

Agenda

- Who we are
- Why we built Y'All
- Key features in Y'All
- The user experience
- Behind the scenes
- Summary and recap
- Adopting Y'All in your organization



Who We Are



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About Novozymes

- Global biotechnology company building biological solutions for sustainability, improved performance, and reduced costs
- Supporting many industries, including agricultural, biofuels, household care, food and beverages, animal health, and more
- > 6000 employees globally
- Hundreds of JMP users!



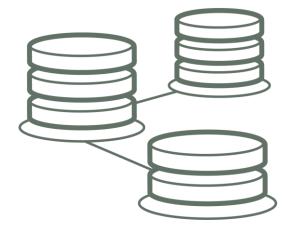
Motivation: Why we built Y'All



Make Updating Easy

No more emailing scripts, no more relying on personal network drives.

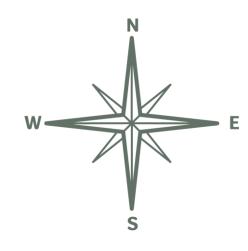
Make distributing new or updated JMP scripts effortless.



Archive and Safeguard Code

Provide a central repository where valuable code is stored and archived.

Automatically track versions of script over time.



Discover and Reuse Scripts

Make it easy to find relevant JMP scripts written by other developers.

Make it convenient to share, import, and reuse functions in JSL.



Y'All's Key Components



Python Build Script

Automatically parse and structure JSL files into Add-In menus.

Write Add-In definition files, generate imported Custom Functions, and ZIP into a .jmpaddin



GitLab Interface and CI/CD

Easy point-and-click upload of scripts to the central repository.

Automate execution of Python script and distribution of the add-in through Release and Beta version channels



JSL Load and Update

Check for new versions on selected channel on JMP load and offer to download and update

Import custom functions into the Scripting Index





Filter ₽ ▼

yallutils: append Table To Post gres Database Record

appendTableToPostgresDatabaseRecord({schema

Append the contents of the JMP datatable as new rows on a database table acting as a record.

Similar to the built-in Save Database function, except that this Inserts rows, leaving

existing rows in the table intact. Will also create the required record table if it does not exist.

Arguments:

schema = The Postgres database schema to contain the row state record

table_name = The Postgres database table to contain the row state record. Table will be created if it doesn't exist. datatable = The JMP table to write. Column names MUST match the Postgres database table.

background = Boolean indicator of whether the query should run in the background or not

Background operations should be used when JMP has a few seconds to complete the table

creation before data will need to be written. For instance, if the user is going

to interact with a UI before adding records to the table.

Key Features in Y'All

- Super easy script contribution from any JMP user
- Automatic version control and storage
- Automatic or manual JMP add-in updates
- Beta version channel for rapid build and testing
- Release channel for controlled deployment
- Discoverable and reusable JSL files
- Convenience utility functions added to Scripting Index and JSL editor





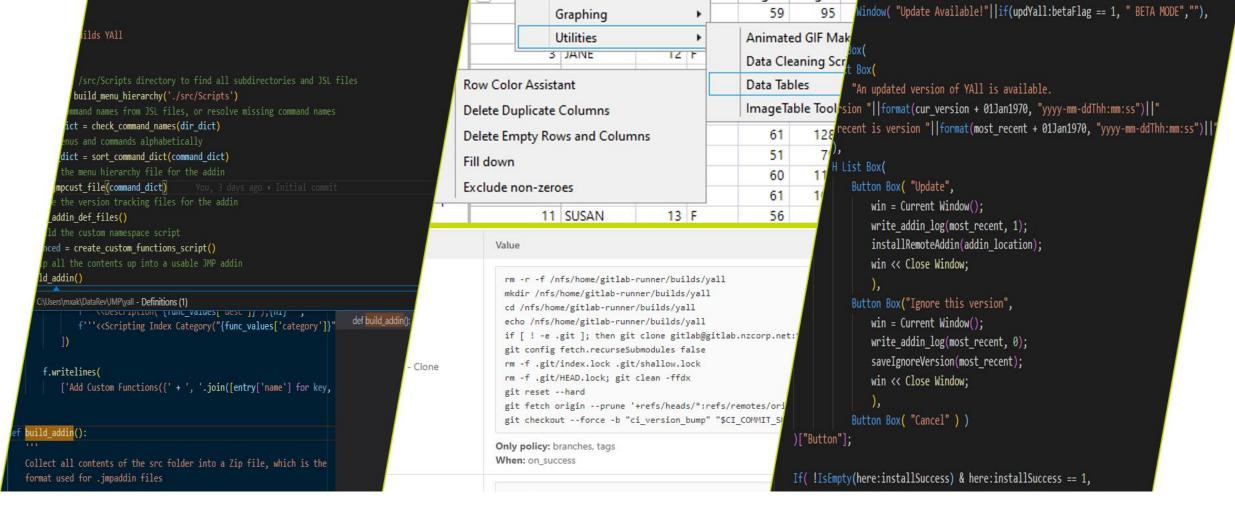
Demo Code Acknowledgements

In the JMP Community instance of Y'All, we've included some examples of scripts for demonstration purposes:

- <u>isonparser.jsl</u> from Xan Gregg and Craige Hales
- Data Cleaning Script Assistant from Jordan Hiller and Mia Stephens, JDS 2020
- ImageTable Tools by Heidi Hardner and Serkay Olmez, JDS 2020
- Color Row Selection.jsl by Nick Holmes
- Multiple Y-Axis Chart by Byron Wingerd
- Autovalidation Setup by Mike Anderson
- Importable Riffyn API functions by Riffyn, Inc., from the RiffynTools for JMP Add-In







Live Demos:

The user experience, and what's happening behind the scenes

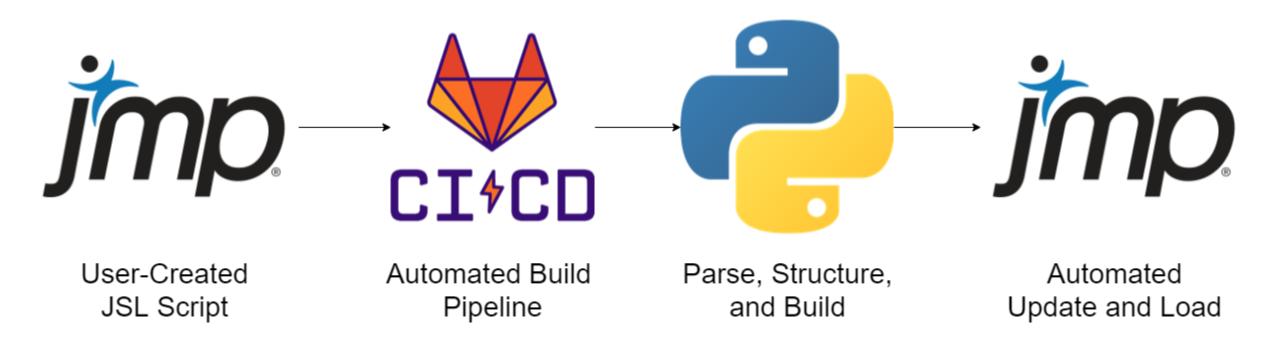




Recap: Features

- Easy contribution
- Version control
- Automatic updates
- Beta and Release channels
- Discoverable code
- Utility functions

Recap: Technical Details



How to start if you want to use Y'All

- The ZIP file containing all necessary elements is available on the JMP Community
- The Python build script uses only native Python 3 libraries, and should run on any standard Python installation
- Central repository storage and automation can be achieved through GitLab, GitHub, Azure, AWS, etc. Implementation details are specific to your organization
- The CI/CD pipeline defined in *.gitlab-ci.yml* will also require modification to reflect your repository location and filesystem structure
- Any connection strings to our internal database have been replaced with "ODBC:my_connection_string" and will need to reflect your database



