# Topic Overview: Server-Side Programming but not DBI

## Computer Science 4173

## 25 March 2005 (1a)

## 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)