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- Photos uploaded: ~120 M
- Haystack photos written: ~1.44 B
- Photos viewed: 80 100 B - Thumbnails: 10.2%
 - Small: 84.4%
 - Medium: 0.2%
 - Large: 5.2%
- Haystack photos read: 10 B

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Summary

- Two different types of workload for a social networking Web service
 - Posts: read/write
 - Photos: write-once, read-many
- · Photo workload
 - Zipf distribution
 - "Hot" photos can be handled by CDN
 - "Warm" photos have diminishing returns.
- Haystack: Facebook's 2nd generation photo storage
 - Goal: reducing disk I/O for warm photos
 - One large file with many photos - Metadata stored in memory

- Internal CDN

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