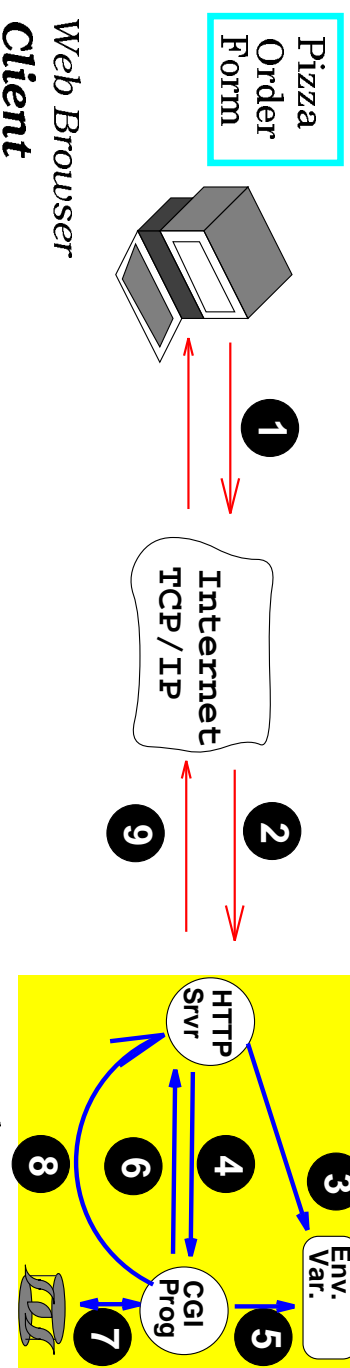


Web Client/Server

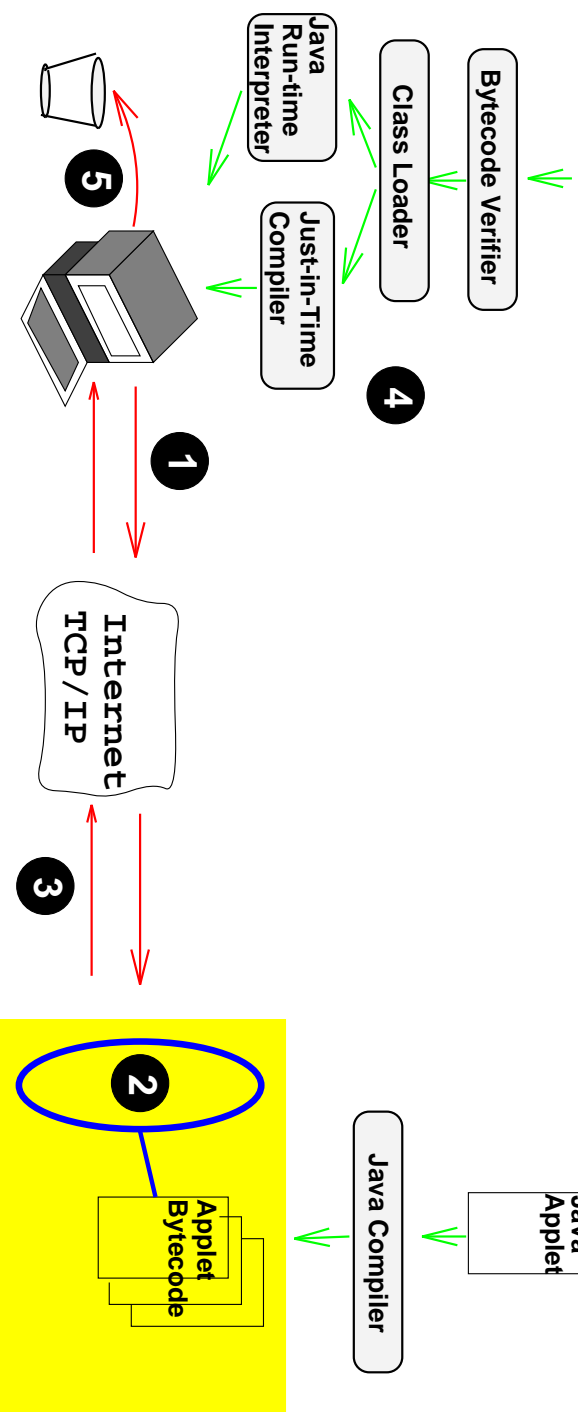
Forms, database updates, (primitive) electronic commerce



- 1 You click on the form's "submit" button
- 1 The Web browser collects the data within the form, assembles it into a string of name/value pairs, specifies a POST method, the URL of the target program in the "cgi-bin" directory
- 2 The HTTP server receives the method invocation via a socket connection
- 3 The server parses the message to discover that it's a POST for the "cgi-bin" program
-> start a CGI interaction:
- 4 The HTTP server sets up the environment variable (e.g., content_length), in a blackboard
- 5 The CGI program reads the environment variables
- 6 The CGI program receives the message body via the input pipe
- 7 The CGI program does some work, typically by interacting with a DBMS, TP Monitor
- 8 The CGI program returns the results via the output pipe
- 9 The HTTP server returns the results to the Web browser

Web Client/Server

■ Fat Clients?



- 1 A Web browser requests a Java applet
- 2 The Browser initiates a separate TCP/IP session to download each applet within a Web page
- 3 The server retrieves the requested applet
- 3 The server sends the applet
- 4 The browser loads the applet into the client's memory and executes it
A poor man's compound document architecture
- 5 The applet's region does NOT visually integrate with the rest of the page
- 5 The browser deletes the applet from memory when it exits the Web page