Today

- HTTP Protocol Design and Description
- HTTP/1.1 (Changes/Improvements from 1.0)
- Course Schedule
- For next week
Course Schedule

- Wed 10/10: Caching (ch 11, 13.1, papers)
  - Revalidation/Invalidation (13.1+papers)
  - Replacement Algorithms (11.6+papers)
- Mon 10/15: Prefetching (13.2, 13.3, papers)
  - Prefetching
  - Volumes/Filters
- Mon 10/22: Protocol (ch 15, papers)
  - HTTP Deltas/Compression/Protocol Compliance
- Mon 10/29: Content Delivery Networks
  - Load Balancing/Redirection
Future

- Mon 11/5: Spiders/Search Engines
- Mon 11/12: Backbone tech. & topologies/Streaming
- Mon 11/19: P2P/Gaming
- Mon 11/26: Measurement & evaluation?
- Mon 12/3: ?
For Next Week

- Caching! Read Chapters 11, 13.1
- Read at least three caching papers linked online (tomorrow evening).
- Answer question: how can persistent connections reduce network congestion?
- Availability of Wed/Thu/Fri evening make-up class (send e-mail).
- As always,
  - Continue to post to class discussion group.
  - Bring something interesting to discuss, relating to Web performance.
Papers For Next Week

- **Surveys**
  - A Web Caching Primer (Davison, 2001)
  - A Survey of Web Caching Schemes for the Internet (Wang, 1999)
  - Squeezing More Bits Out of HTTP Caches (Mogul, 2000)

- **Validation/Invalidation (Consistency)**
  - WCIP & ESI papers
  - A Novel Approach to Managing Consistency in Content Distribution Networks (Fei, 2001)

- **Replacement Algorithms**
  - Cost-aware WWW proxy caching algorithms (Cao&Irani, 1997)