

SIMPLE Archive of Complex Objects

A new collaborative archive of low mass stars, brown dwarfs, and planetary mass objects

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Introduction & Vision

The SIMPLE Archive project — the Substellar and IMaged PLANet Explorer Archive of Complex Objects — is an endeavor to create a collaboratively maintained database of low-mass stars, brown dwarfs, and directly-imaged planetary mass objects using GitHub, Python, and SQL.

Holdings: We envision the SIMPLE Archive to eventually hold lightly curated data for free-floating brown dwarfs/planetary-mass objects and late-type/substellar companions to stars. We plan to archive data for brown dwarfs with spectral types M7 and later and directly imaged planetary mass objects, including their spectra, images, and modeled parameters.

Interfaces: There will be a website and a command line interface to interact with the archive, including both data queries and ingestion. The website will provide a way to visualize spectra and images of objects in the archive. A major goal of this project is to facilitate the sharing of JWST spectra among interested community members.

Current Status

Data ingestion and building the website and command line interface are all being done in parallel. We are actively building and populating the database and developing the website via weekly co-working meetings. We are utilizing the `sqlalchemy` and the `astrodbkit2` package and building on the lessons learned from building the BDNYC database (<http://database.bdnyc.org>). The website is being built using a flask framework.



<https://github.com/SIMPLE-AstroDB/SIMPLE-db/>

<https://github.com/SIMPLE-AstroDB/SIMPLE-web/>



#simple-db-dev on astropy.slack.com/

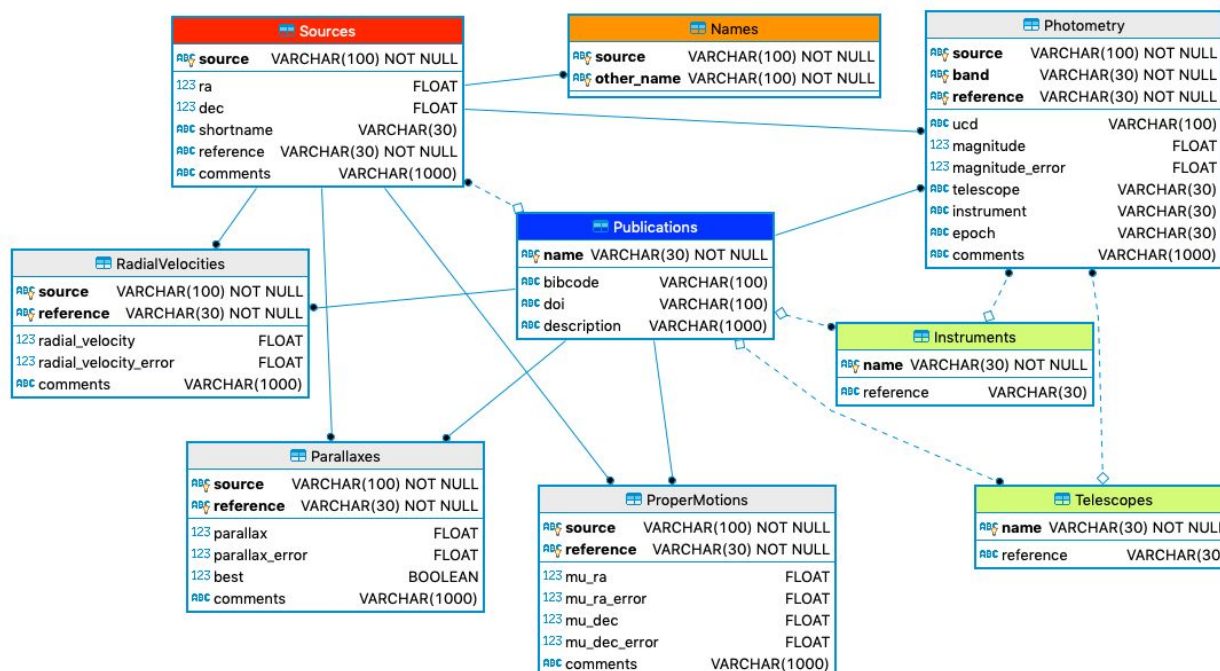
<http://joinslack.astropy.org/>



Google Groups

<https://groups.google.com/g/simple-archive>

Graphical representation of a subset of the SIMPLE schema.



Join the dev team!

The current development team includes folks from a range of career stages, programming experience levels, and astronomy experience and we welcome more people to join us! All of the code and objectives can be found on the GitHub repos. Folks can also join the Simple Archive Google group for occasional project updates and/or the #simple-db-dev channel in the Astropy Slack workspace for development discussion.

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