

Deposit, Discover, and Reuse Research Data with *depositar*

Tyng-Ruey Chuang, Cheng-Jen Lee, and Chia-Hsun Wang
Institute of Information Science & Research Center for Information Technology Innovation
Academia Sinica, Taipei, Taiwan

What is *depositar* ?

depositar – taking the term from the Portuguese/Spanish verb for to deposit – is an online repository for research data. The site data.depositar.io is built by the researchers for the researchers. You are free to deposit, discover, and reuse datasets on *depositar* for all your research purposes.

For Your Datasets

Datasets – collections of tables, maps, documents, or other data files – are fast to upload and preview. Once uploaded, datasets have permanent links for all to reference and download. You are encouraged to annotate your datasets with rich metadata so that they can be better discovered. An intuitive interface is provided to support spatiotemporal description and query for datasets. Moreover, in *depositar* all datasets use keywords sourced from Wikidata! Datasets on *depositar* are inter-connected by their semantics. They are ready to be explored and reused.

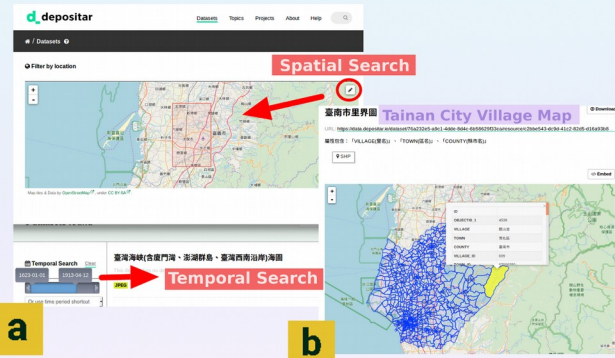
For Your Projects

Research is teamwork, and *depositar* is built for collaborative research! After getting accounts on *depositar*, researchers can form projects to share datasets among themselves. Datasets can be put under access control, so that they remain private to project members. Metadata in *depositar* can be collaboratively edited, and different uploads of a dataset are versioned. When it is time to release the data, there are several open licenses to choose from. Of course, data can be dedicated to the public domain too.

It's Open and Free!

The software for *depositar* is built on top of CKAN, an open source software package for publishing open data. CKAN stands for Comprehensive Knowledge Archive Network. CKAN is a project from Open Knowledge International, and is itself supported by a viable developer and user community. We customize and extend the CKAN codebase to better support research data management. Our extensions to CKAN are open source too. The service provided by data.depositar.io is experimental as of now. It is free for all academic use.

Data Discovery and Preview



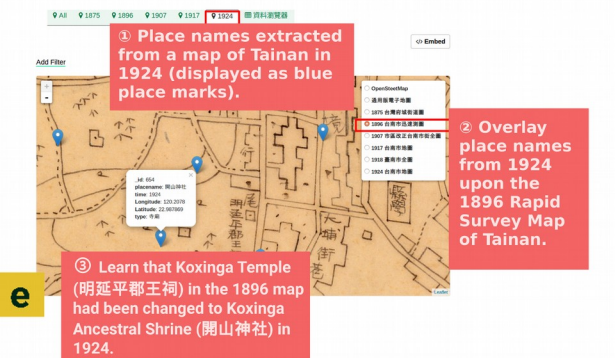
(a) An example of spatiotemporal search. Datasets are filtered by spatial or temporal constraints, or both. (b) An example of geospatial data preview (for Shapefile).

Roadkill Observations - A Showcase



(c) Tabular data is previewed and queried as a spreadsheet. (d) Tabular data with coordinates is visualized over a base map; an entry in the table is displayed at its location.

Place Names & Maps - A Showcase



(e) An example of spatiotemporal mapping. Place names extracted from a map in 1924 are overlapped upon another map in 1896.