WIKIMEDIA
CH

Server Infrastructure of Wikimedia

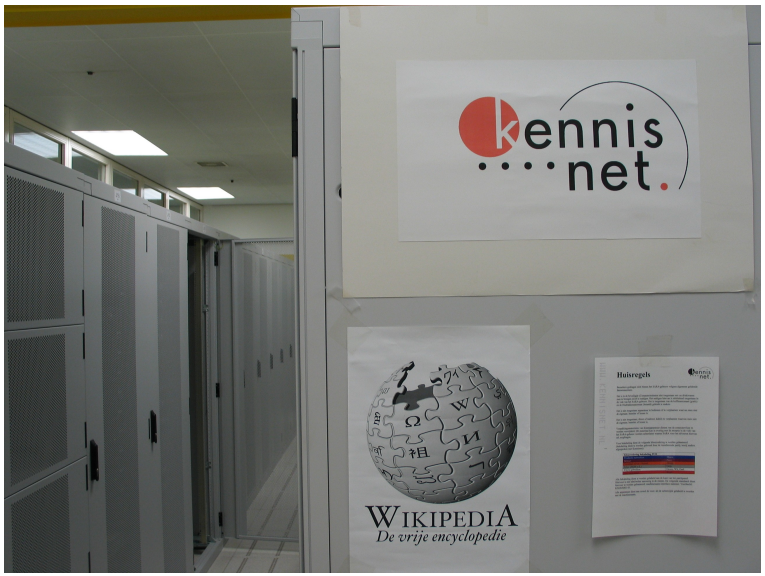
Wikipedia – Wikibooks – Wikinews – Wiktionary – Wikiquote – Wikisource – Wikimedia Commons – Wikiversity – ...

Wikimedia Server Locations

- **pmtpa** – Main Site
  285 servers
  Tampa, USA (Florida)
  hosted by Wikimedia Foundation

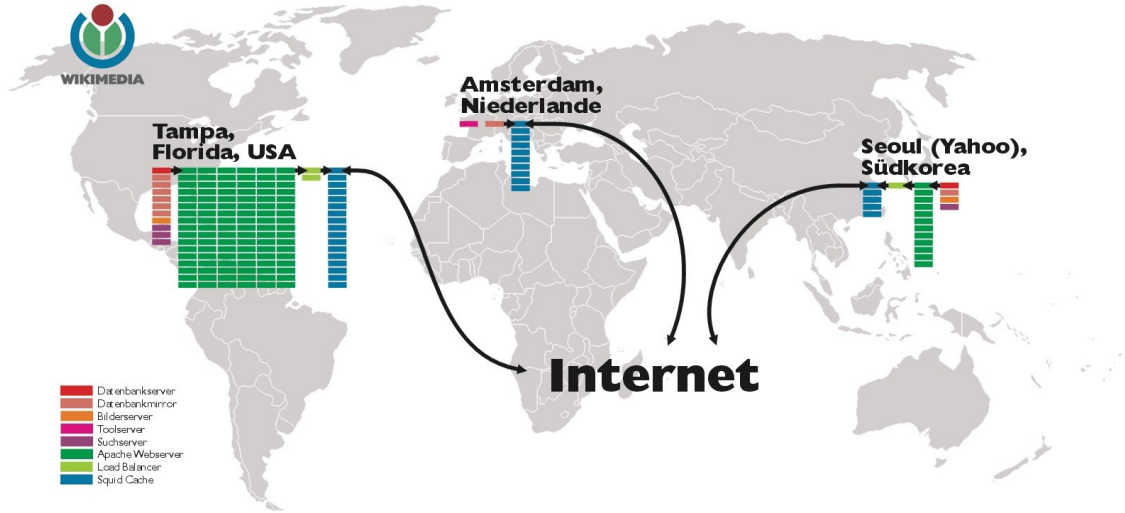
- **knams** – Europe Cluster
  28 servers
  Amsterdam, Netherlands
  hosted by kennisnet

- **yaseo** – Asian Cluster
  23 servers
  Seoul, Corea
  hosted by Yahoo



Maintenance

- 3 paid server technician
- 1 paid software developer
- several volunteers
- knams & yaseo sponsored hosting
  pmpta, servers, staff paid by donations



Server Infrastructure

- Apache as application server (pmtpa)
  LAMP

- MySQL clusters (pmtpa)
  3 master servers
  11 slaves
  data replication to toolserver cluster (knams)

- eAccelerator as PHP encoder / cache (pmtpa)

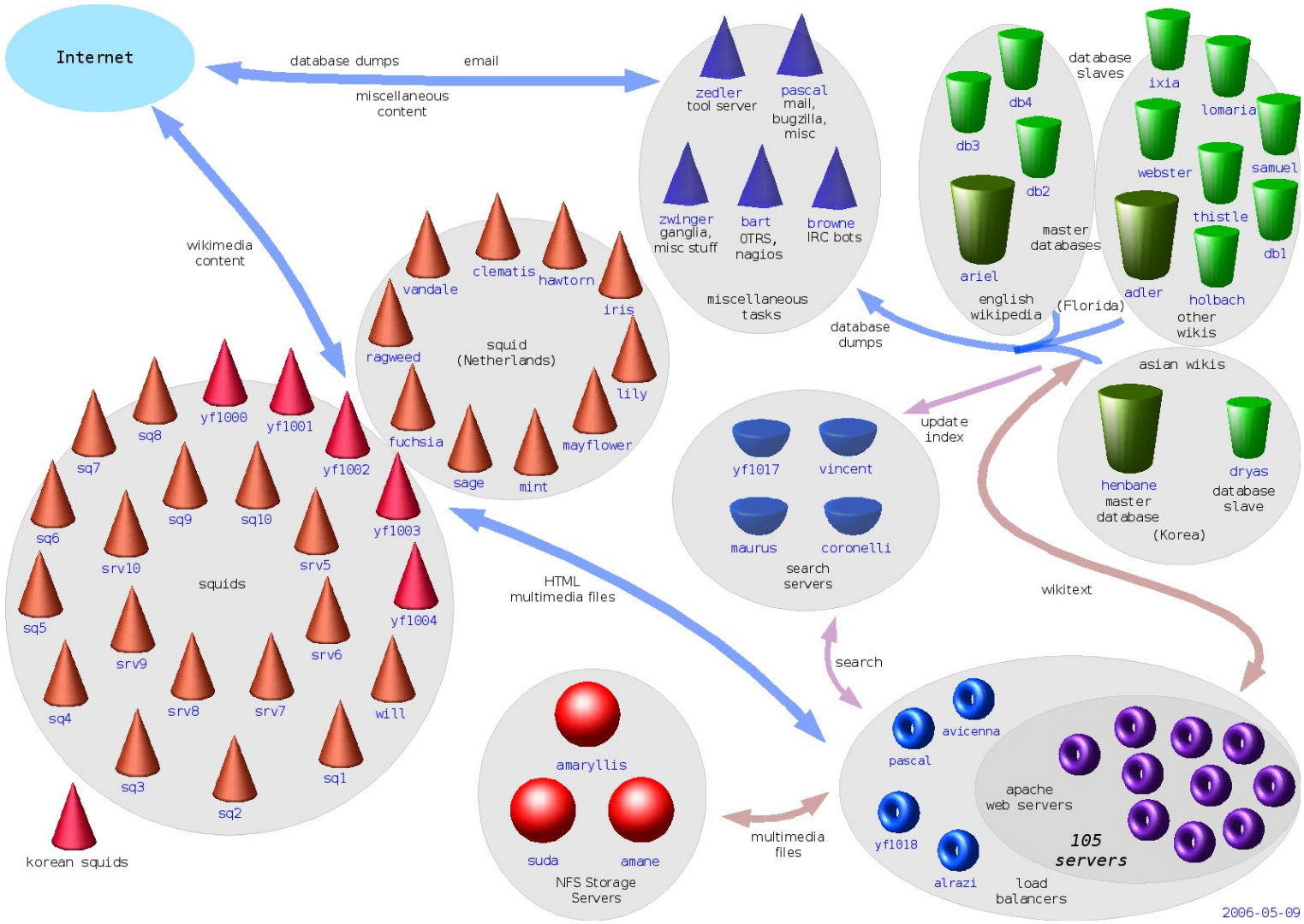
- memcache for session data (pmtpa)

- NFS storage for files (pmtpa)

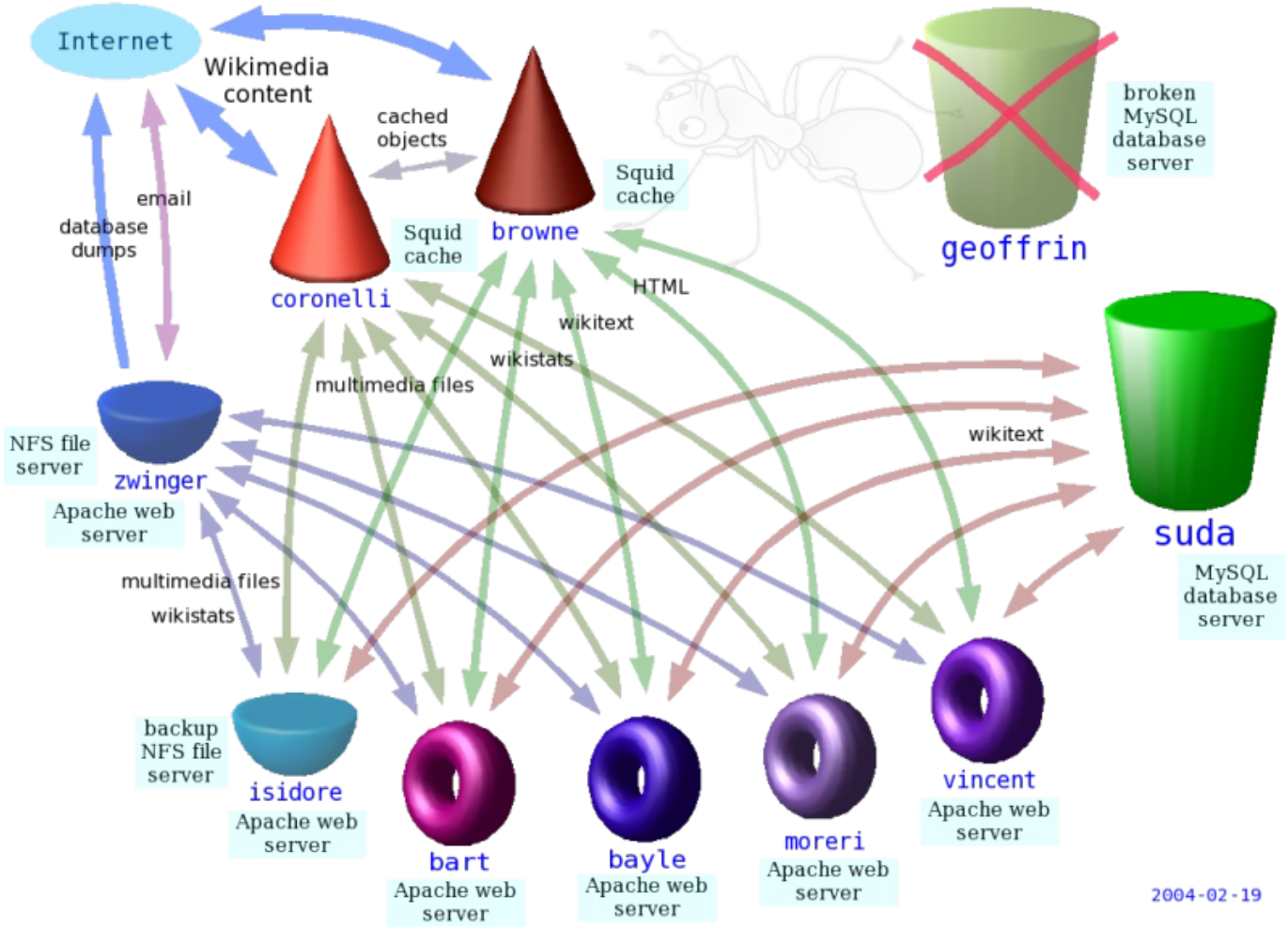
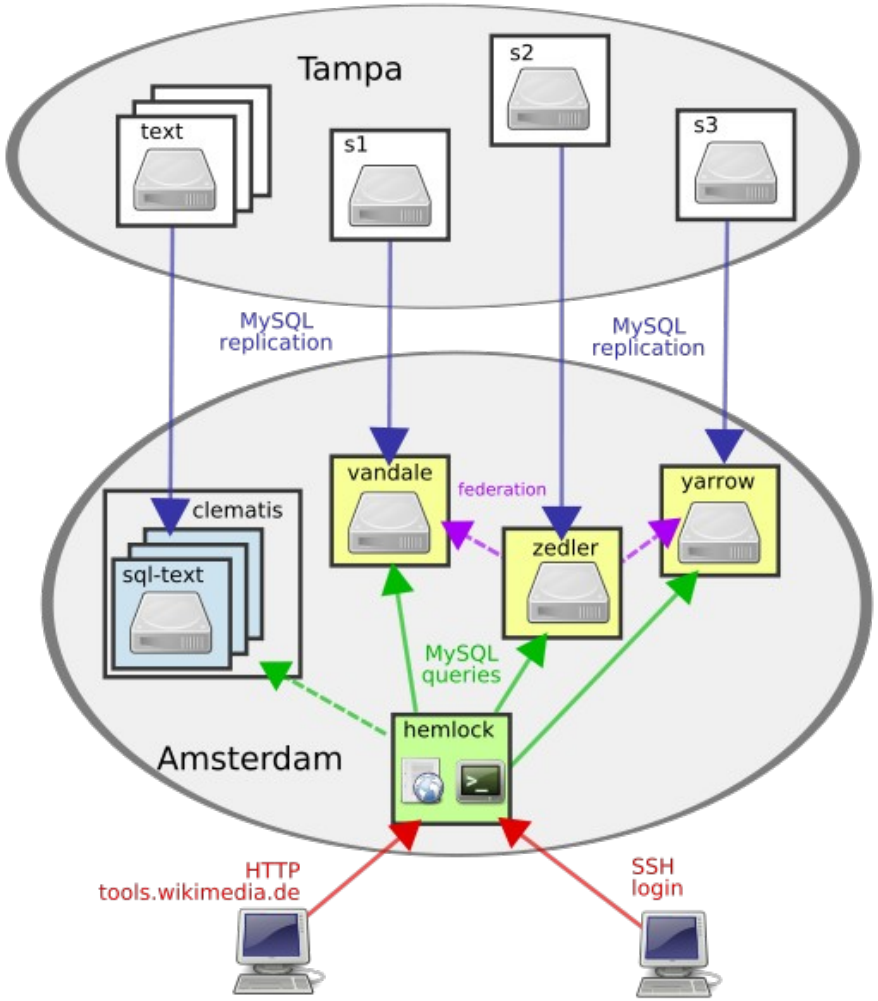
Server Infrastructure

- geographically distributed proxy servers
  reading access for anonymous users
  static content (worldwide)
- poor-man geographical DNS (worldwide)
- loadbalancer distribute HTTP request
  based on URL hash value (worldwide)
- cache purging using HTCP (worldwide)
  UDP multicast
  rewritten HTCP extension for squid

Overview 2006



Overview 2004



Overview Toolserver Cluster