

互联网常用协议

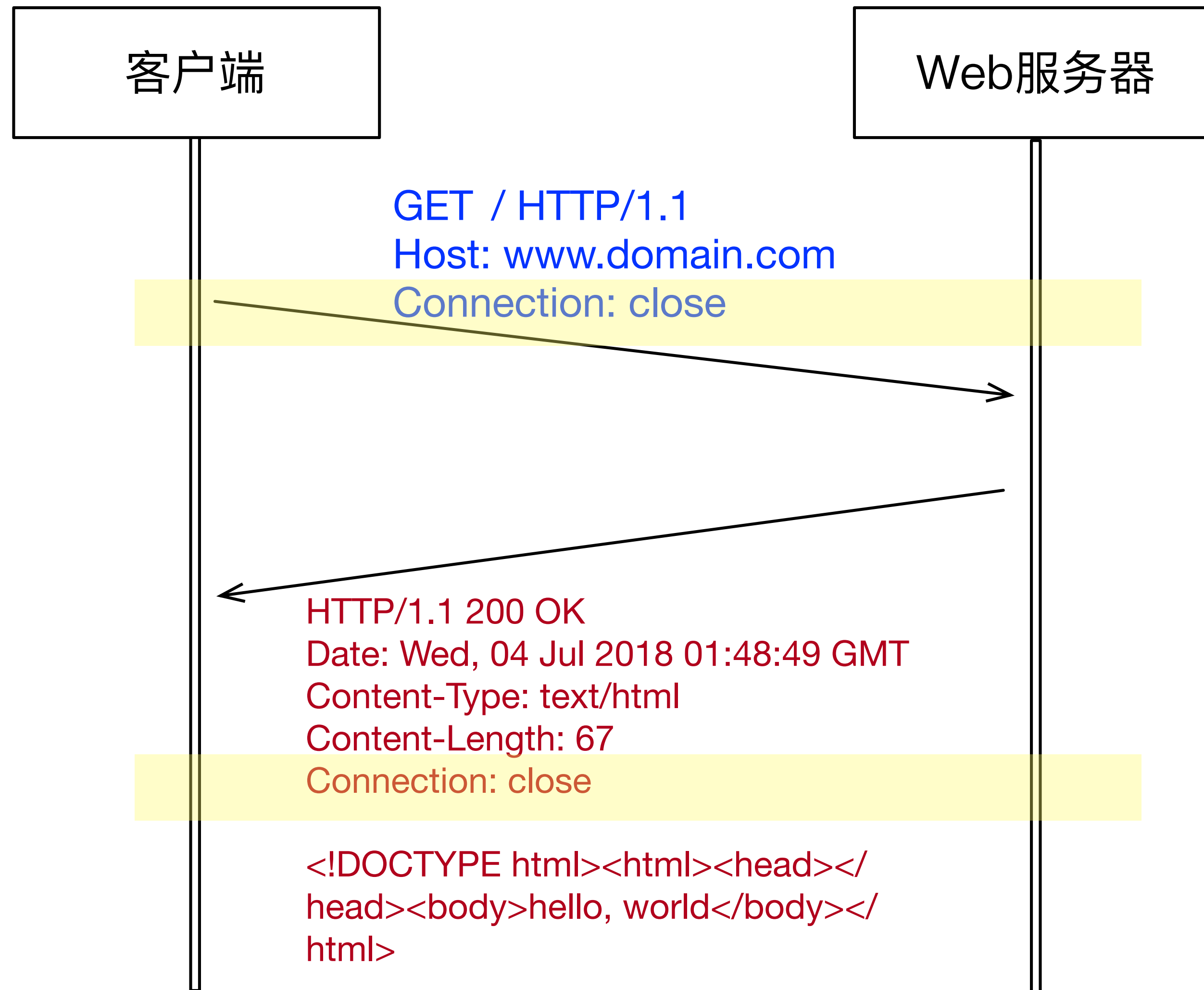
HTTP

HTTP版本

- HTTP 0.9
- HTTP 1.0
- HTTP 1.1
- HTTP 2.0



HTTP通讯



HttpServer例子

```
ServerSocket serverSocket = new ServerSocket(8090);
while (true) {
    Socket client = serverSocket.accept();
    BufferedReader in = new BufferedReader(new InputStreamReader(client.getInputStream()));
    PrintWriter out = new PrintWriter(new BufferedWriter(
        new OutputStreamWriter(client.getOutputStream())), true);

    String action = in.readLine();
    StringBuffer clientHeaders = new StringBuffer();
    for (String s = in.readLine(); s != null && s.length() > 0; s = in.readLine()) {
        clientHeaders.append(s).append("\r\n");
    }
    if (action.startsWith("GET ")) {
        String html = "<!DOCTYPE html>\r\n" + "<html><head><title>hello,world</title><body><h1>Hello, World!</h1></body></html>";
        ① out.print("HTTP/1.1 200 OK\r\n");
        ② out.print("Context-Type: text/html\r\n");
        ③ out.print("Content-Length:" + html.length() + "\r\n");
        ④ out.print("Connection:close\r\n");
        ⑤ out.print("\r\n");
        ⑥ out.print(html);
    }
    out.close();
    in.close();
    client.close();
}
```

HttpClient例子

```
Socket socket = new Socket("www.baidu.com", 80);
OutputStream output = socket.getOutputStream();
PrintWriter writer = new PrintWriter(output, true);
① writer.print("GET / HTTP/1.1\r\n");
② writer.print("Host: www.baidu.com\r\n");
③ writer.print("User-Agent: MSIE\r\n");
④ writer.print("Connection: close\r\n");
⑤ writer.print("\r\n");
InputStream input = socket.getInputStream();
BufferedReader reader = new BufferedReader(new InputStreamReader(input));
String line;
while ((line = reader.readLine()) != null) {
    System.out.println(line);
}
reader.close();
input.close();
output.close();
writer.close();
socket.close();
```

Server中获得的哪些信息是绝对可信的?

- IP `request.getRemoteAddr()`
- Header `cookie, user-agent, ...`
- Body `POST传递过来的数据`
- URL `query string`