

CSE 550: Systems for all

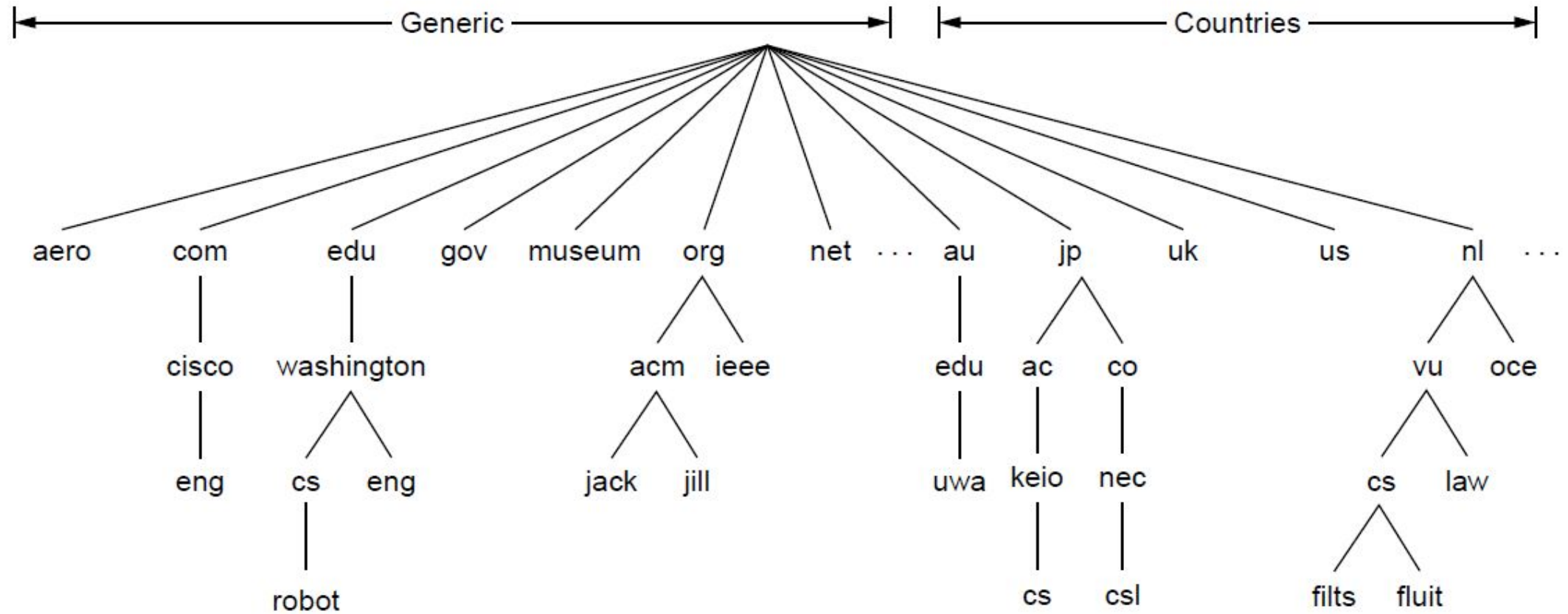
Au 2021

Ratul Mahajan

Data storage systems

	Unstructured data		Structured data (often “tables”)
	Hierarchical namespace	Flat namespace	
Single/few computers	File systems (e.g. LFS)		
Millions of computers	DNS		

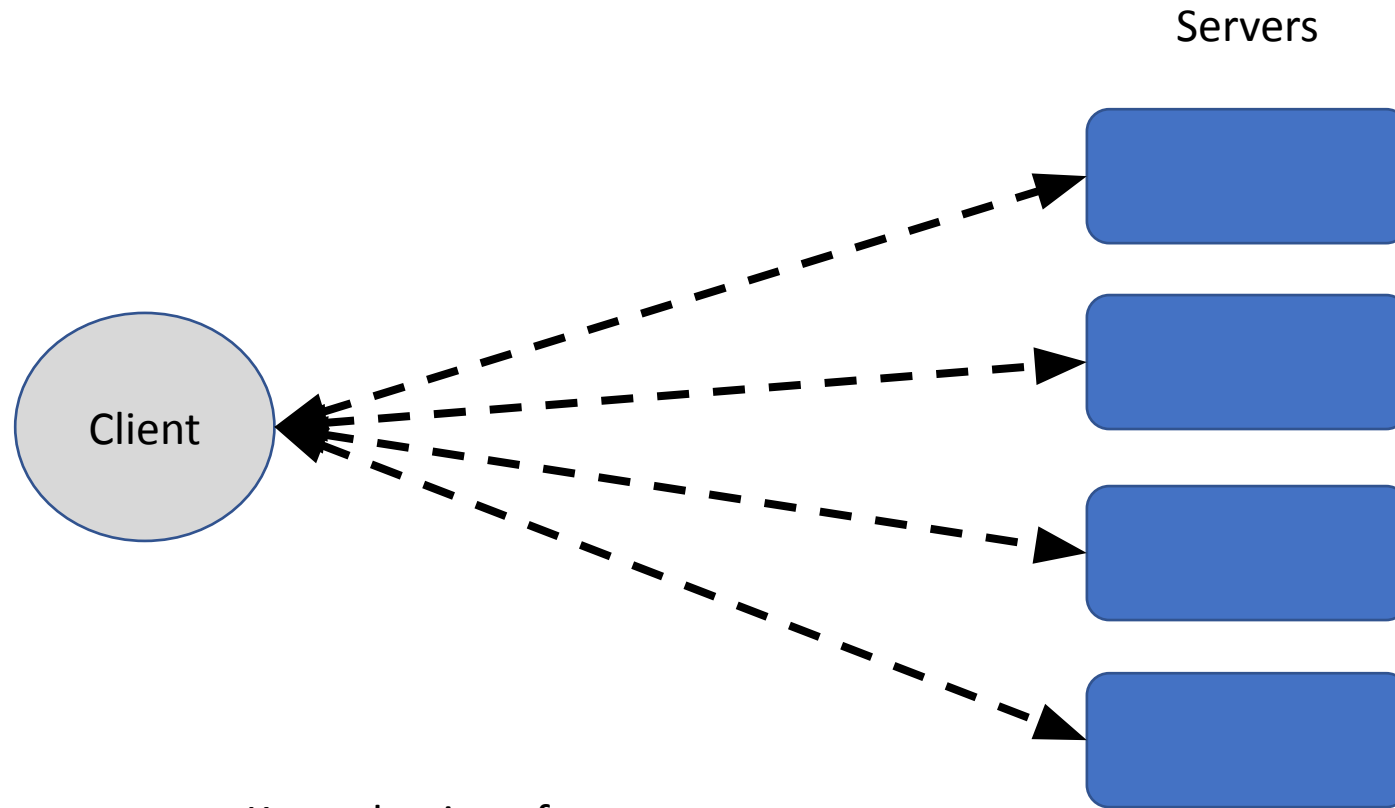
DNS



Data storage systems

	Unstructured data		Structured data (often “tables”)
	Hierarchical namespace	Flat namespace	
Single/few computers	File systems (e.g. LFS)	Memcached, Redis	
Millions of computers	DNS		

Memcached



Key-value interface
Clients know about ALL servers
Servers unaware of each other

Data storage systems

	Unstructured data		Structured data (often “tables”)
	Hierarchical namespace	Flat namespace	
Single/few computers	File systems (e.g. LFS)	Memcached, Redis	Distributed SQL
Millions of computers	DNS	DHT (e.g., Chord)	Bigtable, Spanner

Over to Weixin and Zihao

Course feedback

What is helping?

1. Paper reading
2. In-class discussions
 - Especially those with walk throughs
3. Background and context

What is hindering / should be improved?

1. Time pressure
 - Some papers are long/dense
 - Exacerbated by lack of background
2. More context around the readings
3. Better discussions
 - Ed should be conversational

Study group?

Yes = 56%

No = 33%

Neutral = 11%