

# Database construction

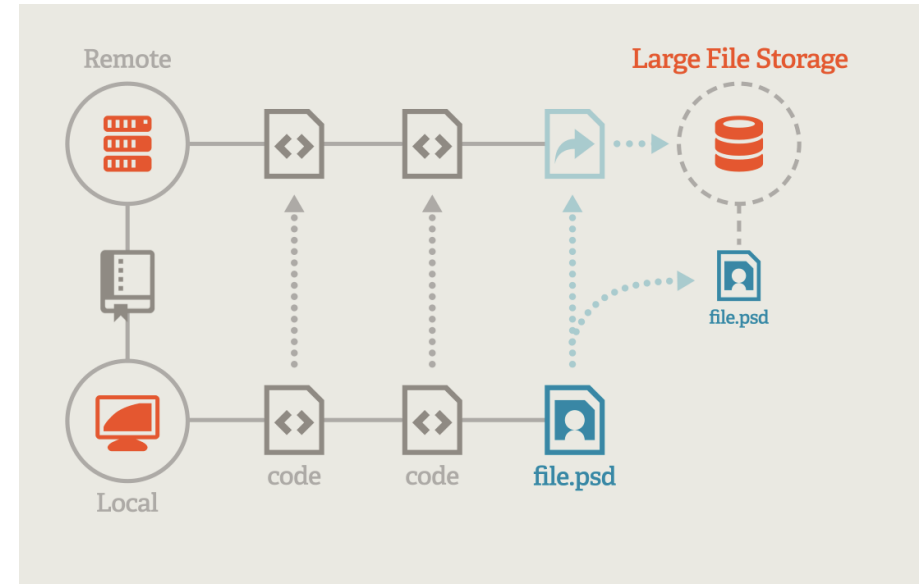
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# Cloud storage services

- Amazon S3
  - UI
- Google cloud storage
  - UI
- Dropbox
- Google drive
- Github
  - Not very useful as storage
  - Good for project management

# Git Large File Storage

- Replace file entities with pointers and manage them with git
- Used to manage binaries (e.g. image files)
- Supported by Github
  - Free up to 1GB
  - \$5/month for 50GB/month transfer + 50GB storage
  - [billing](#)
- Git LFS server can be set up on another cloud storage(e.g. Amazon S3, Google Cloud storage)



# Database systems

- RDB(Relational Database)
  - Database management system
    - [Mysql](#)
    - [PostgreSQL](#)
  - Operate with SQL
  - Supported by [ase.db](#)
- NoSQL
  - Key-value
    - [Redis](#)
    - [DynamoDB](#)
  - Document database(JSON,XML)
    - [MongoDB](#)
  - Graph database
    - [Neo4j](#)

# Web-interface

- <https://uedar.github.io/database-sample/>
- reference: [C2DB](#)

## Features to be implemented

- Search by specifying criteria
- Download json file
  - One by one from the detail page
  - Download in bulk from search results
- Visualize atomic structure