Caching

- Performance optimization
- Keeping a copy of some data
  - Usually, closer to where the data is needed
  - Or, something that might be reused (don't recompute)
- Used *everywhere* in computer systems
  - Registers
  - Processor caches
  - File system buffer cache
  - DNS caching
  - memcached
  - Database page cache
  - Spark analytics framework
  - Web browser page/image cache
  - Phone email/SMS cache