

OpenGeoMetadata

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What is it?

- A shared repository for geospatial metadata
- Centralized highly available service
- Decentralized collaborators

Traditional approaches to metadata collaboration

- No collaboration
 - Resource intensive \$\$\$
 - Many institutions are creating metadata on same or similar data

Traditional approaches to metadata collaboration

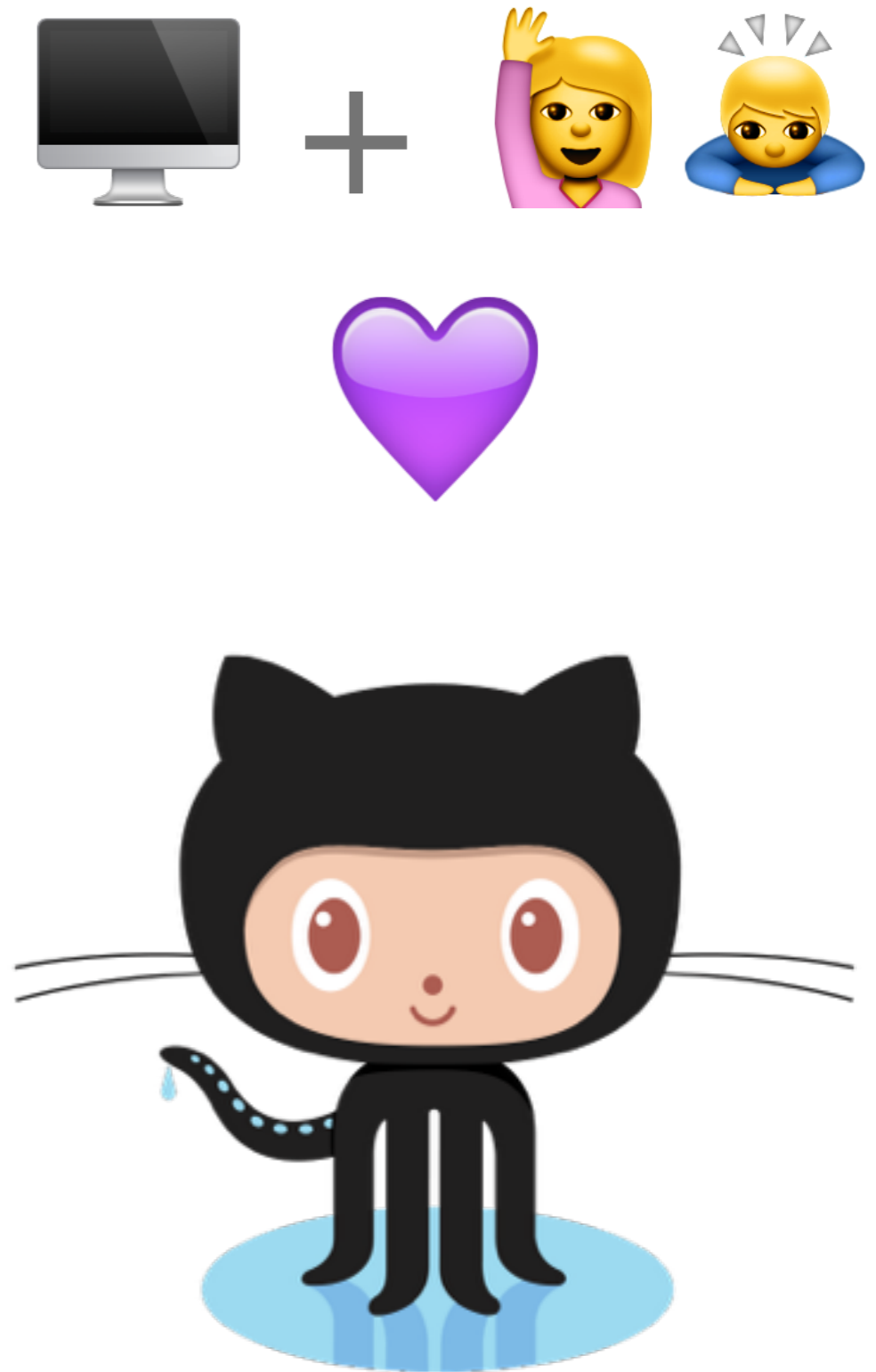
- Use listservs and personal contacts to email records and best practices
 - Difficult to collaborate with more than a few people
 - Ephemeral record of collaboration
 - No version control

Traditional approaches to metadata collaboration

- Publishing / harvest software
 - Can be difficult to get started, requires infrastructure costs to implement and maintain
 - Great for publishing / harvesting but falls short on collaboration

OpenGeoMetadata as a solution

- Uses git software to version control metadata
- Uses GitHub as a highly-available platform for collaboration



Implementation

- Individual metadata repositories for each collaborating organization under a common GitHub Organization
- Namespace benefits
- Internal user management
- No metadata standards enforcement



Filters ▾

Find a repository...

GeoCombine

XSLT ★ 2 | 3

A Ruby toolkit for managing geospatial metadata

Updated 32 minutes ago

edu.virginia

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Spatial metadata of the University of Virginia

Updated 23 hours ago

metadatarepository

★ 19 | 2

A repository for shared geospatial metadata collaboration.

Updated 7 days ago

edu.stanford.purl

HTML ★ 1 | 0

GIS Metadata for Stanford University Libraries

Updated 7 days ago

uk.bl.www

★ 0 | 0

Updated 15 days ago

edu.princeton.arks

★ 0 | 2

Updated on Mar 5

edu.umn

★ 0 | 1

University of Minnesota spatial metadata

Implementation

- Recommended repository structure
 - Git repository with a unique namespace for each organization

`/edu.stanford.purl/`

Implementation

- Recommended repository structure
 - Individual “layer” metadata be contained within a unique directory

`/edu.stanford.purl/`

`layer123/`

`fgdc.xml`

`layer456/`

`fgdc.xml`

Basic implementation

Implementation

- Recommended repository structure
 - Ideally this should be a pear tree structure

`/edu.stanford.purl/`

`bb/338/jh/0716/`

`iso19110.xml`

`iso19139.xml`

`preview.jpg`

`bb/509/gh/7292/`

`iso19110.xml`

`iso19139.xml`

`preview.jpg`

Recommended implementation

Implementation

- Recommended repository structure
 - Include a **layers.json** file for mapping

```
/edu.stanford.purl/
```

```
bb/338/jh/0716/
```

```
iso19110.xml
```

```
iso19139.xml
```

```
preview.jpg
```

```
layers.json
```

Recommended implementation

Implementation

- Recommended repository structure
- **layers.json** looks like this

```
{  
  "unique-identifier": "directory-location",  
  "druid:bb338jh0716": "bb/338/jh/0716",  
  "druid:bb509gh7292": "bb/509/gh/7292",  
  "druid:bc899yk4538": "bc/899/yk/4538",  
  ...  
}
```

Recommended implementation

Implementation

- Recommended repository structure
 - Institutions can include as much or as little metadata within a layers individual directory

Example directory within `/bc/899/yk/4538/` ([View on Github](#))

```
geoblacklight.json  
iso19110.xml  
iso19139.xml  
mods.xml  
preview.jpg
```

Recommended implementation

Toolkits forming around this

- ogm_utils - Python https://github.com/OpenGeoMetadata/ogm_utils-python
- GeoCombine - Ruby <https://github.com/OpenGeoMetadata/GeoCombine>

More information at:

[https://github.com/OpenGeoMetadata/
metadatarepository](https://github.com/OpenGeoMetadata/metadatarepository)