

HyperText Transfer Protocol (HTTP)

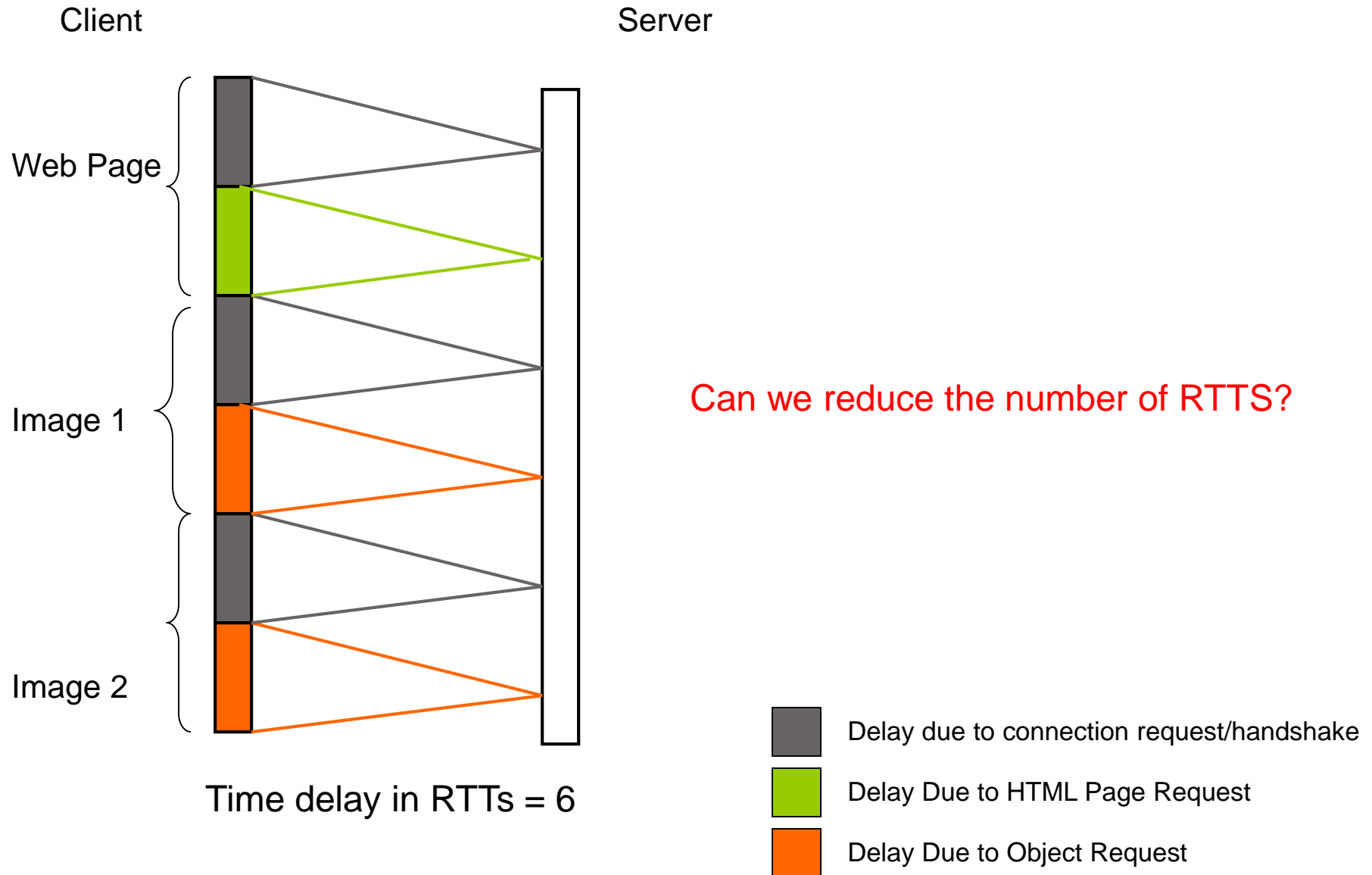
EE450: Computer Networks

Variations of HTTP

- Nonpersistent connections
 - with serial connections
 - with parallel connections
 - Persistent connections
 - without pipelining
 - with pipelining
- ❖ Example: an HTML page with 2 objects (images)

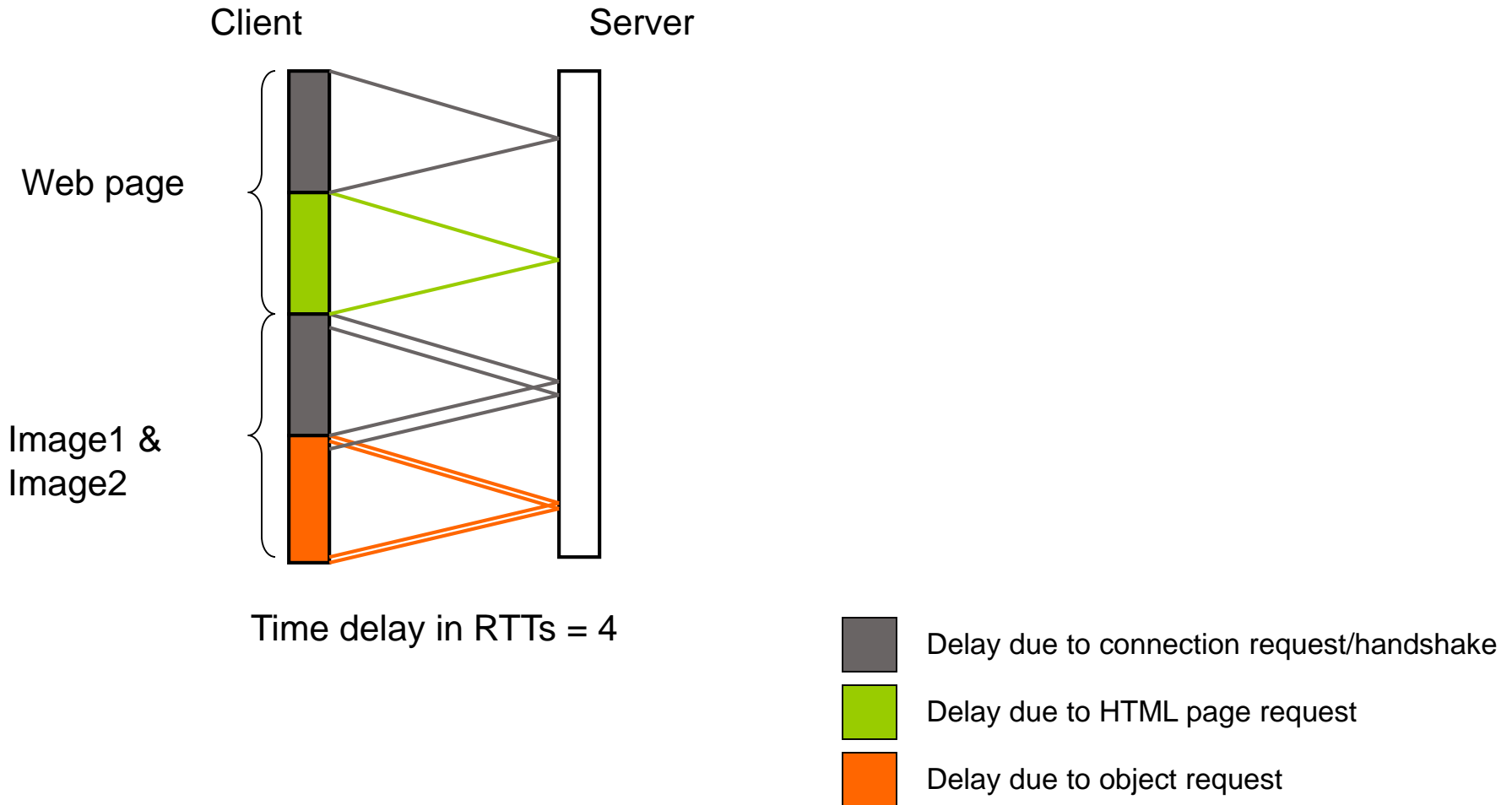
Nonpersistent (HTTP /1.0 default)

Rough calculation for number of RTTS



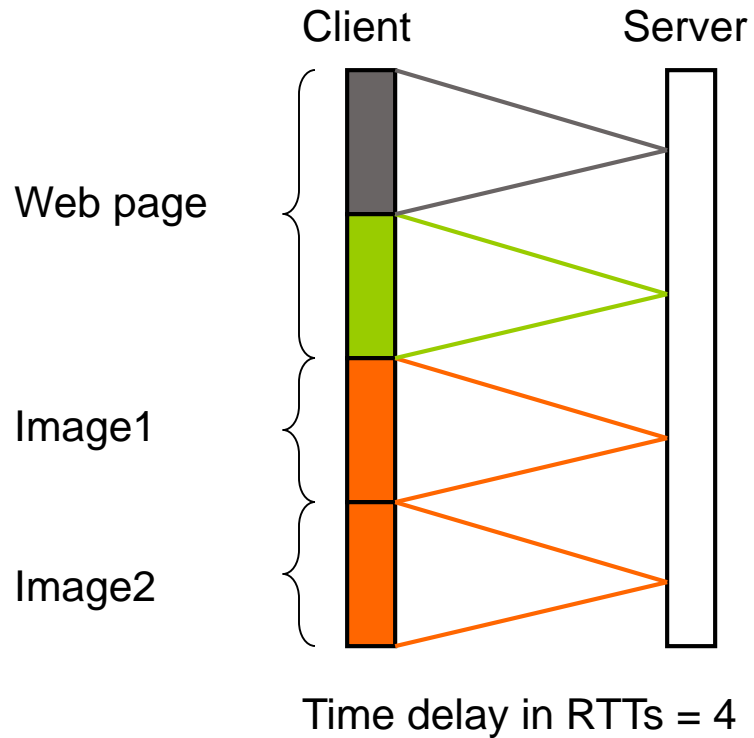
Nonpersistent with parallel connections

Rough calculation



Persistent without pipelining

Rough calculation



Delay due to connection request/handshake



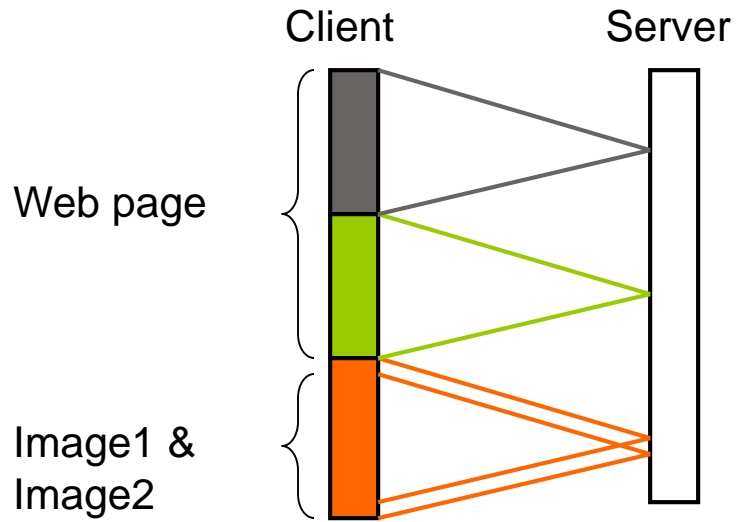
Delay due to HTML page request






Delay due to object request

Persistent with pipelining

Rough calculation



Time delay in RTTs = 3

-  Delay due to connection request/handshake
-  Delay due to HTML page request
-  Delay due to object request