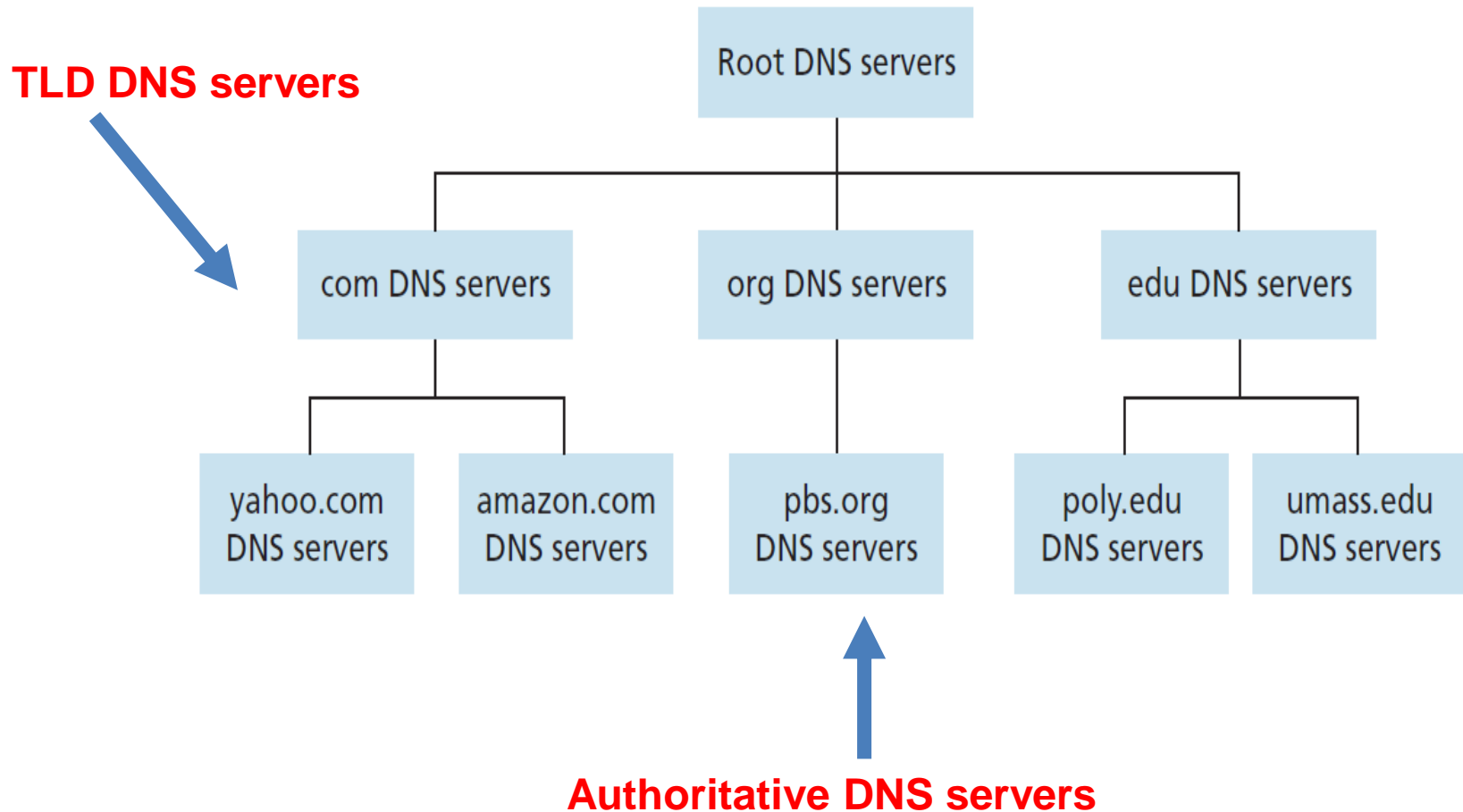


# DNS Basics

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Spring 2017

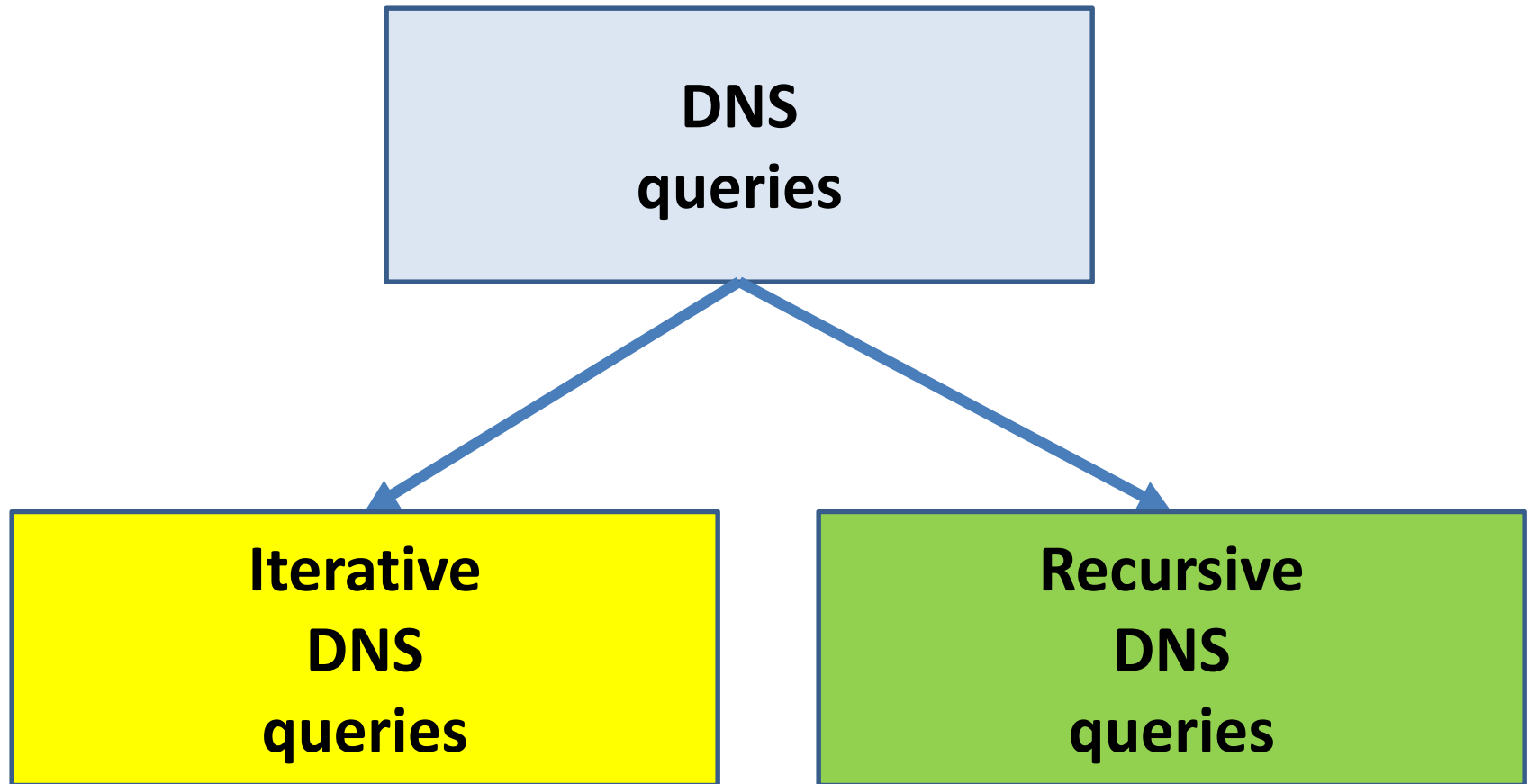
# Hierarchy of DNS



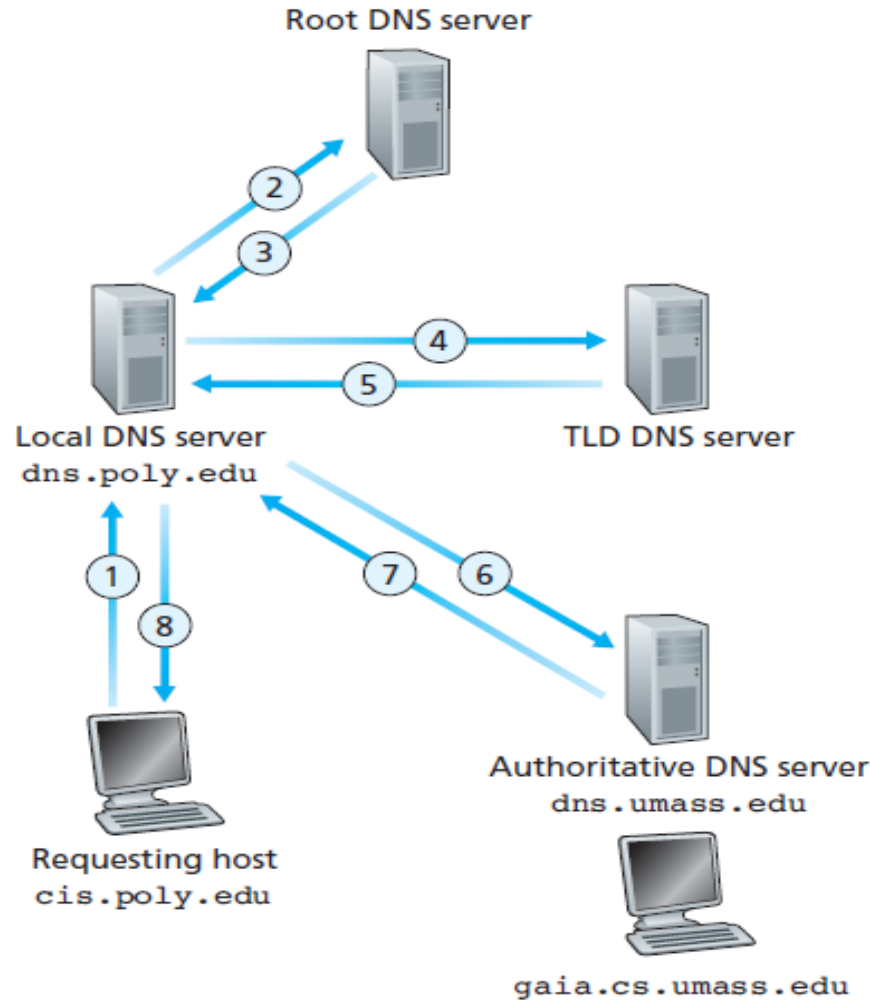
# DNS server types

- Root DNS servers
- Top-Level Domain DNS servers (TLD)
- Authoritative DNS servers
- Local DNS servers

# DNS queries

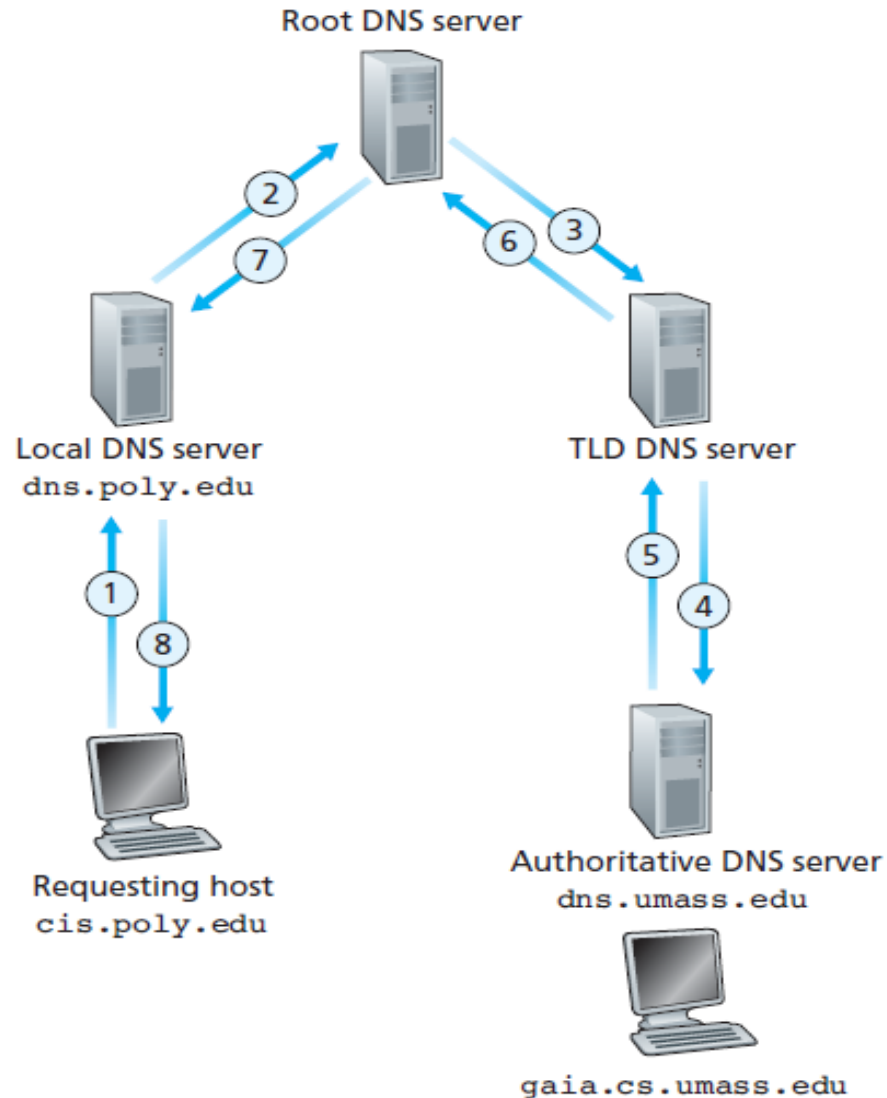


# DNS queries



**Iterative  
queries**

# DNS queries



**Recursive queries**

# Improve DNS performance

**Question: how improve DNS performance?**

**Answer: Use DNS caching**



**Reduce delay and number of DNS messages**