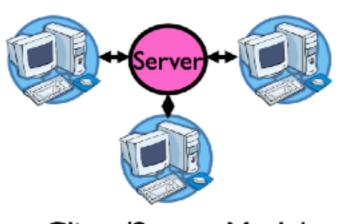
Forms & models of distributed systems?

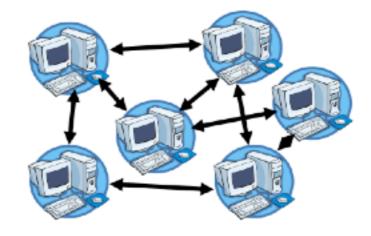
Degree of integration

- Loosely-coupled internet applications (e.g email, web, FTP, SSH)
- Mediumly-coupled remote execution (e.g RPC), remote file system (e.g NFS)
- Tightly-coupled distributed file systems (e.g. AFS)

major functions performed by a single physical computer



Client/Server Model



physically separate computers working together on some task

Cluster/Peer-to-Peer Model

Why distributed systems?

Why do we want distributed systems?

- Performance parallelism across multiple nodes
- Scalability by adding more nodes
- Reliability leverage redundancy to provide fault tolerance
- · Cost cheaper and easier to build lots of simple computers
- Control users can have complete control over some components
- Collaboration much easier for users to collaborate through network resources