## Distributed Systems Design Goals: oals

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(First lecture slide)

- Heterogeneity can the system handle a large variety of types of PCs and devices?
- Robustness is the system resilient to host crashes and failures, and to the network dropping messages?
- Availability are data+services always there for clients?
- Transparency can the system hide its internal workings from the users?
- Concurrency can the server handle multiple clients simultaneously?
- Efficiency is the service fast enough? Does it utilize 100% of all resources?
- Scalability can it handle 100 million nodes without degrading service?
   (nodes=clients and/or servers) How about 6 B? More?
- Security can the system withstand hacker attacks?
- Openness is the system extensible?
- (Also: consistency, CAP, partition-tolerance, ACID, BASE, and others ...)