

# Topic Overview: Server-Side Programming but not DBI

Computer Science 3172

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## 1 Goals

### Review from CS3171

- HTTP transaction
- HTTP error codes
- HTTP cookies
- basic state definition

### Introduce

- detail of statefulness
- 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)