Augmenting the User Experience in Open OnDemand

Aday Bujeda	The Agile Monkeys
Sarah Duncan, William Horka, Emily Lawrence, Michael Reekie, Evan Sarmiento, Tania Schlatter, Leonard Wisniewski	Harvard University Institute for Quantitative Social Science
Alan Chalker, Jeffrey Ohrstrom	Ohio Supercomputer Center

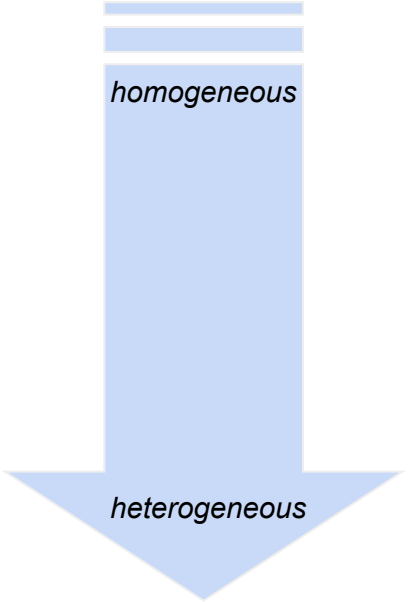
Overview

- Our Journey
- Case Study of Contributing to an Open-Source Software Project
- Our Contributions to Open OnDemand 3.0

Our Journey

From siloed development to research and collaboration.

- 2005-2011
  - loose organization with overlapping roles
  - focus on infrastructure, scale, and usability
- 2012-2015
  - formalized separate dev and ops roles
  - focus on hybrid cloud, portability, elastic scaling infrastructure
- 2016-2019
  - added formal project management and design roles
  - focus on cloud-native full stack with orchestrated container workloads, responsive user-centered design, formal project management, and CI/CD
- 2020-2023
  - expanded intra- and inter-institutional collaboration
  - focus on UX, user-centered design, formal project management, CI/CD, and leveraging collaboration to expand scope and scale



Our Methods

- User-Centered Design
  - “Research Software Science”
- Project Management
  - Agile
  - Kanban
- Development Processes
  - Git Flow
  - Dev/Test/Staging/Prod
  - CI/CD

Case Study of Contributing to an Open-Source Software Project

The goal of the Sid Project is to make HPC more accessible through improvements to the User Experience.

- Prototype
- Communication
  - Shared Goals
  - Integrated Processes
  - Community Engagement
- Contribution
- From Consumers to Collaborators

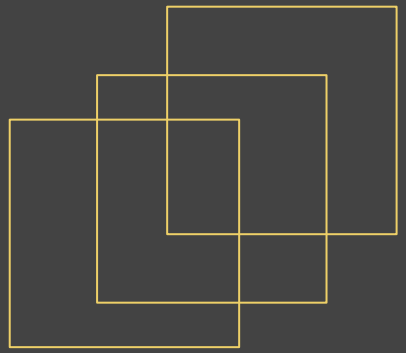
for

Our Contributions to Open OnDemand 3.0

- Profiles
- Custom Branding / Look & Feel
- Custom Navigation
- Custom Pages
- Recently Used Apps Widget
- Running Sessions Widget
- Quick Launch *
- Job Cancel
- Job Relaunch
- Enhanced Session Card
- Support Ticketing

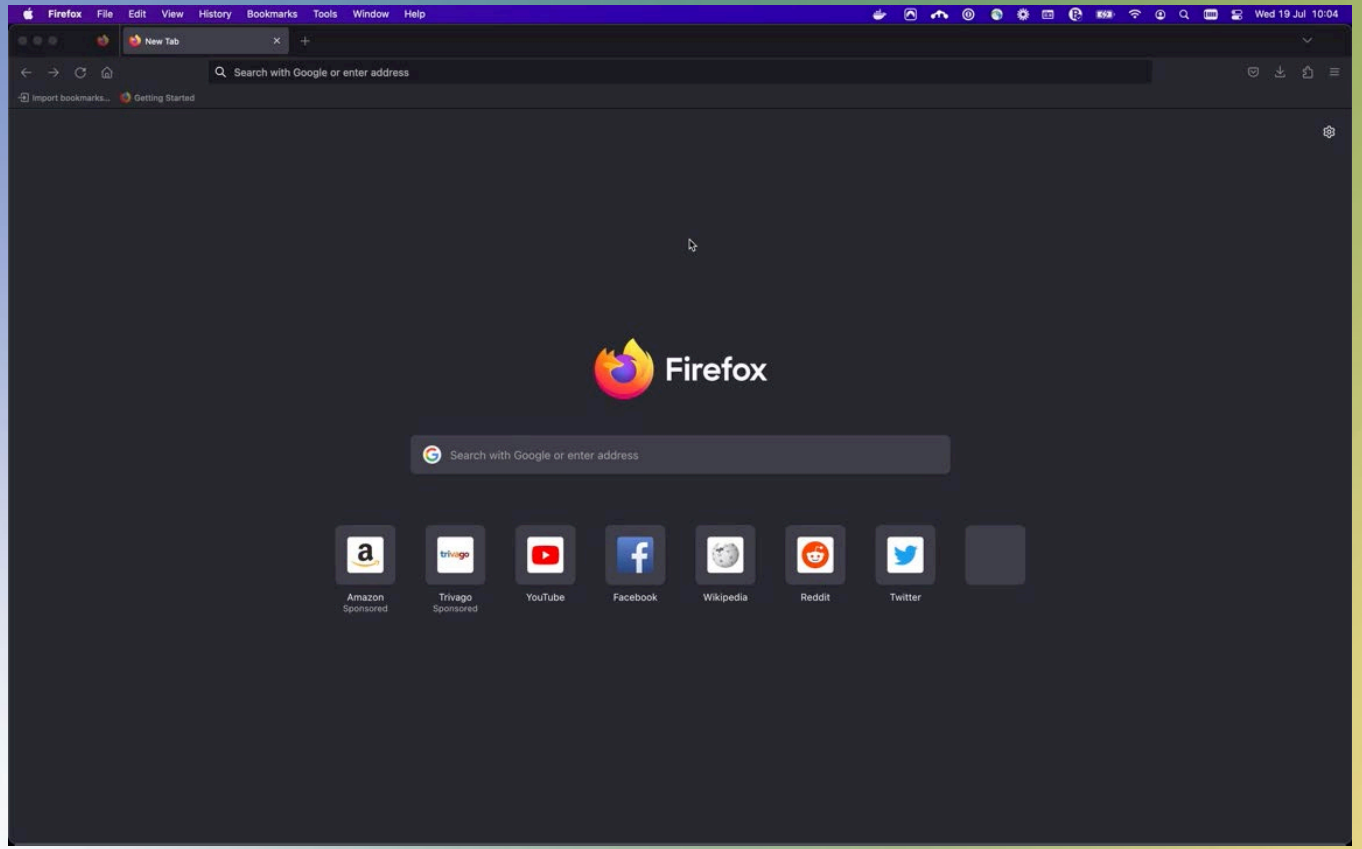
All Harvard-collaboration Features

- #2345 Pinned Apps - Tile content improvements
- #2336 Custom Navigation - Configuration Improvements
- #2326 Customize Left Hand applications navigation for Interactive Apps and My Interactive Sessions
- #2322 OnDemand UI - Extended Pages - Add new pages with layouts and widgets based on configuration
- #2286 Create a support ticket from the OnDemand interface
- #2276 Add support for full definition of the right hand side navigation
- #2244 Configuration based navigation links
- #2215 Move settings for NavConfig and ShowAllApps to profile based configuration
- #2214 Support for configuration profile aliases
- #2150 Branding Customizations - Support for custom CSS file
- #2149 Branding Customizations - Support branding customizations based on profiles
- #2117 Support for multiple Homepage layouts and widgets configurations for the same installation



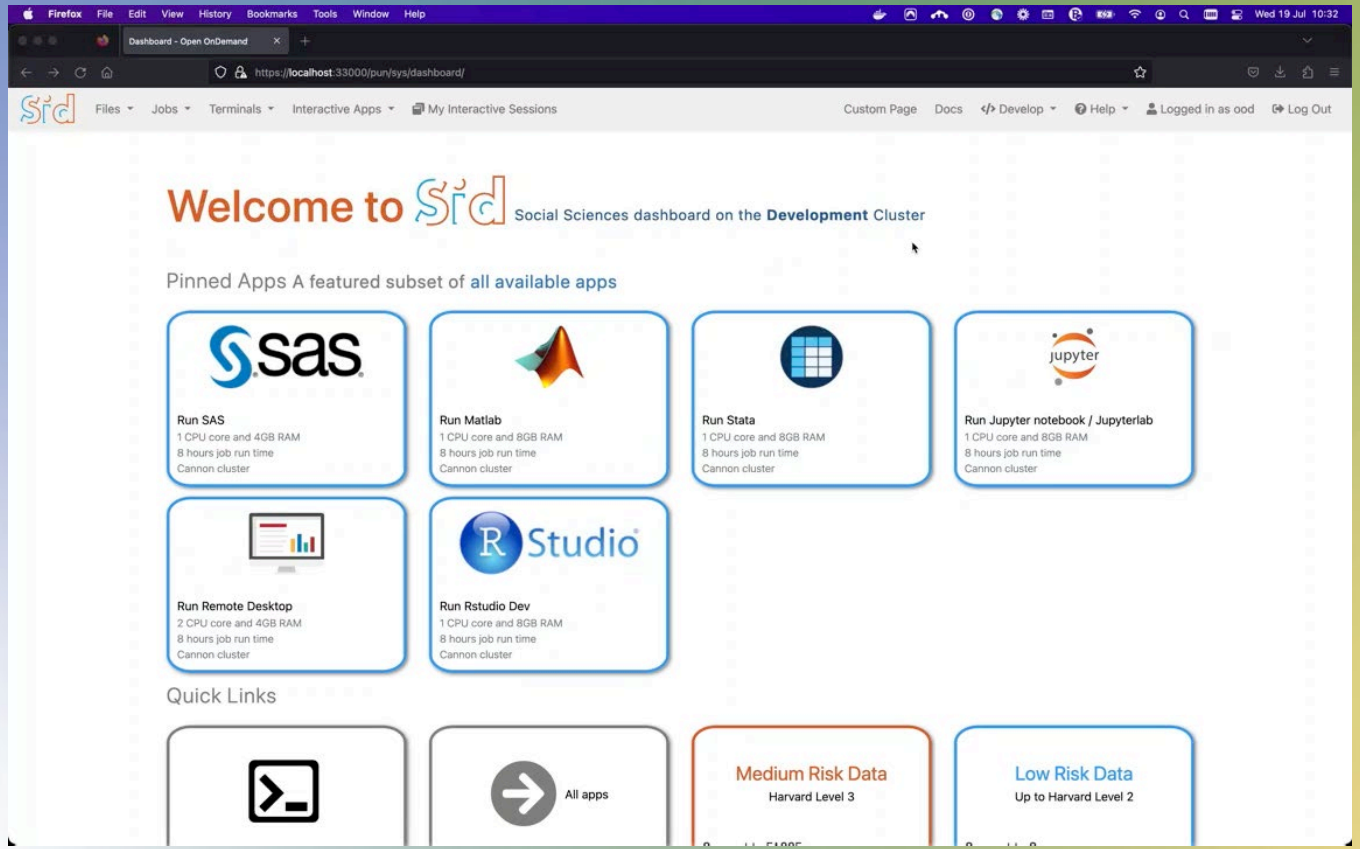
Demo

Profiles for Custom Look & Feel and Custom Navigation

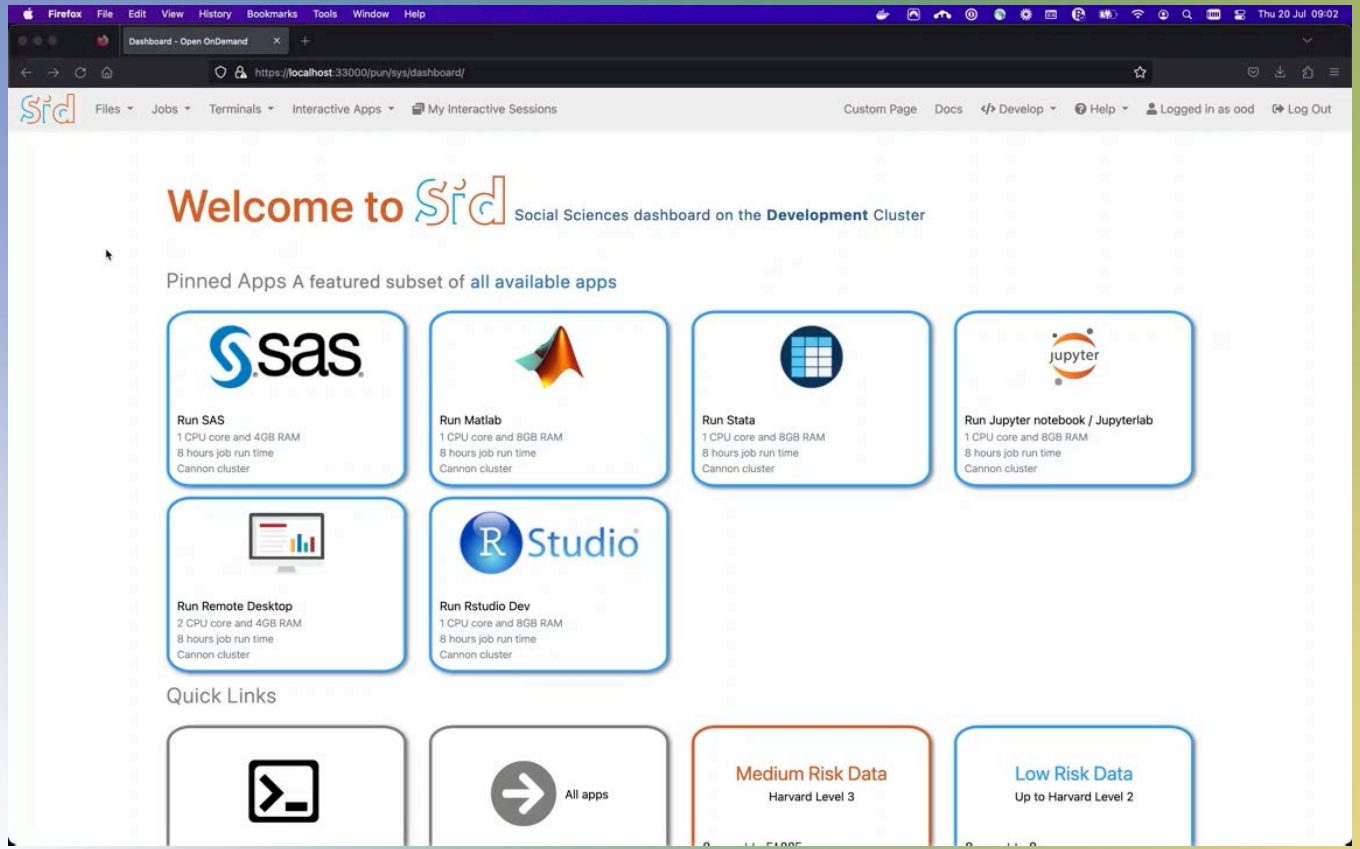


Custom Pages

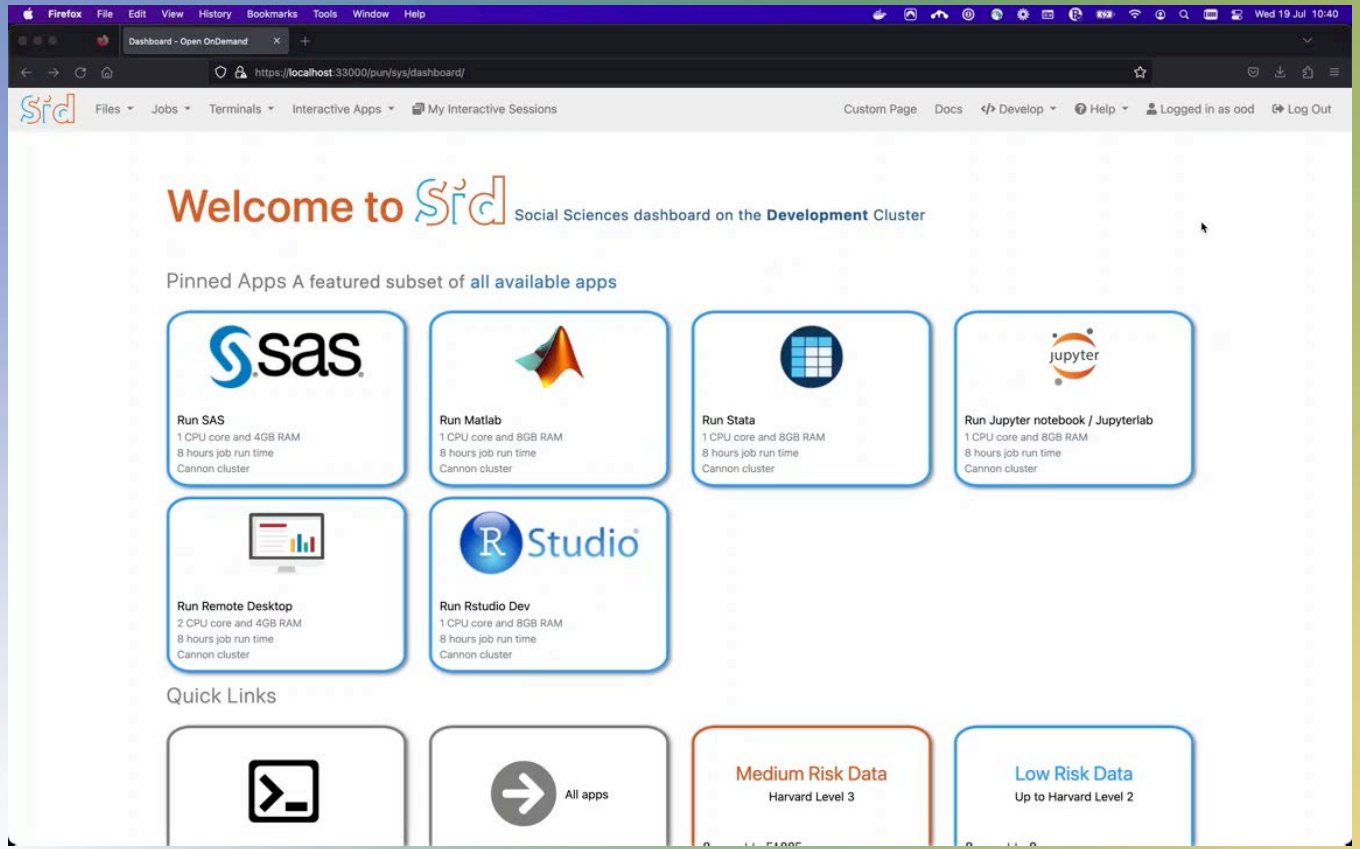
Quick Launch



Job Cancel & Relaunch and Recently Used Apps Widget



Support Ticketing



Next Steps

- More User Experience (UX) research
- More Custom Profile flexibility

Community input is welcomed on OOD Discourse and monthly Tips & Tricks meetings. Visit https://discourse.openondemand.org/

Questions?

Thank You