

Preston

a biodiversity dataset tracker

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<https://github.com/bio-guoda/preston>

Biodiversity datasets are increasingly digital,
integrated, online and openly available . . .
thanks to an immense transnational effort in
standardization, digitization and community
building.

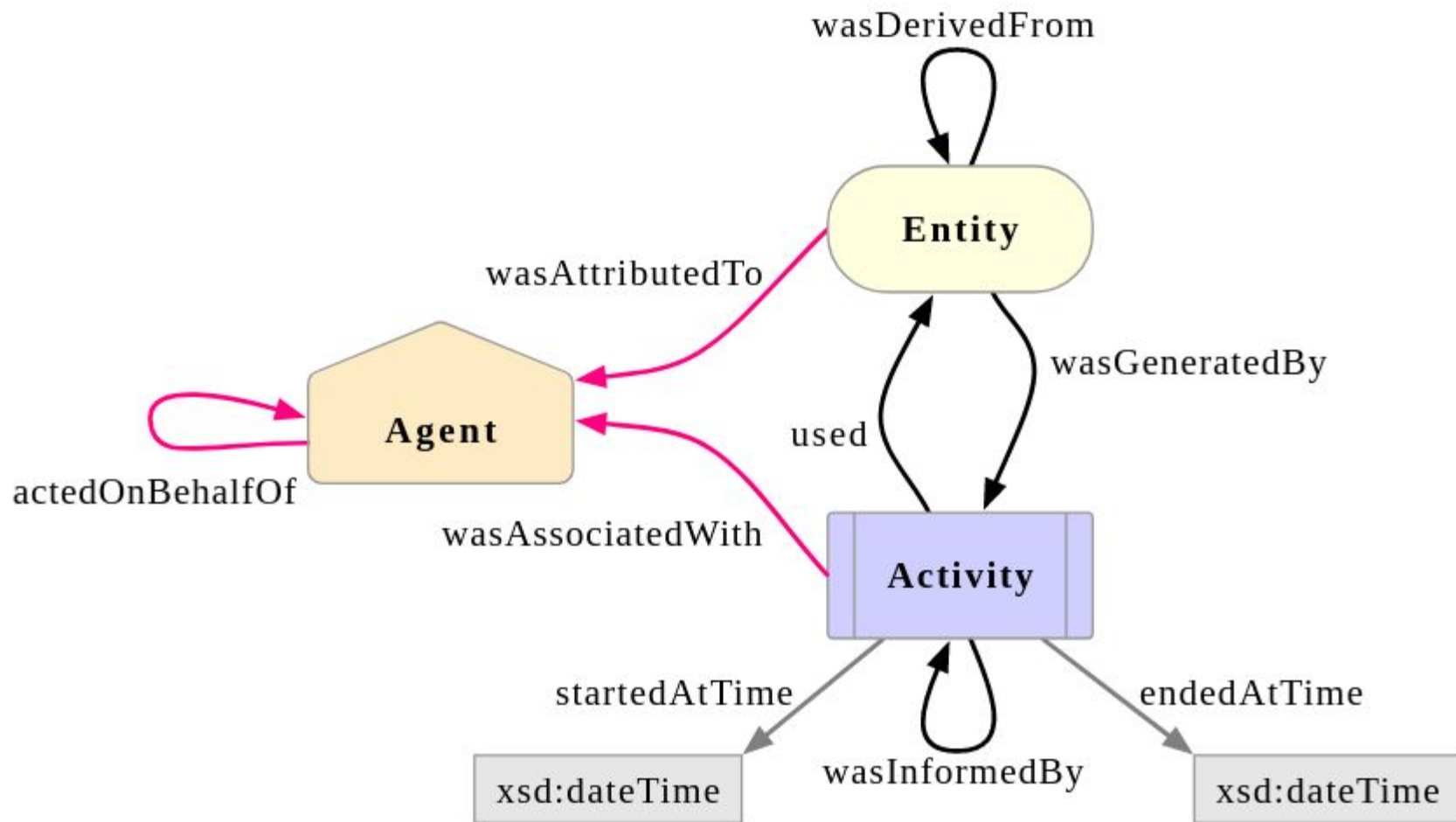
and . . .

Change is hard.

The controlled distribution, integration and archiving of ever changing datasets in an international consortium of institutions continues to be a challenge.

Embracing Change.

Preston can track the change in biodiversity datasets and their registries using the Provenance (POV) and Provenance, Authoring and Versioning (PAV) ontologies and content-addressed hashes.



Keeping track.

Preston is a command line tool that can perform carefully recorded visits to data registries (e.g., GBIF) and their partner institutions to store local versioned content in a biodiversity dataset graph.

Try it @ <https://github.com/bio-guoda/preston>

```
$ java -jar preston update "http://api.gbif.org/v1/dataset/suggest?q=Amazon&type=OCCURRENCE"  
<https://preston.guoda.org> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://www.w3.org/ns/prov#Sof  
<https://preston.guoda.org> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://www.w3.org/ns/prov#Age  
<https://preston.guoda.org> <http://purl.org/dc/terms/description> "Preston is a software program that finds  
<83e11589-3579-47d8-ad5b-126e640112cd> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://www.w3.org/  
<83e11589-3579-47d8-ad5b-126e640112cd> <http://purl.org/dc/terms/description> "A crawl event that discovers  
<83e11589-3579-47d8-ad5b-126e640112cd> <http://www.w3.org/ns/prov#startedAtTime> "2018-09-05T09:42:39.614Z"^^  
...
```

Curious to hear your thoughts.