

Transforming how the mission builds software, securely

GitHub – Loved by developers, trusted by the Enterprise

GitHub DoD/IC Account Team



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The Future is written in CODE

**Nearly 50% of the S&P 500
will be replaced by 2026**

**To compete, every company
is becoming a software company**

Disruption across every industry

Physical Products



TESLA



dyson



iRobot



Honeywell

nest

Services

Media (TV)



NETFLIX

Hospitality



airbnb

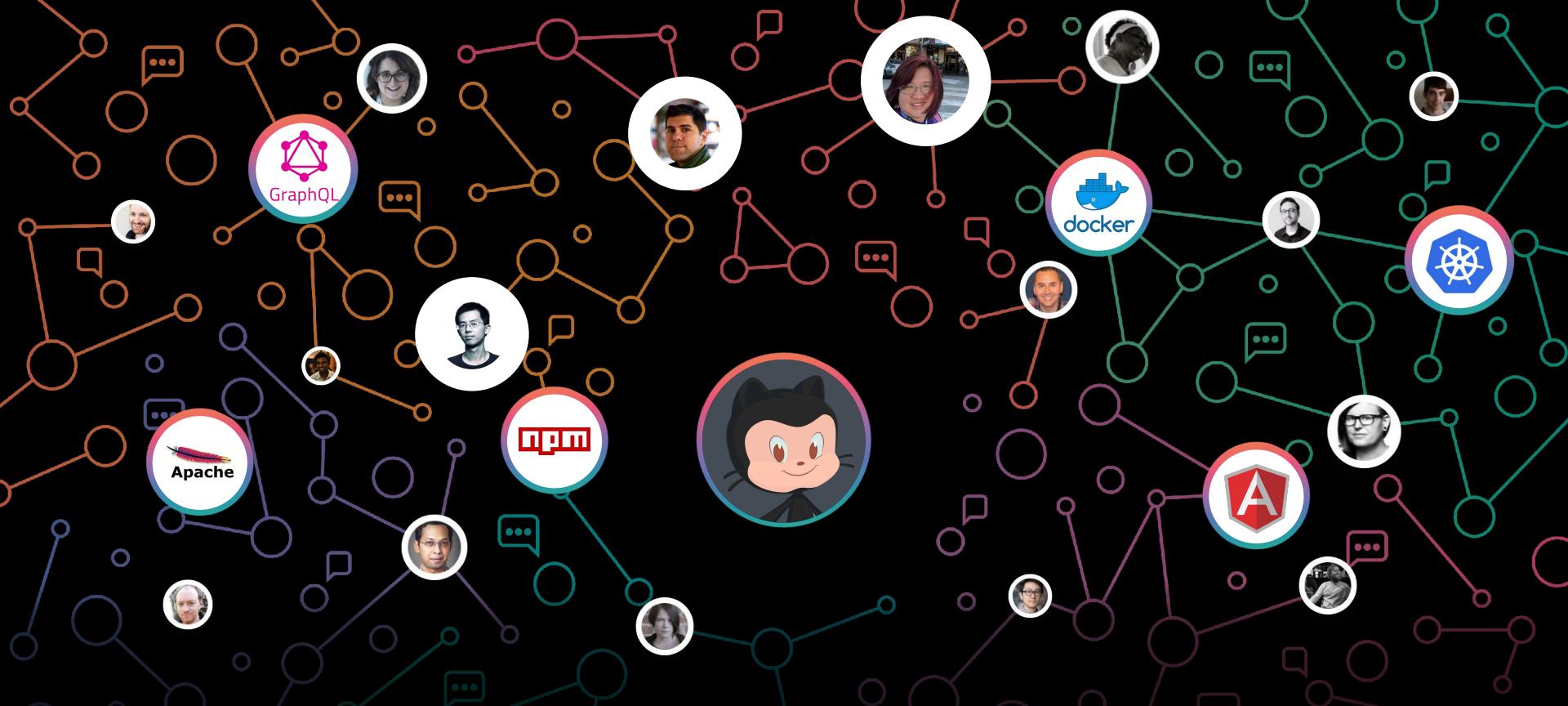
Transportation



Uber



Developers are at the heart of innovation



40,000,000 + Developers

GitHub is the home for the world's code.

GitHub is the largest developer community on Earth

40M+
Developers

120M+
Private and public
repositories

1,000s
Top open source
communities

1B+
Contributions
Per year

2M+
Organizations

50%
Fortune 500
Companies

 stripe

 Spotify

 airbnb

 lyft

 slack

 Uber

 twilio

 shopify

 coinbase

 NETFLIX



 npm



GraphQL



 docker



The most innovative companies

Most open source projects

Three powerful trends



Developers drive innovation

1M+ and growing developer shortage across industries



Open source is in your software supply chain

Cloud enables faster cycles



93% of DevOps implementations are not optimized

Sources: BLS, NSF, NCES, IDC, Gartner, LinkedIn, C+AI Corp Strat

Source: DORA State of Devops Report 2018



GitHub is a critical partner for your Digital Transformation



Collaboration

Retain your best talent
with the platform
developers know and love



Security

End-to-end security for
your software supply chain



DevOps

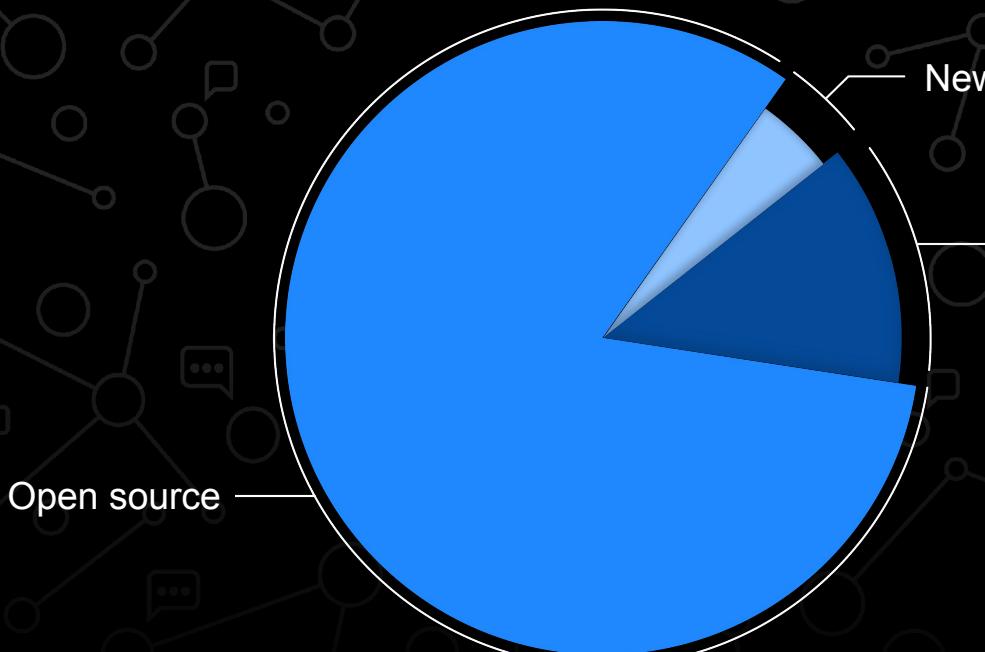
Automate workflows
from code to any cloud





Collaboration

**80-90% of the code in new applications
comes from open source.**





Dependency Insights

- Understand what your software stack actually looks like
- Track security advisories across your organization
- Continue to make good decisions about what open source software you use

The screenshot shows the Anthophila platform's Dependency Insights section. At the top, there are navigation links for Repositories (98), People (40), Teams (3), Projects (2), Insights (highlighted in red), and Settings. Below this is a search bar with the query "is:vulnerable sort:vulnerabilities-desc".

The main area has two tabs: Activity Overview and Dependencies. The Dependencies tab is active, showing three charts:

- Open Security Advisories:** A bar chart showing the count of vulnerabilities by severity: Low (~20), Moderate (~120), High (~50), and Critical (~10).
- Licenses:** A horizontal bar chart showing the distribution of licenses: MIT (56%), Apache 2.0 (22%), NOASSERTION (12%), BSD 3 Clause (5%), BSD 2 Clause (4%), and ISC (< 1%).
- Dependencies:** A list of 151 dependencies, each with a brief summary and license information.

| Dependency | Version | Last Update | Advisories | License | Ecosystem | Dependents |
|--------------------------------|------------------|--------------|------------|-------------|-----------|------------|
| org.bouncycastle:bcprov-jdk14 | 1.65 | Aug 21, 2016 | 12 | NOASSERTION | Maven | 2 |
| actionpack | 3.2.17 | Feb 18, 2014 | 12 | MIT | RubyGems | 1 |
| org.apache.tika:tika-core | 1.12 | Feb 21, 2016 | 10 | Apache-2.0 | Maven | 2 |
| org.eclipse.jetty:jetty-server | 9.4.10.v20180503 | May 06, 2018 | 8 | Apache-2.0 | Maven | 2 |
| actionpack | 4.0.13 | Jan 06, 2015 | 8 | MIT | RubyGems | 1 |

What makes an open source community healthy?



Active maintainer and contributors



License



Standard engineering practices



Security best practices



Healthy two-way communications

Inner Source in your company



Nationwide

90% reduction in merge times

Rewrote Nationwide Financial 6-months ahead of schedule and 40% below budget



Faster, cheaper, & better

We want you to consume OS because it's better, but we want you to contribute to the community



JPL

NASA
Jet Propulsion Laboratory
California Institute of Technology

Greater collaboration

Code reuse was greater than 90%. Collaboration increased 20-fold.



SCANIA

GitHub enabled transparency



4x increase in performance

SONY

30% increase in productivity



Giving employees greater tools to affect positive culture change

IBM teams using GitHub Enterprise to provide internal documentation - for engineering design, operations and support activities - have experienced 80% fewer escalation calls from first-line.





Security & Compliance

Security and compliance

An existential challenge

Using open source introduces new challenges, including security and compliance risks.



Check your repos... Crypto-coin-stealing code sneaks into fairly popular NPM lib (2m downloads per week)

Node.js package tried to plunder Bitcoin wallets

By Thomas Claburn in San Francisco 26 Nov 2018 at 20:58 49 □ SHARE ▾



SECURITY UPDATE —

Dear readers, please change your Ars account passwords ASAP

Recovery from the critical Heartbleed crypto bug enters the password reset phase.

DAN GOODIN - 4/8/2014, 5:49 PM

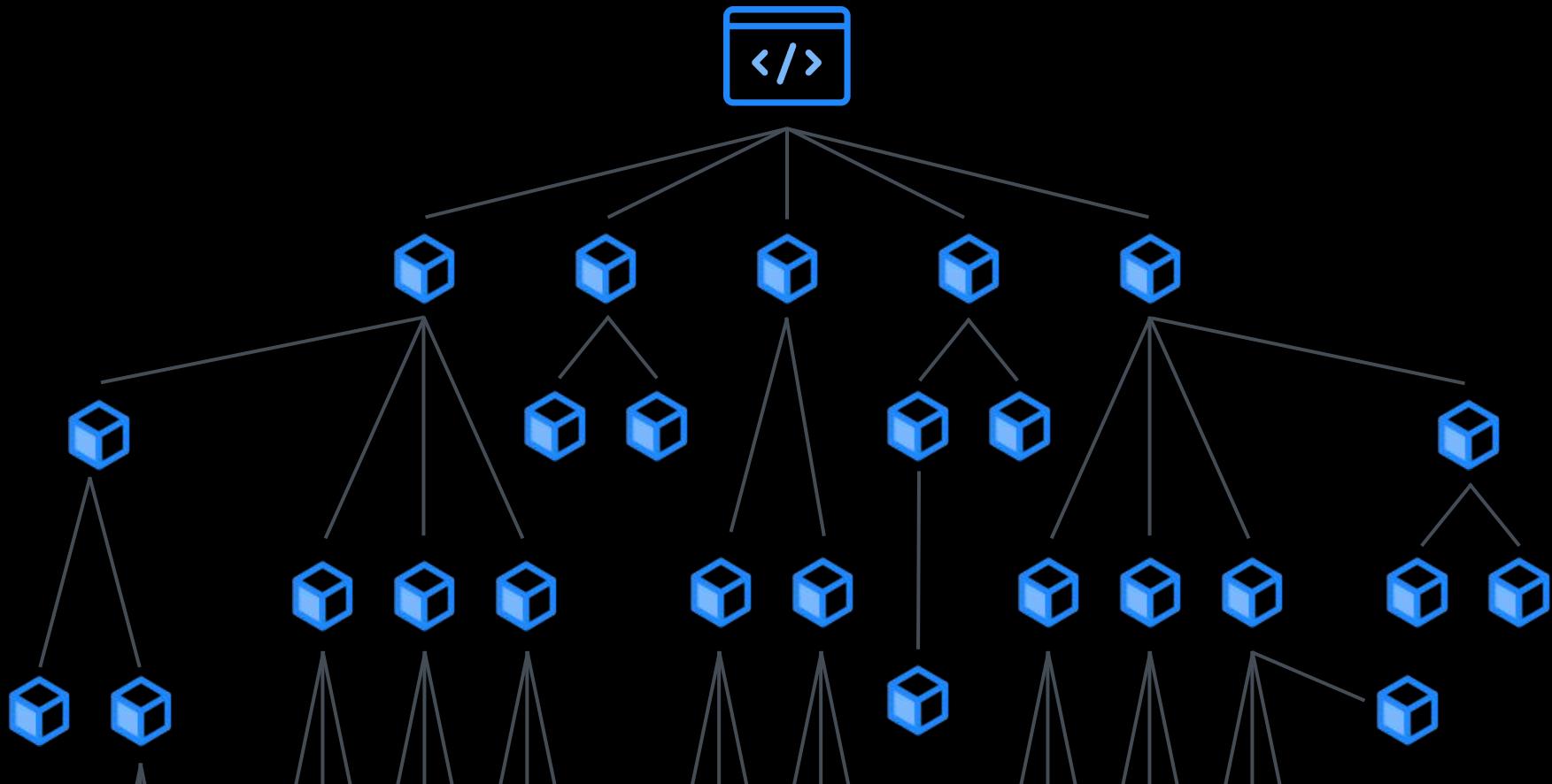


TECH • EQUIFAX

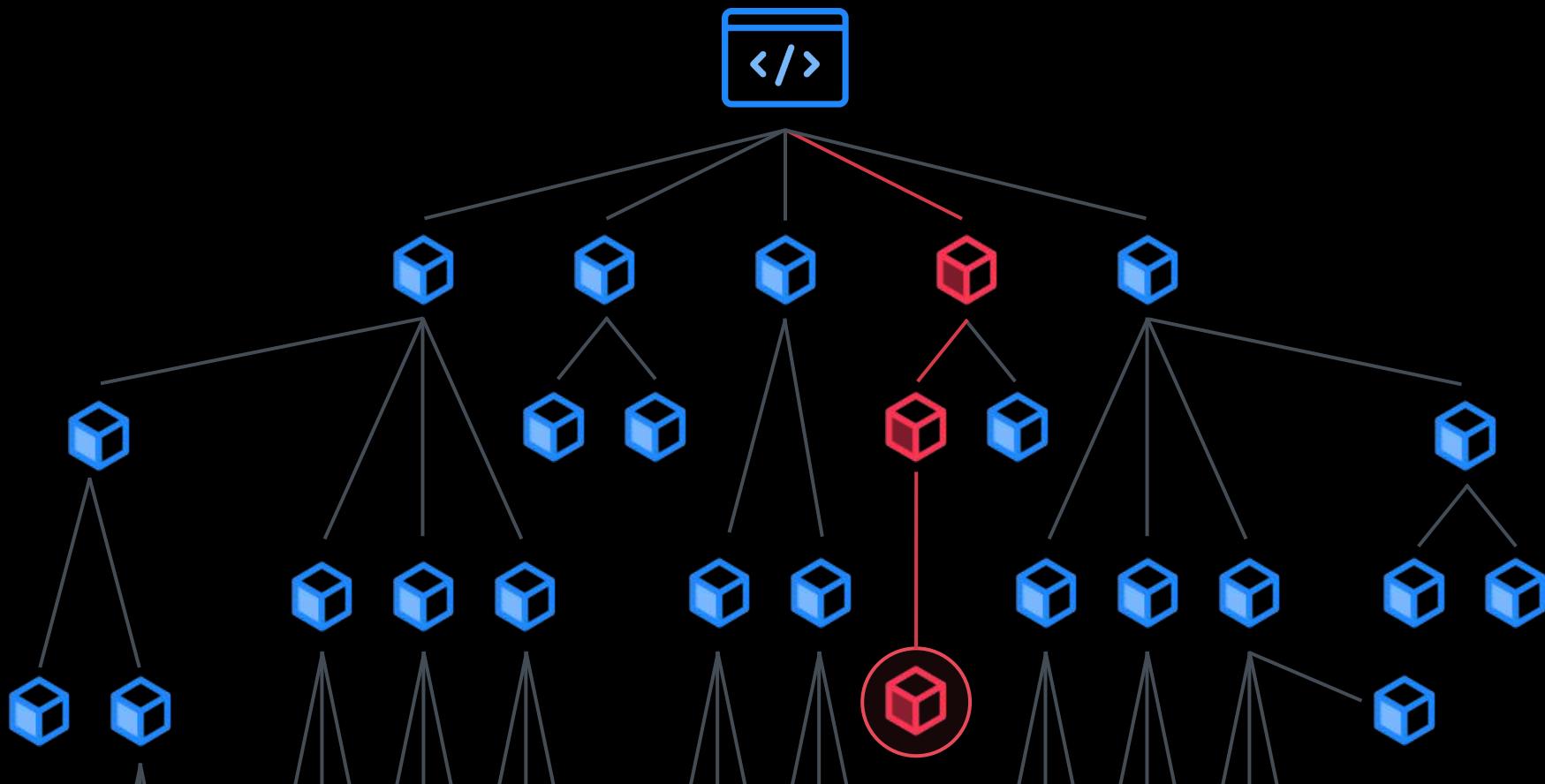
Thousands of Companies Are Still Downloading the Vulnerability That Wrecked Equifax

By ROBERT HACKETT May 7, 2018

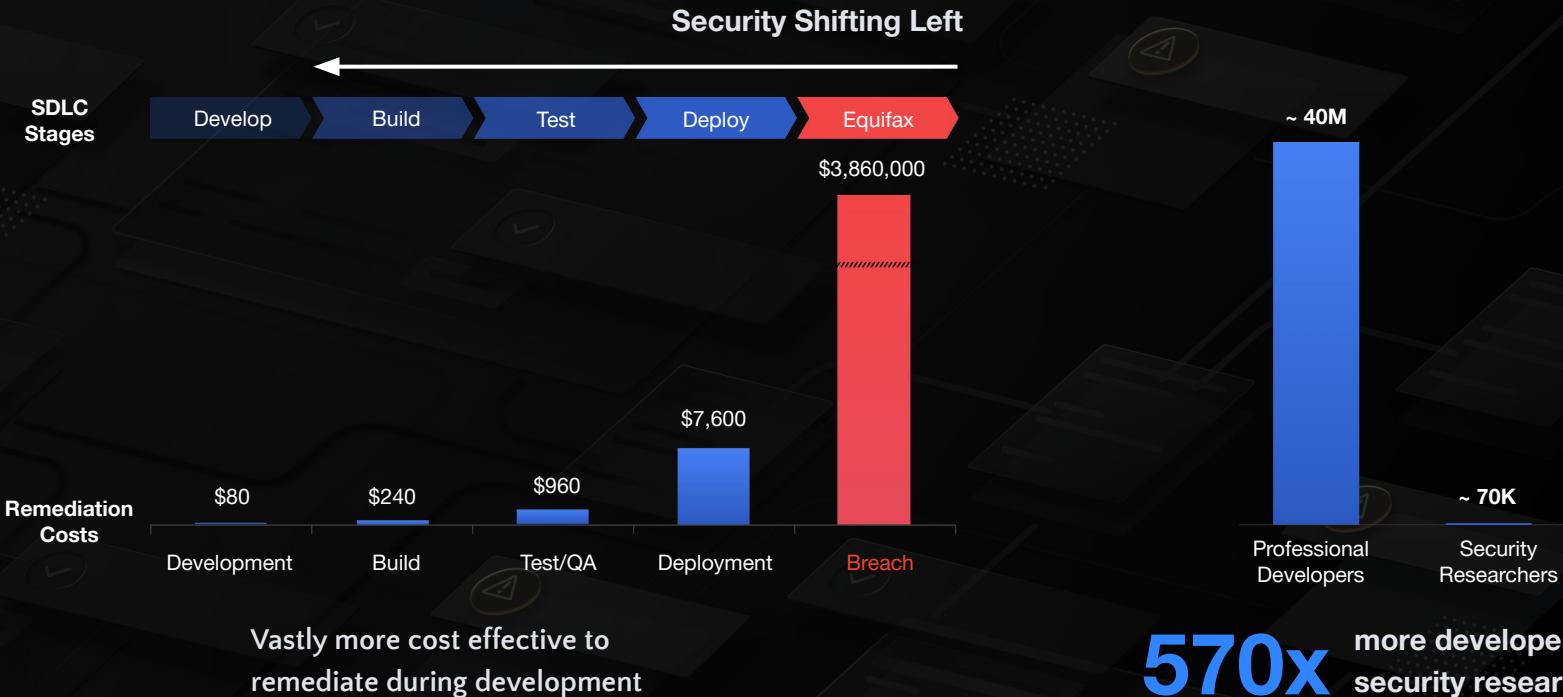
Software dependencies are pervasive



Securing code requires end-to-end approach

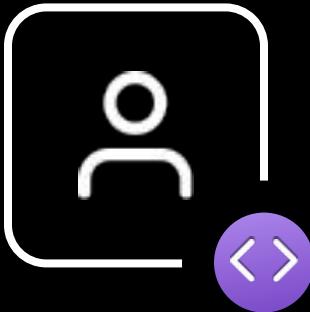


Secure development is shifting left

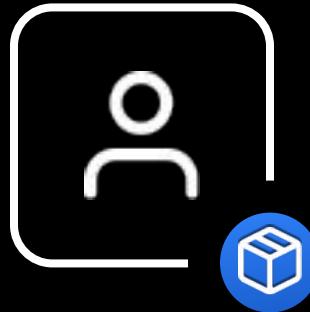




Security
Researchers



Maintainers



Developers



Security
Teams

Only GitHub secures your end-to-end software supply chain



Securing all of
open source



Proactive
Code Scanning



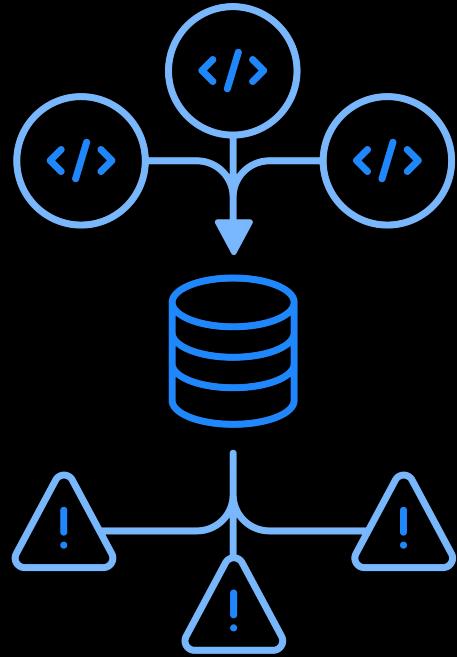
Dependency
Insights



Automated
Security Fixes

Proactive Code Scanning: analyze your code as data

- World's most advanced semantic code analysis engine, combined with world's largest community
- Queries identify vulnerabilities and their variants
- Prevents known variants as part of your automated CI testing
- Community-led model continuously improves, 2000+ queries today



Google

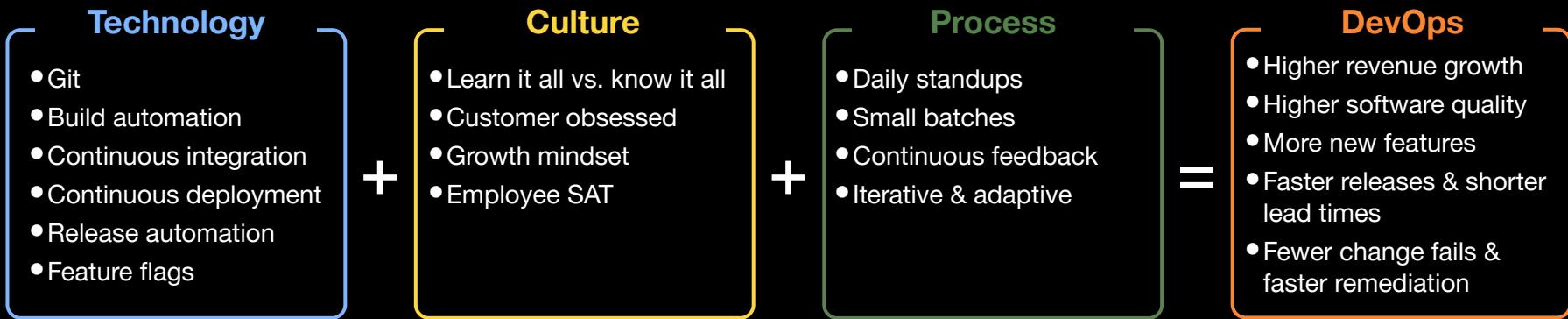
Uber

Microsoft



DevOps

DevOps transforms technology and team culture



XebiaLabs
Deliver Faster

 Follow @xebialabs

Teams innovate faster with DevOps

22%

Improved quality of
deployed applications

Average ROI of
Continuous Delivery Investments

30-50x

Faster
deployment cycles

High performing teams innovate faster

21%

Increase in new software
and services delivered

200-400x

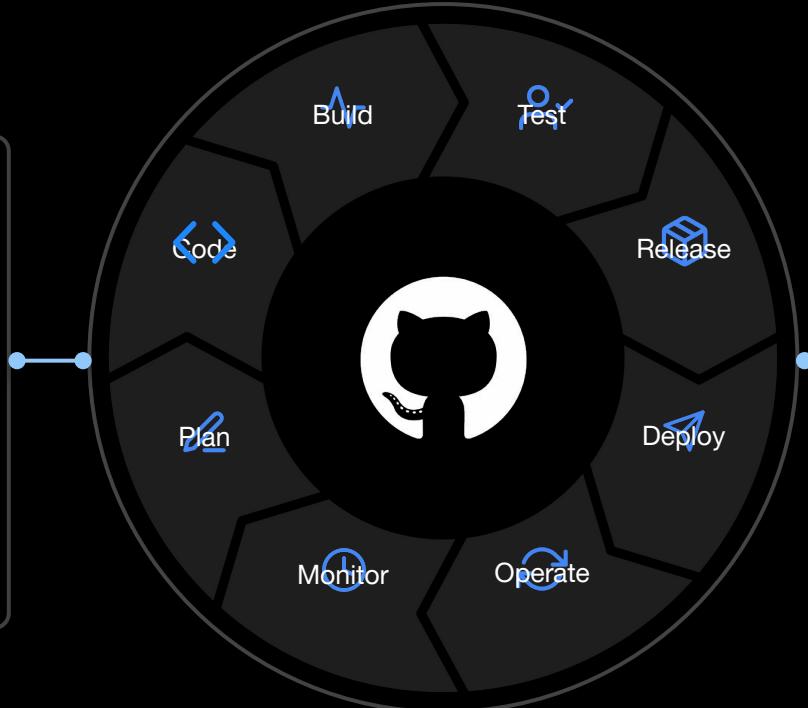
Shorter time from code
commit to deployment

Code-to-Cloud DevOps



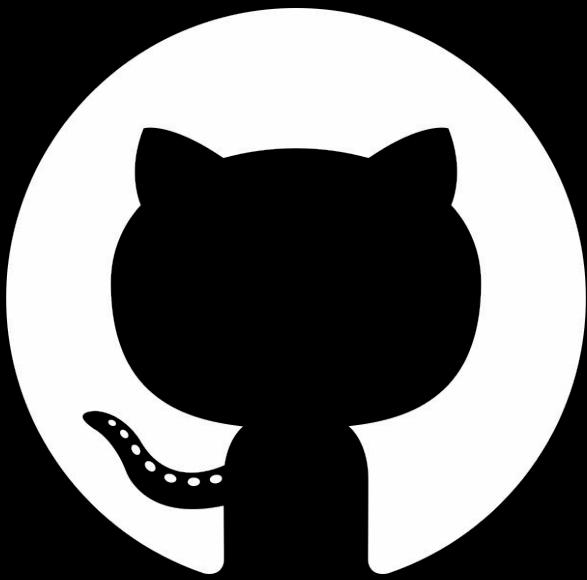
Home for all developers
Home for the world's code

- Elastic, to any scale
- Fully managed
- Packages always the latest
- Supports all OS for CI/CD
- Largest ecosystem
- Community-led automation



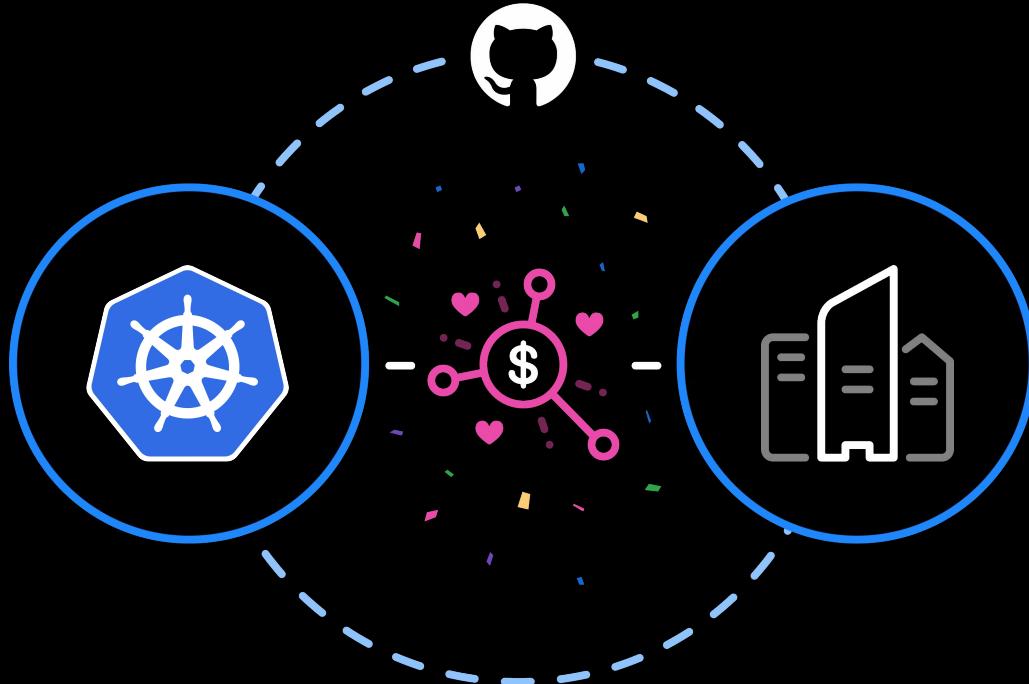
**Deploy anywhere, including
your own data centers**





Summary & Next Steps

GitHub Sponsors - ensure the success of projects in your supply chain



Learning Lab helps your teams continuously improve



GitHub Learning Lab

InnerSource Fundamentals

High level yet impactful InnerSource concepts to help transform your organization.

[Start the course >](#)

Picking InnerSource projects

Example projects that will help you determine candidates for trying InnerSource practices.

[Go to resource >](#)

Introduction to GitHub

An introduction to the simplest possible workflow: GitHub Flow.

[Start the course >](#)

Create a release based workflow

Learn and practice a workflow based around creating releases on GitHub.

[Start the course >](#)



How We Partner for Digital Transformation



GitHub One



GitHub
Transformation Services





DevOps



Security



Collaboration

