

Aboy Catings 52

Git and GitHub are knock geospatial's door

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DALL-E Instructions: octocat knocking on mapping departments door, maps on the wall, digital art

Koordinates today

We've developed a world-class, award-winning platform for managing and distributing data.

283

USERS

180,000+

DATASETS

15,000+

DATA

18+ TB

8

DATA QUERIES PER ANNUM

3 BIL

Outline

- Introduction
- Defining GIT
- Why is it knocking?
- Kart for Data



DALL-E Instructions: squid and cat making a map

Define Git & Github

Git

From Wikipedia, the free encyclopedia

For other uses, see Git (disambiguation).

Not to be confused with GitHub or GitLab.

Git (/grt/)^[8] is free and open source software for distributed version control: tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during software development. Its goals include speed, data integrity, and support for distributed, non-linear workflows (thousands of parallel branches running on different systems),[9][10][11]

Concept,
Principals,
Code

GitHub

From Wikipedia, the free encyclopedia

Not to be confused with Git or GitLab.

GitHub, Inc. (/gtth\(\triangle^{[a]}\)) is an Internet hosting service for software development and version control using Git. It provides the distributed version control of Git plus access control, bug tracking, software feature requests, task management, continuous integration, and wikis for every project. [5] Headquartered in California, it has been a subsidiary of Microsoft since 2018. [6]

Hosting Service, Tools, UI

Geospatial data storage is fundamentally different

git

```
#define TIFFTAG_PERSAMPLE 65563 /* interface for per sample tags */
#define PERSAMPLE_MERGED 0 /* present as a single value */
#define PERSAMPLE_MULTI 1 /* present as multiple values */
```

git storage and tools optimised for text-like source code

geospatial data

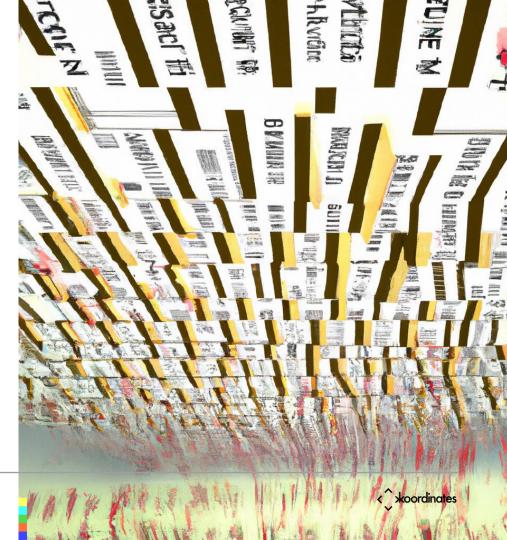


SQL tables common, vector geometries, rasters + grids

So why GIT is knocking on geospatial's door...

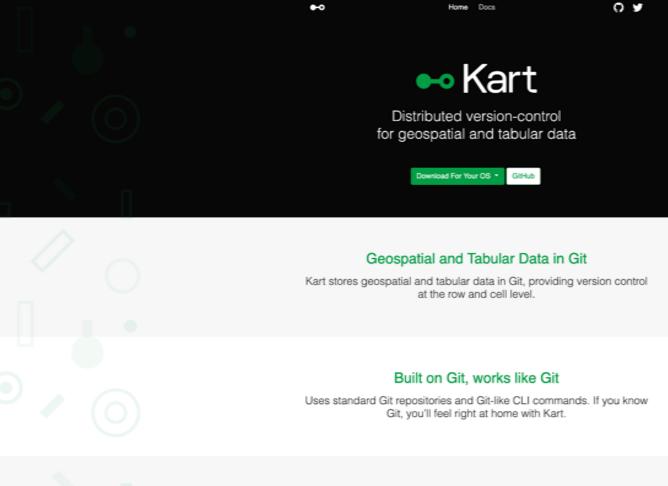


Good science requires repeatable methodology and data





Data as an Asset



Supports current GIS workflows

Provides repository working copies as GIS databases and files. Edit directly in common GIS software without plugins.



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