

HTTP and TCP

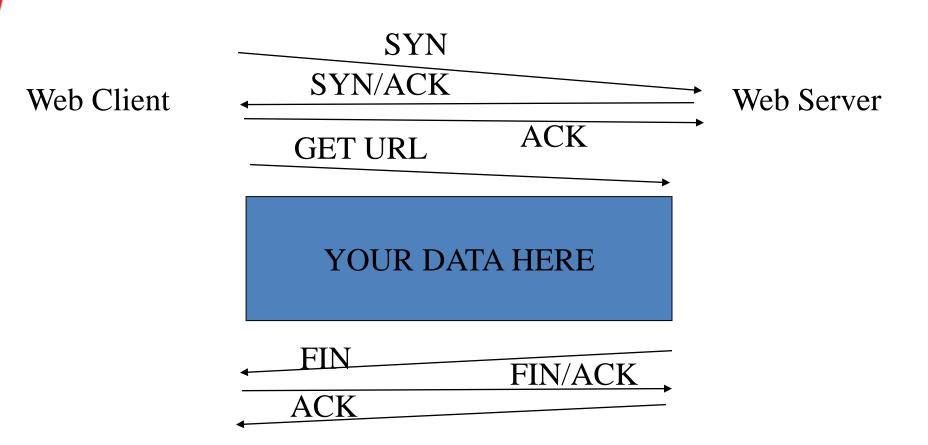
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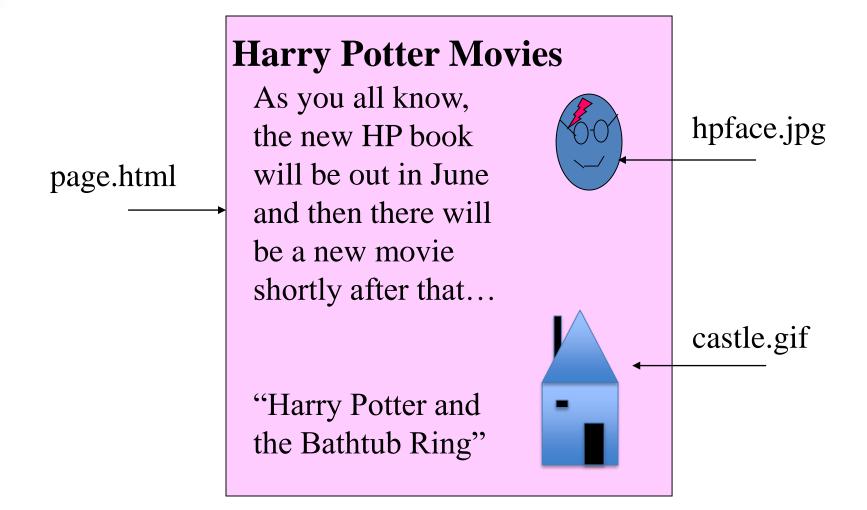


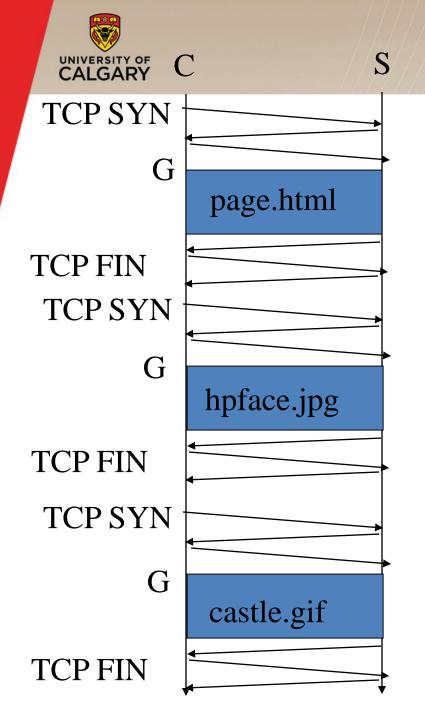
TCP is a connection-oriented protocol



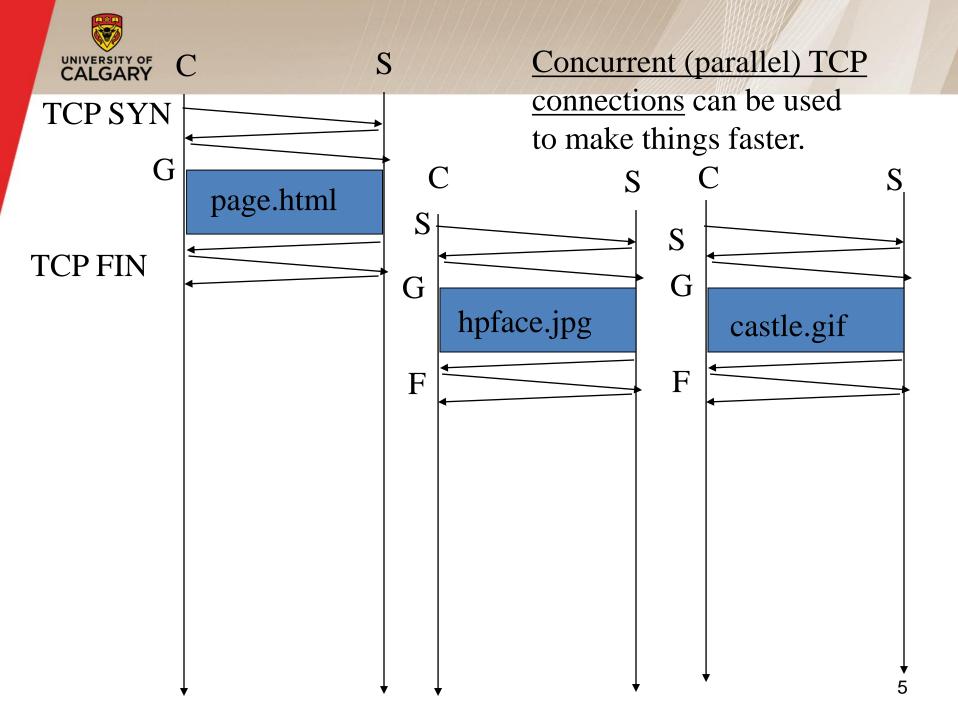


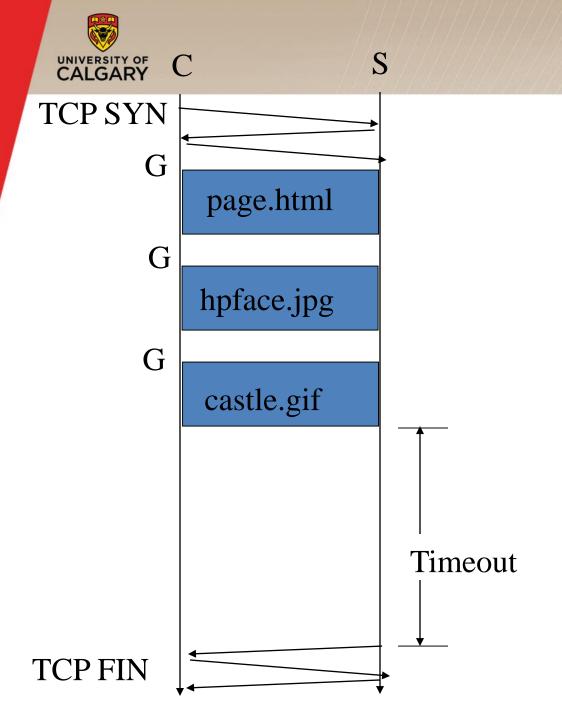




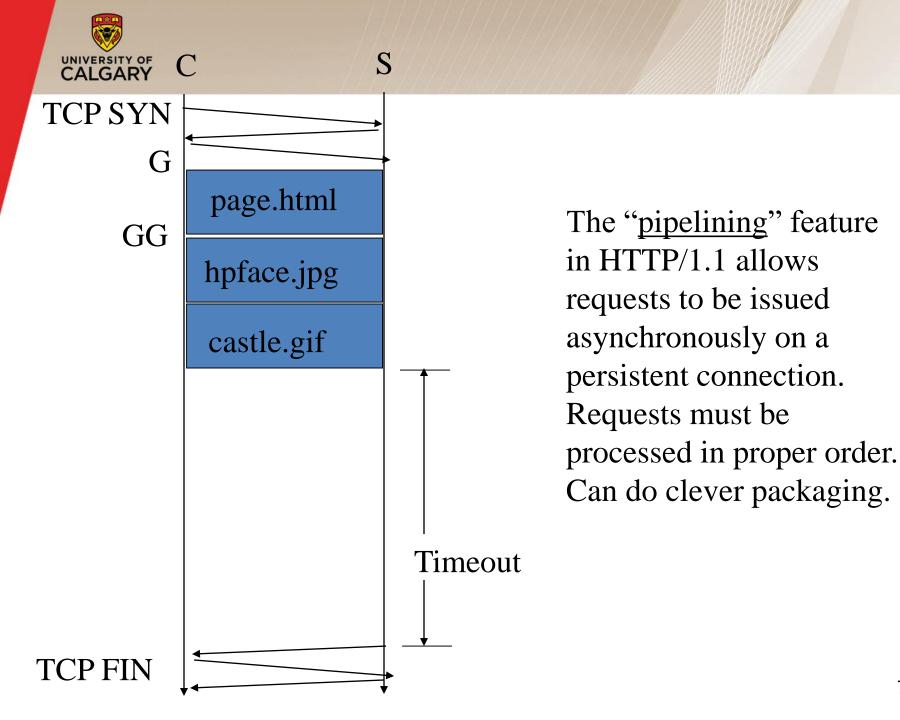


The "classic" approach in HTTP/1.0 is to use one HTTP request per TCP connection, serially.





The "persistent HTTP" approach can re-use the same TCP connection for Multiple HTTP transfers, one after another, serially. Amortizes TCP overhead, but maintains TCP state longer at server.







- The major application on the Internet
 - Majority of traffic is HTTP (or HTTP-related)
- Client/server model:
 - Clients make requests, servers respond to them
 - Done mostly in ASCII text (helps debugging!)
- Various headers and commands
 - Too many to go into detail here
 - Many web books/tutorials exist
 (e.g., Krishnamurthy & Rexford 2001)