## AANY: S3-like Database

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## Objective

- Text and image files
- Compression
  - Huffman Coding (text, image)
  - Gunzip (generalizable)
  - Arithmetic Coding (image)
  - Run-length coding (image)
- Distributed System
- Data Structures
  - Hash map One key per file with metadata as value (including storage area)
  - Arrays
  - Huffman trees
- Time Complexity
  - Varying based on file type and content

## Pipeline

put pipeline:

filename -> file -> compression -> segmentation + metadata -> storage

get pipeline:

filename -> storage -> sequencing with metadata -> uncompress -> original file

## Distributed System