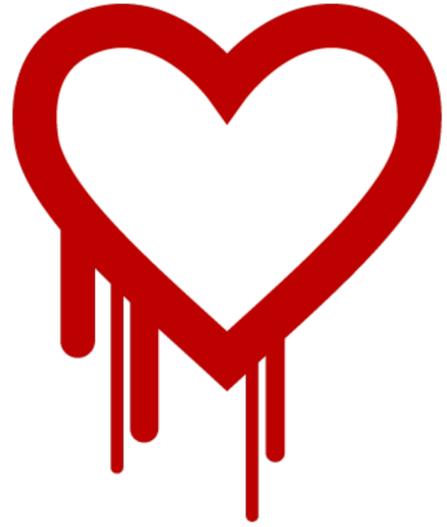


Towards a sustainable solution to open source sustainability

Tobie Langel, Principal, UnlockOpen



The Heartbleed Bug



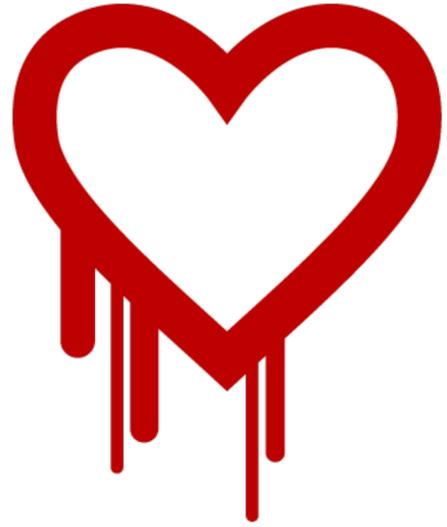
Heartbleed bug impact

 **4.5 MILLION**

The number of US patient records whose confidentiality was compromised.

 **\$500 MILLION**

Estimated cost to the industry.



Pivotal moment where tech industry realizes open source is:

UBIQUITOUS

2/3 of active sites on the Internet rely on the OpenSSL library.

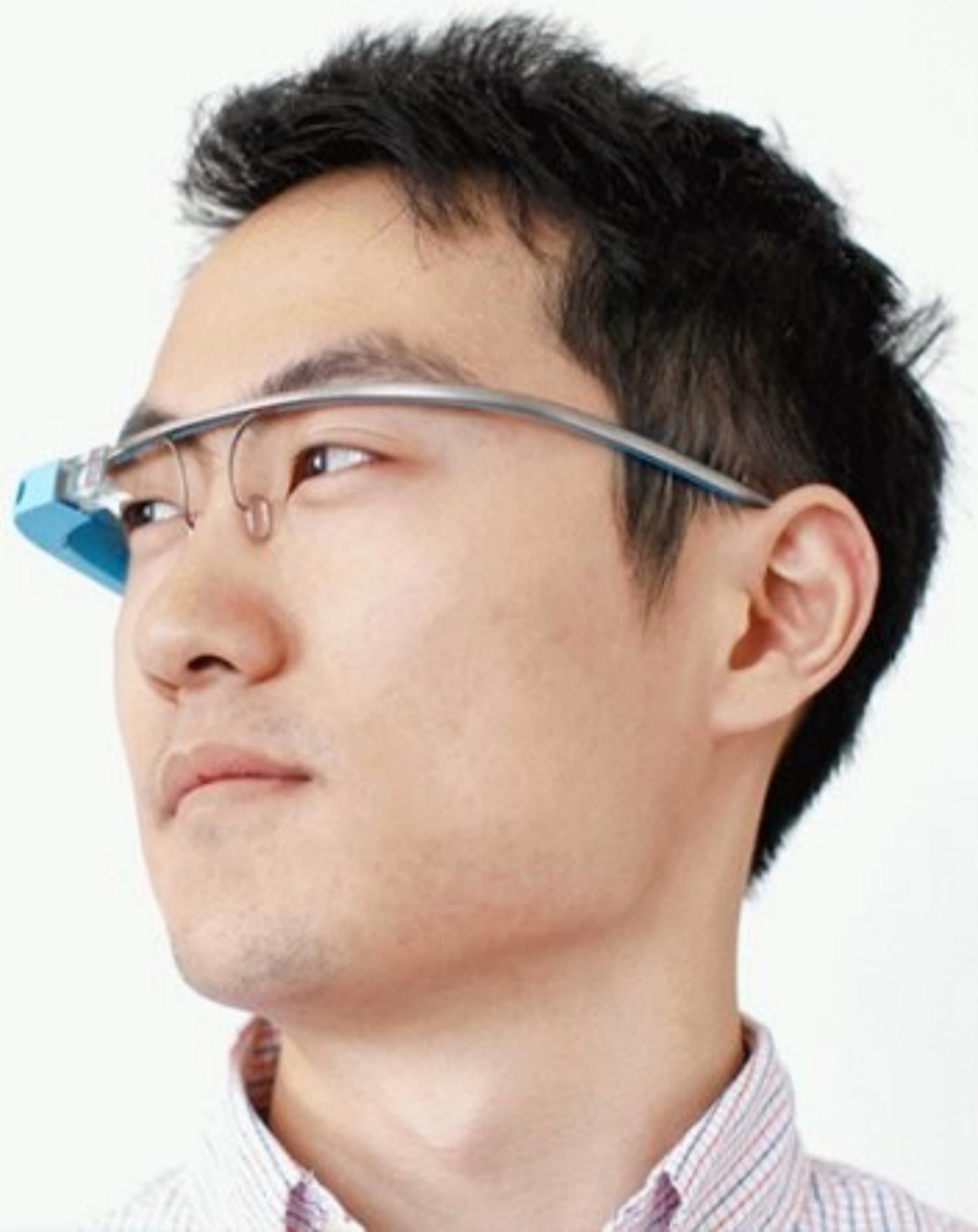
CRITICAL

OpenSSL encrypts private communications, bank transactions, medical records, etc.

UNDERFUNDED

Only 1 full-time maintainer, shoestring budget (\$2k/year).





PATREON |

FOCUS

Originally aimed at artists, musicians & writers.

GOAL

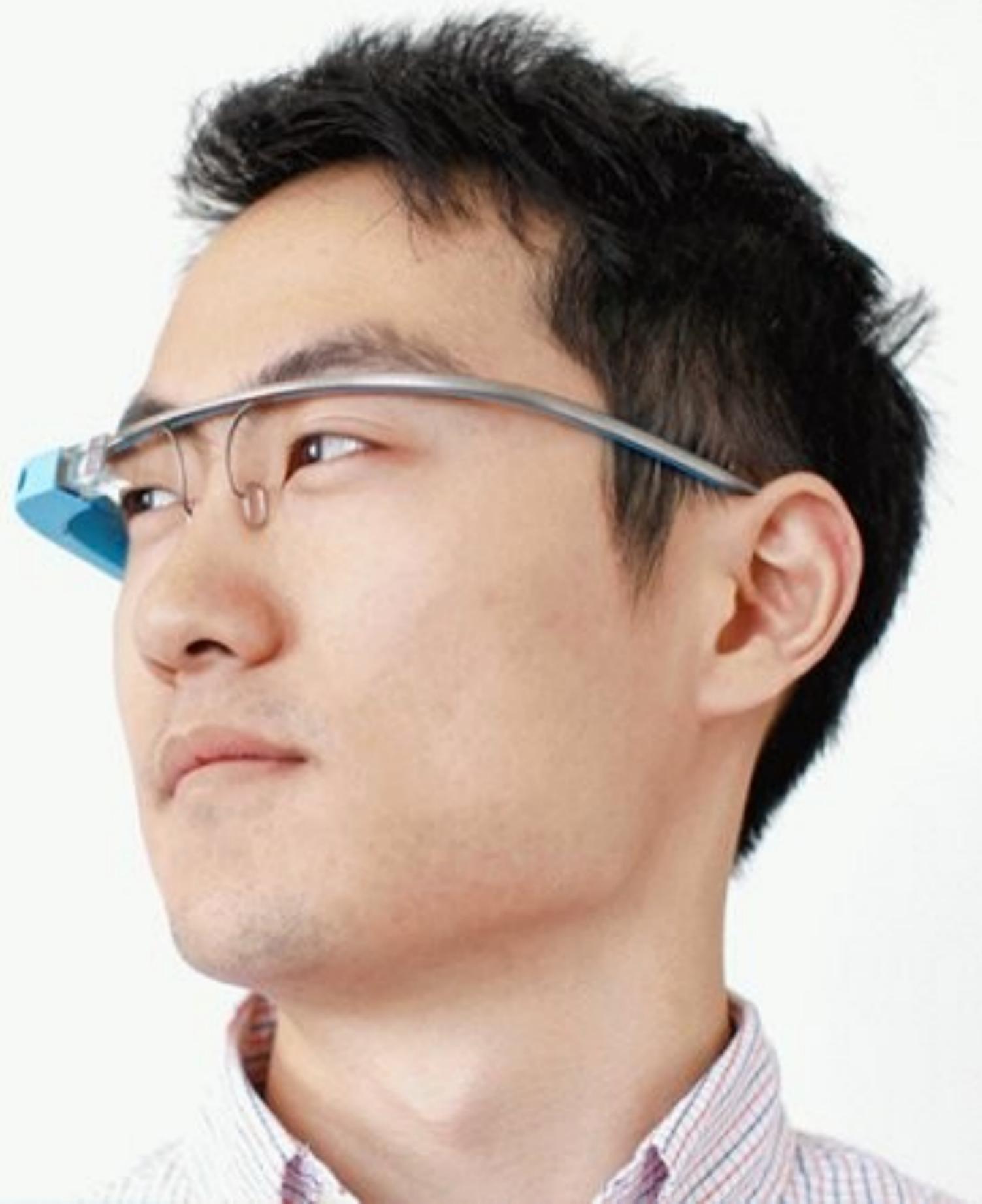
Create a “meaningful revenue stream.”

SUCCESS STORY

Evan You (pictured), creator of Vue.js. Nets over \$17K per month.

REPRODUCIBLE?

Not really. Very few devs have a large enough revenue stream to work on OSS full-time.





GITCOIN





GITHUB ISSUE MARKET

Allows project owners to add bounties to GitHub issues. Devs submit their work as a pull request.

 **\$500,000**

Amount of bounties paid on the platform in 2018.



BLOCKCHAIN-BASED

Developers received bounties in Ether.



WHOLE ECOSYSTEM

GitCoin also provides an ad network (CodeFund), and a Patreon-like solution (Grants).



CONTEXTUAL ADS

Advertise on the websites of open source projects.

HIRING FOCUS

Dedicated solution for hiring developers.

\$6K PER MONTH

Redistributed to project maintainers out of \$10K monthly revenue.



OSSC



WHAT DOES IT DO?

Provides non profit status (501c6) to open source projects & transparency as to how funds are used.

SUCCESS STORY

WebPack reached \$400K+ yearly funding in 2018. Win-win situation for key sponsor (trivago).

LONG TAIL PROBLEM

A few projects are getting most of the funding (>25% of total funds for WebPack in 2017).



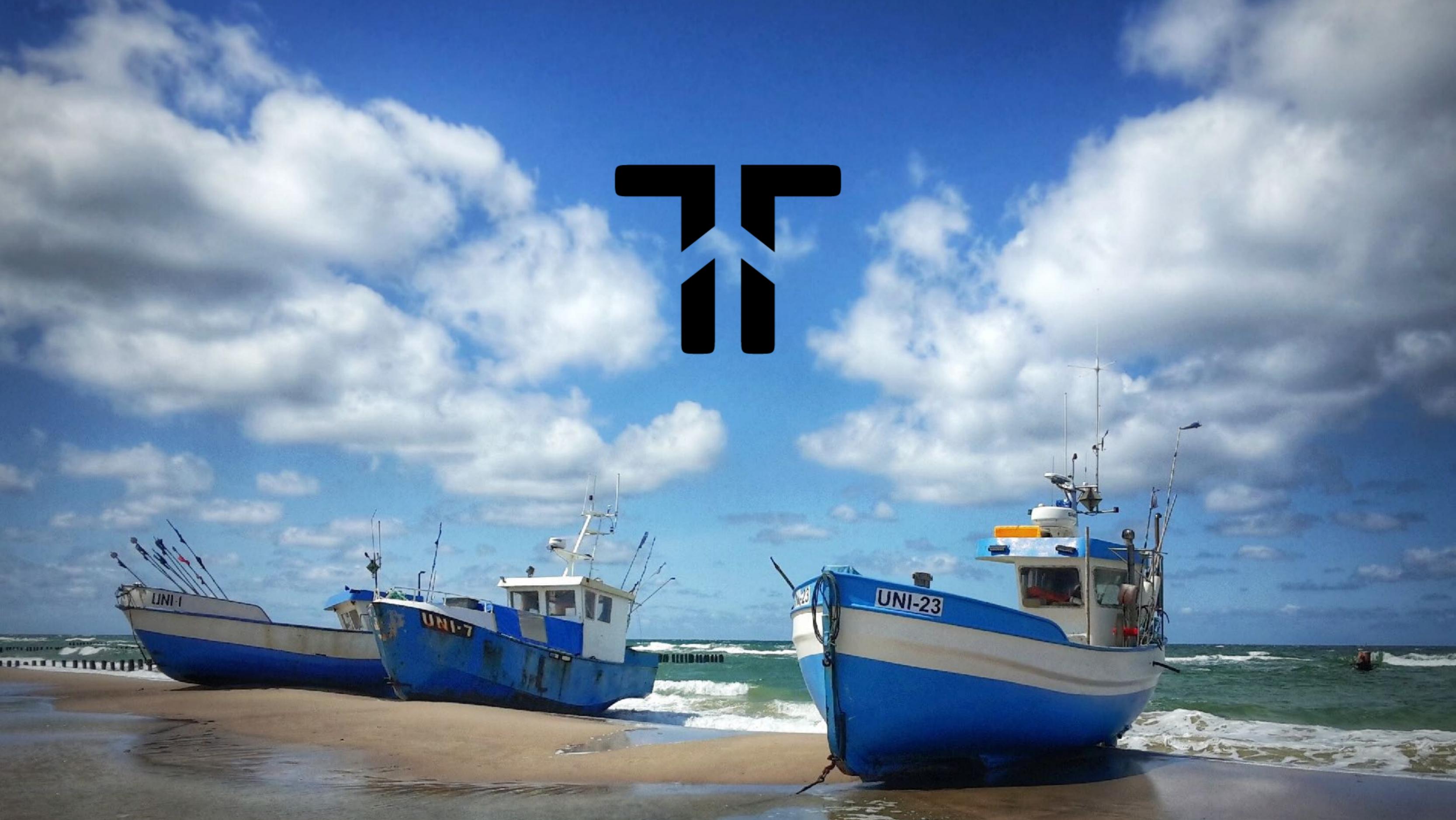
 open collective

+



back*your***stack**

75





TIDELIFT

WHAT IS IT?

Red Hat business model for the long tail.

SERVICES

Provides security updates, maintenance, and legal assurances for all open source projects in an organization's stack.

HOW?

By paying the actual maintainers to do the work.

SUCCESS STORY

None yet. It's too early.

WARNING



AHEAD



\$100



\$10,000

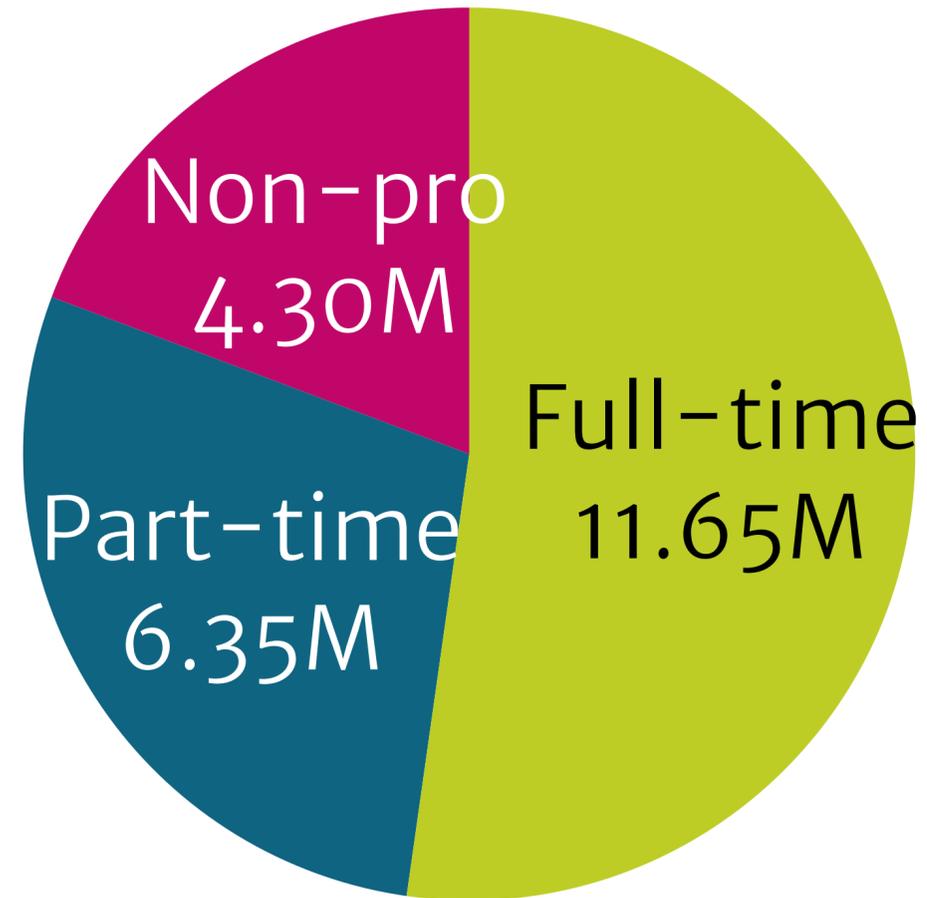
Monthly revenue of CodeFun.



1 million dollars

- Amount collected by Open Collective in a year.
- Amount Tidelift committed to pay developers.

Worldwide developer population



Quick back of the envelope math:

$$12\text{M FT devs} \times \$65\text{K} = \$780\text{B}$$

$$+ 6\text{M PT devs} \times \$35\text{K} = \$210\text{B}$$

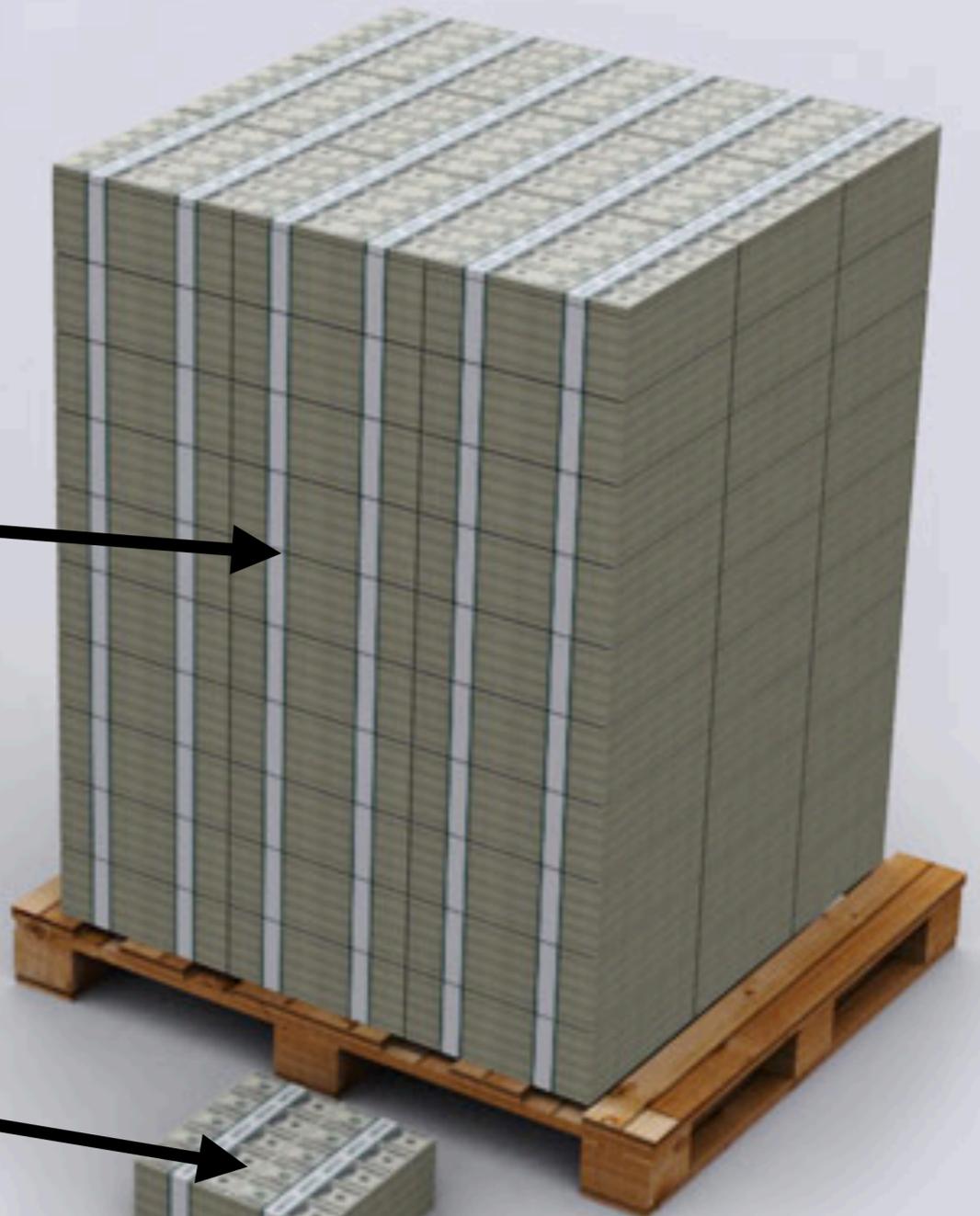
≈ 1 trillion dollars

Source: IDC, [Worldwide Developer Census](#), 2018.



1 million dollars

- Amount collected by Open Collective in a year.
- Amount Tidelift committed to pay developers.



100 million dollars



1 million dollars

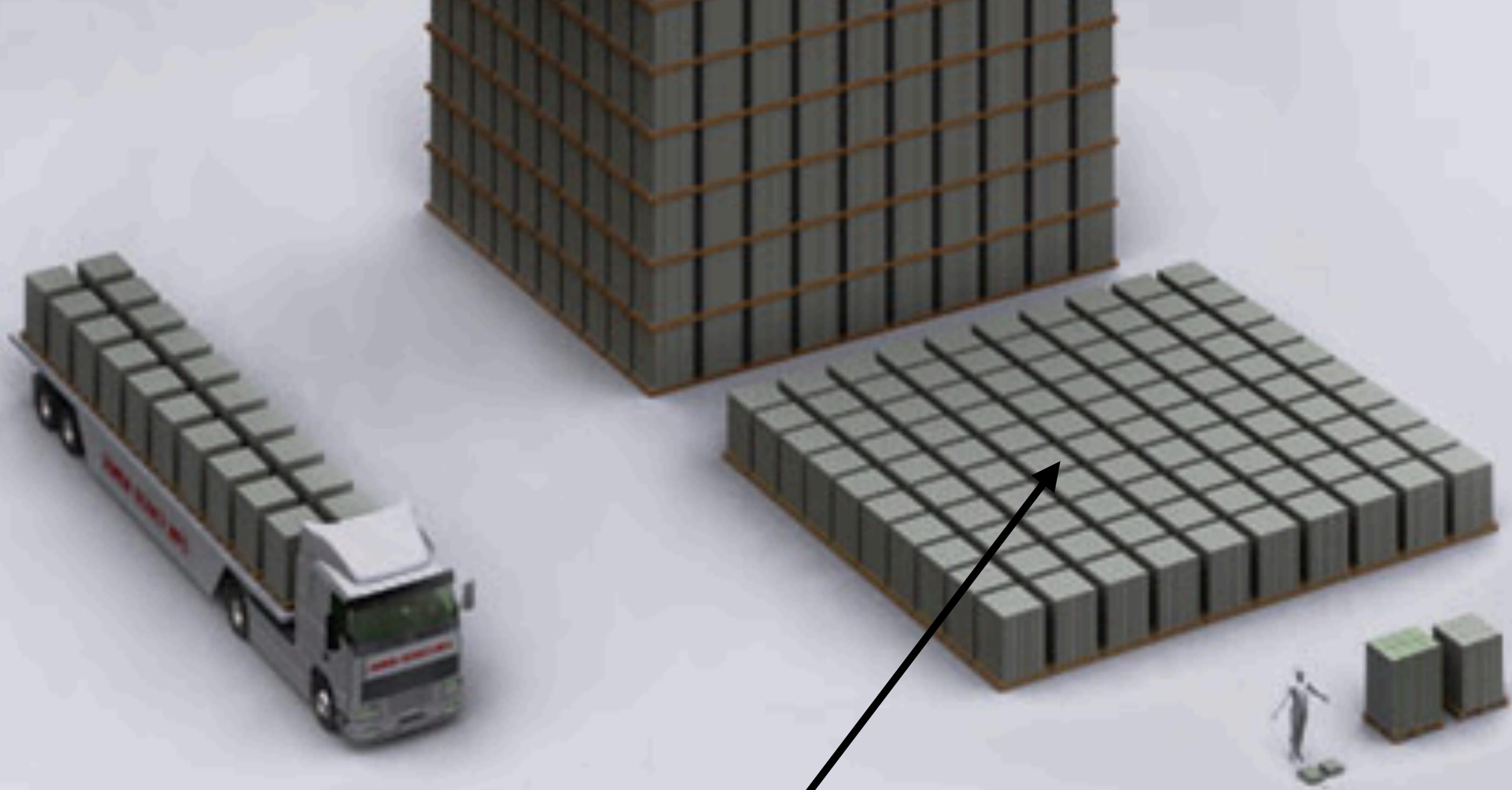


\$10,000

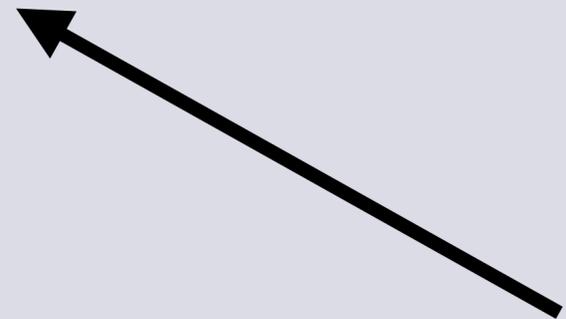
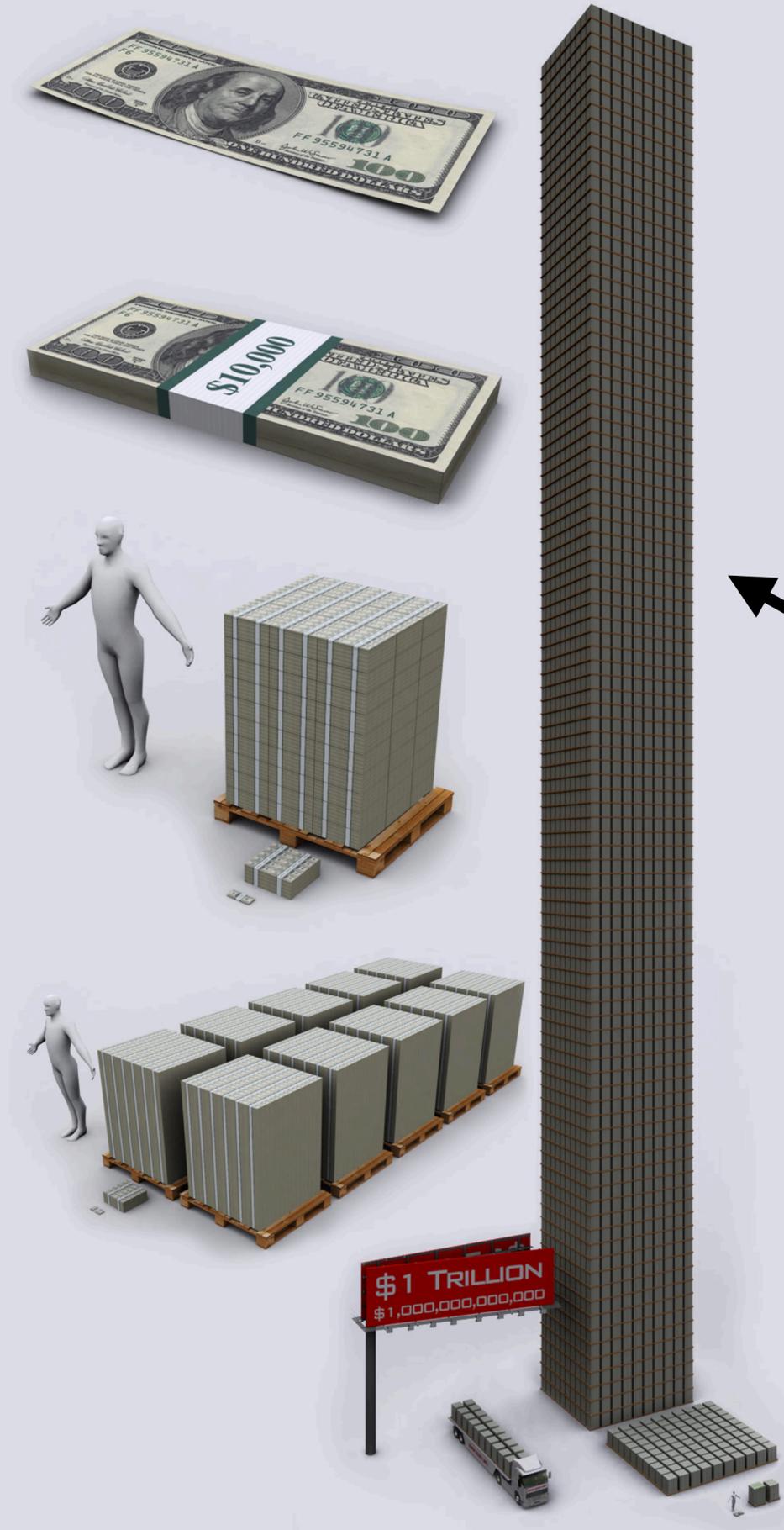


1 billion dollars





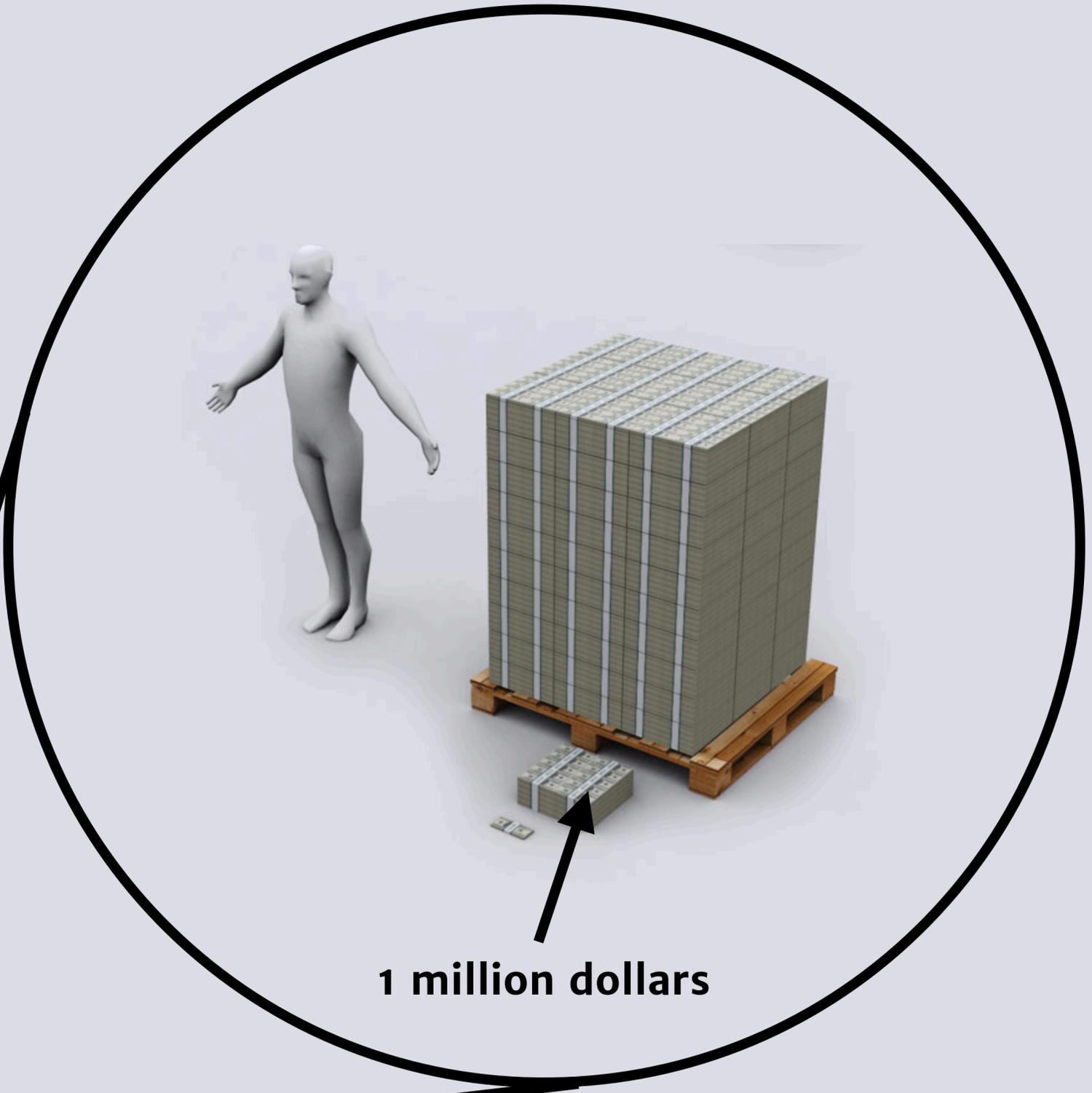
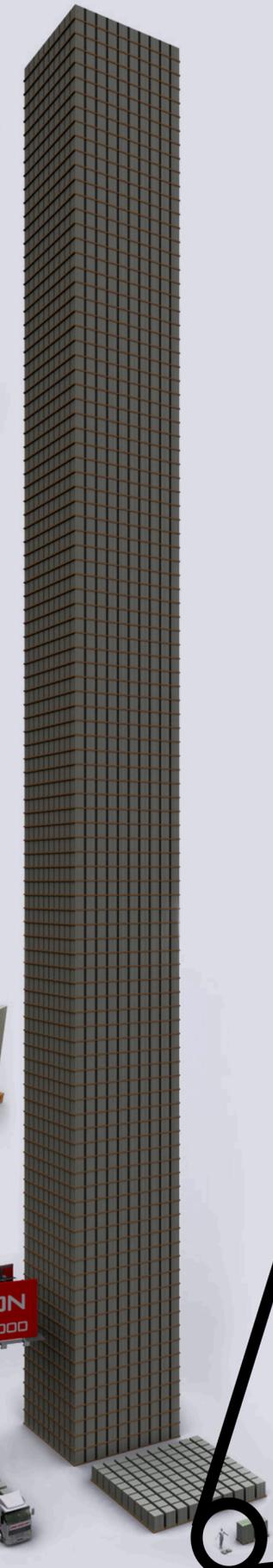
10 billion dollars



1 trillion dollars



\$1 TRILLION
\$1,000,000,000,000

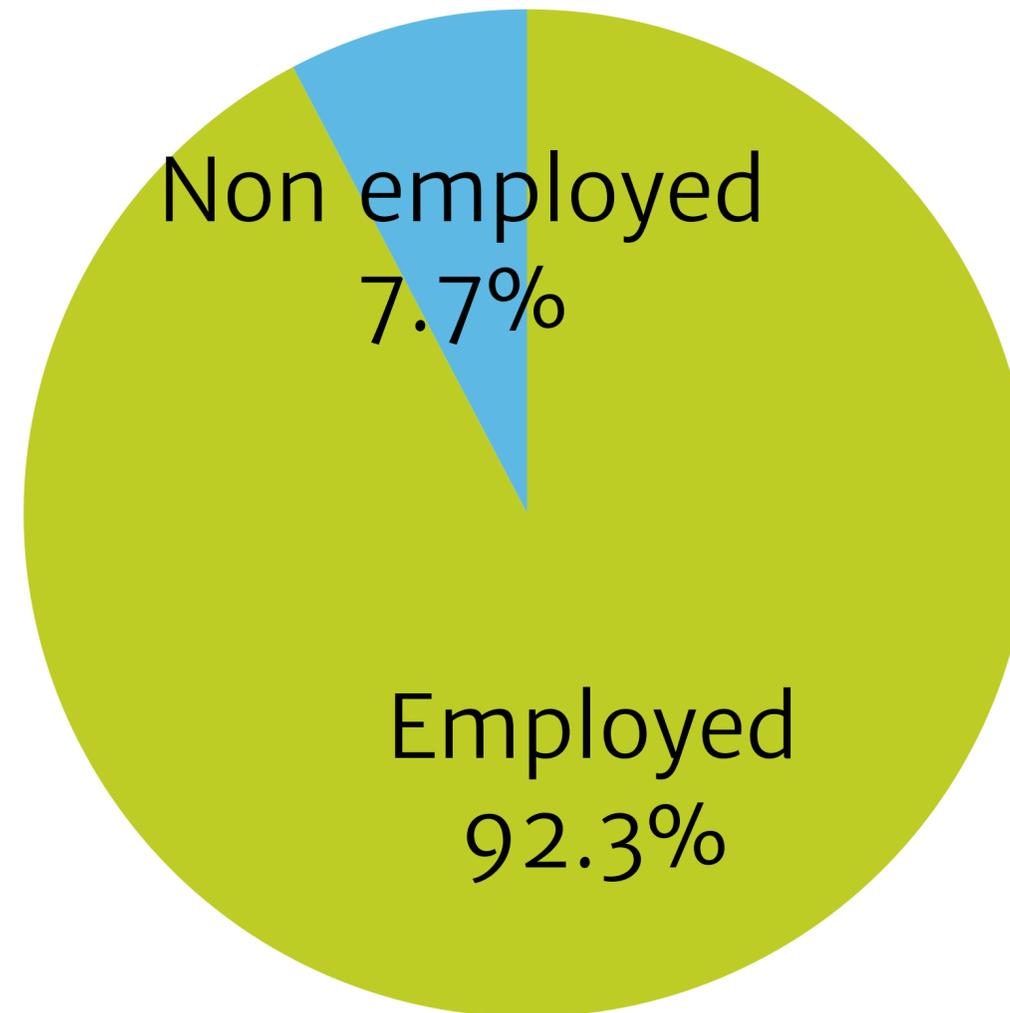


1 million dollars

“[P]art of the reason much of open source is so good, and often so superior to closed-source commercial projects, is the natural boundary of constraints. If you are not being paid or otherwise compensated directly for your work, you're less likely to needlessly embellish it. You're solving the problems for you and your mates, likely in the simplest way you could, so you can get back to whatever you originally intended to do before starting to shave the yak.”

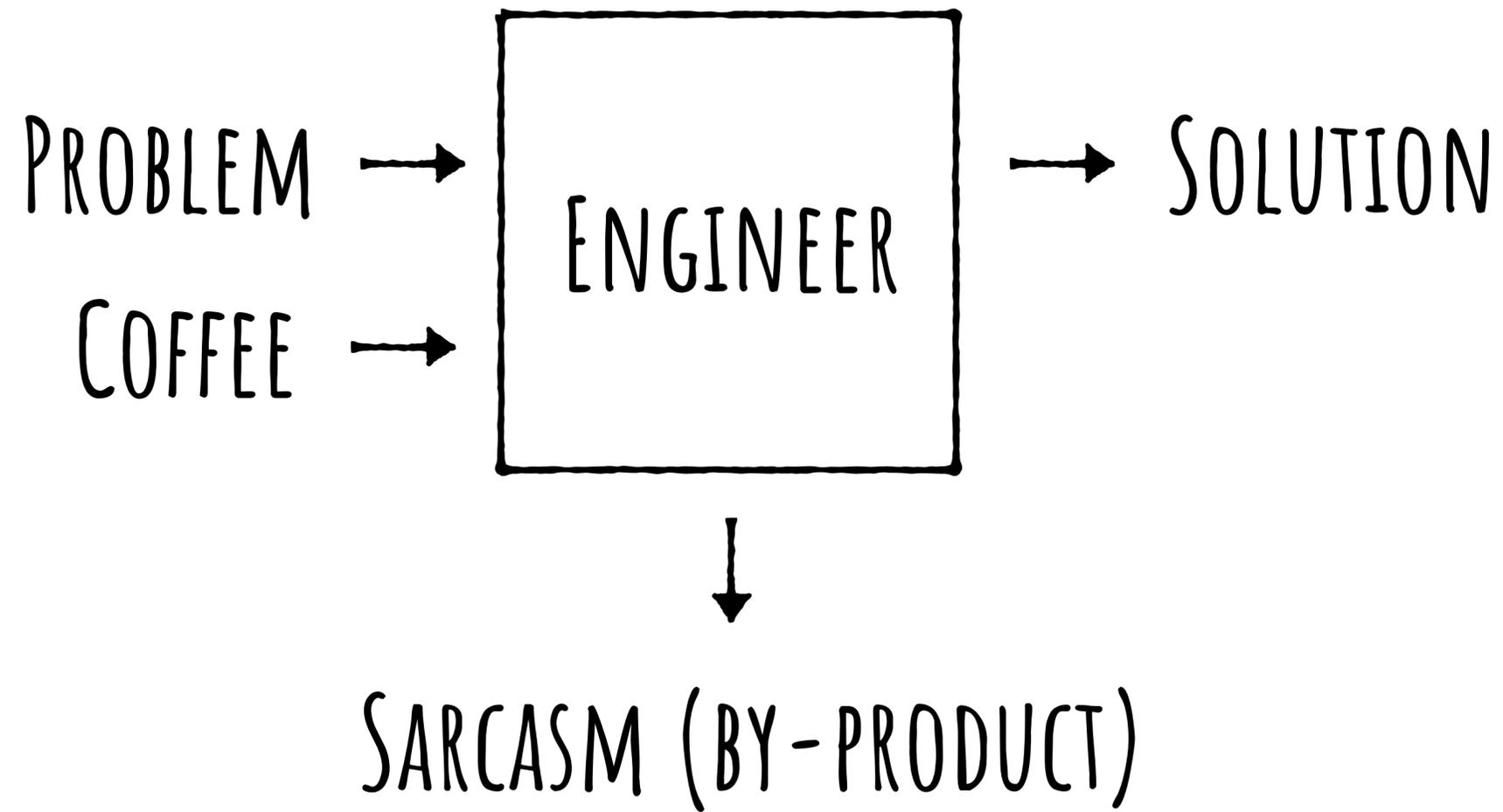
—DHH, [The Perils of mixing open source and money](#), Nov 12, 2013.

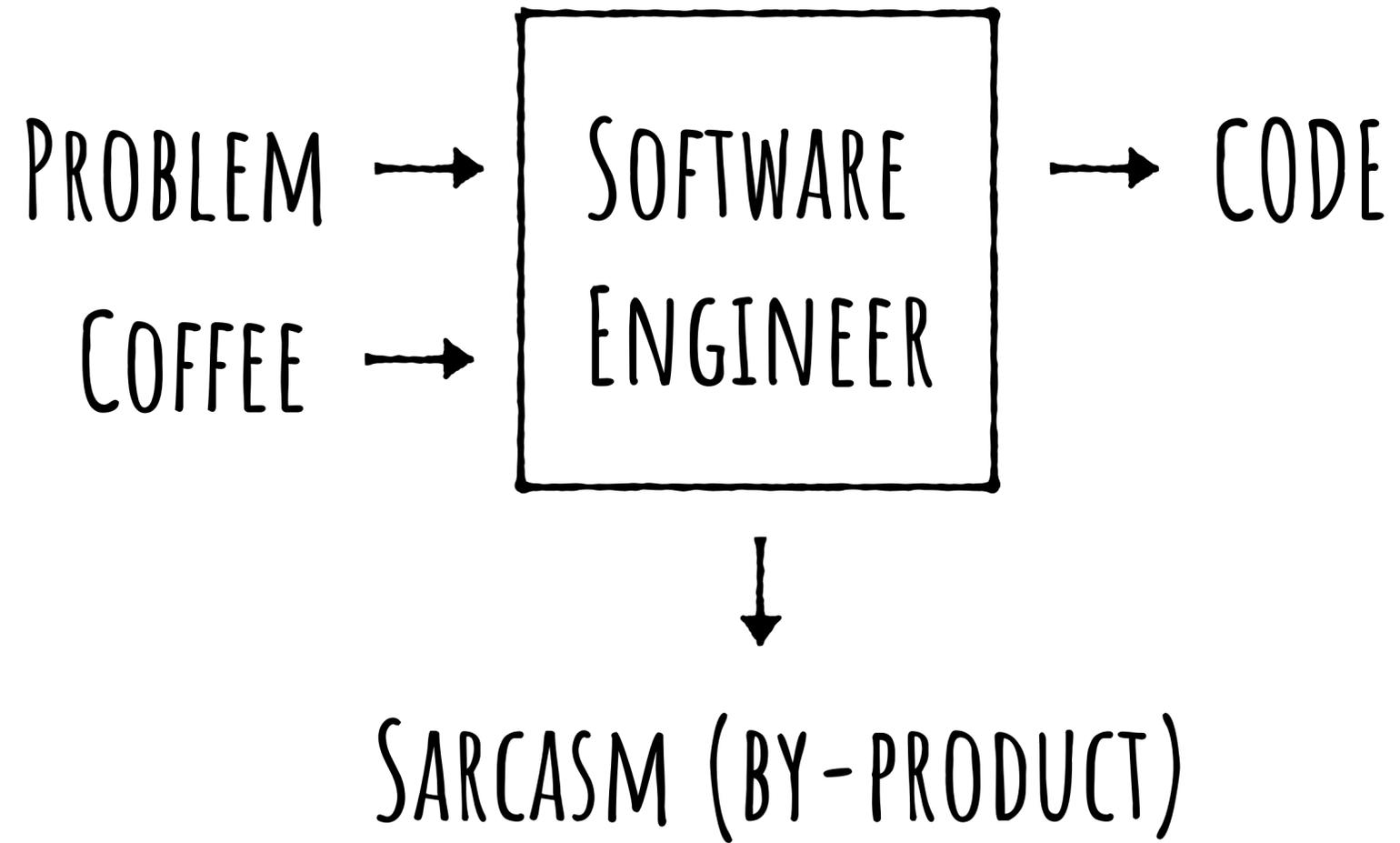
Developers working on the Linux kernel

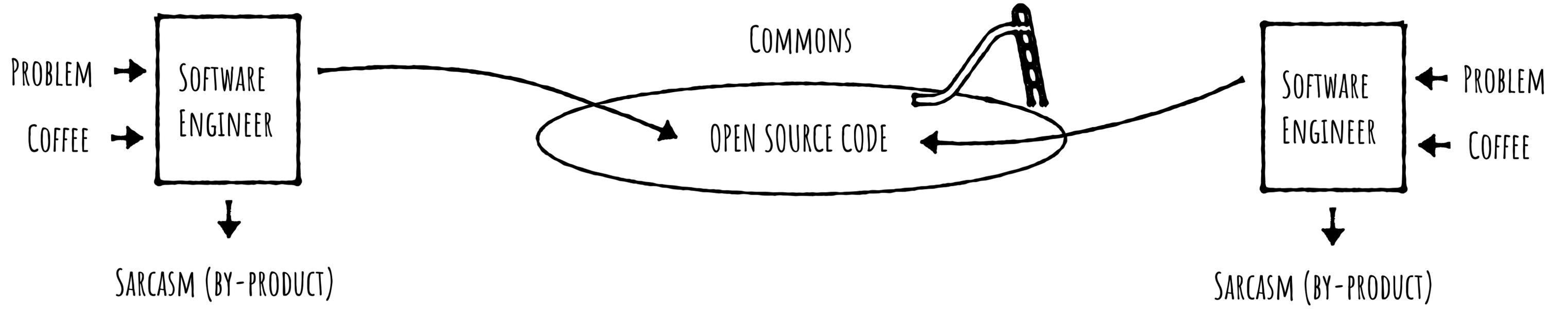


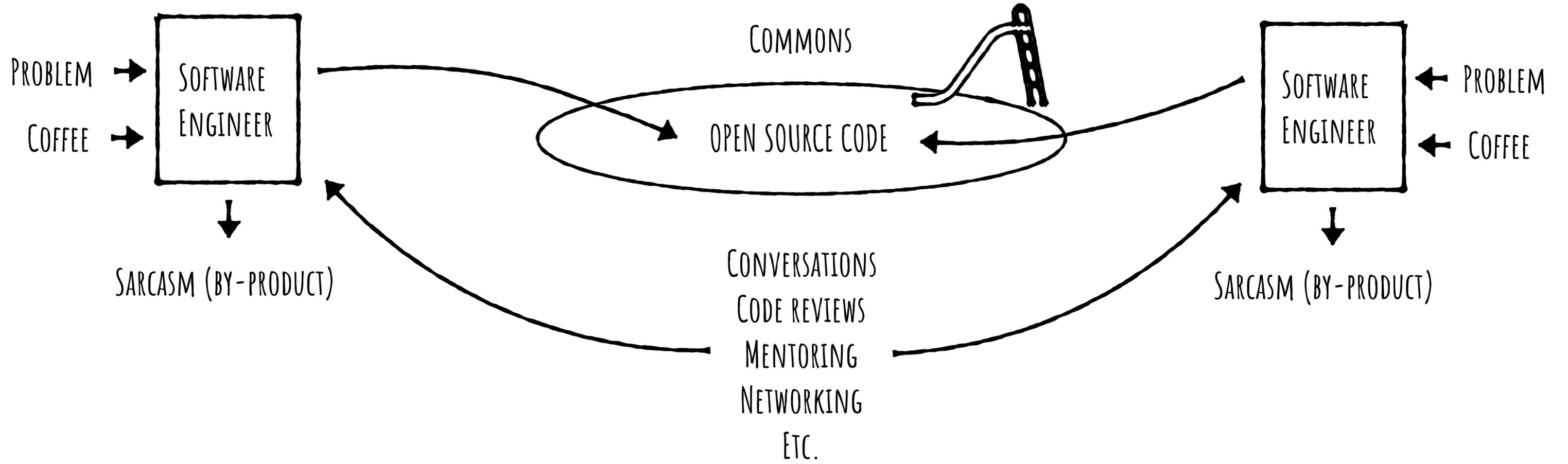
Source: [Linux Kernel Development report 2016](#).

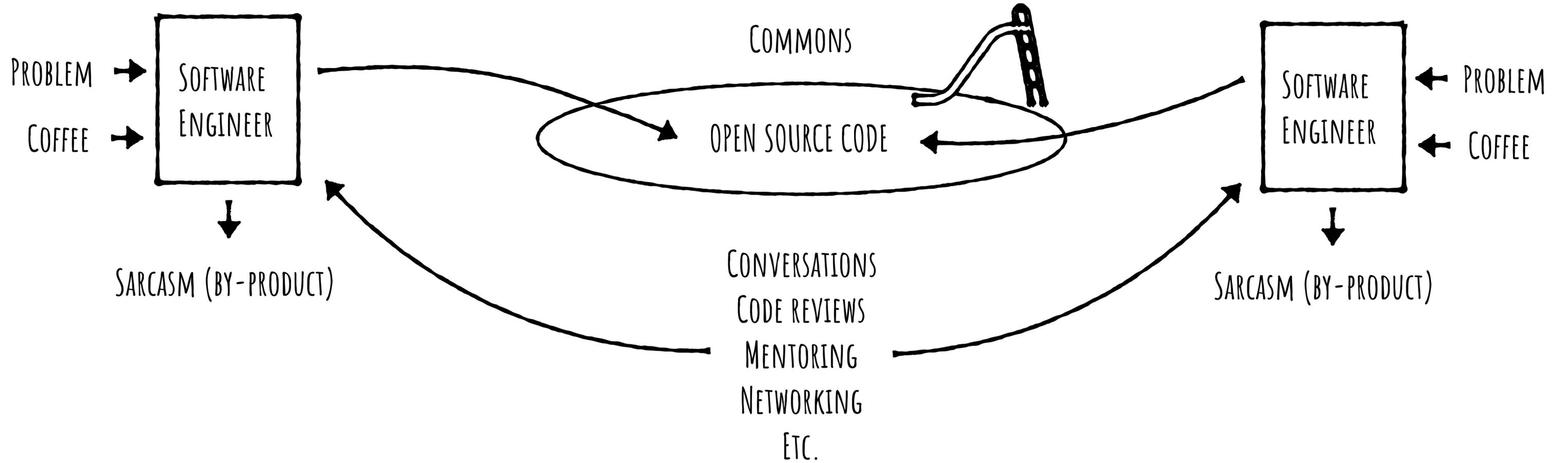












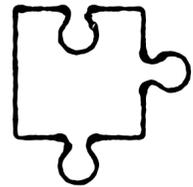
BY-PRODUCTS

- ADOPT BEST-PRACTICES
- LOWER TECHNICAL DEBT
- INFLUENCE PROJECT DIRECTION
- BETTER CAREER OPPORTUNITIES
- INCREASE CODE QUALITY
- IMPROVE DOCUMENTATION
- ACCESS TO TALENT POOL
- LEVEL-UP ENGINEERS
- REDUCED CHURN
- "KNOWLEDGE SPILLOVER"
- IMPROVE SOFT-SKILLS
- REMOTE FRIENDLY
- INCREASE EFFICIENCIES
- SERENDIPITY
- IMPROVED CULTURE & MORALE
- INNOVATION
- PERCEIVED AS INDUSTRY LEADER
- ACCESS TO EXPERT NETWORK

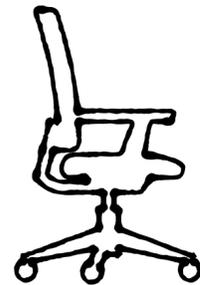


BY-PRODUCTS

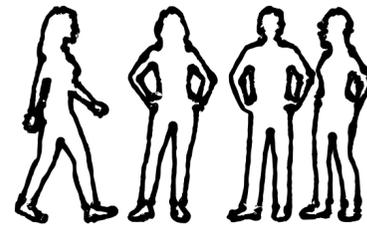
PROJECT



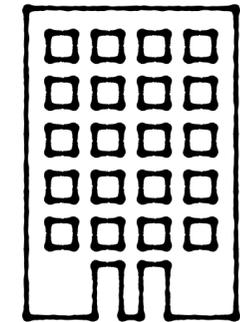
INDIVIDUAL



TEAM



ORGANIZATION



IMPROVE DOCUMENTATION

INCREASE CODE QUALITY

LOWER TECHNICAL DEBT

INFLUENCE PROJECT DIRECTION

LEVEL-UP ENGINEERS

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ACCESS TO TALENT POOL

REMOTE FRIENDLY

REDUCED CHURN

TWICE AS EFFICIENT

Contributing firms capture up to 100% more productive value from usage of open source than their free-riding peers.

2x





75%

of Facebook's new engineering recruits mention Facebook's open source Program as a key reason they accepted their offer

The key to open source sustainability is to make organizations understand the ROI of contributing to open source:

*What's in it for **them**.*

Tobie Langel
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[@tobie](#)



Thank you!