1 Goals

Review from CS3171
- HTTP transaction
- HTTP error codes
- HTTP cookies
- basic state definition

Introduce
- detail of statefullness
- CGI in depth
- cost vs. accessibility tradeoff
- communication in, and above, the application layer between client and server
- session

2 Major Topics

State
- What is it
- How is it
- Methods to maintain

Subtle ways to maintain state
- forms
- session password
- URL rewriting

Overt state maintenance
- cookies
- servlet

Redirection as a key enabling technology for Web programming

Basic CGI
- 2-way traffic

Basic SSI, JSP, ASP, etc.
- power of server-side programming
- syntax for macro-based replacement and if-processing

Servlets as multi-modal state maintainers
- encapsulation

3 Related Readings

- Examples at website
- Apache documentation
- HTTP: The Definitive Guide (esp. Ch. 1, 3, 4, 5, 11, 12, 17, 20, B, C)