What Code.gov Taught Us About Increasing Community Engagement

Joseph Castle, PhD 10/12/22



About Me

- Recently joined SAS Institute
- OSS developer, researcher, and advocate
- Led GSA Digital Service and federal government OSPO (Code.gov)
- GSA, Executive Office of The President, U.S. Army Veteran
- Fed100 and GitHub Star
- GitHub: @opensource-joe, LinkedIn:
 @jrcastle, Twitter: @jrcastle_vt







OVER

11K

Employees

worldwide

1 Al & ADVANCED ANALYTICS



3.8 MILLION KWH renewable energy generated annually from SOLAR INSTALLATIONS



8 YEARS RUNNING
Only vendor named leader
in Gartner's Magic Quadrant
for Data Science and Machine Learning Platforms



COMPANIES THAT
CARE list in 2021

SAS recognized on

People magazine's

(Fast Company March 2021)



SAS recognized as leader in more than 30 vendor ranking reports in 2021



of more than 2500

Partner Network

Growing

88
of the top
100

Companies on the GLOBAL

LIST ARE SAS CUSTOMERS or

their affiliates

80,000+

Customer sites in 150 countries

in 2021
\$3.2 billion

REVENUE in 2021

§sas

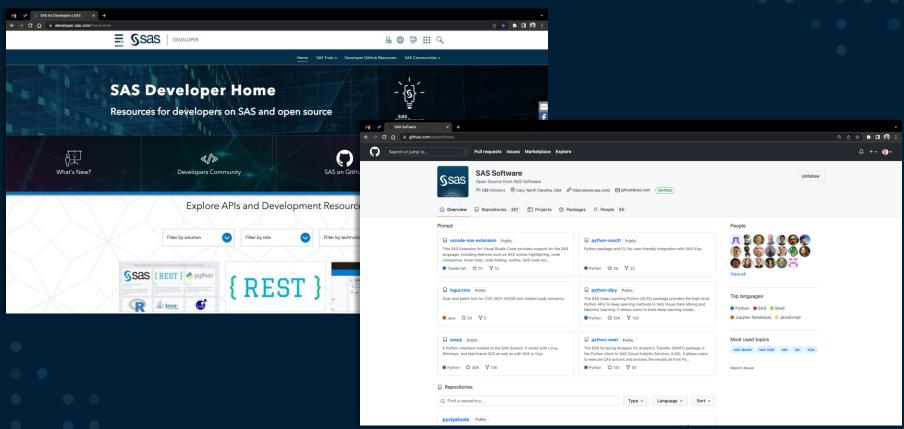
Best of Both Worlds

SAS Open to users with varying No lock-in technical background Rapid Innovation Integrated analytics hub One place for data, analytics, and deployment Vetted algorithms Low cost barrier to entry Ability to start small Flexible, powerful architecture Ongoing technical support High agility Active community Reliability - Security - Scalability Monitor, manage as much data & models as you need

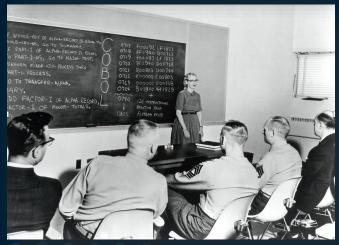
An integration of the two technologies, SAS and open source, unlocks a whole spectrum of analytics to different user backgrounds, stimulating the democratization of analytics.



SAS & Open Source Software







Federal Source Code (1940 – 2018)

Grace Hopper's work at the Harvard Computational Laboratory was a precursor to open source software (OSS)

U.S. government funded labs using and modifying code

Academic institutions consisted of "hackers" creating software programs and games

Federal agencies consume OSS (e.g., Internet, mobile, and web technologies) but publish less



Federal Source Code Policy (FSCP)

Federal government spends \$6B each year on software

In August 2016, the White House published the FSCP or M-16-21

Agencies develop source code policy, update acquisition language, and inventory code

Release at least 20% code as OSS



OFFICE OF MANAGEMENT AND BUDGET

August 8, 2016

M-16-21

MEMORANDUM FOR THE HEADS OF DEPARTMENTS AND AGENCIES

FROM: Tony Sco

I United States

ted States Chief Information Office

United States Chief Acquisition Office

SUBJECT: Federal Source Code Policy: Achieving Efficiency, Transparency, and

Innovation through Reusable and Open Source Software

The U.S. Government is committed to improving the way Federal agencies buy, build, and deliver information technology (IT) and software solutions to better support cost efficiency, mission effectiveness, and the consumer experience with Government programs. Each year, the Federal Government spends more than \$6 billion on software through more than 42,000 transactions. A significant proportion of software used by the Government is comprised of either preexisting Federal solutions or commercial solutions. These solutions include proprietary, open source, and mixed source code and often do not require additional custom code development.

When Federal agencies are unable to identify an existing Federal or commercial software solution that satisfies their specific needs, they may choose to develop a custom software solution on their own or pay for its development. When agencies procure custom-developed source code, however, they do not necessarily make their new code (source code or code) broadly available for Federal Government-wide reuse. Even when agencies are in a position to make their source code available on a Government-wide basis, they do not make such code available to other agencies in a consistent manner. In some cases, agencies may even have difficulty establishing that the software was produced in the performance of a Federal Government contract. These challenges may result in duplicative acquisitions for substantially similar code and an inefficient use of taxpayer dollars.

This policy seeks to address these challenges by ensuring that new custom-developed Federal source code be made broadly available for reuse across the Federal Government ³ This is





ABOUT

BROWSE PROJECTS

FEDERAL AGENCIES

DEVELOPERS

SOCIAL

Sharing America's Code

Unlock the tremendous potential of the Federal Government's software.

FIND CODE

Search for federal open source software projects and usable code

e.g. JavaScript, NASA, web standards

Go

Developers

The Code.gov website is developed publicly on GitHub. Learn how to contribute here. Help improve America's Code by exploring Open Tasks.

Explore Open Tasks

Connect with Us

Have questions or feedback?

Open an issue on our open source repository.

Want to receive our monthly newsletter?

Sign Up Here

Agency Partners

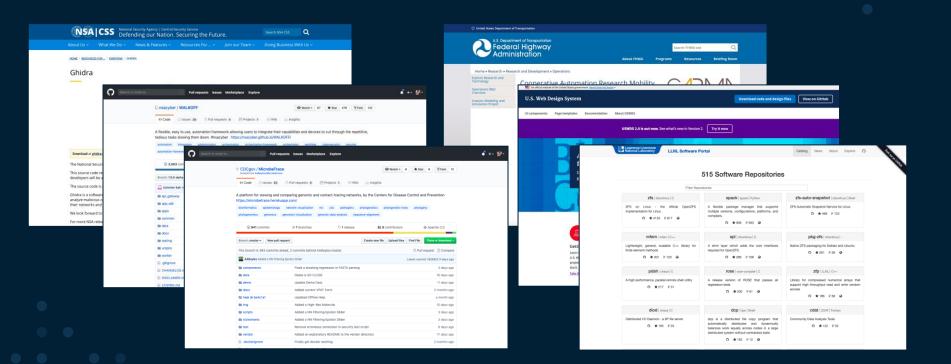
Federal agency partners use Code.gov to share usable open source code, promote open source projects, and track compliance with federal open source policy.

Compliance Dashboard

About Code.gov

Open Source News & Events

Projects on Code.gov





Community is the of open source



Human elements

- Make it easy
- Be responsive
- Build relationships
- Be inclusive
- Build careers
- Limit negativity



Community is the \bigcirc of open source

Program elements

- Establish outreach
- Meet people
- Consider media
- Consider awareness
- Hold events
- Offer swag





Community is the \bigcirc of open source



Repo elements

- Documentation
- Code of Conduct
- Contributing
- License & Readme
- Issue & PR templates
- Personal & Org





Thank you!

