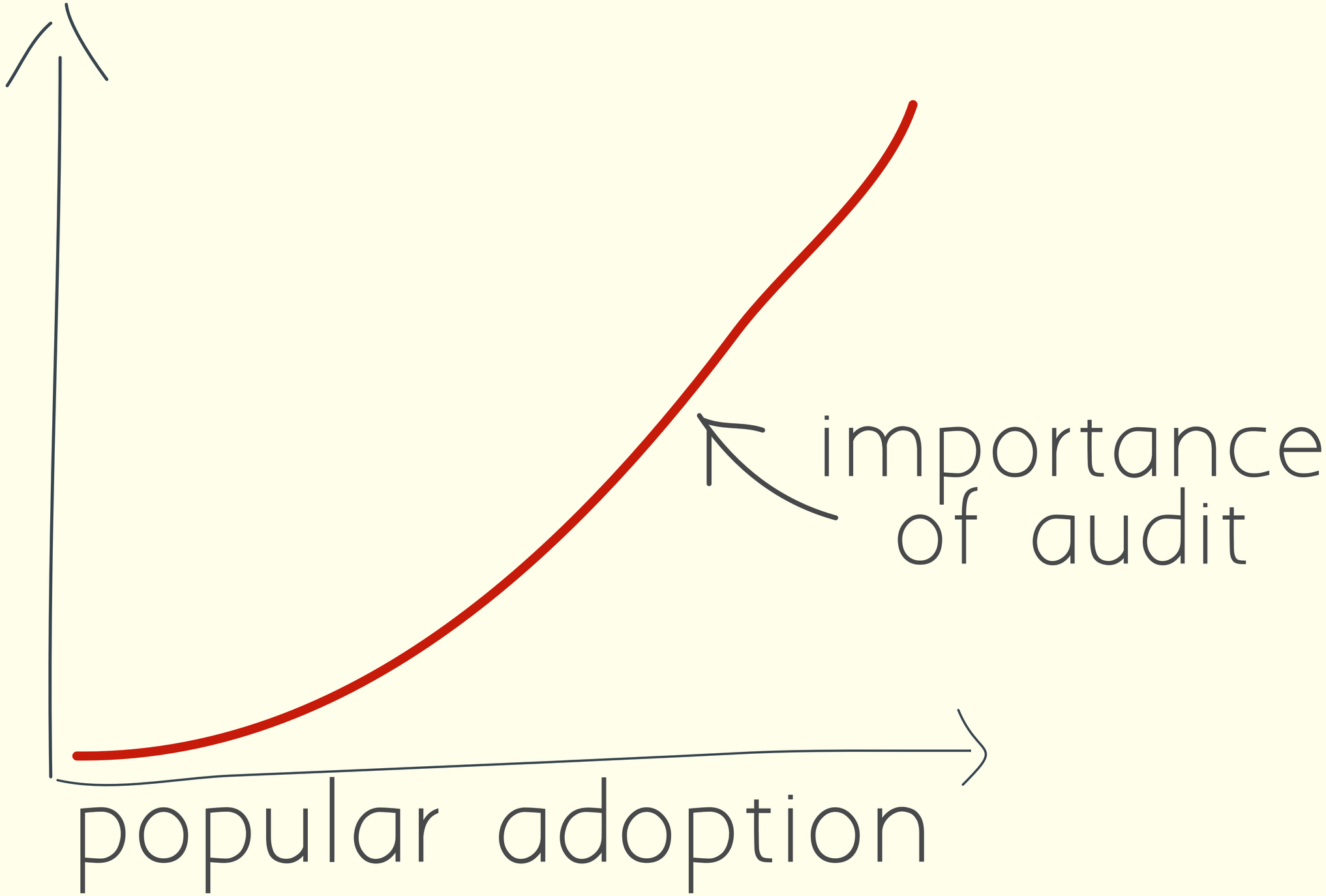

NOOOOOOPE

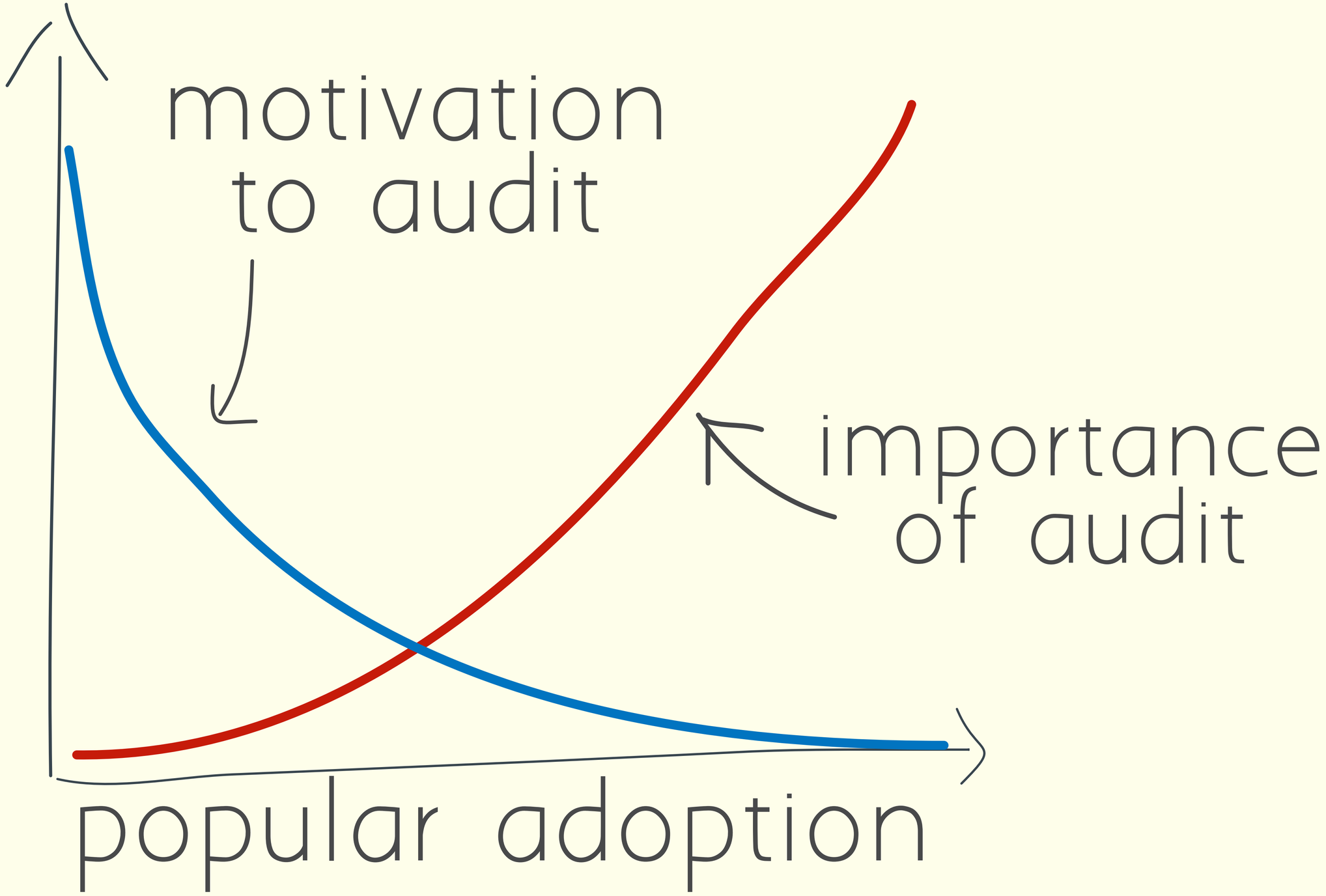
I won't hear it
and I won't respond to it

Nope!



popular adoption


importance
of audit
popular adoption


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

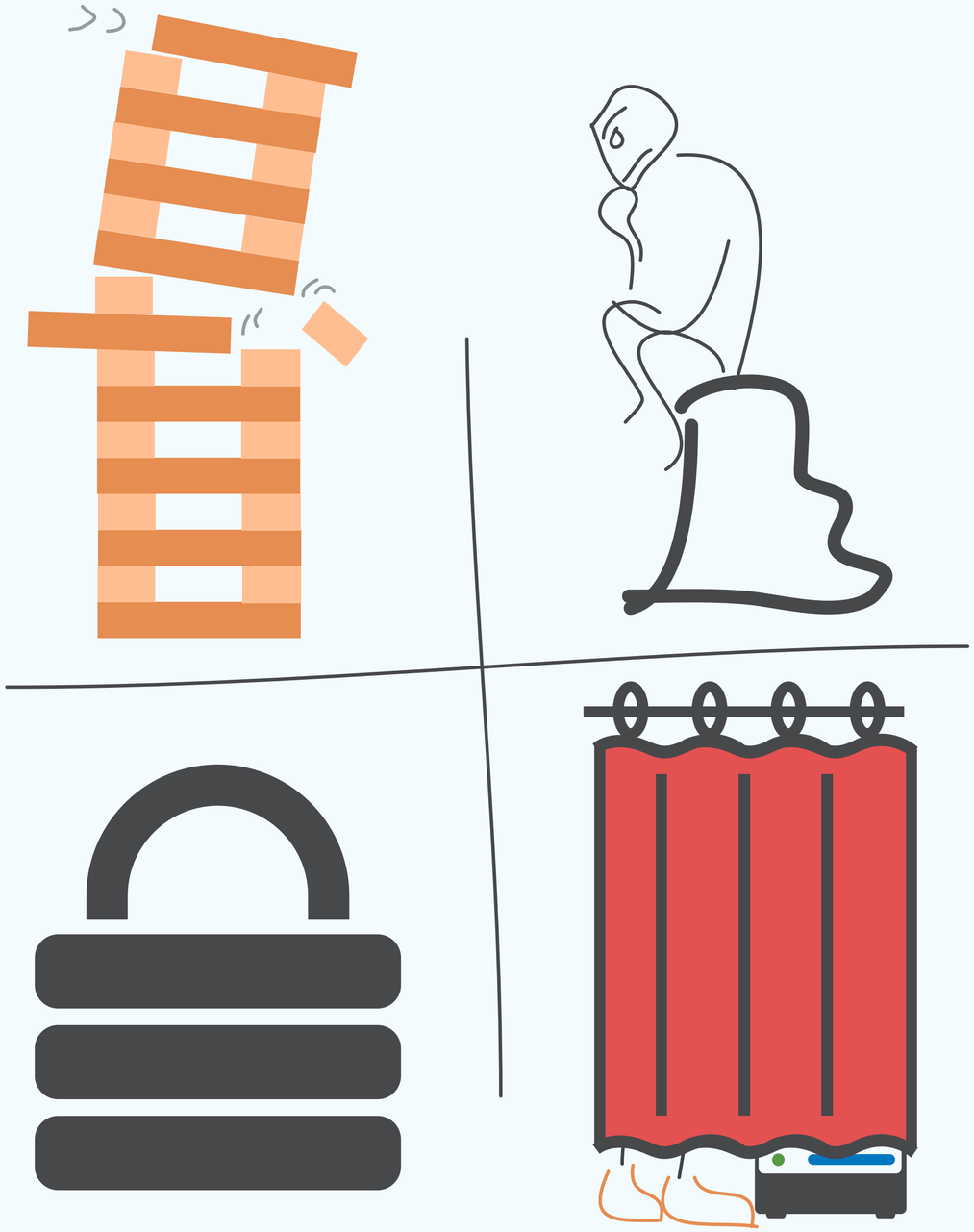
TODO

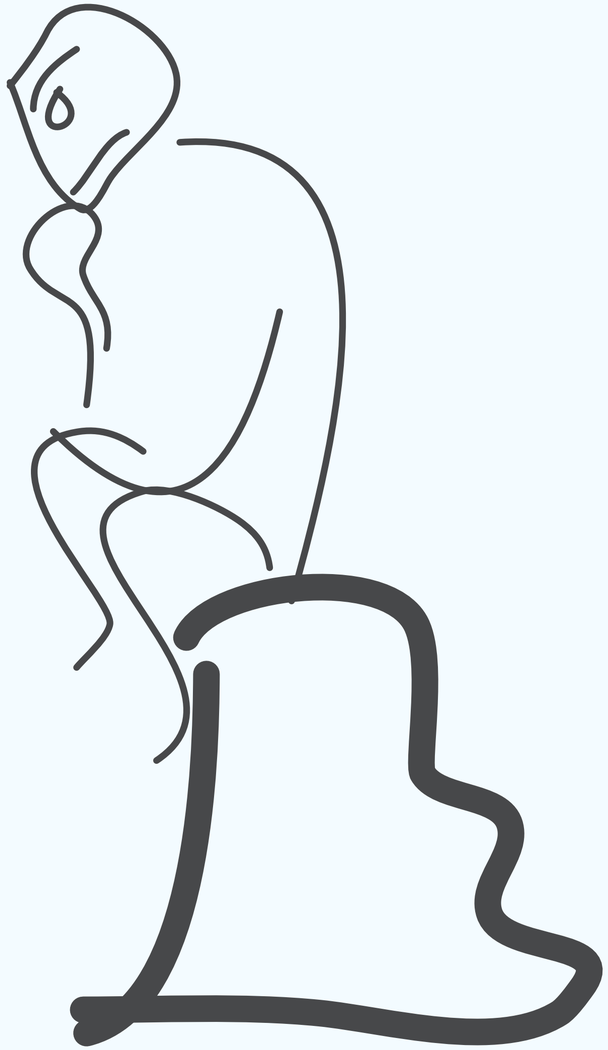
Who is in the TODO group?

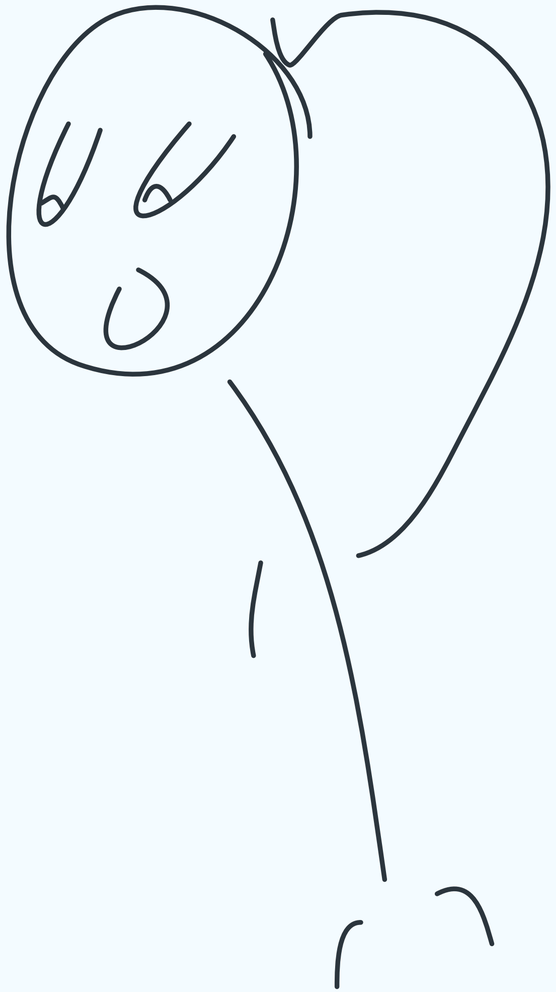
TODO is an open group of companies who run open source programs. Our members include:

box
Dropbox
facebook
GitHub
Google
KHANACADEMY
Square
stripe
@WalmartLabs

Don't let your business believe open source is a free lunch







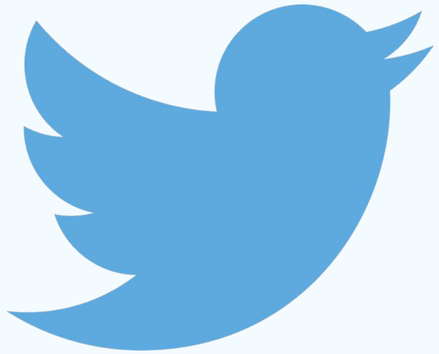
These Stick Figures Were a Lie

How we communicate

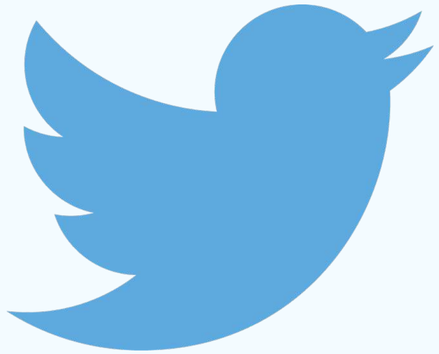
How we communicate

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.)

▯ eevee ▯
@eevee

it is fucked up that a lot of modern "discourse" is optimized for whoever has the fewest feelings and the most free time

Uncertainty?

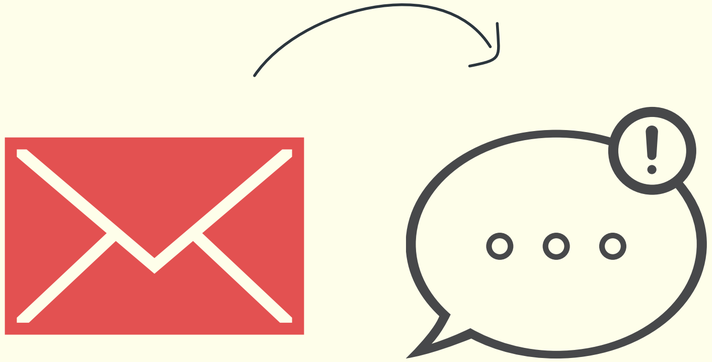
Ambiguity?

Disagreement?

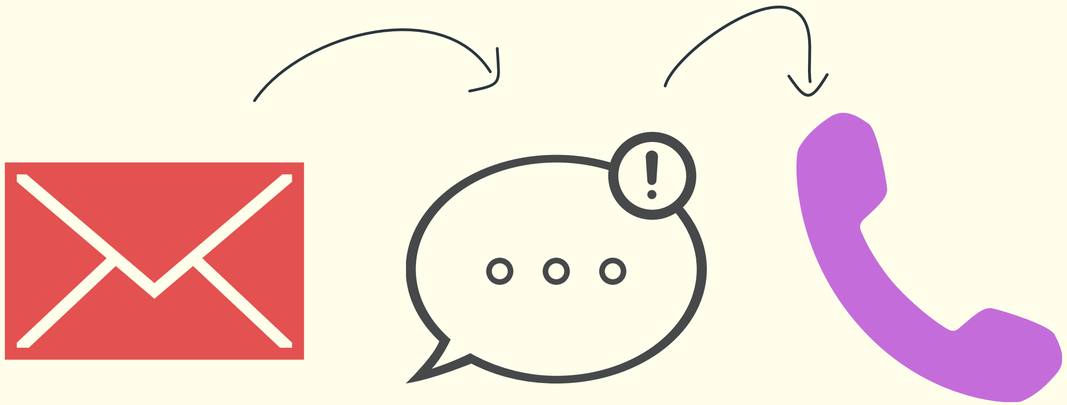
Simmering Disdain?

Simmering Disdain?

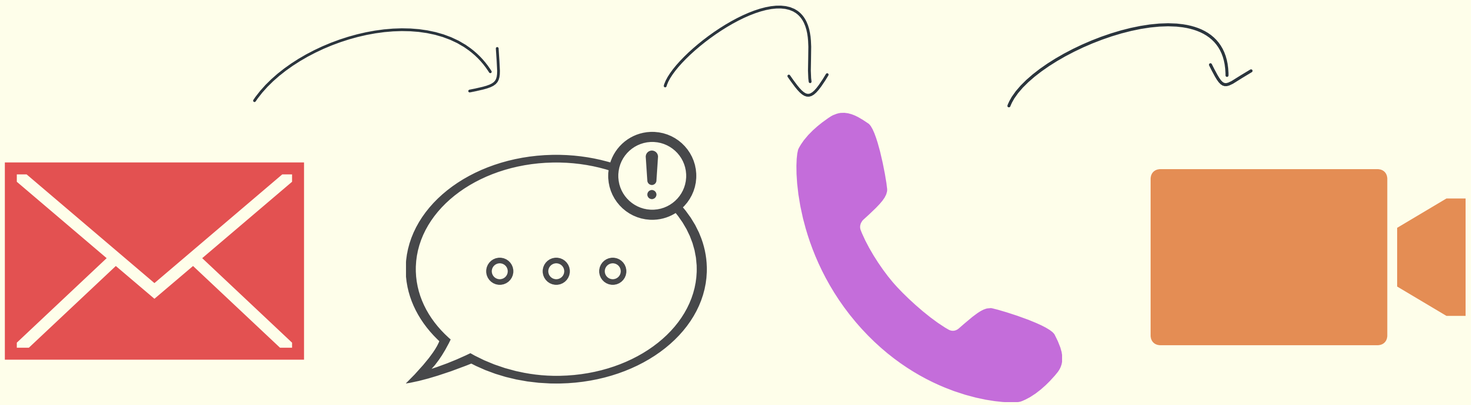
Simmering Disdain?



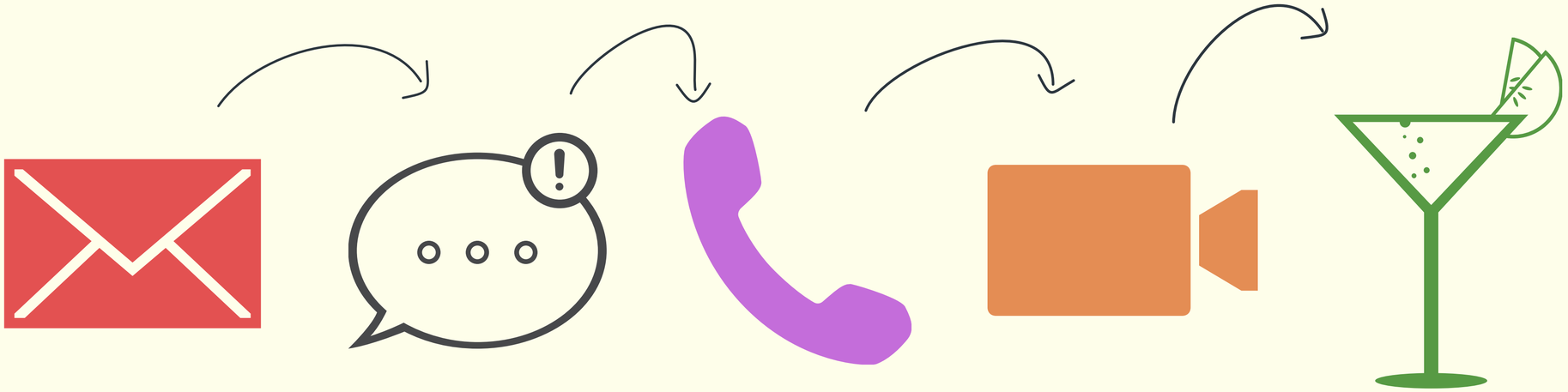
Simmering Disdain?

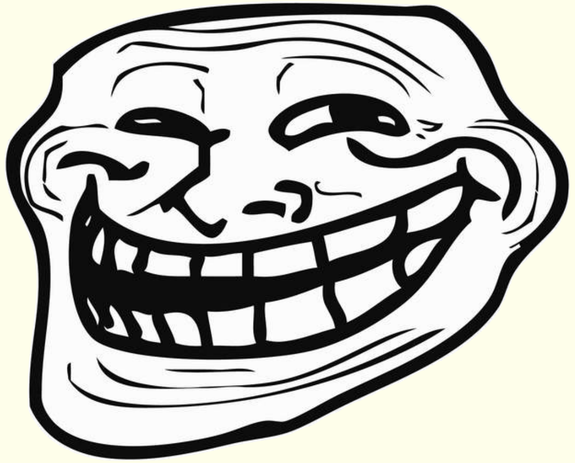


Simmering Disdain?



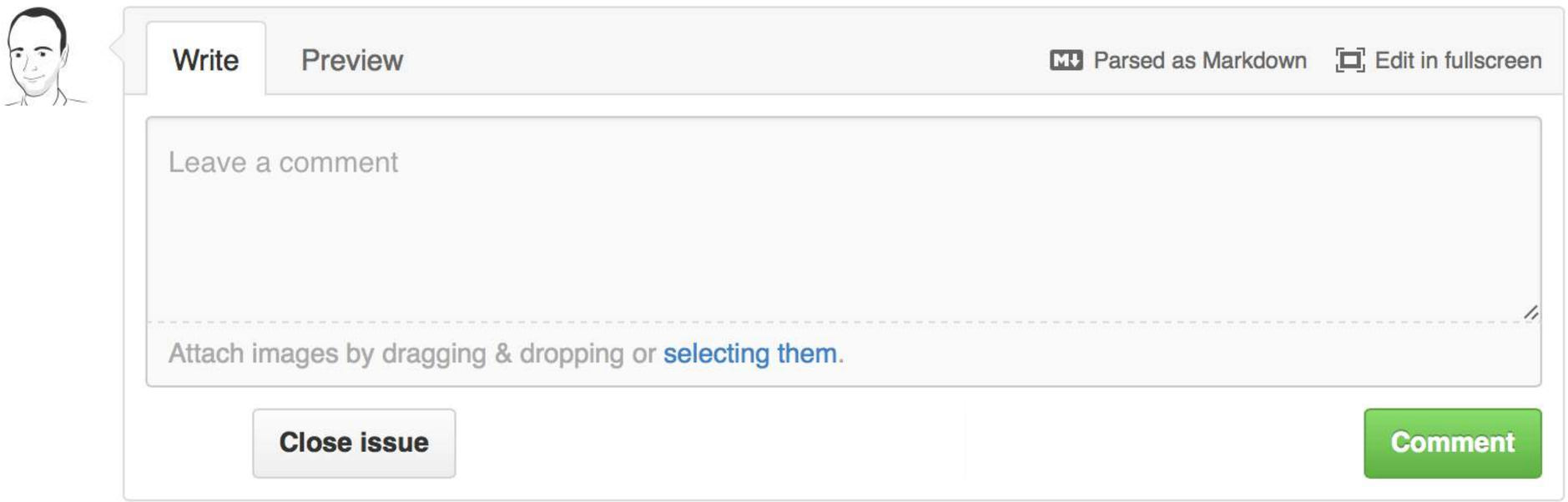
Simmering Disdain?



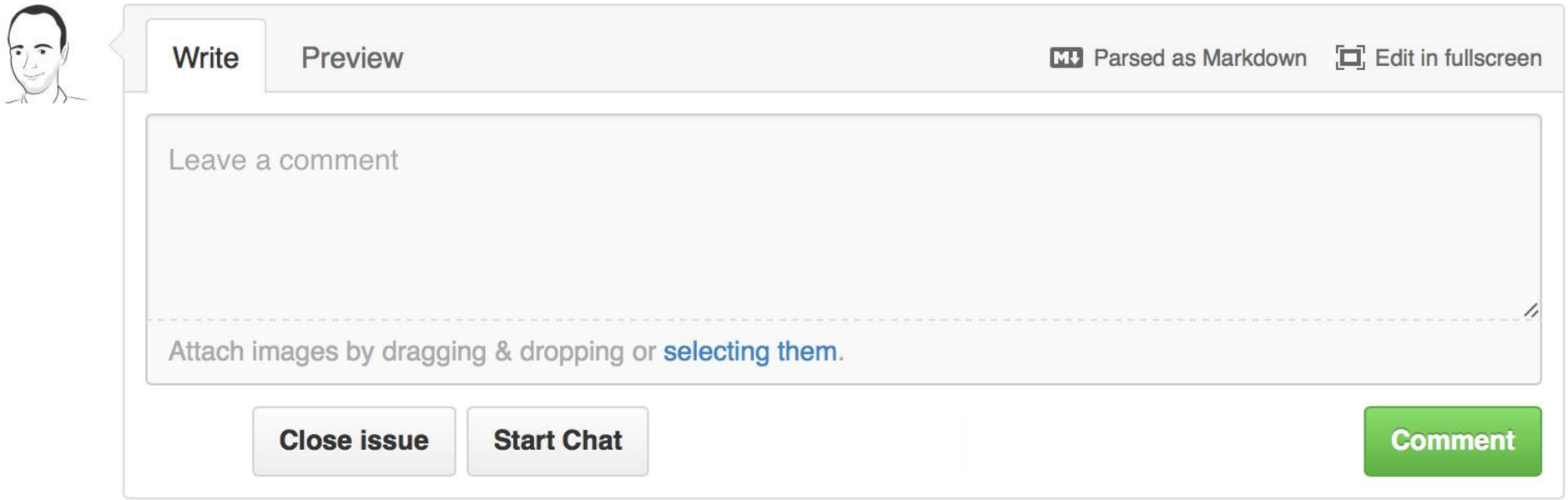
This strategy can be great  repellant

What if we could do this:

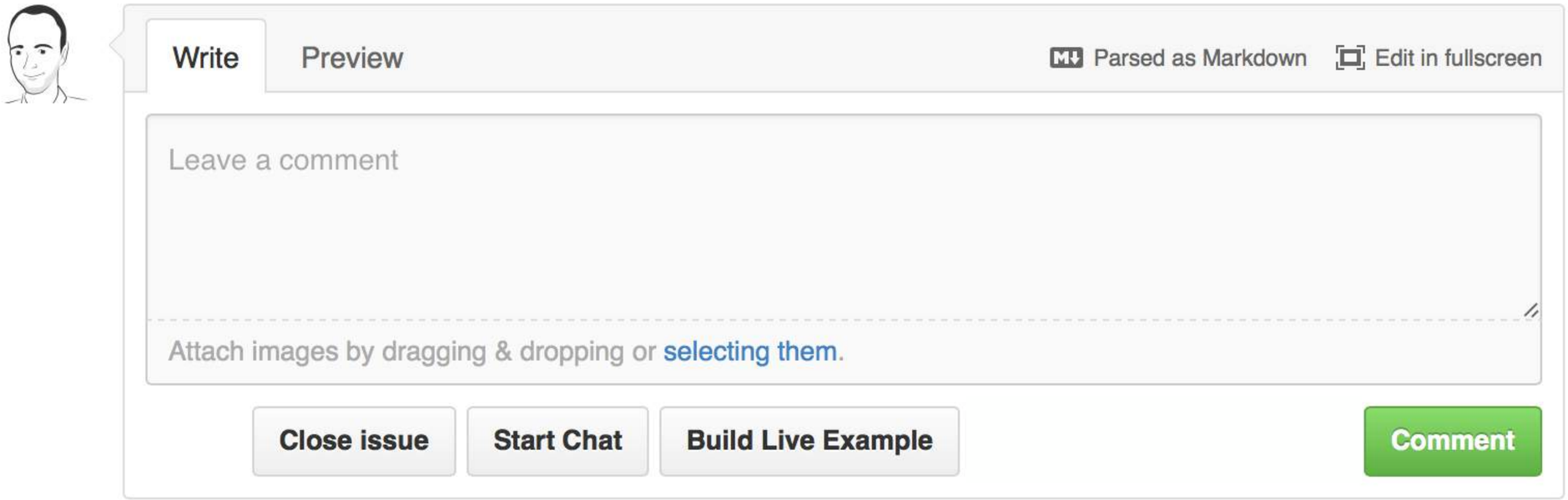
What if we could do this:



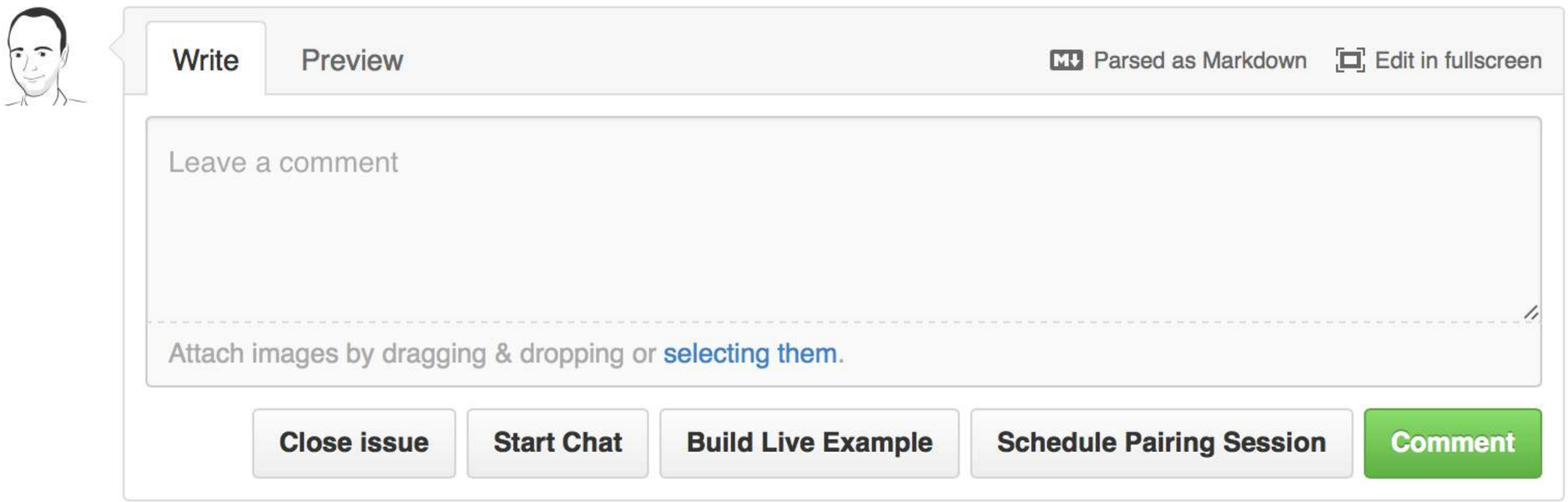
What if we could do this:



What if we could do this:



What if we could do this:



What does the future hold?

awfulness
progress

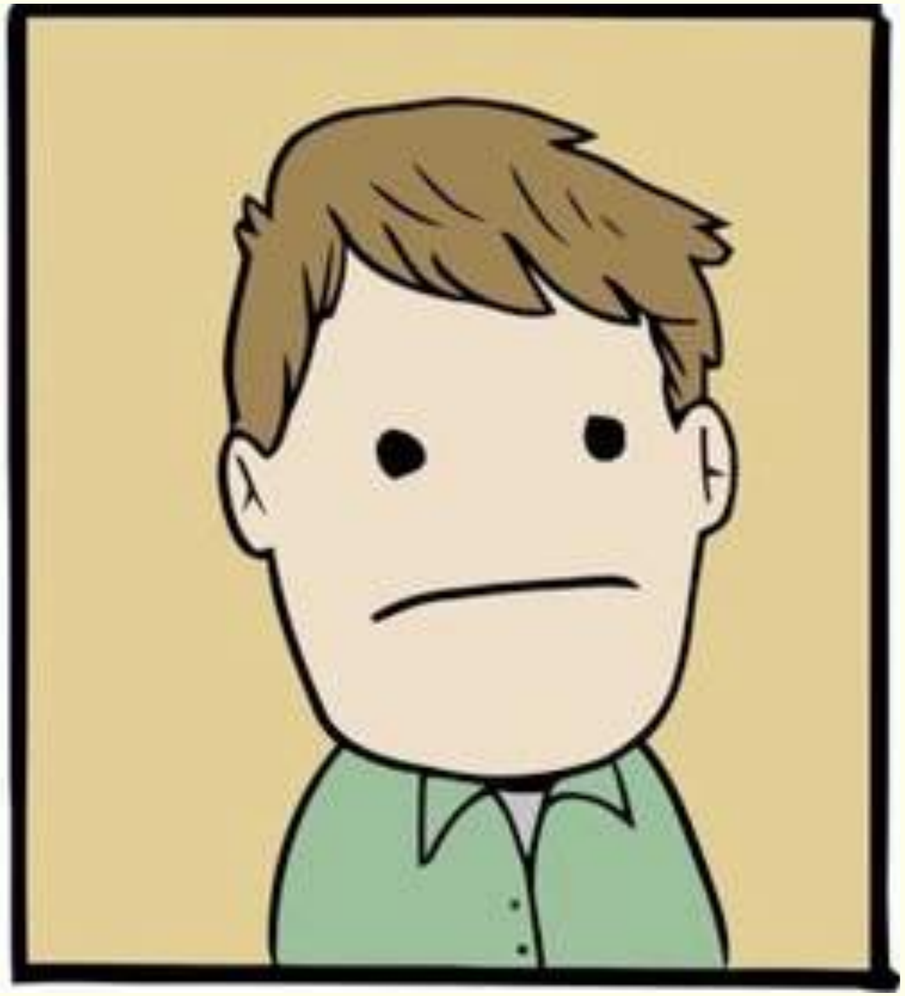
we are
here
awfulness
progress

we are
here
awfulness
progress

awfulness
we are here
what happens here?
progress

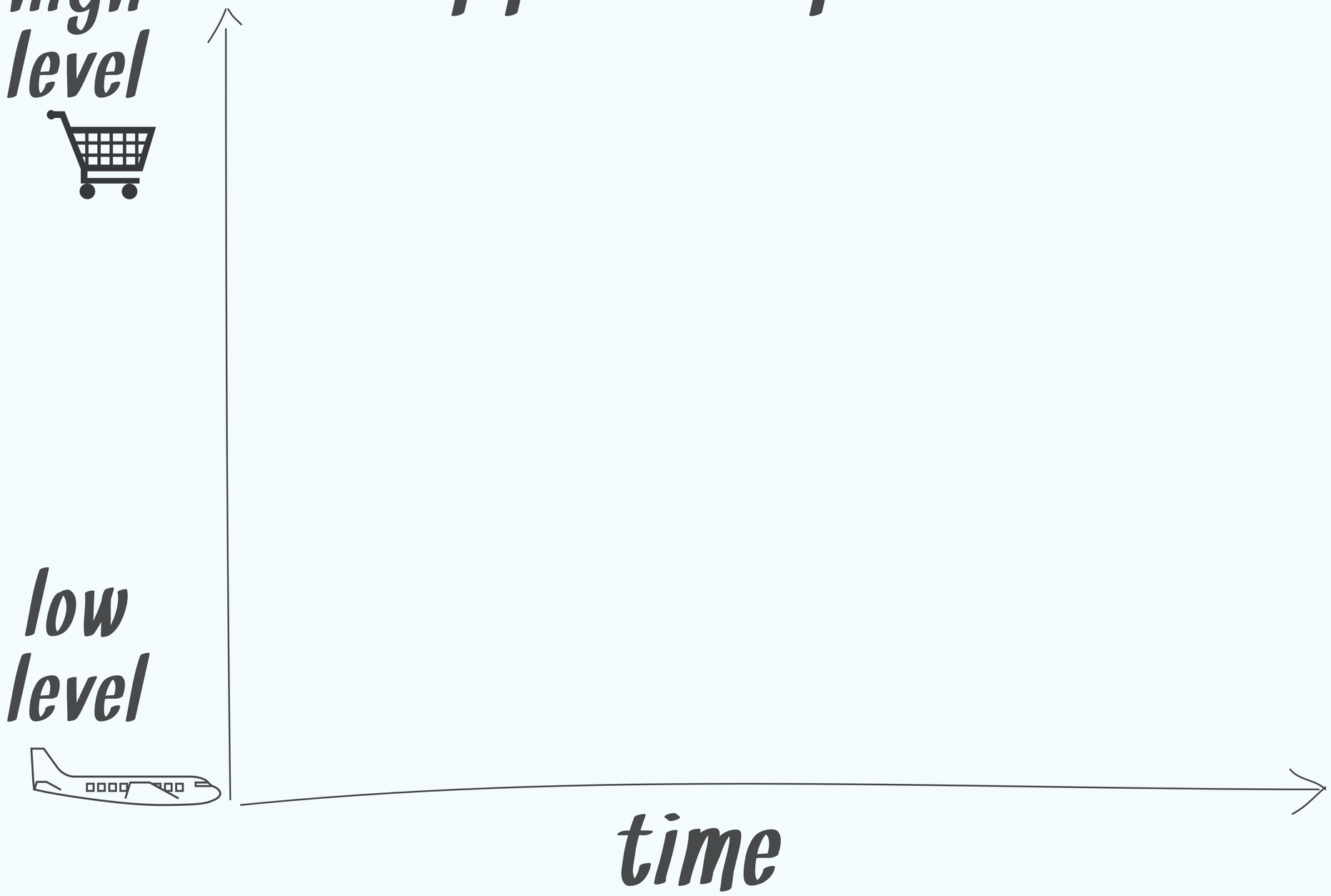
Extrapolating from our culture of dependence

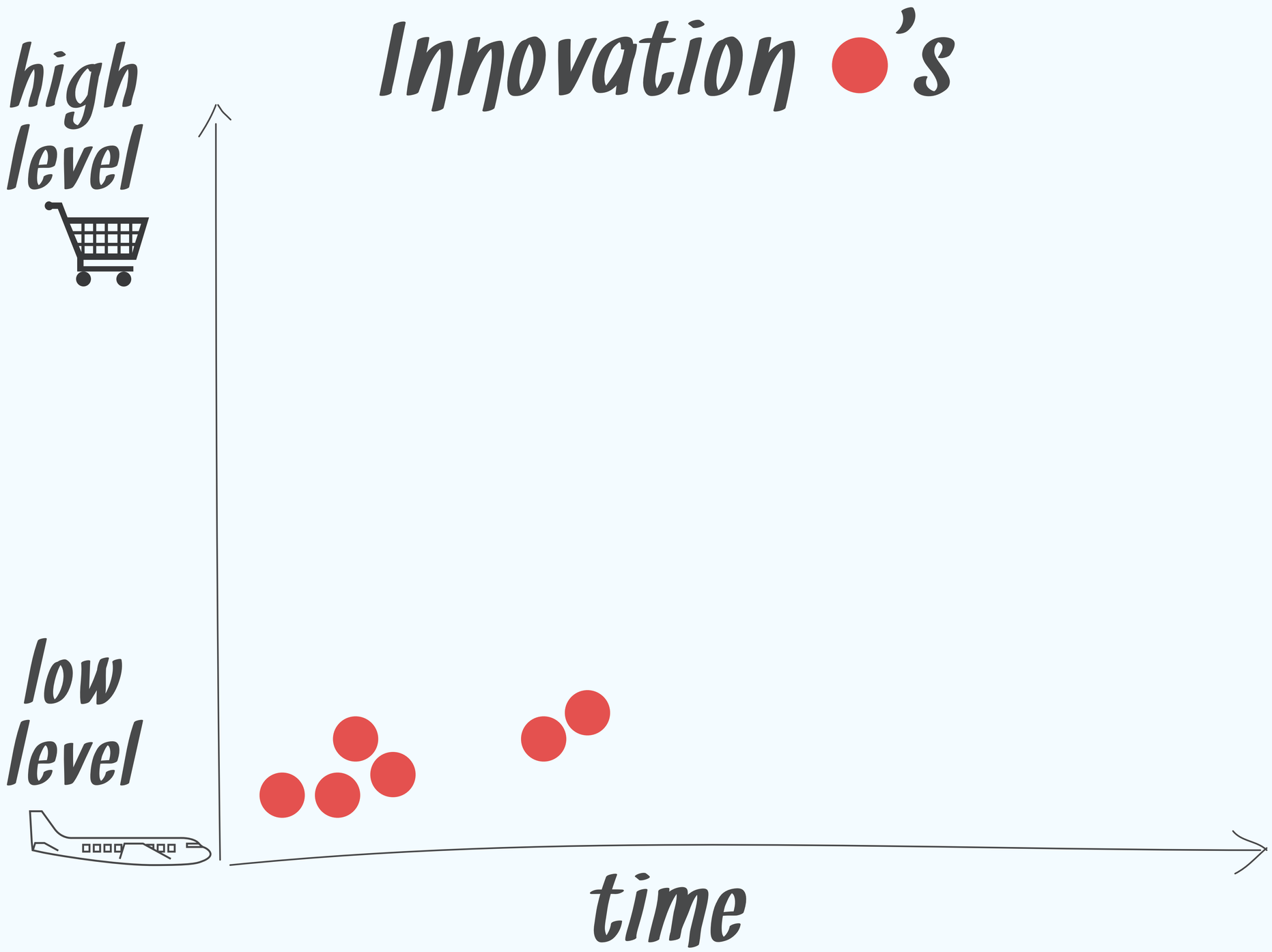
"Rust enables a whole new generation of high-level programmers to write systems-level code." -- @wycats at #gogaruco

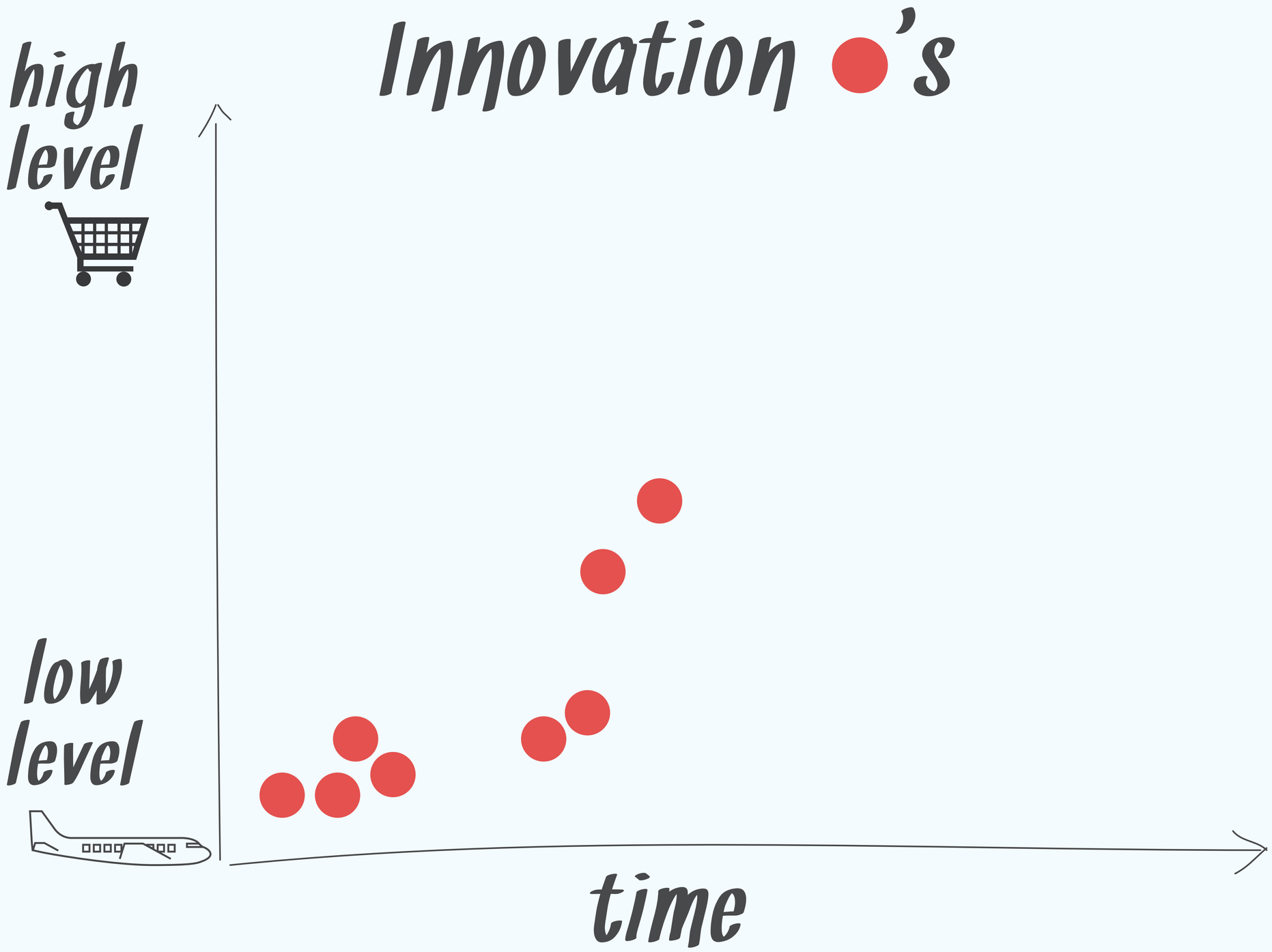


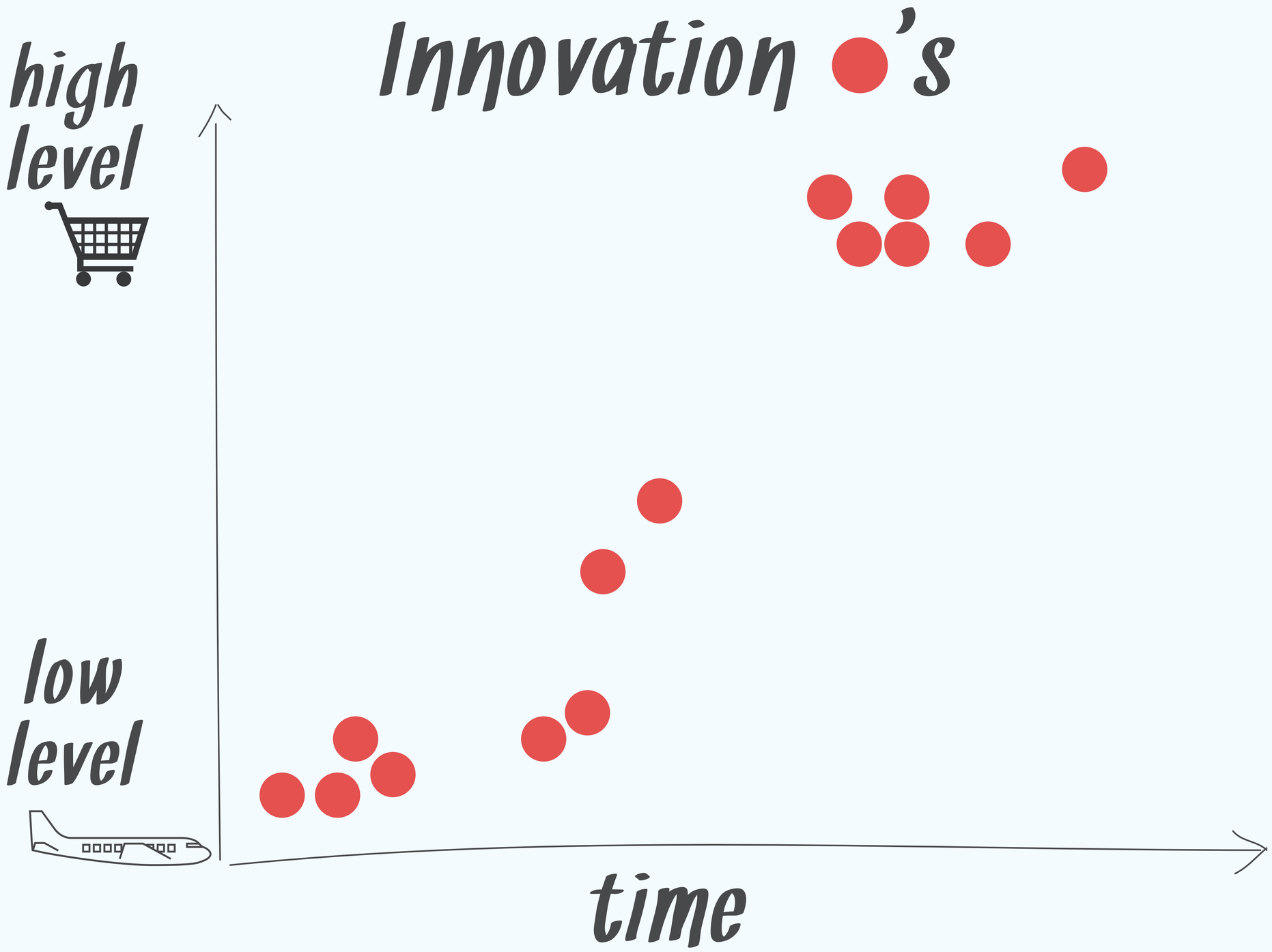
I'M OK
WITH THIS.

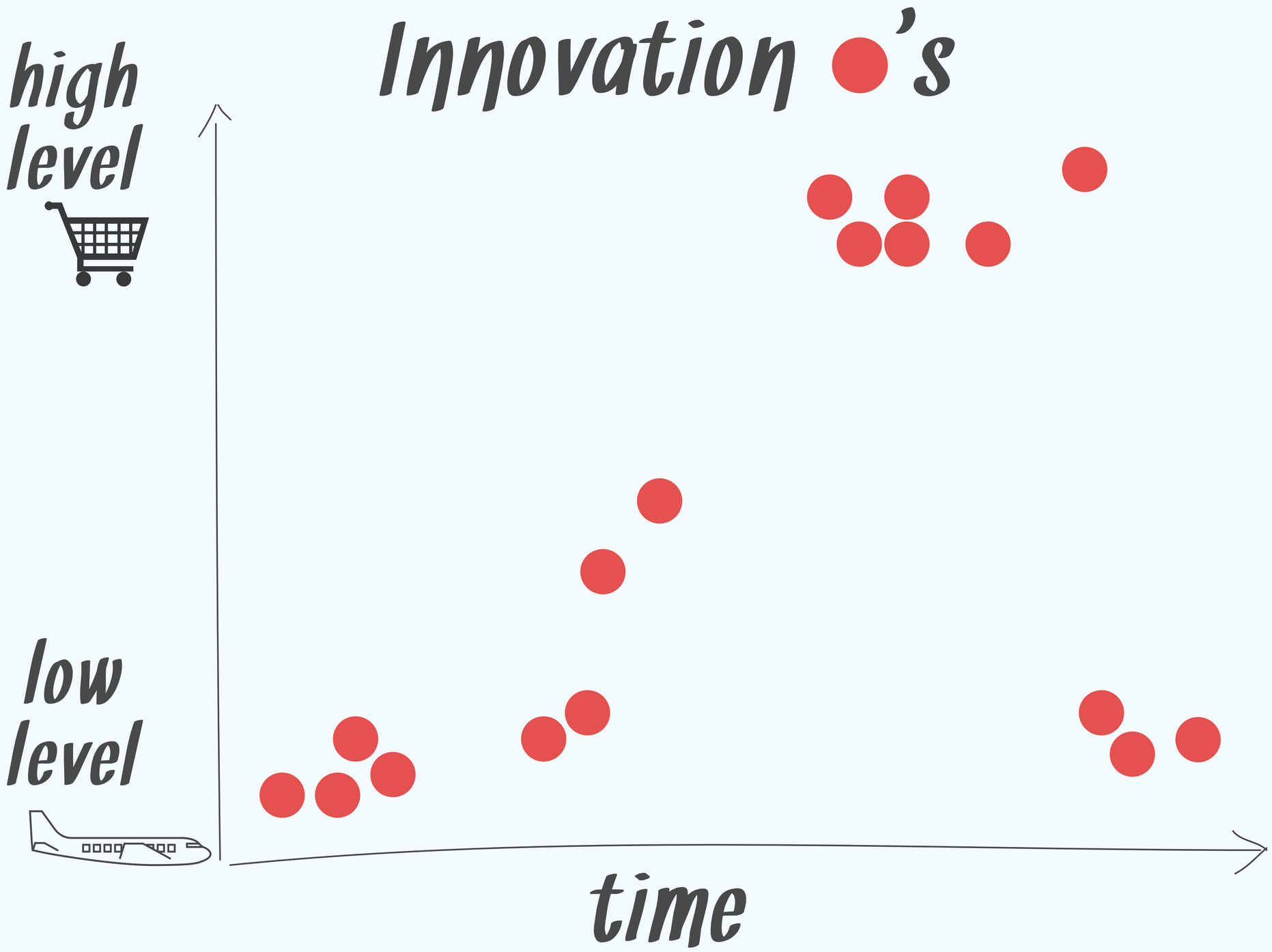
Innovation ●'s

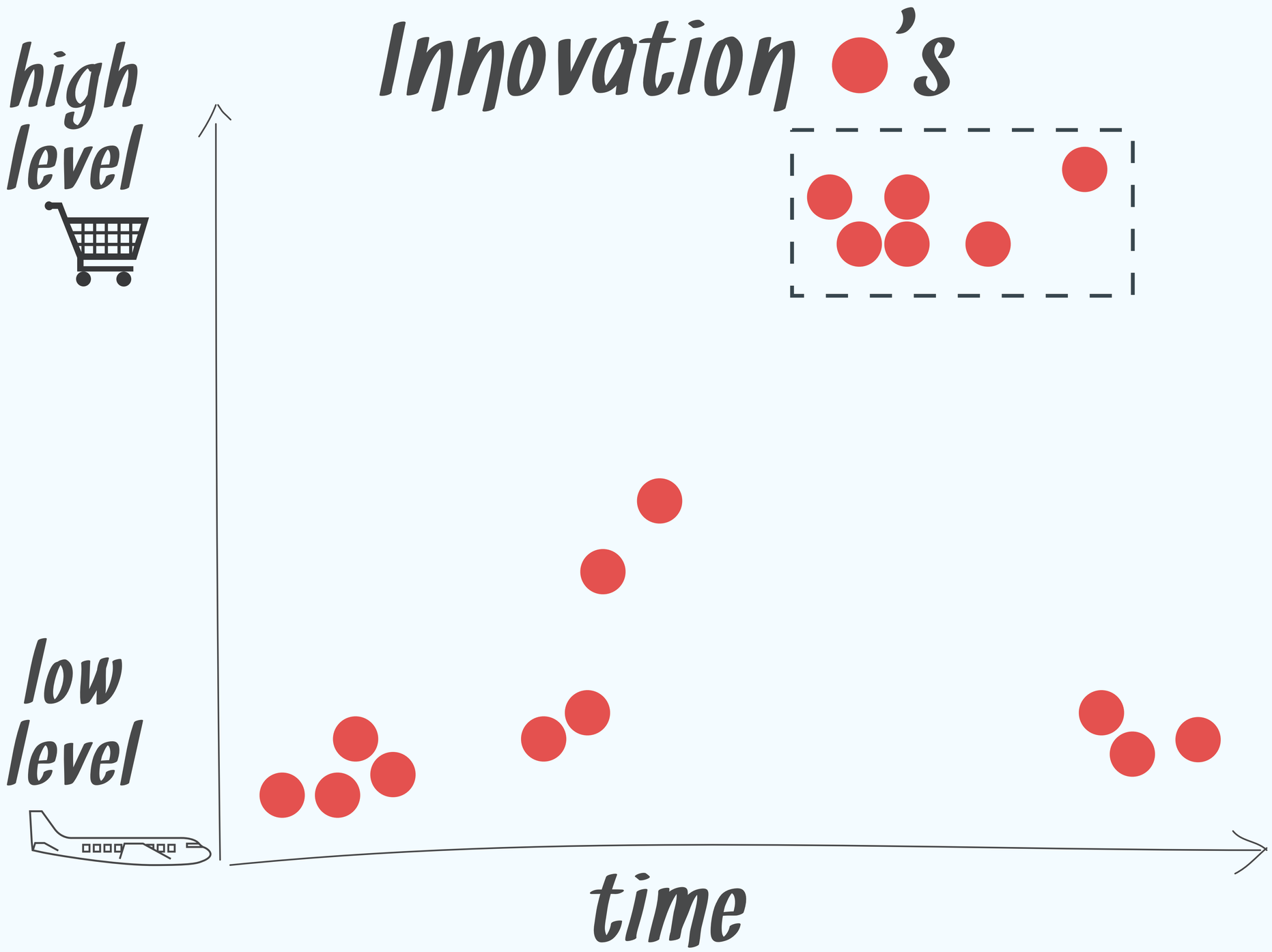


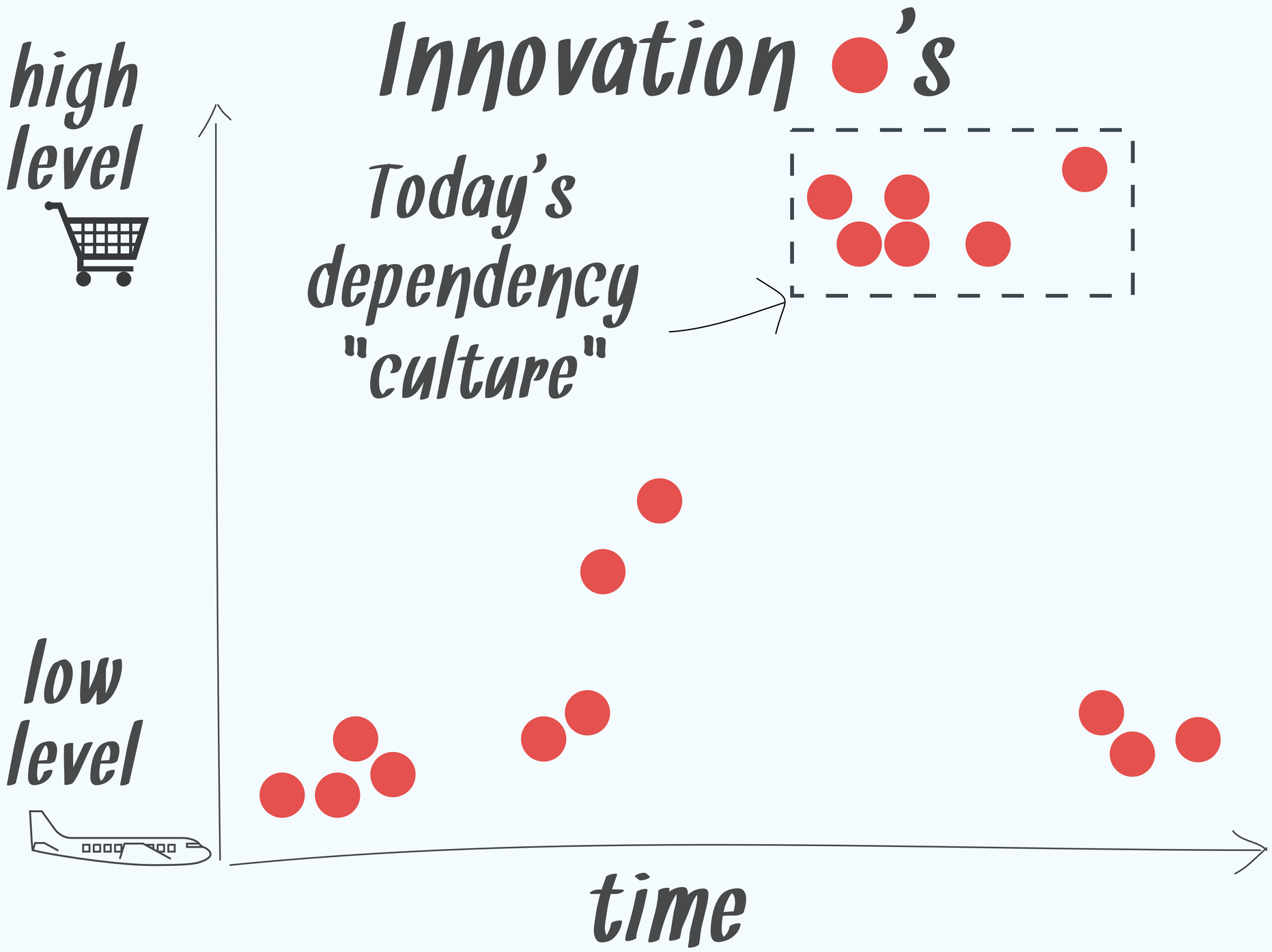

Innovation ●'s
high level
low level
time

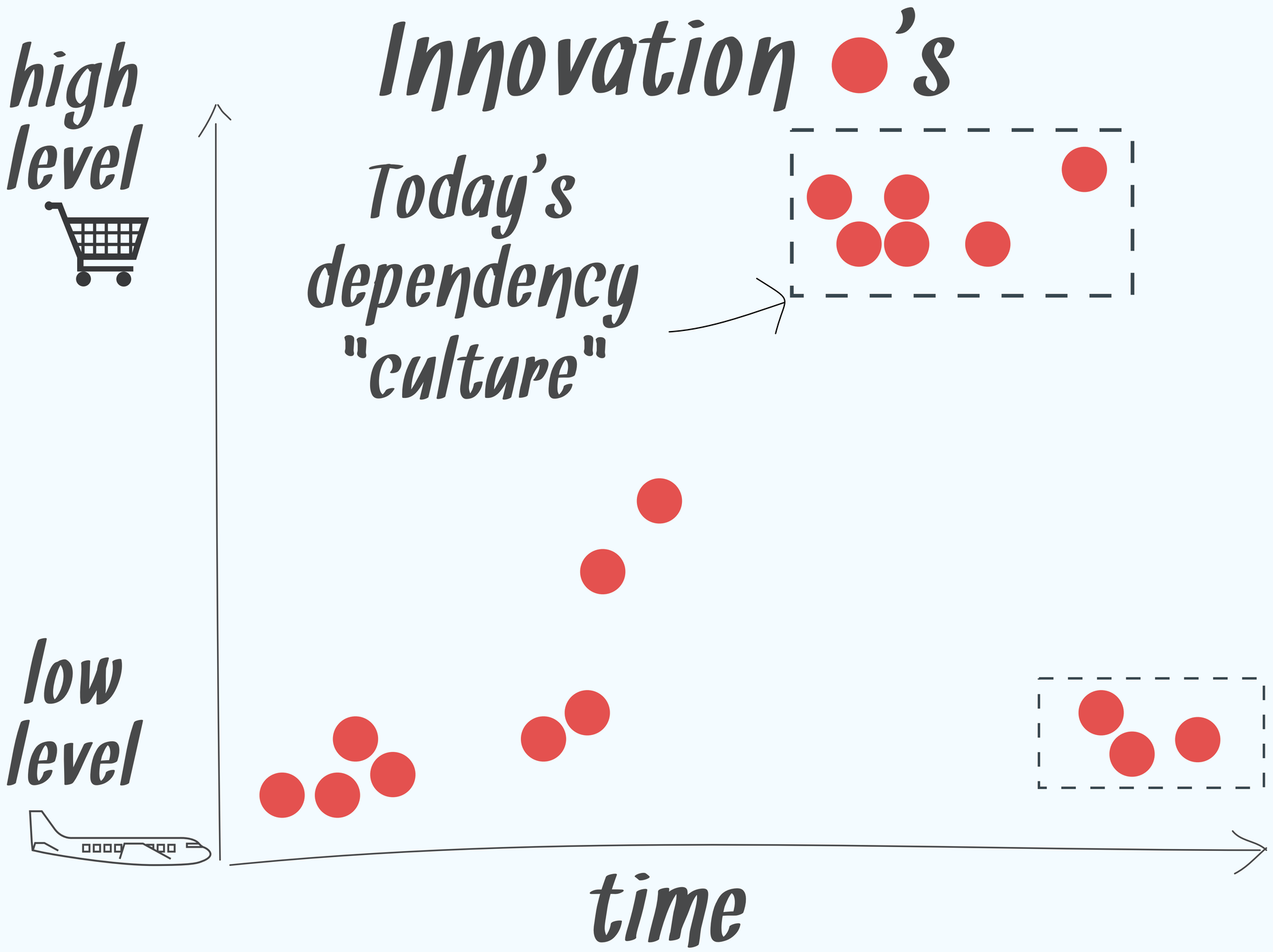

Innovation ●'s
high level
low level
time

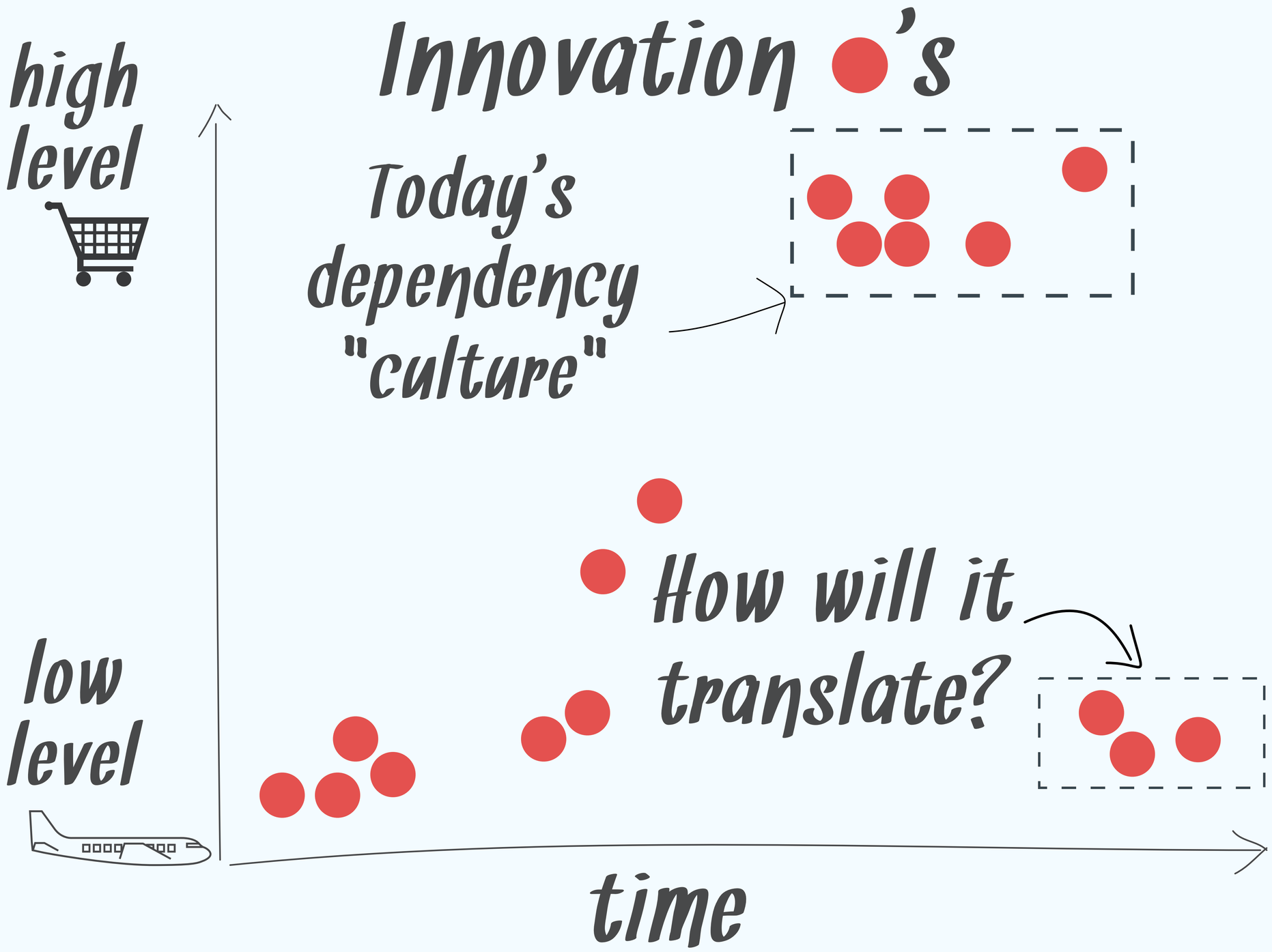

Innovation ●'s
high level
low level
time


Innovation ●'s
high level
low level
time

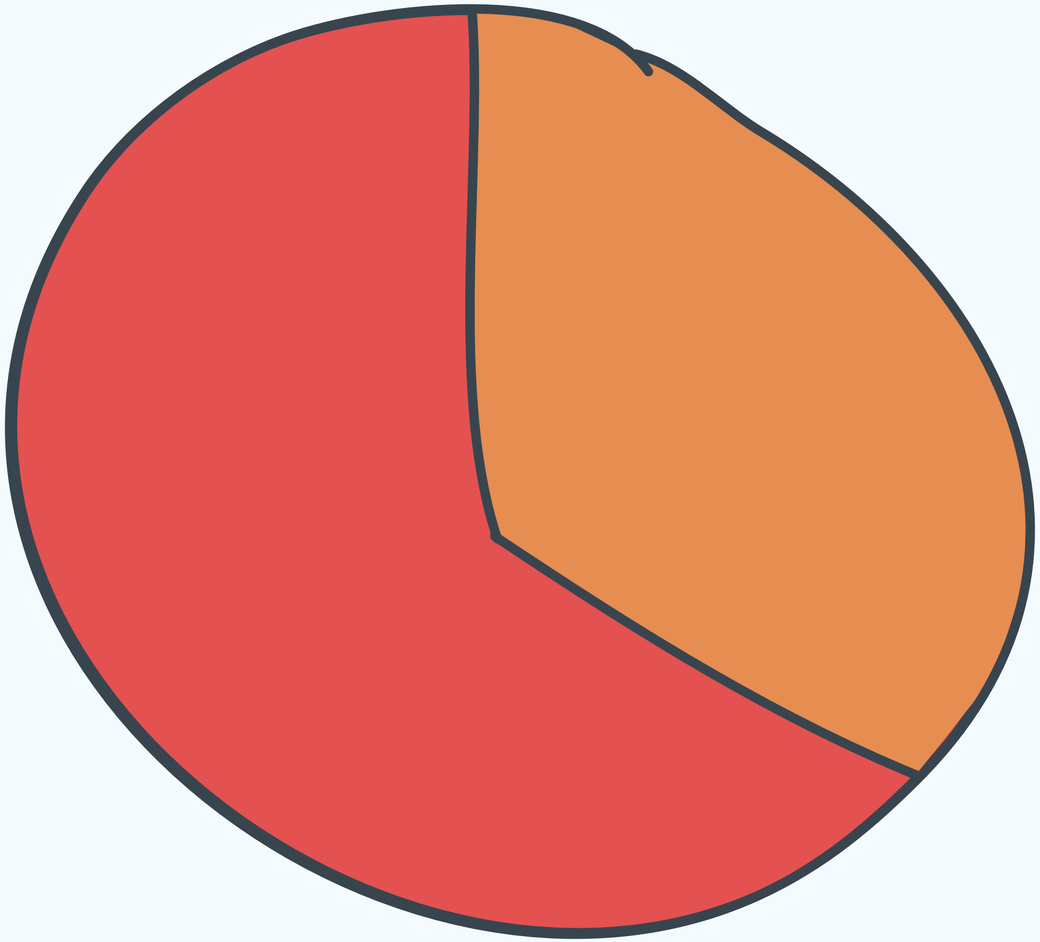

Innovation ●'s
high level
low level
time


Innovation ●'s
high level
Today's dependency "culture"
low level
time

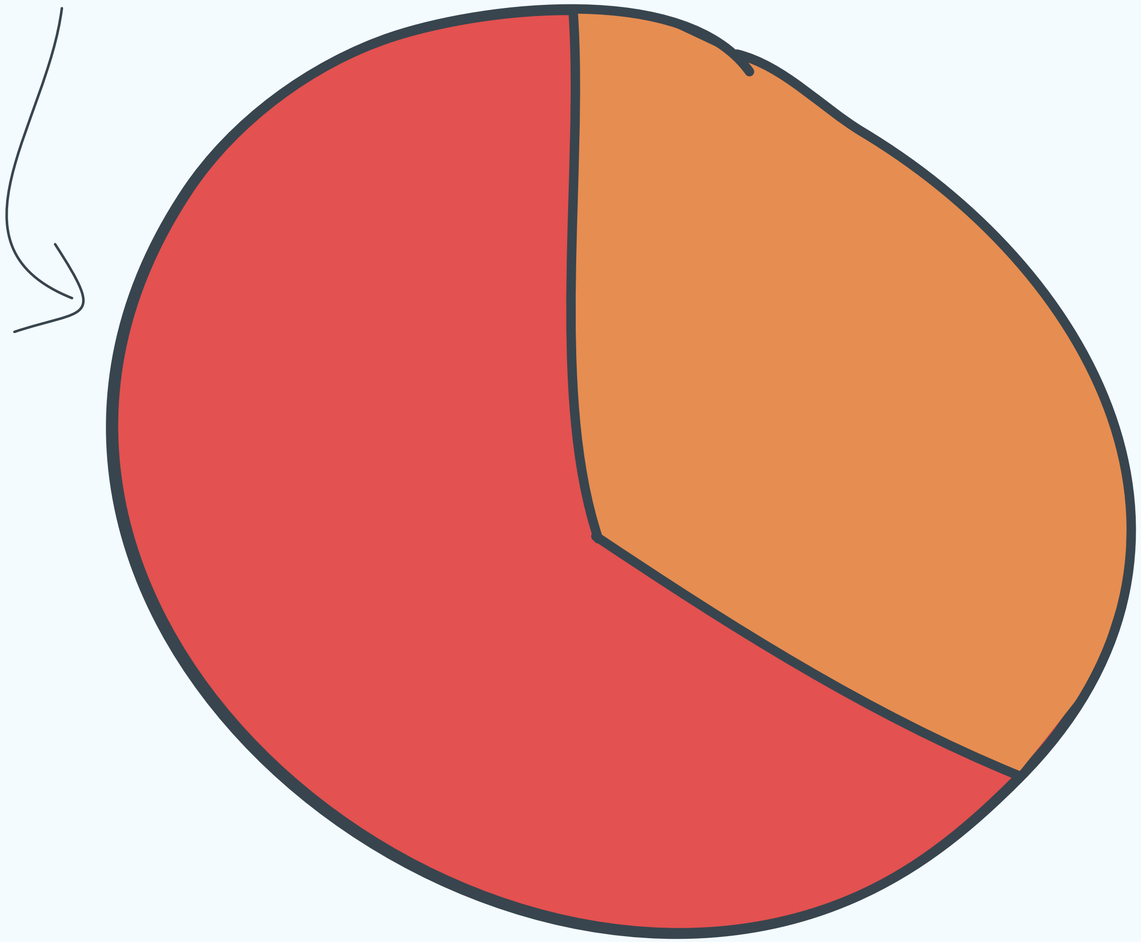

Innovation ●'s
high level
Today's dependency "culture"
low level
time

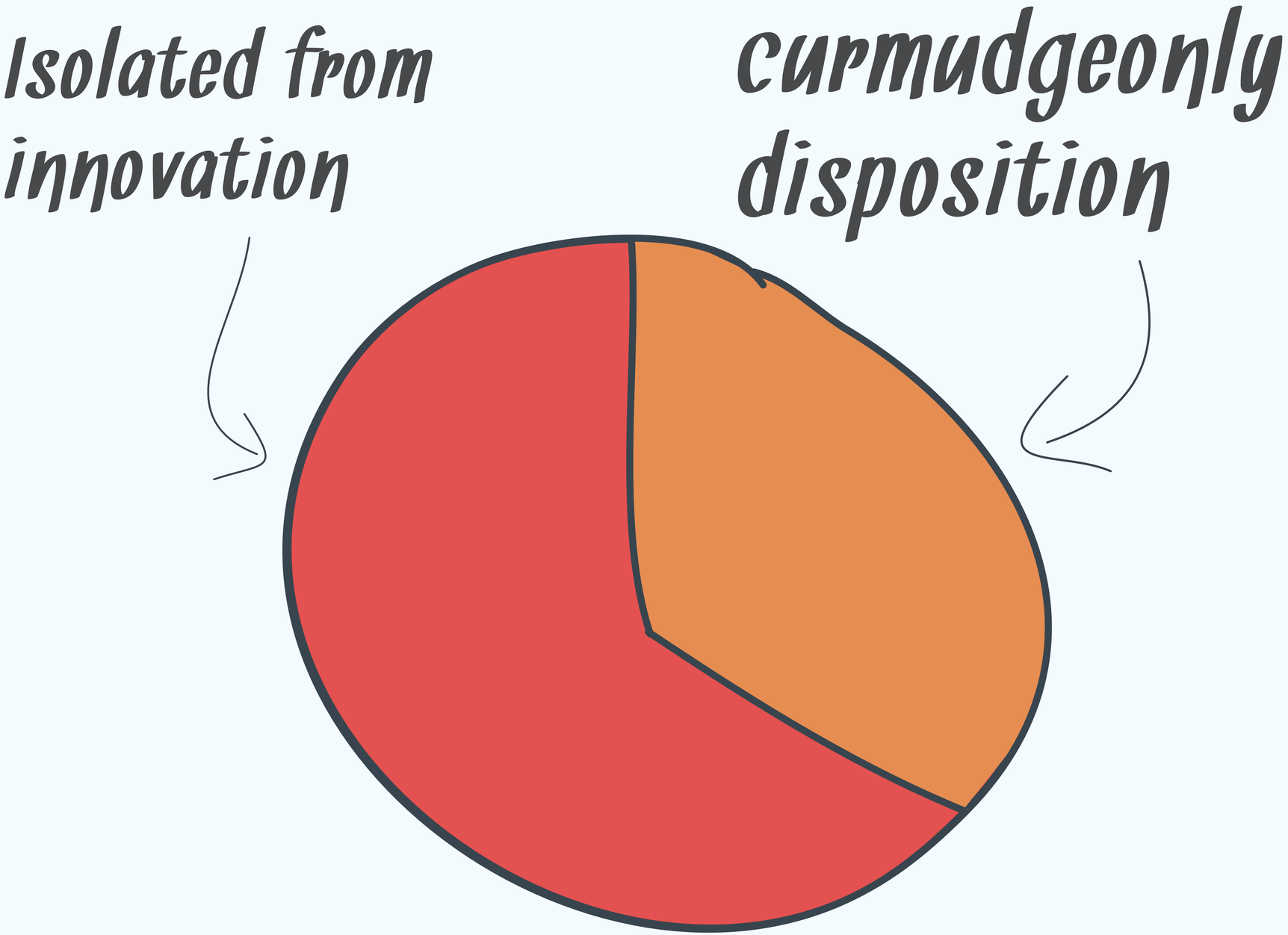

Innovation ●'s
high level
Today's dependency "culture"
How will it translate?
low level
time

Systems programmers tend to be conservative, cautious



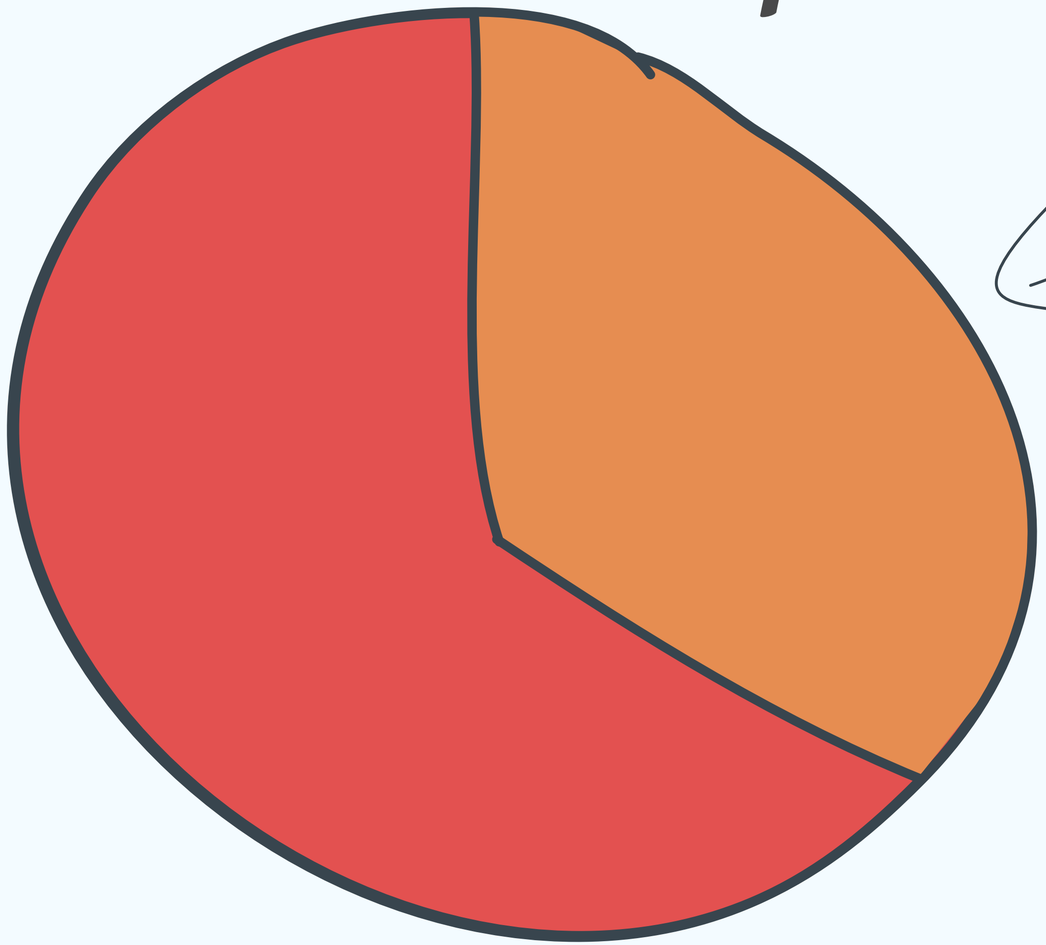
Isolated from innovation

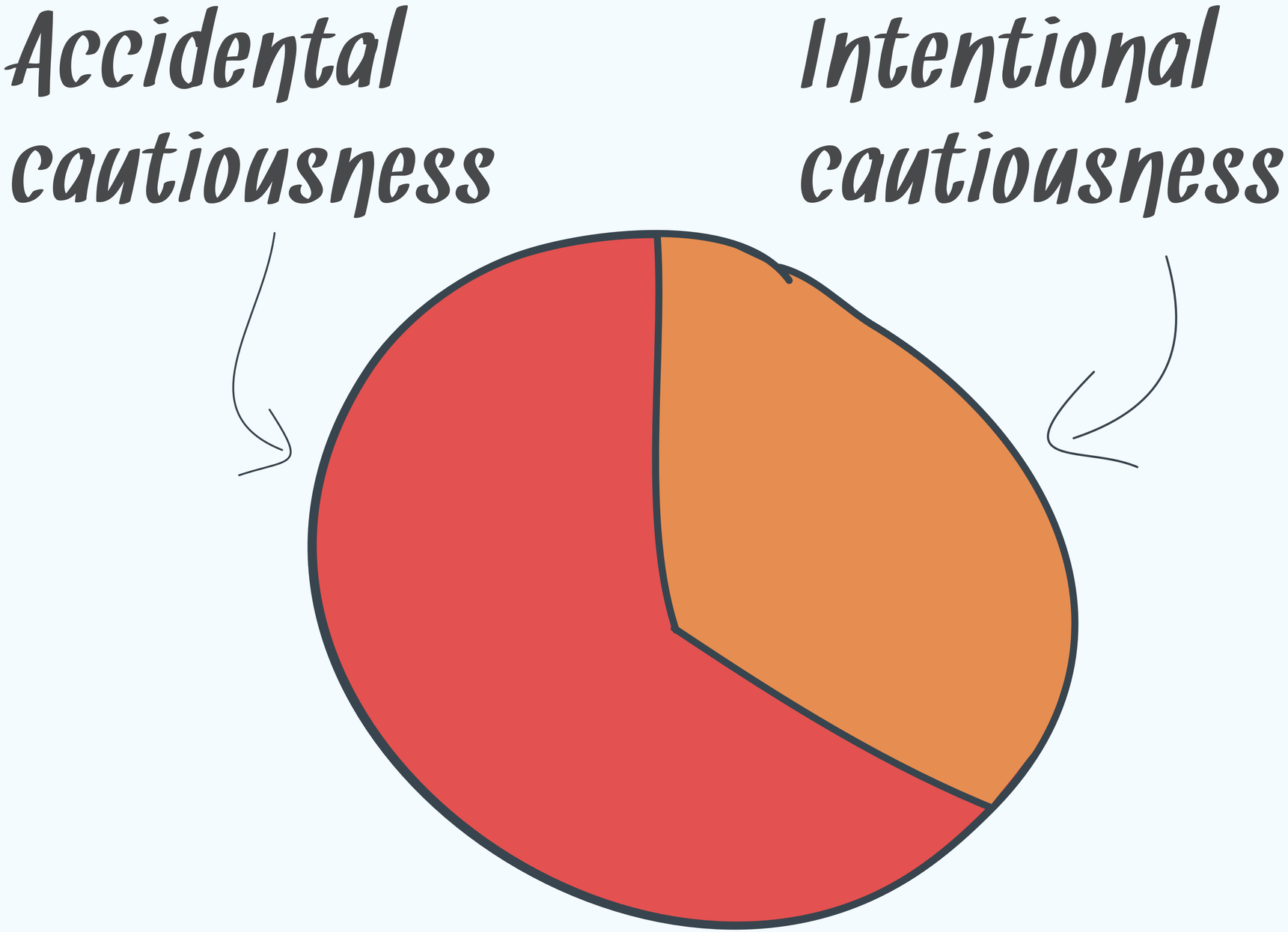



Isolated from innovation
curmudgeonly disposition

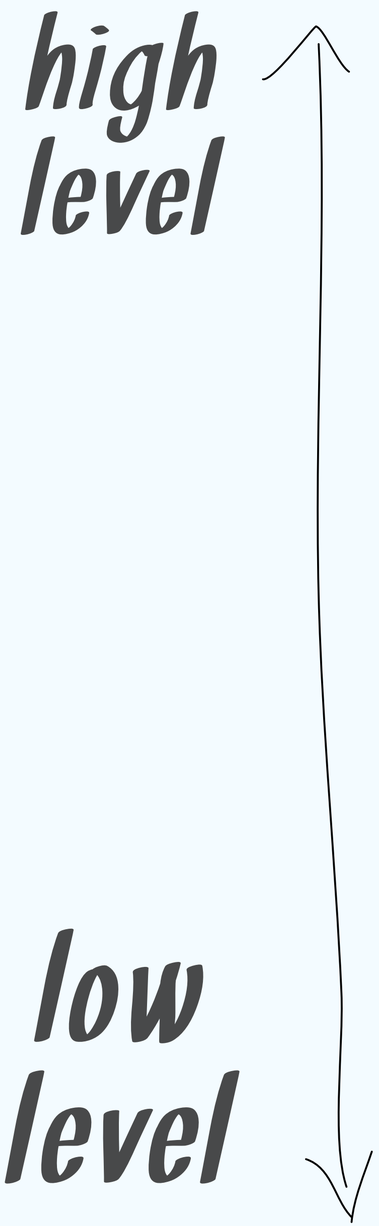
Accidental cautiousness

curmudgeonly disposition




Accidental cautiousness
Intentional cautiousness

Embedded & real-time failures may have grave consequences

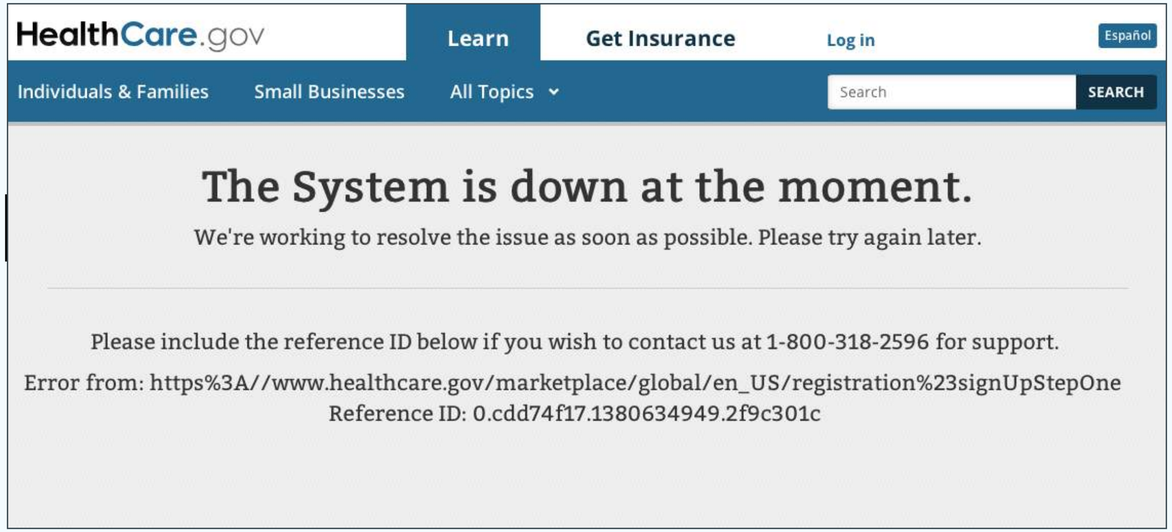

high
level
low
level

high level

HealthCare.gov

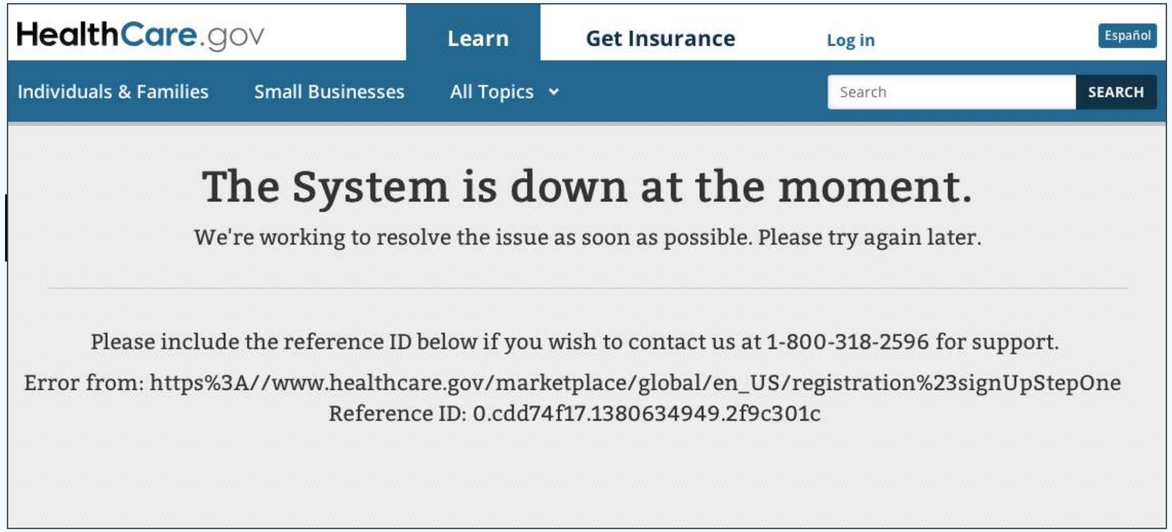
low level

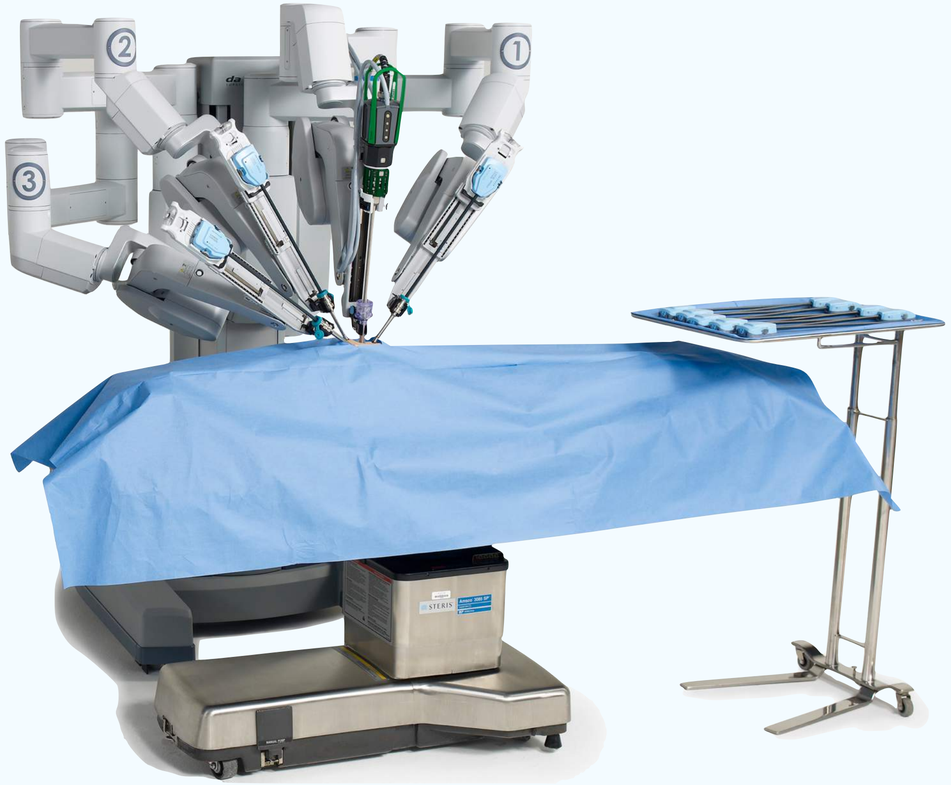
high level



low level

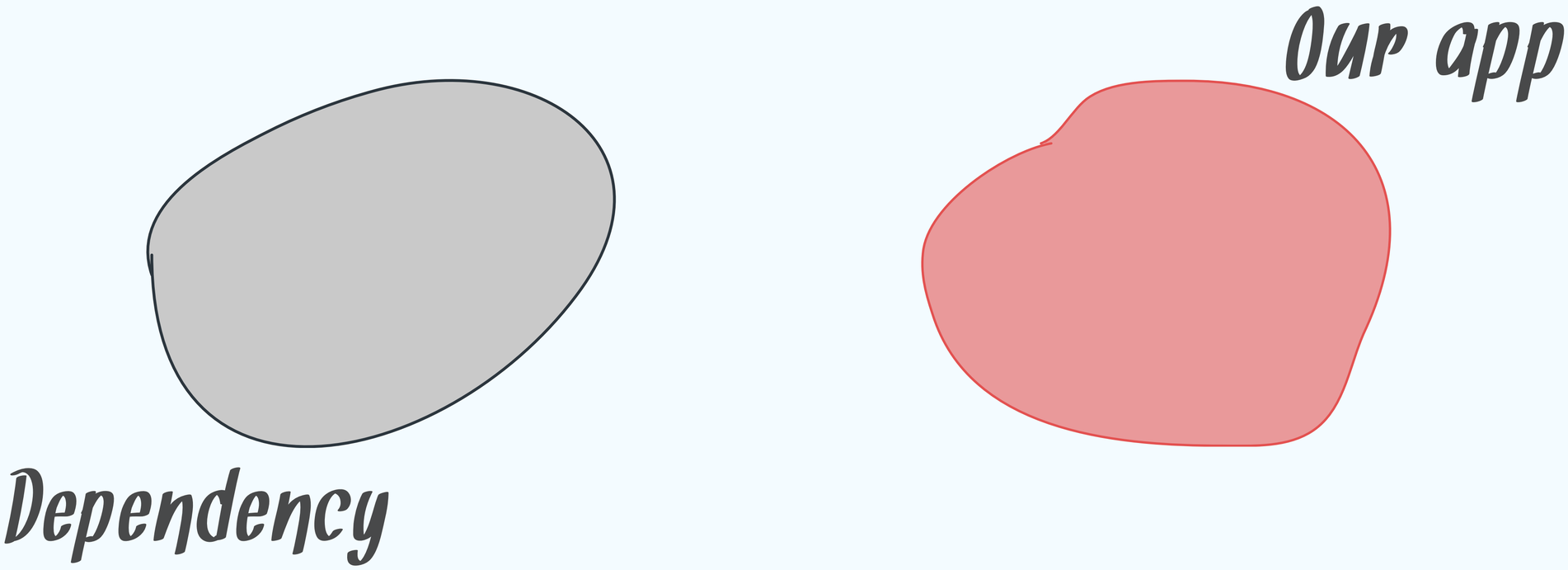
high level

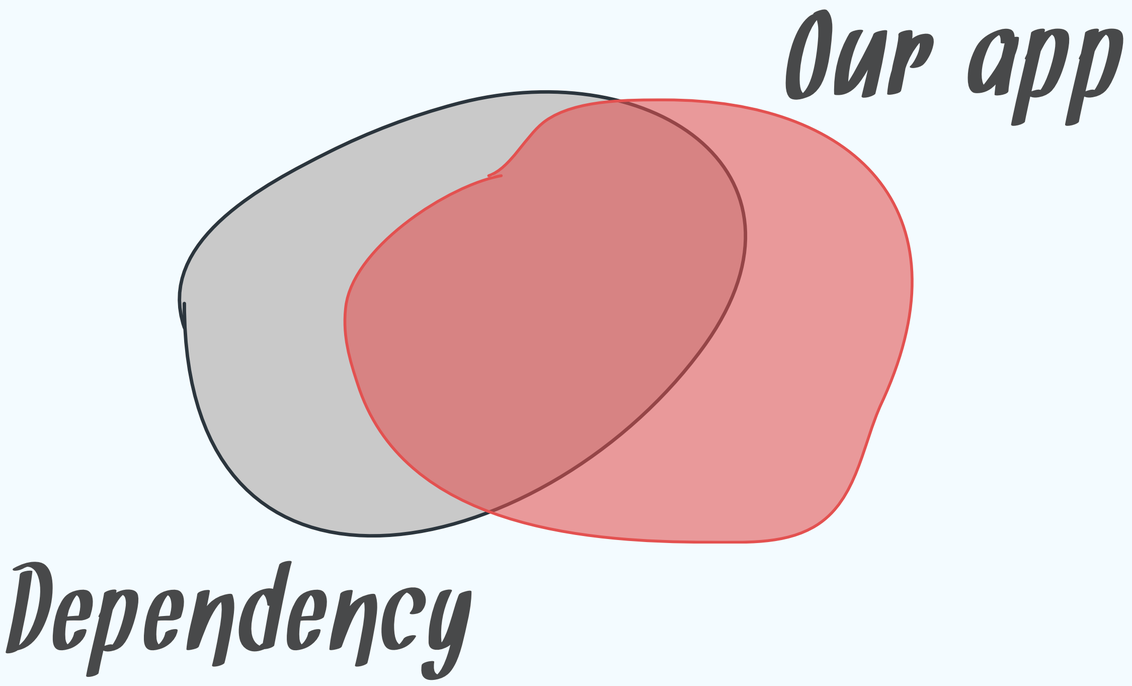




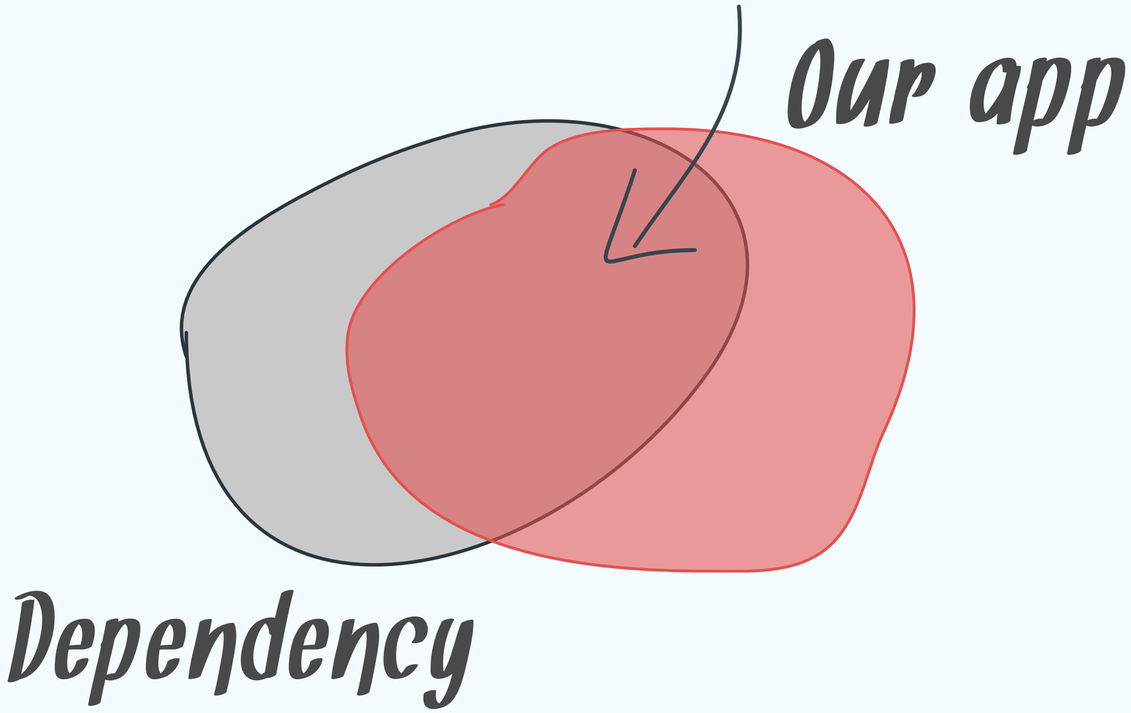
low level

Adopting a dependency outsources our understanding of how to do something


Our app
Dependency


Our app
Dependency

Understanding debt

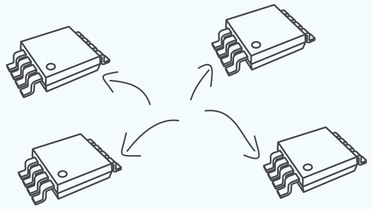


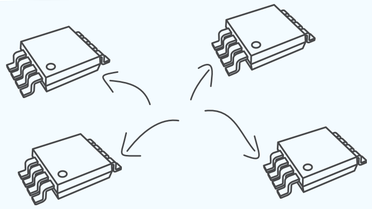
"Understanding debt" can be paid down by iterating

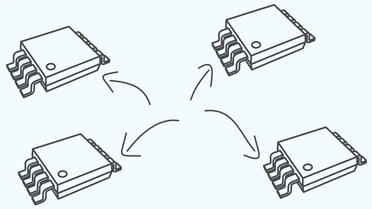
If iterative releases aren't possible,
don't outsource understanding

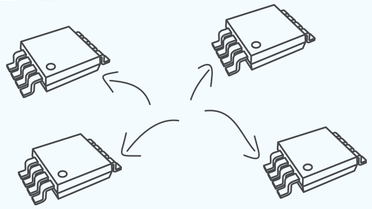
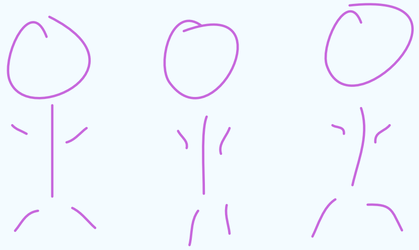
high level	low level

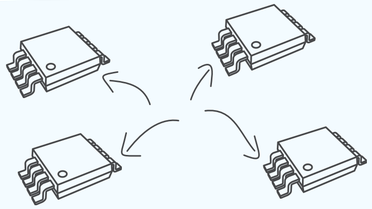
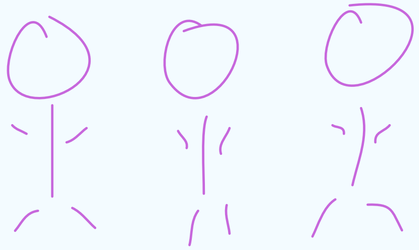
high level	low level

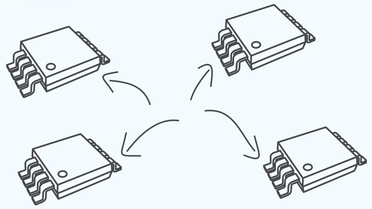
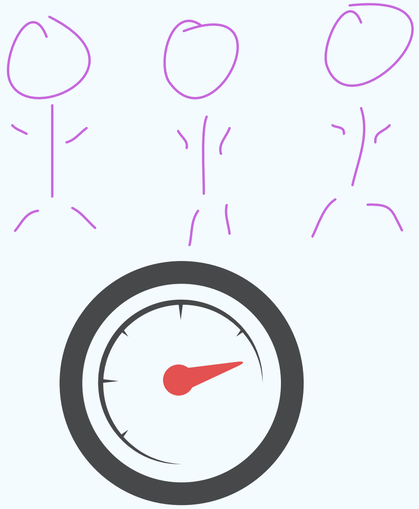
high level	low level
	

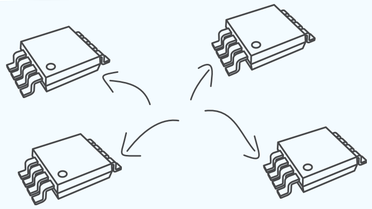
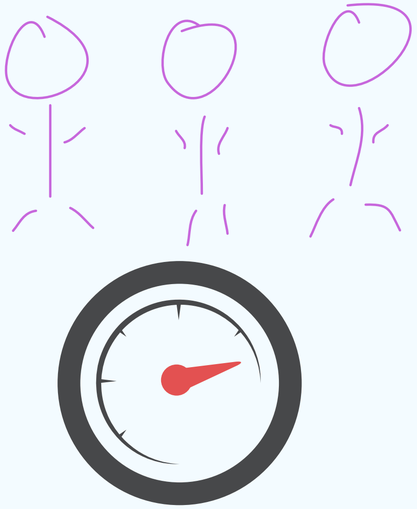
high level	low level
	
5 years	

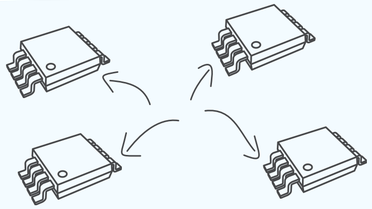
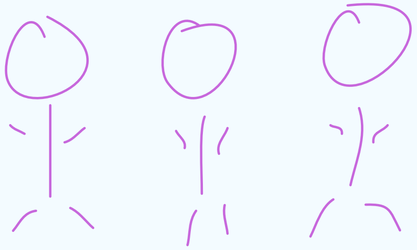
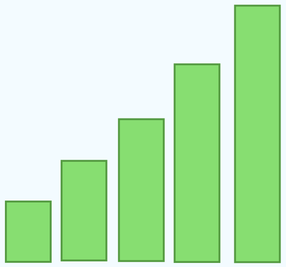
high level	low level
	
5 years	30 years

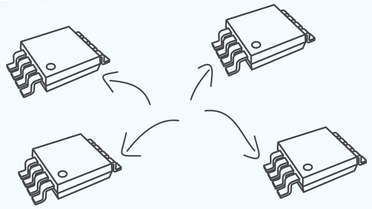
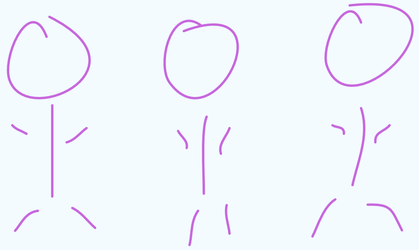
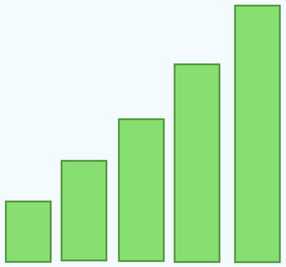
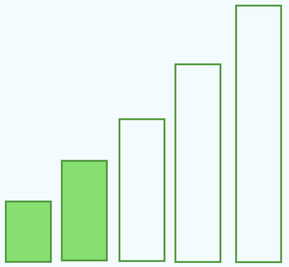
high level	low level
	
5 years	30 years
	

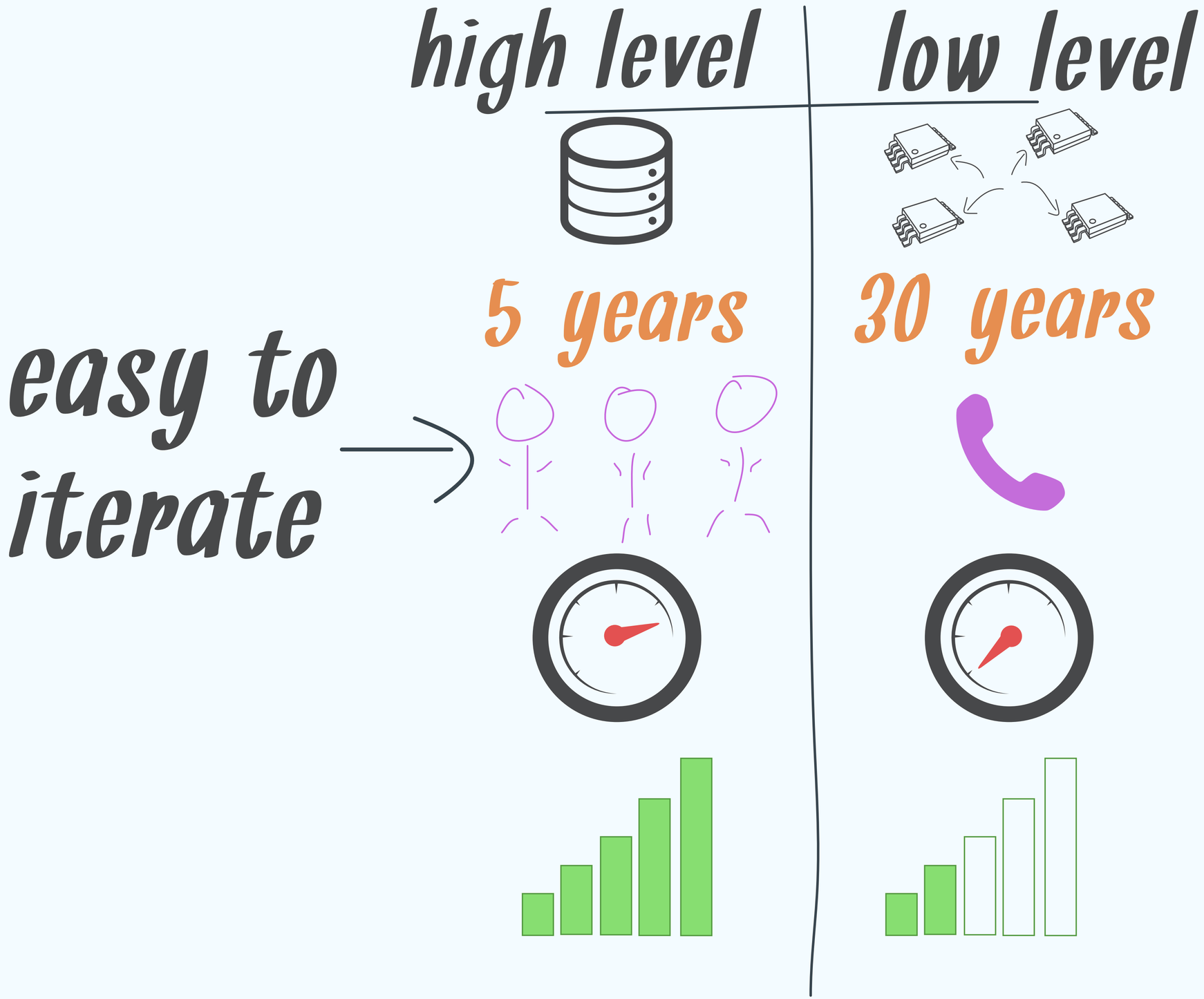
high level	low level
	
5 years	30 years
	

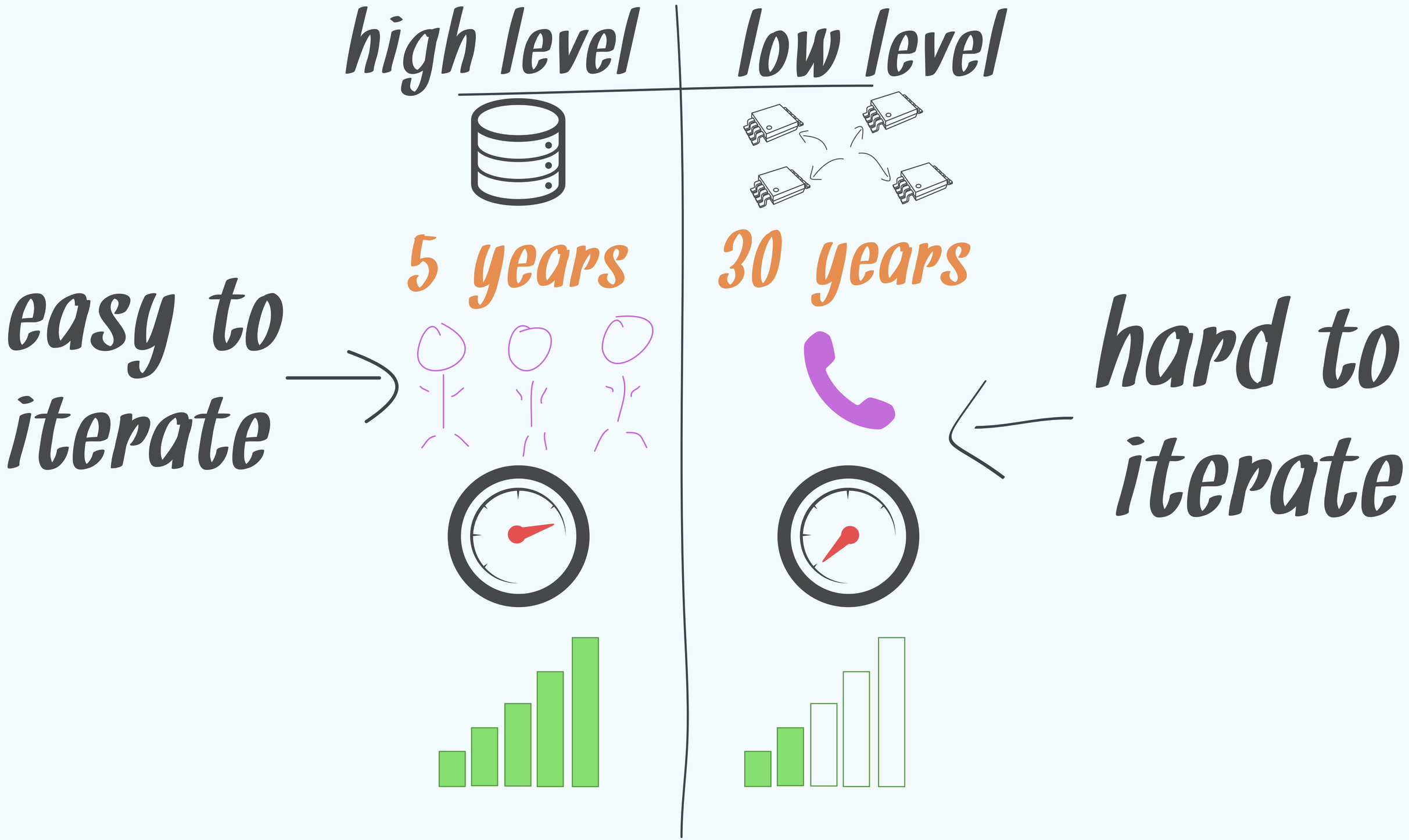
high level	low level
	
5 years	30 years
	

high level	low level
	
5 years	30 years
	

high level	low level
	
5 years	30 years
	
	

high level	low level
	
5 years	30 years
	
	


high level
low level
5 years
30 years
easy to iterate


high level
low level
5 years
30 years
easy to iterate
hard to iterate

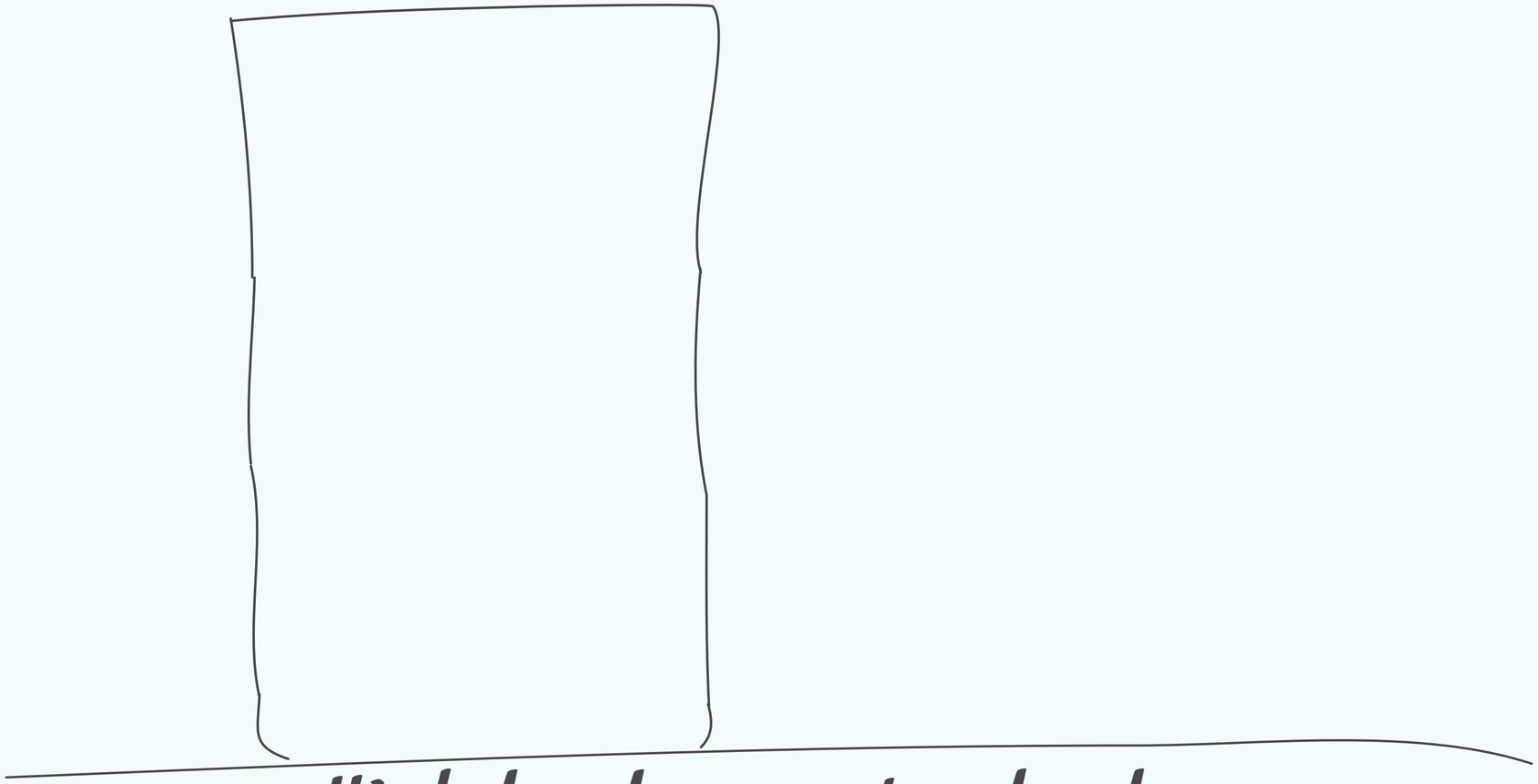
These concerns require deeper up-front understanding of low-level systems

Depth of Understanding

High level
web app

Low level
plane control

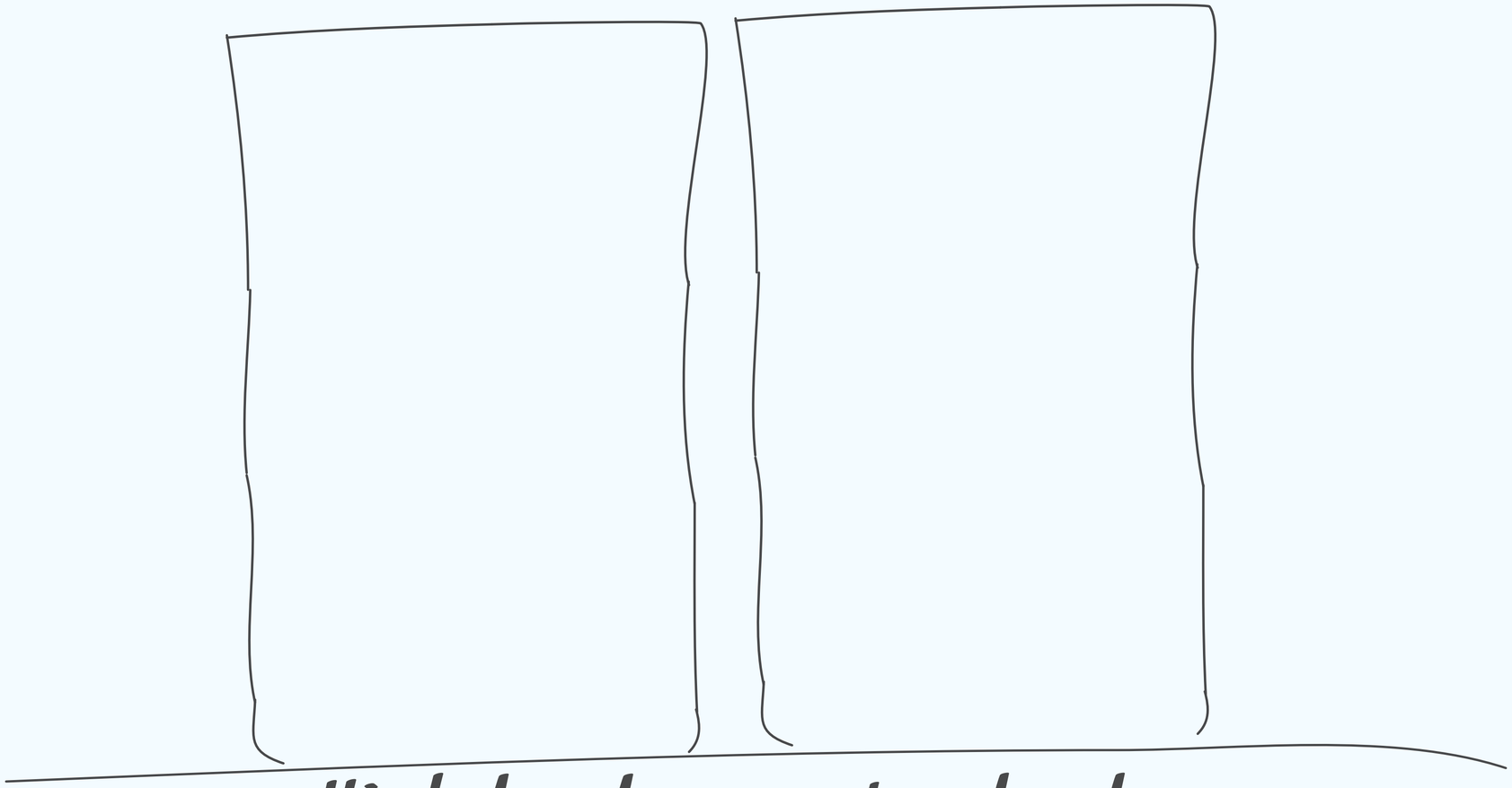
Depth of Understanding



High level
web app

Low level
plane control

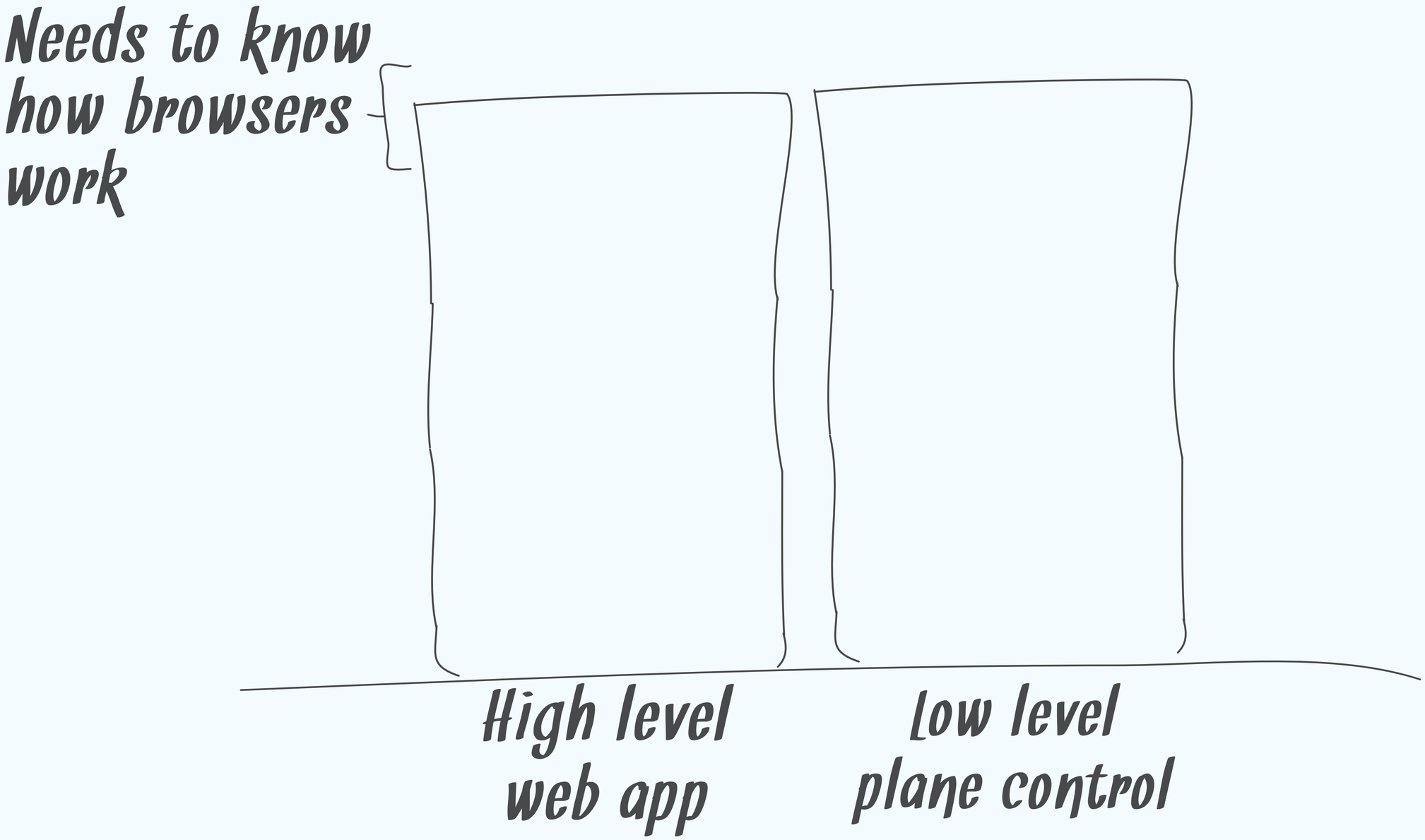
Depth of Understanding



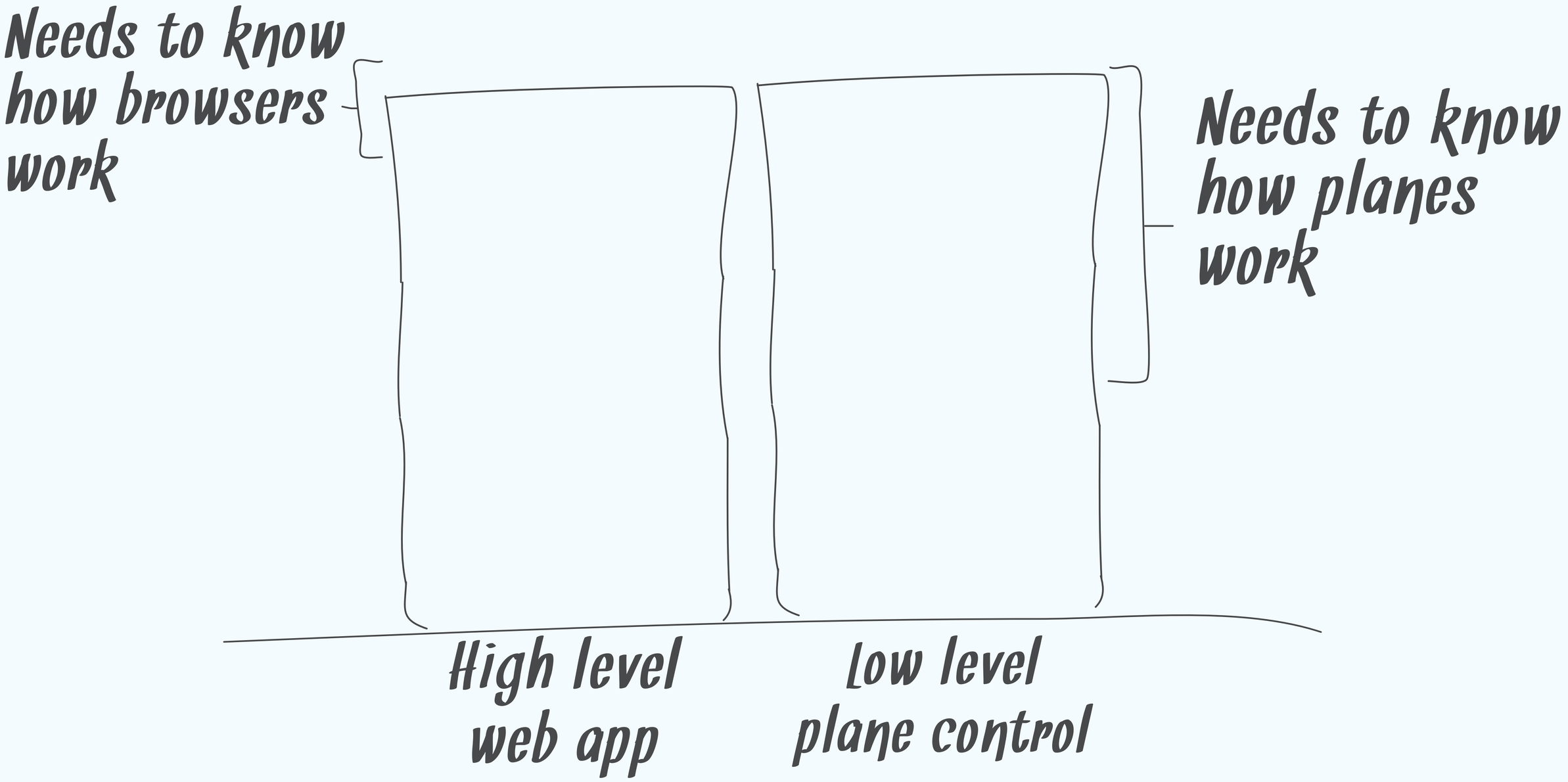
High level
web app

Low level
plane control

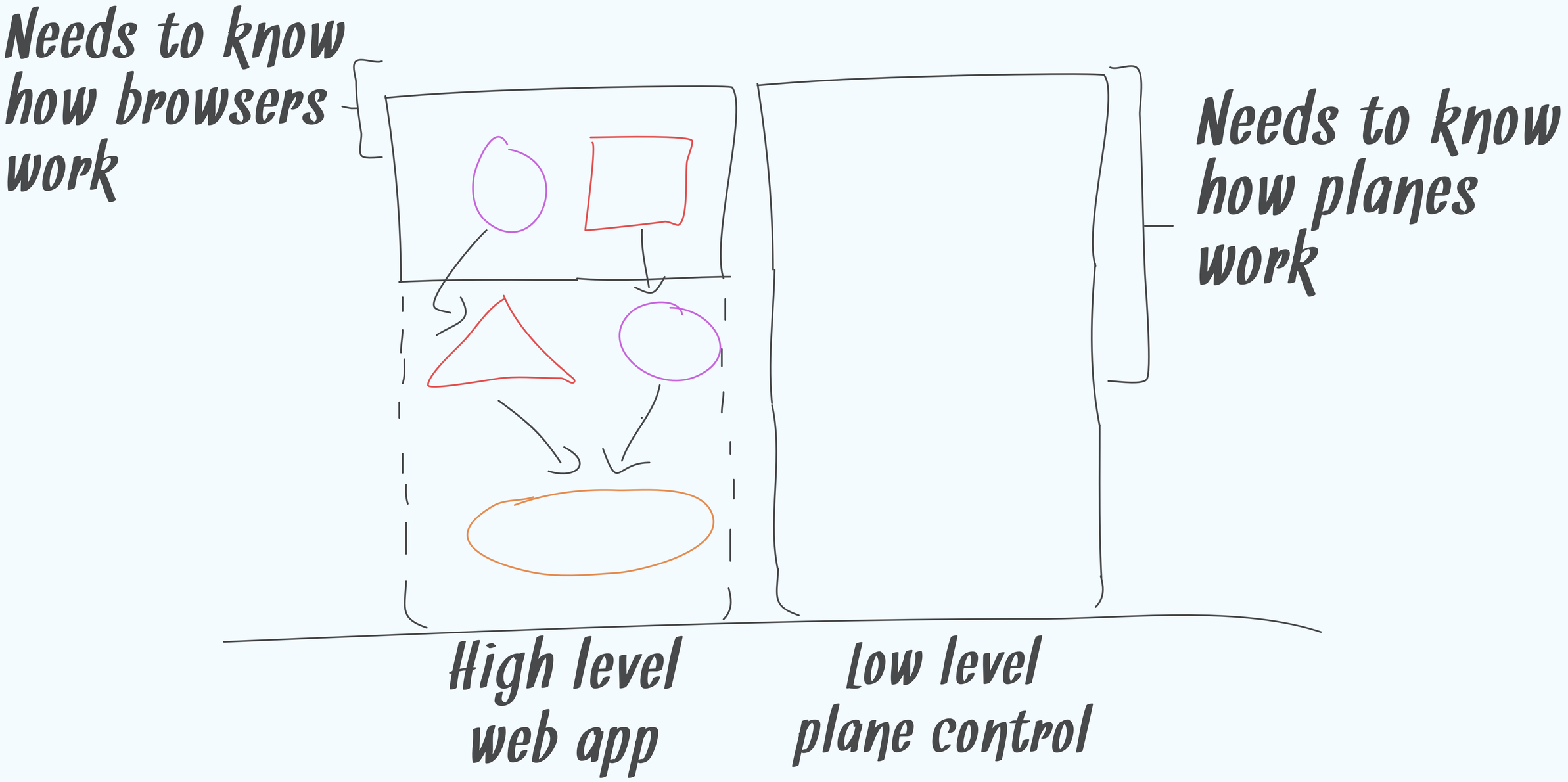
Depth of Understanding



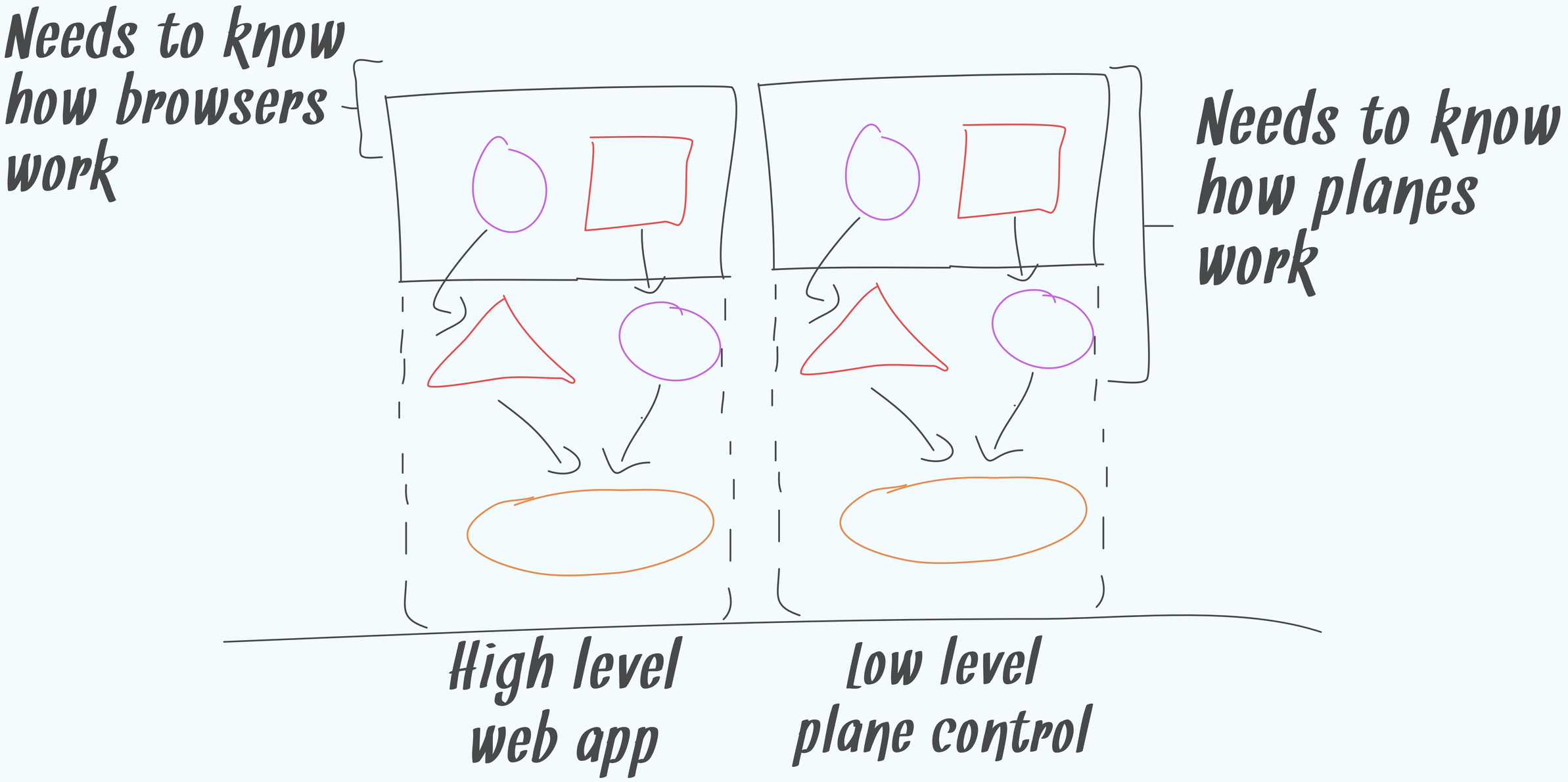
Depth of Understanding



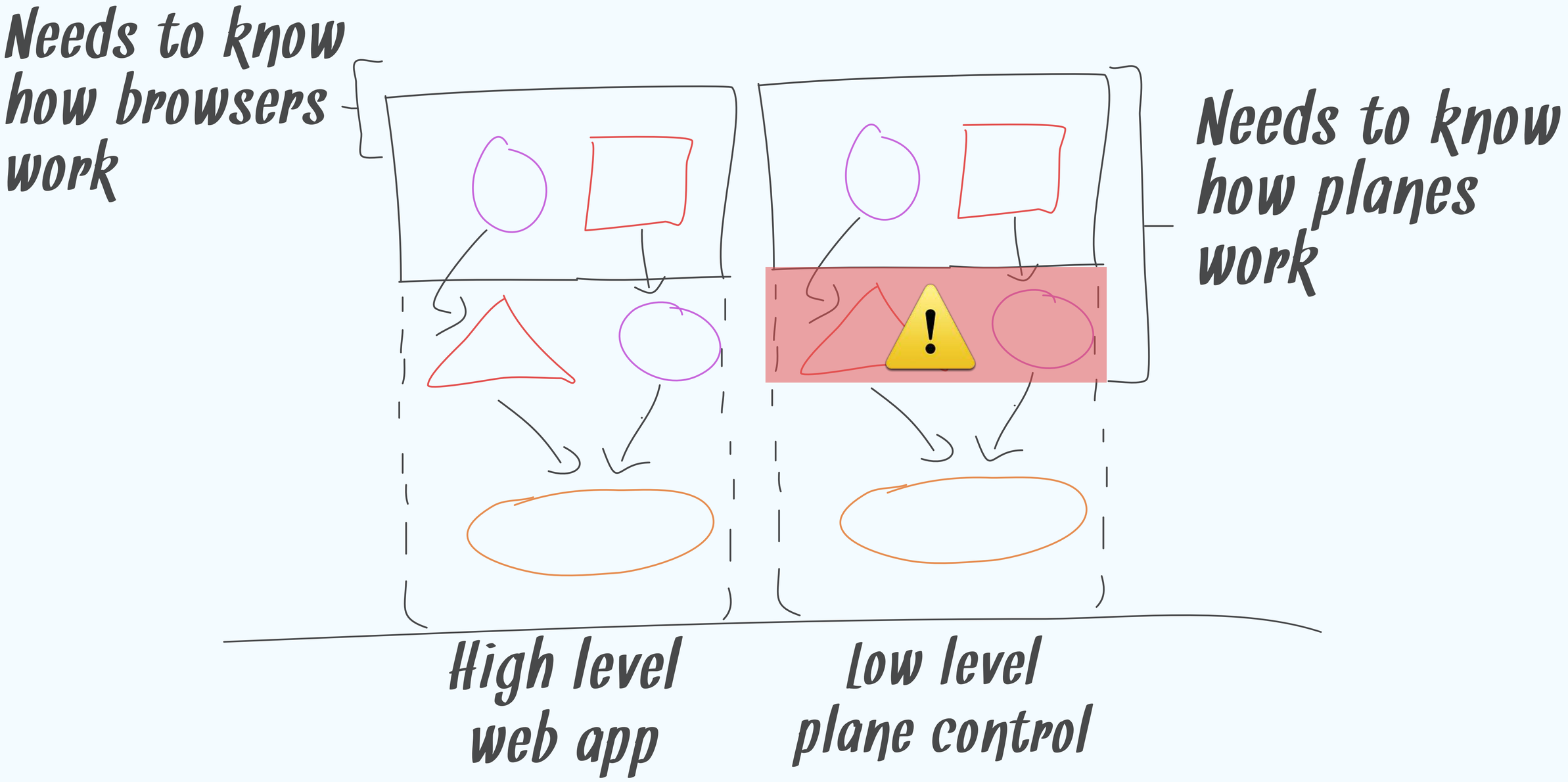
Depth of Understanding



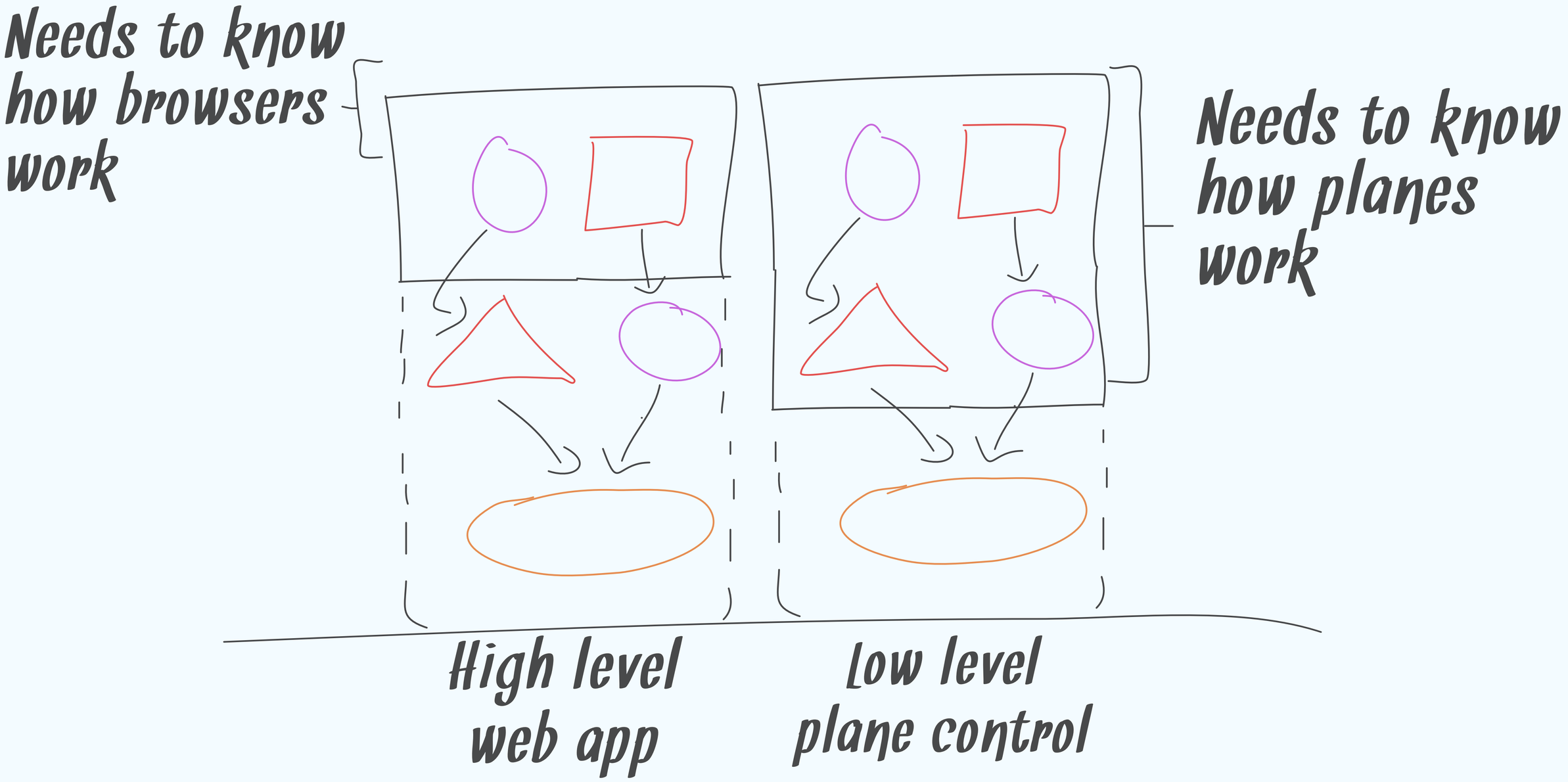
Depth of Understanding



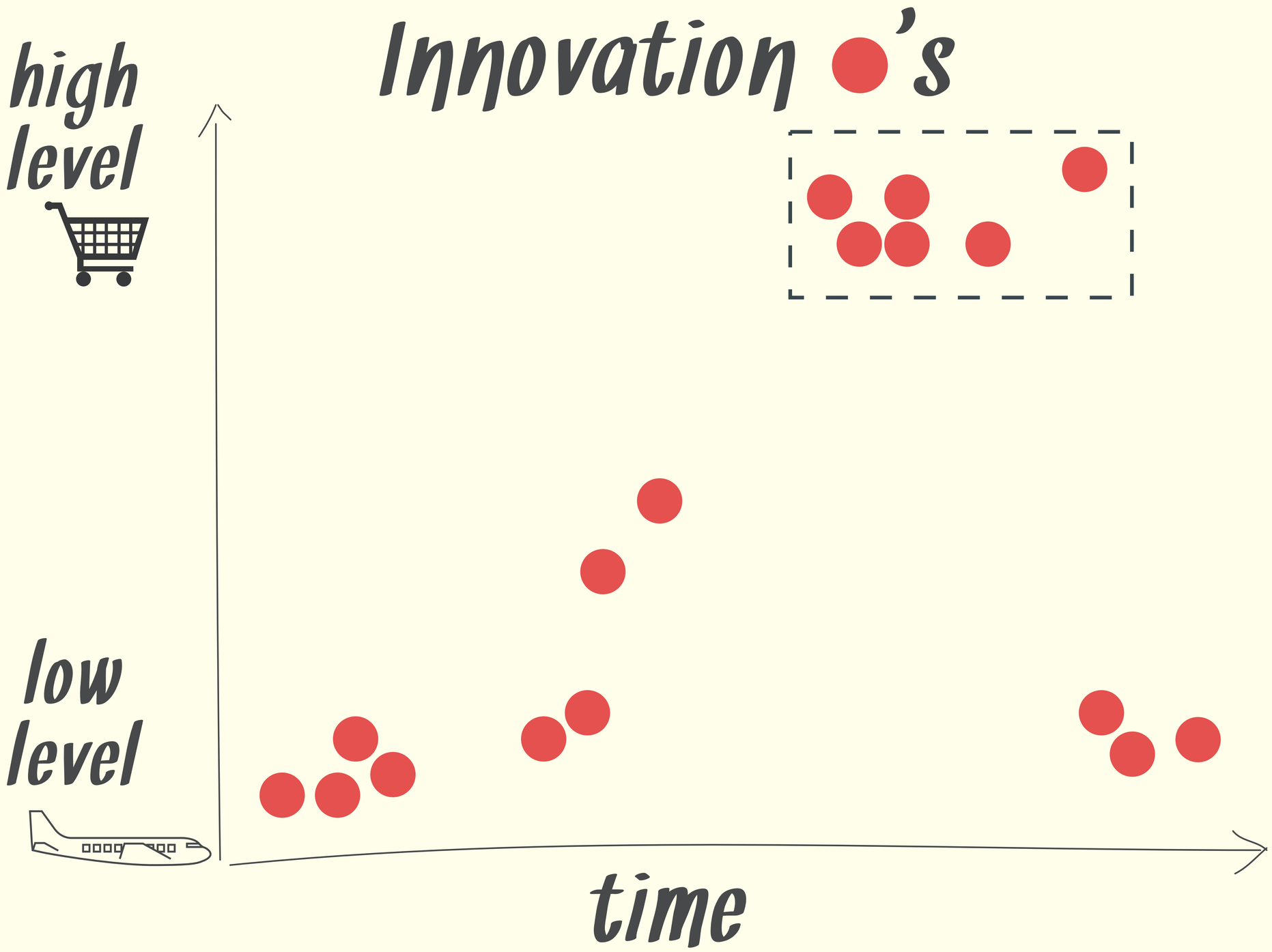
Depth of Understanding

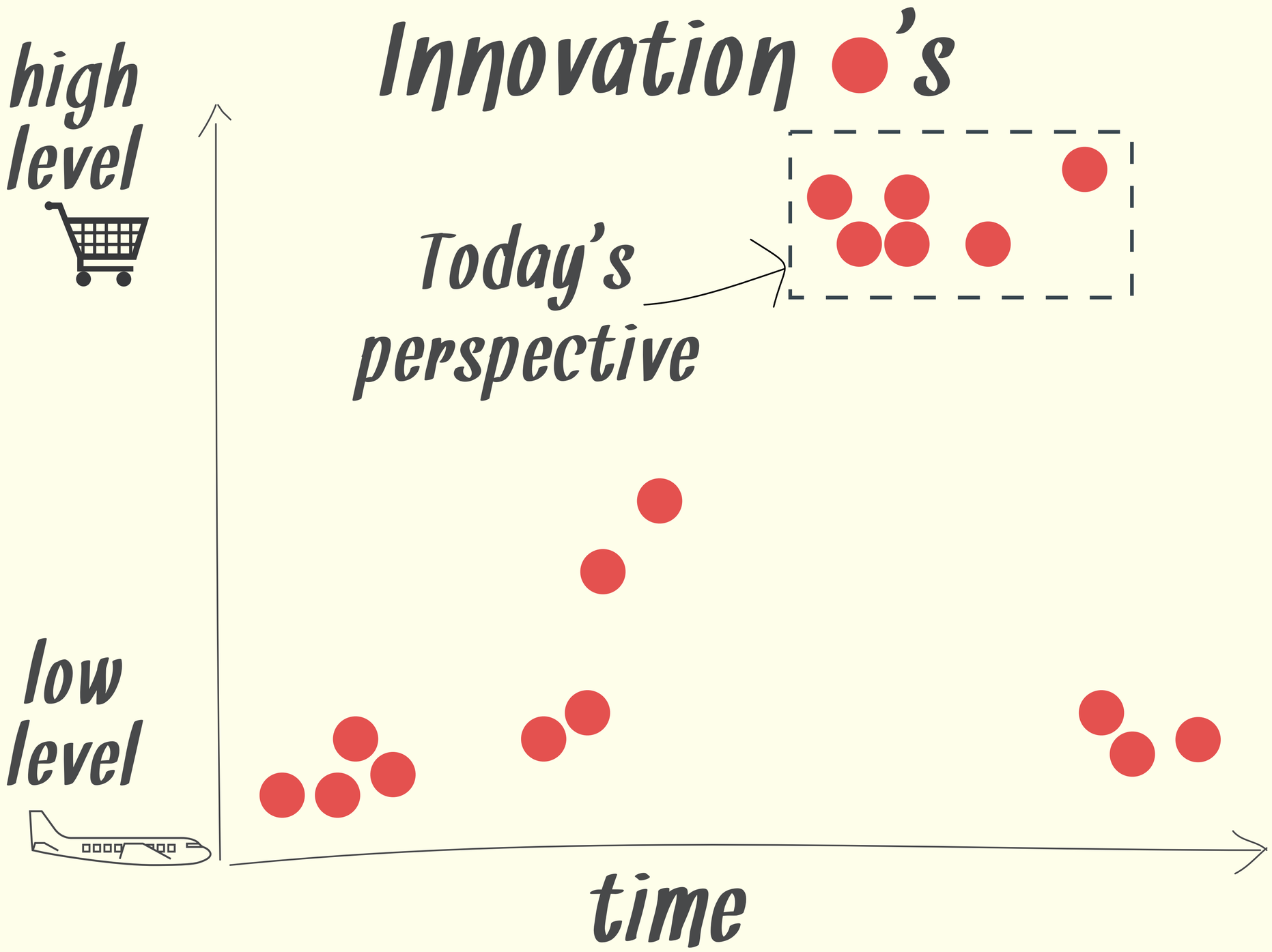


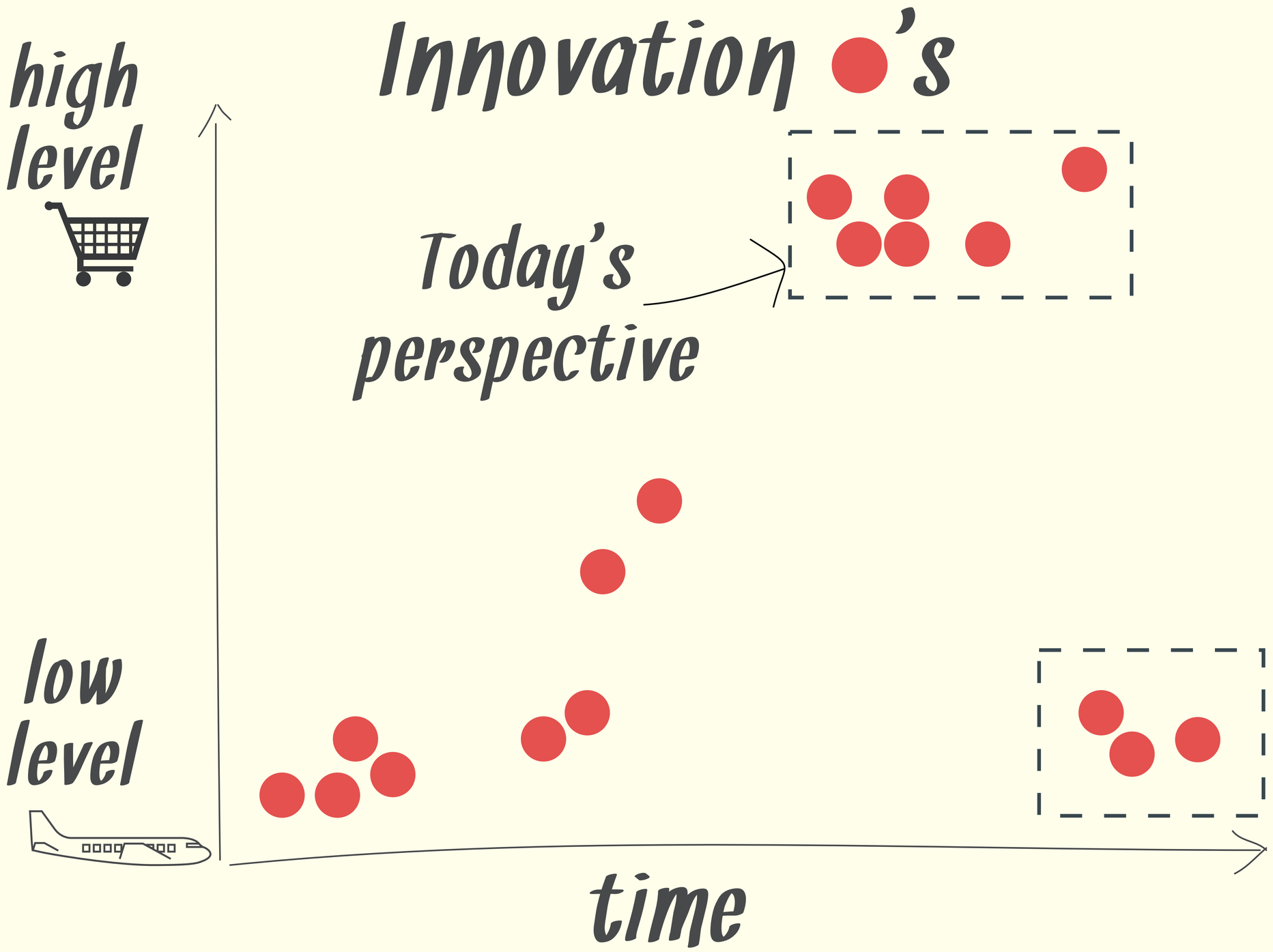
Depth of Understanding

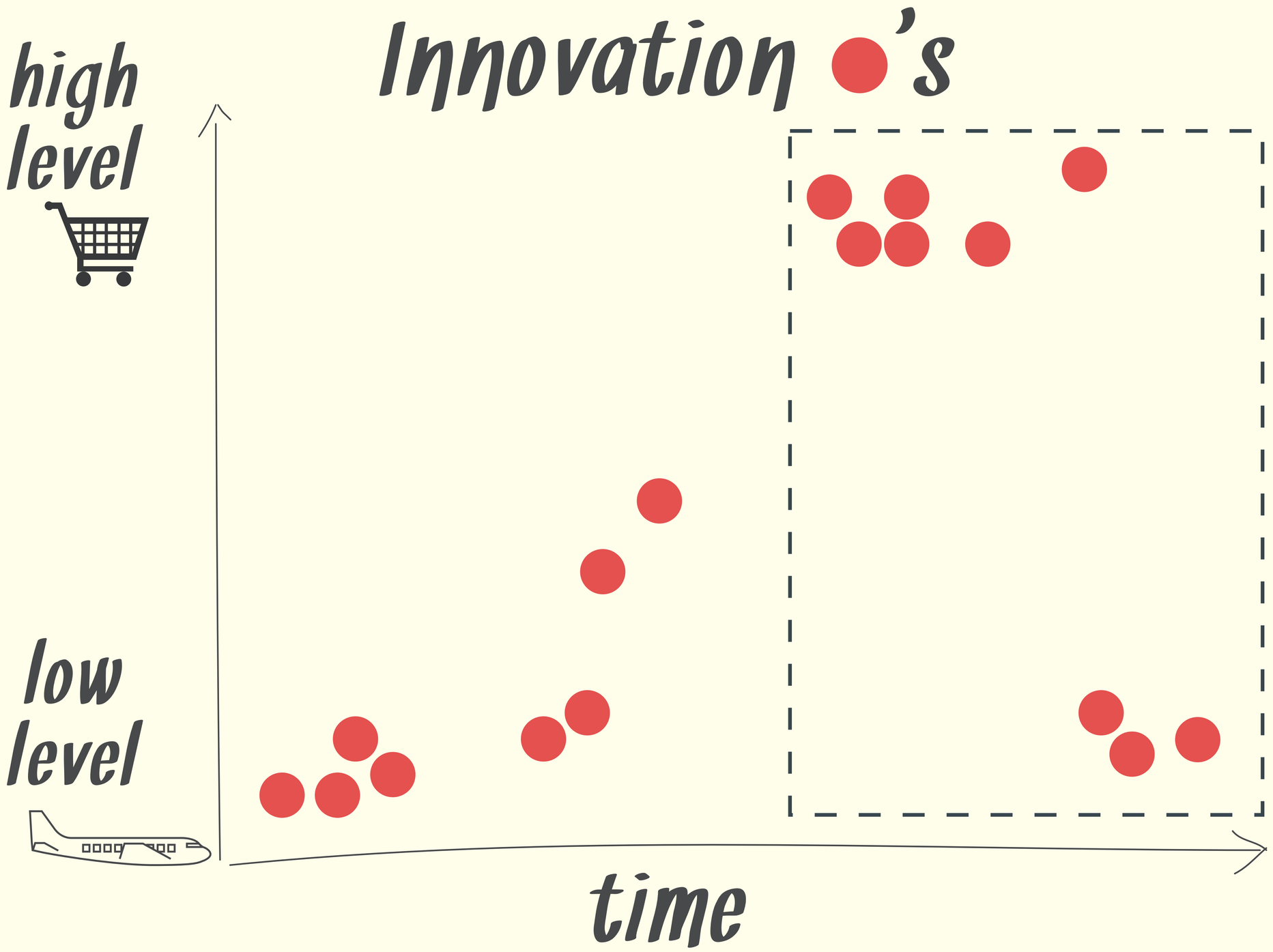


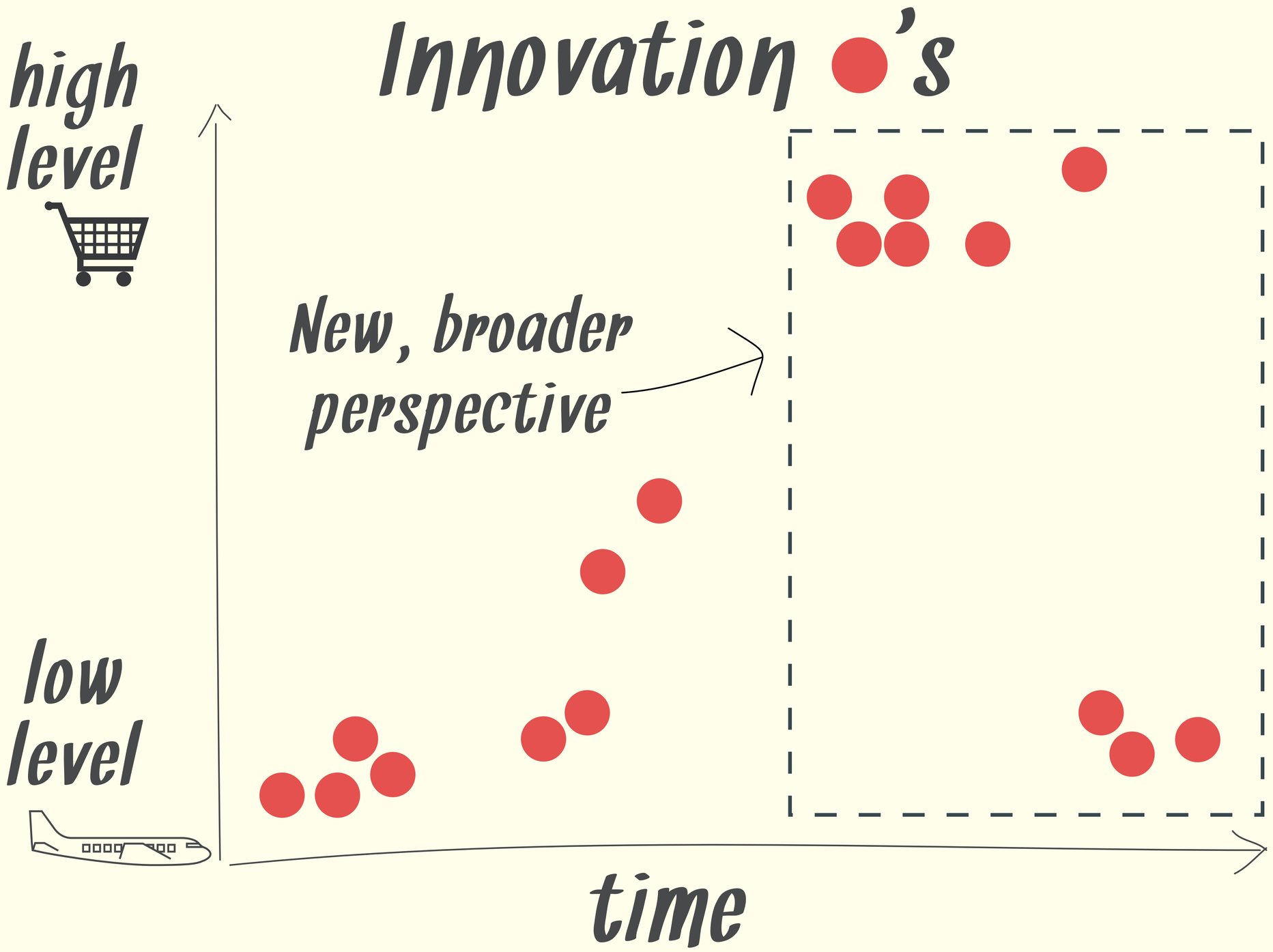
"Modern" tooling is a product of high-level web development


Innovation ●'s
high level
low level
time

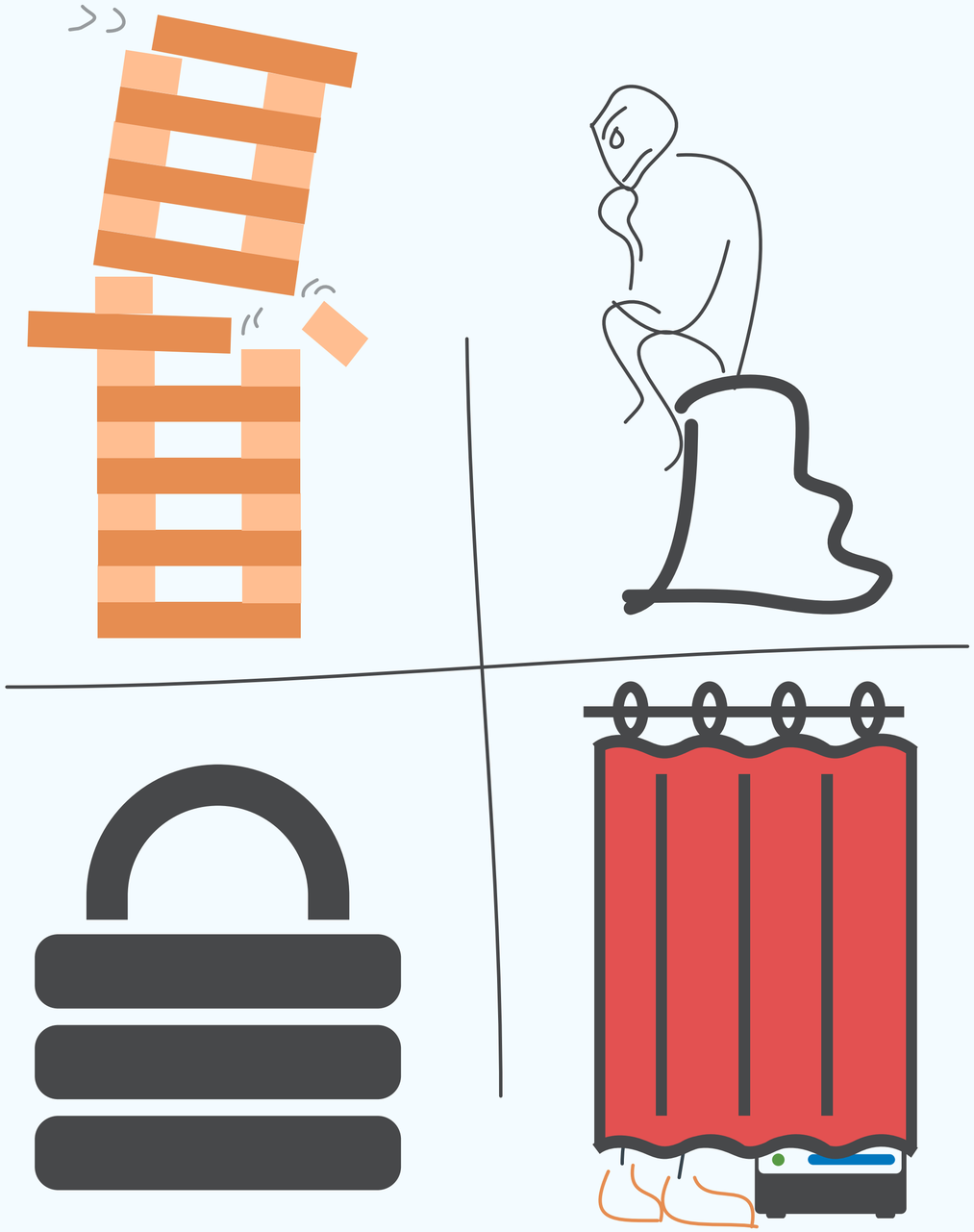

Innovation ●'s
high level
low level
Today's perspective
time


Innovation ●'s
high level
Today's perspective
low level
time

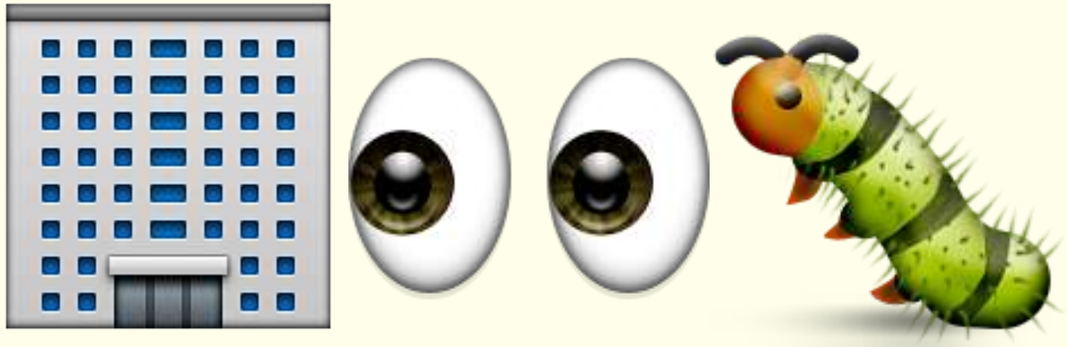

Innovation ●'s
high level
low level
time

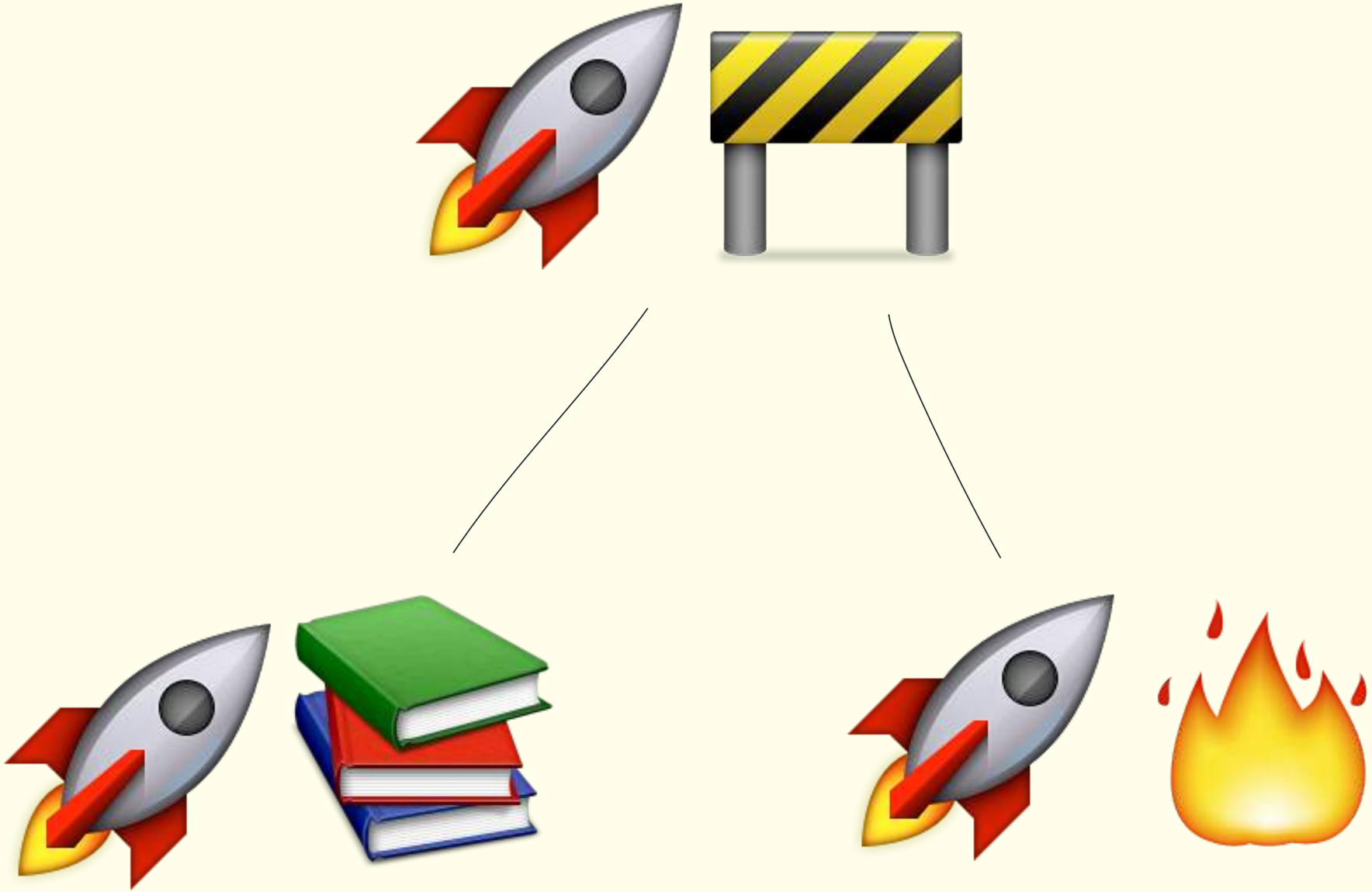

Innovation ●'s
high level
low level
New, broader perspective
time

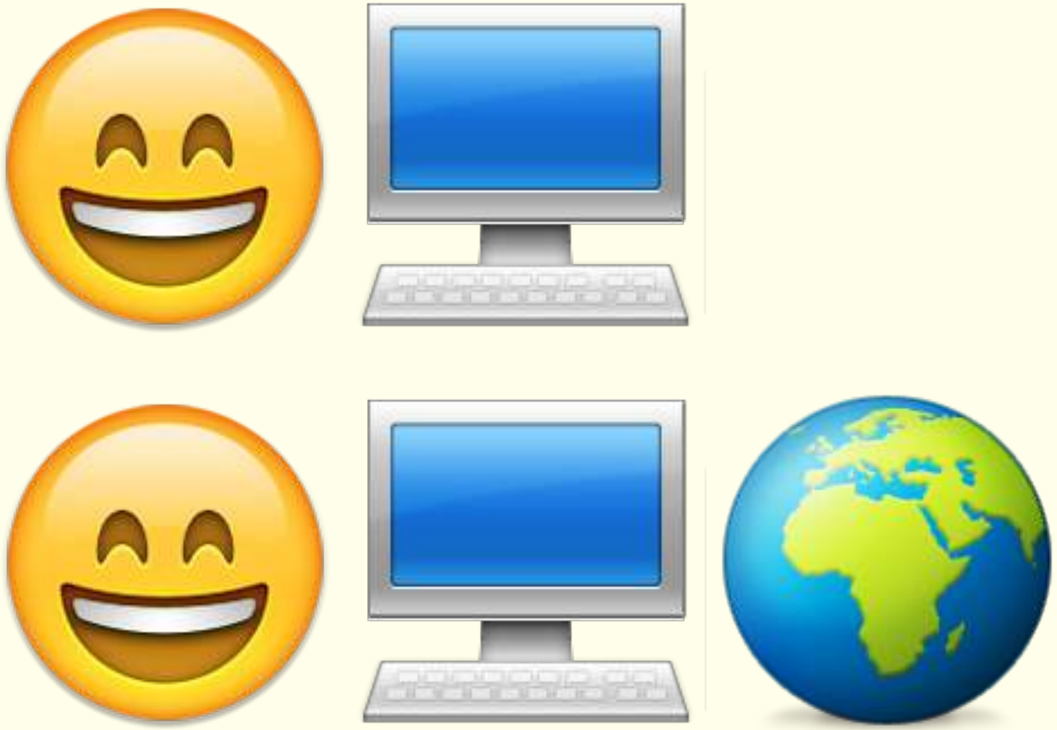
Systems innovations may reciprocate some cautiousness & understanding

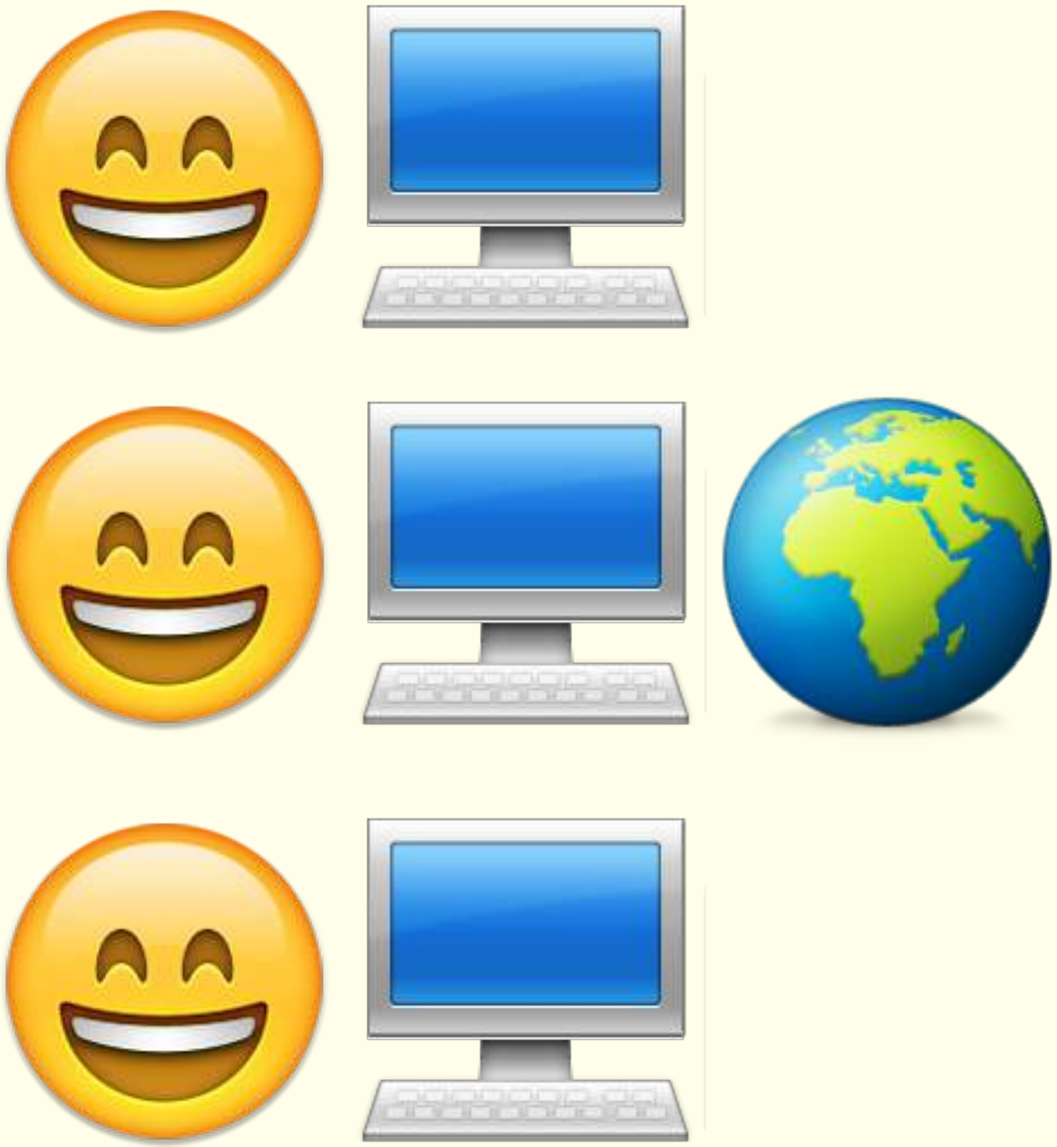


Open Source can be better!









td

My name is **Justin Searls**

Please tweet me **@searls** &

Say **hello@testdouble.com**

td

Please say hello if your team could use our team's help 😃

td

Like everyone, we're hiring!

Just **join@testdouble.com**

Find me during a break to chat

or to grab a td sticker!

td

My name is **Justin Searls**

Please tweet me **@searls** &

Say **hello@testdouble.com**

Attribution:

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 Blaise 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 Waschbüsch 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