BIDS Sprint 3 Report

Fully virtual, February 6-10, 2023

TL;DR?

Summary slide is at Slide 10

The following slides cover each project's progress for the week in "long" detail.

The summary slide on Slide 10 is the "short" version.

Schema

Progress

- Every validator issue completely categorized
- Less than 12 issues are not done in the schema now
  - GitHub issues have been opened where validation is not yet included for these issues
- Open tasks
  - Finalize microscopy (OME and TIFF are still incomplete)
  - Write some instructions for implementers
  - Come up with in-schema unit tests to pair context stubs to issues that should error/warn

Validator

- Now working client side in OpenNeuro
  - Building tools, a new command line library, and various Deno -> browser blockers were resolved
- Continuous Integration via GitHub actions for Linux, Mac, and Windows
  - BIDS examples are running correctly with “expected” failures
  - Schema expression language tests pull directly from the schema setup as well
- Quality of life improvements - better logging, wrapper for deno run command, ability to select schema by version, url, path.
- Open tasks
  - Need to allow configuration of issue levels as an argument
  - Format type checking for JSON and TSV
  - Rectify remaining error codes from bids_examples

OpenNeuro

- Schema validator is working on the client side (before uploads)
- Most UI components function with either the legacy or schema validator now
- Demonstration deployed to staging site
- Open tasks
  - Server side validator needs some fixes to work with new command line and options
  - Issues components do not render details well
  - Switch for enabling/disabling per dataset is not implemented
  - OpenNeuro's validator configuration is ignored by the schema validator
  - Schema validator typescript integration is not working in OpenNeuro's build chain

Tooling (full tooling report here)

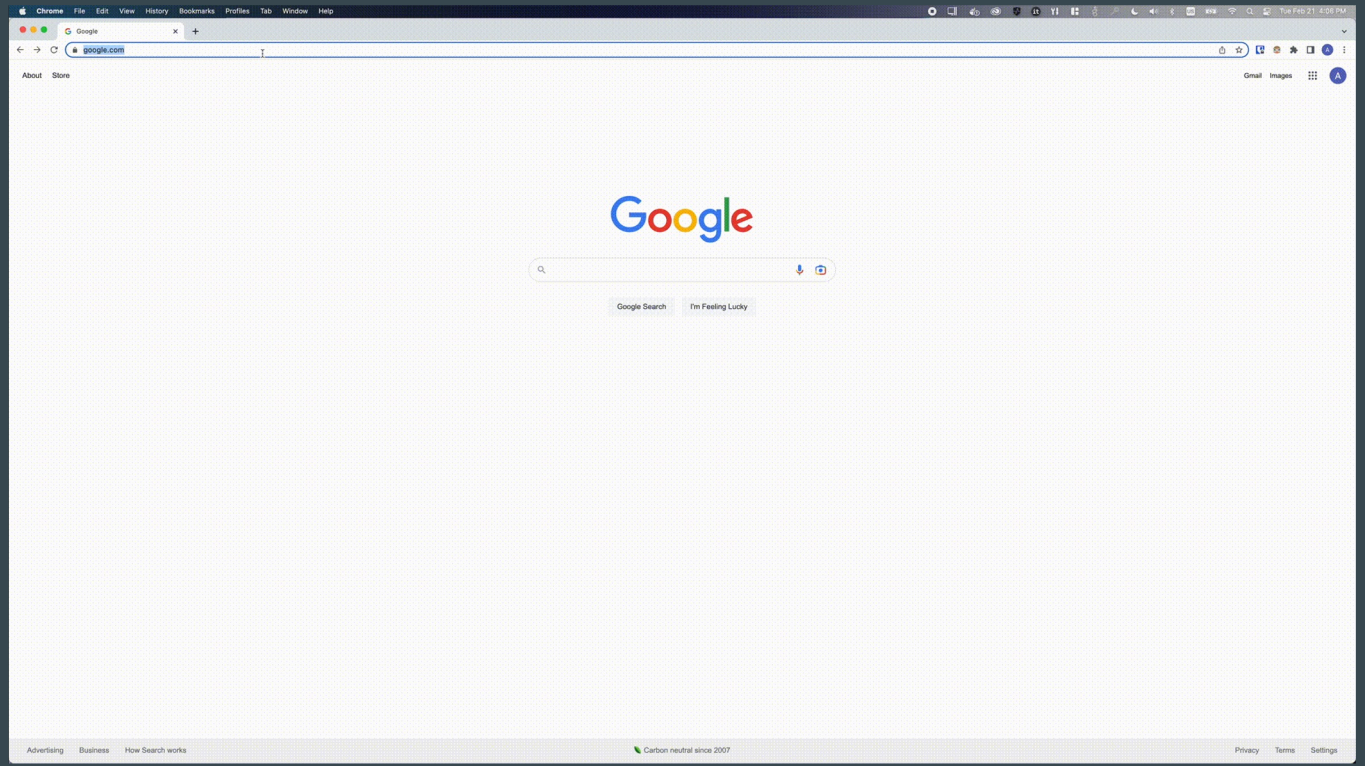
- New bst.parse Module
- New bst.tests.test parse Module
- bst validator now supports .bidsignore
- BIDS Examples Fixes
- Parameterized Data Exclusion
- Added checks to determine if Schema Version is compatible with the validator
- Simpler and more seamless CLIs
- Initial progress on a Python implementation of the schema expression language (for rule selectors and checks): bids-specification pull request #1412
    - To do: Test parser on all test expressions and expressions found in schema
    - Implement context object and evaluate expressions

Documentation

- A standalone BEP Guide exists now! https://bids-extensions.readthedocs.io/
  - The little drop-down on GET INVOLVED on the BIDS Website was removed
    https://bids.neuroimaging.io/get_involved.html
    https://github.com/bids-standard/bids-website/pull/278
  - Content from the GET INVOLVED drop-down is now a part of the readthedocs
    https://bids-extensions.readthedocs.io/en/latest/guide/
    https://bids-extensions.readthedocs.io/en/latest/submission/
  - A full content review occurred and a new “About the Schema” page exists
    https://github.com/bids-standard/bids-extensions/pull/8
    https://bids-extensions.readthedocs.io/en/latest/schema/
  - Added schema section (largely built off of Chris’ state of the schema presentation), included example schema objects, links to schema, and renderings from the schema https://github.com/bids-standard/bids-extensions/pull/9

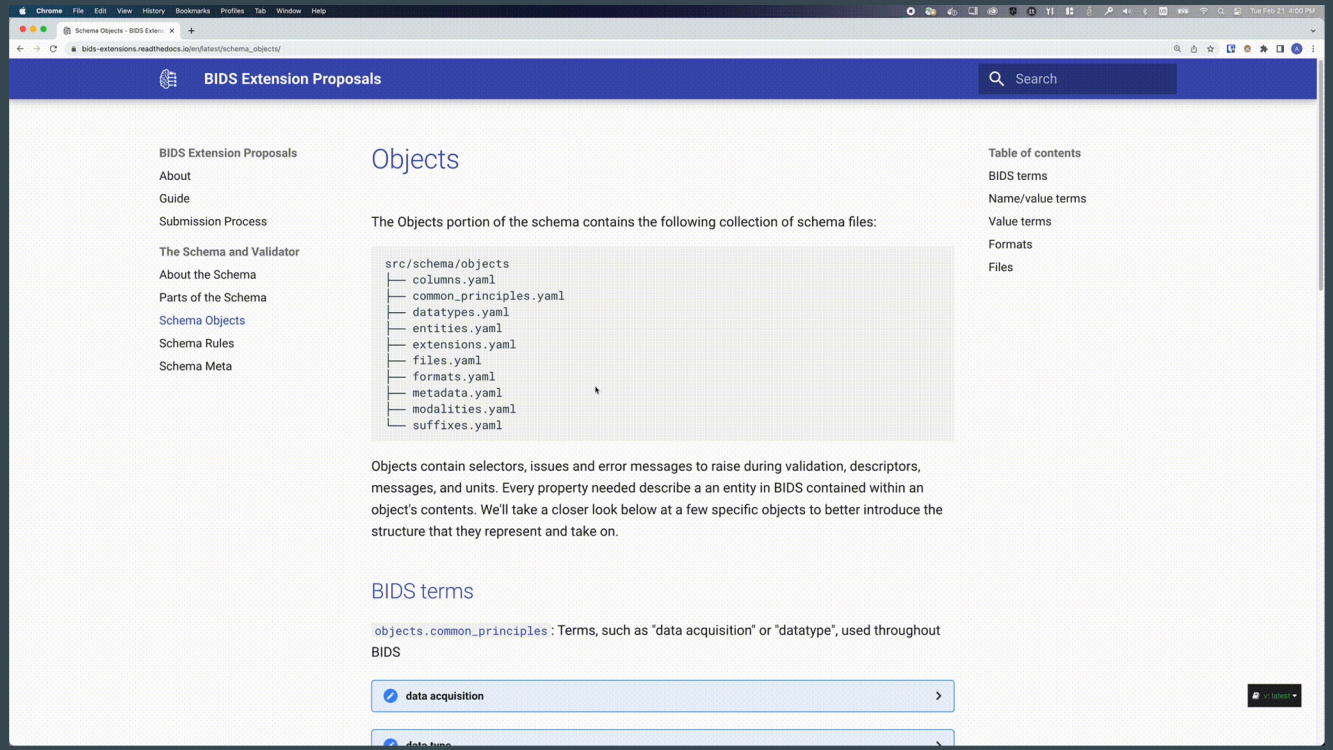
Documentation

- Information for contributing to BEPs now resides in one place



Documentation

- Information and examples of the schema now reside with BEP documentation



Summary

- Overall a success, with many corner/edge cases becoming accounted for
- 7 “main” participants there all week, 8 “additional” attendees on/off throughout
- All 5 projects made large leaps this week
  - **Schema**: Only about 5% of the ~200 legacy validator issues are left to include
  - **Validator**: Client-side on OpenNeuro ***AND*** CI is there for bids_examples
  - **OpenNeuro**: Most UI components function with either validator now ***AND*** there’s a live demo
  - **Tooling**: Many issues requiring dedicated time received that time and got addressed
  - **Documentation**: A standalone BEP Guide exists now ***AND*** has schema design documentation
- Long virtual events are more difficult on participants due to “Zoom fatigue”
- The need for another sprint will not be considered again until May 2023

SPECIAL THANKS TO THE STANFORD FOLKS AND THE NIMH DSST FOLKS FOR MAKING THIS HAPPEN!!!!

Week’s reference documents

1. February 6-10 BIDS Sprint 3 Schedule
2. Sprint Welcome
3. “State of the Schema” Presentation Recording (passcode: @Sprint2023)
4. "State of the Schema" Presentation Slides
5. BIDS Sprint 3 Working Document
6. bids-extensions.readthedocs.io
7. Tooling and Python Validation report