Domain Name System

Important DNS fields
- Query ID
- TTL, time to live
- query name
- query class (IN = Internet)
- query type (A, MX, etc.)
- answer
- authority (delegation)
- additional ("glue")

DNS query types
- A, address (IPv4)
- PTR, pointer or reverse lookup
- MX, mail exchanger
- NS, name server
- SOA, start of authority
- TXT, text record
- SRV, service record
- AAAA, address (IPv6)

DNS Tools
- nslookup
- host
- dig
- dnsq

DNS query process
- DNS query
- DNS reply
- delegation
- bridge from registration to DNS

Resolving
- primary DNS used for first query
- secondary DNS used if no answer from primary

Authoritative
- root servers
- us
- ac
- jp
- org
- com
- slashdot
- yahoo
- google