HAPPY 3rd BIRTHDAY CODE.GOV!

JOSEPH CASTLE
ABOUT ME

- Product/team lead for Code.gov
- GSA 15yrs, Army vet
- White House experience
- PhD Candidate at VT
ABOUT THE TEAM

- Five members, mix of feds and contractors
- Roles include open source expert, agency outreach, engineering, and communications
WHERE IT ALL BEGAN
Grace Hopper’s work at the Harvard Computational Laboratory was a precursor to open source software (OSS).

- U.S. government labs using and modifying code.
- Federal agencies consume OSS but publish less.
A large portion of federal agencies utilize closed source software that limits sharing and collaboration, supporting technology operations with costly procurements, and other inefficient processes.

- Johnson & Sears, 2017
WHERE IT ALL BEGAN

FEDERAL SOURCE CODE POLICY (FSCP)

- Federal government spends $6B annually on software
- In August 2016, the White House published M-16-21 aka the FSCP
- Agencies develop source code policy, update acquisition language, and inventory code
- Release at least 20% as OSS
WHERE WE ARE NOW
ABOUT CODE.GOV

- 100% open source project
- Website
- API
- Agency and public outreach
- Event participation
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.

Connect with Us
Have questions or feedback? Open an issue on our open source repository.
Want to receive our monthly newsletter?

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.

About Code.gov
Code.gov is the federal government’s platform for sharing

Open Source News & Events
**API basics**

The Code.gov API is a GET API. With this API, you will be able to explore the software projects that federal agencies have published in accordance with the Federal Source Code Policy.

There are two basic endpoints:

- `/repos` : this endpoint will let you query all federal repositories that have been indexed by us.
- `/terms` : this endpoint will let you query all terms we have indexed as part of our data harvesting process. These terms will help you in your search efforts.

**Additional Notes**

The rate limit for the API is currently 5,000 calls/day and 5 calls per 5 seconds. As we move forward and understand the impact of usage of the API, we will adjust the limits accordingly as well as allow for individual users with specific needs to have customized rate limits appropriate to their use.

**Example URL**

The URLs provided below are for initial browsing of API data. This DEMO KEY will not work after a certain number of attempts. Users can request a personal key from api.data.gov. The personal key will have more data access capabilities.

- https://api.code.gov/repos?api_key=DEMO_KEY
- https://api.code.gov/terms?api_key=DEMO_KEY

**Output**

The output data will be in JSON format.

**API Clients**

We have a couple of API clients on our roadmap.
BROWSE PROJECTS

6558 Repositories

Filter

Language

- Assembly
- C
- C#
- C++

Federal Agency

- Agency for International Development
- Consumer Financial Protection Bureau

Sort by

Data Quality

Project:

**data-act-broker-backend**

The DATA Act broker backend is a collection of services that power the DATA Act’s central data submission platform. To increase access to and use of federal financial data in order to strengthen government-wide decision-making and accountability through data transparency, the broker relies on hundreds of distinct data elements to tell the story of how federal dollars are spent.

Agency: Department of the Treasury Last Updated: 6/4/2019

Usage Type: Open Source
Languages: html, css, python
License: Creative Commons Zero v2.0 Universal

Data Quality Score 8.2

Go to Repo

**data-act-broker-web-app**

The DATA Act broker website is the front-end to the DATA Act broker backend. To increase access to and use of federal financial data in order to strengthen government-wide decision-making and accountability through data transparency, the broker relies on hundreds of distinct data elements to tell the story of how federal dollars are spent.

Usage Type: Open Source
Languages: html, css, python
License: Creative Commons Zero v2.0 Universal

Data Quality Score 8.2

Go to Repo
There are 65 open tasks

Explore Open Tasks

**API Agency Issues Report Accuracy?**

- **Agency:** General Services Administration
- **Last Updated:** 8/29/2019
- **Languages:** Not Available
- **Type:** Bug
- **Skill Level:** Beginner
- **Effort:** Small

**Add broken links to status report**

- **Agency:** General Services Administration
- **Last Updated:** 4/30/2019
- **Languages:** Not Available
- **Type:** Enhancement
- **Skill Level:** Intermediate
- **Effort:** Large

**multilingual support?**

- **Agency:** General Services Administration
- **Last Updated:** 12/25/2018
Projects on Code.gov
GSA’s US Web Design System

A design system for the federal government
Design and build fast, accessible, mobile-friendly government websites backed by user research.

- Getting started
- UI components
- What’s new
- Page templates
LLNL’s Open Source Software

Welcome to the LLNL software portal—a hub for our open source projects. Our full catalog is updated regularly as repositories are added or modified.

**APPLICATIONS**
Browse scientific simulation codes and IT management tools

- MacPatch 67
- cardioid 15
- Task-Time-Tracker 10
- code-calibration-tool 5

**BUILD TOOLS**
Automate and simplify complex dependencies and deployments

- spac 1173
- bit 83
- shroud 31

**DATA MANAGEMENT & VIZ**
Manage visualizations with robust features and configurable analysis

- zfp 221
- ghvis 77
- visit 58
- conduit 48
NSA’s Open Source Software

NSA-Developed Open Source Software

Welcome to the National Security Agency’s Open Source Software Site. The software listed below was developed within the National Security Agency and is available to the public for use. We encourage you to check it out!

Search for repos...

Apache accumulo

Apache Accumulo

Apache NIFI

Automates the flow of data between systems. NIFI implements concepts of Flow-Based Programming and solves common data flow problems faced by enterprises.

AppLocker-Guidance

Configuration guidance for implementing application whitelisting with AppLocker. #nsacyber

AtomicWatch

Intel Atom C2000 series discovery tool that parses log files and returns results if a positive match is found. #nsacyber

beer-garden

The beer-garden application

BitLocker-Guidance

Configuration guidance for implementing BitLocker. #nsacyber

CodeCov

Block-Odualt-Web
WHERE WE ARE GOING
Enhancements to the platform

Studies to better understand federal OSS environment
  ▪ Federal Source Code Study - FSCS (next slide)
  ▪ Value of federal source code - Spring 2020

Events - Federal Source Code Summit - April 16th
  ▪ For feds by feds
  ▪ 1/2 day
20 of 24 CFO Act agencies participated

Collected data through interviews and documents

Analyzed organizational aspects to implement the FSCP and publish OSS

Findings - most agencies see value in using and publishing OSS, agencies seeking more guidance

Supporting development of Toolkit with process tutorials and document templates
THANK YOU!