Distributed Systems Project

Polytech/INFO 4, 2022-2023
Fabienne Boyer, Olivier Gruber,
UFR IM2AG, LIG, Université Grenoble Alpes
Fabienne.Boyer@imag.fr

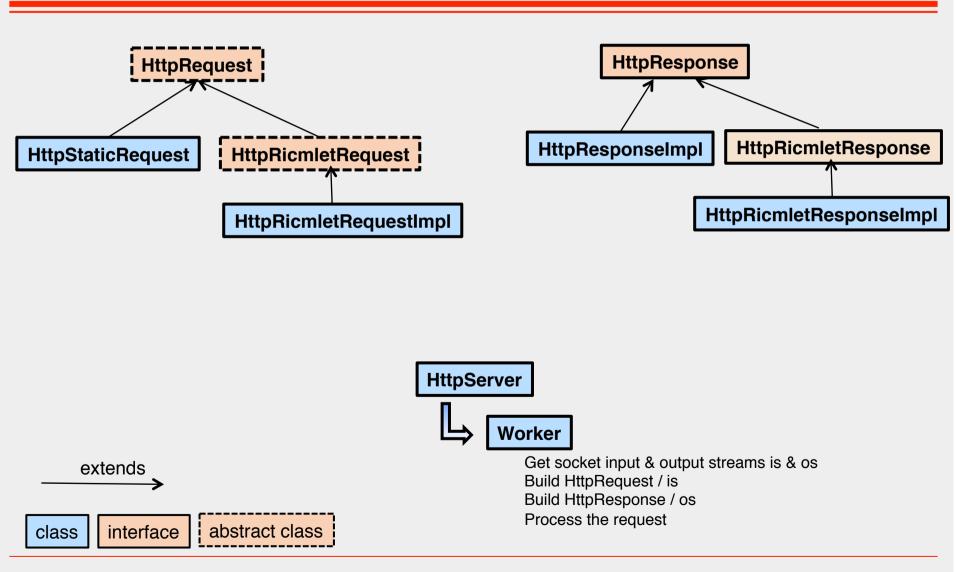




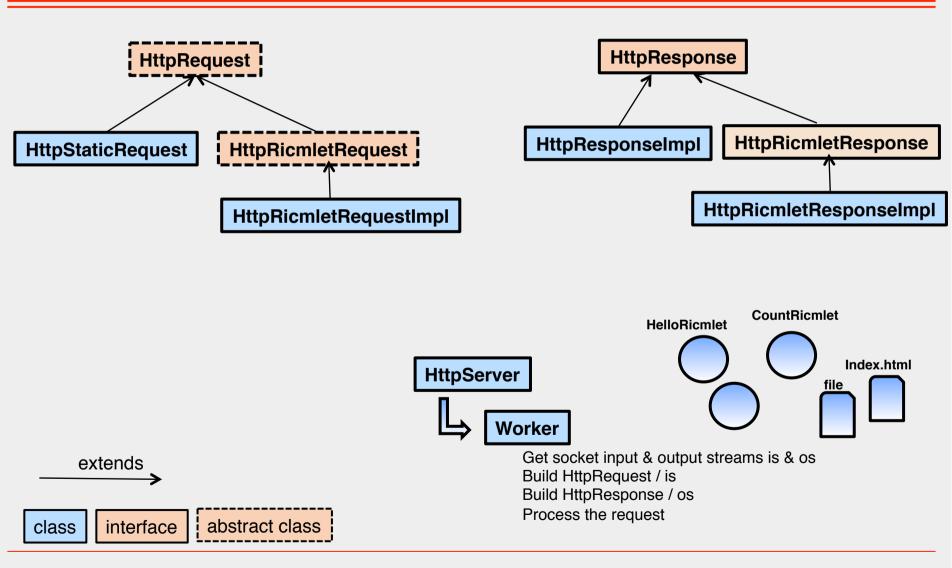
Designing & programming your own HTTP Server

- Binôme
- 2 sessions with teachers + on your own
- Soutenances on 05/04/23

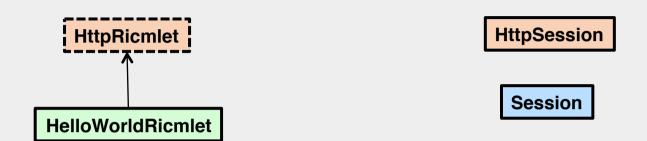
Server Classes



Server Classes



Applicative Classes (used by the Web programmer)



public class HelloRicmlet implements httpserver.itf.HttpRicmlet{

```
public void doGet(HttpRicmletRequest req, HttpRicmletResponse resp) throws IOException {
    resp.setReplyOk();
    resp.setContentType("text/html");
    PrintStream ps = resp.beginBody();
    ps.println("<HTML><HEAD><TITLE>···
    ...
}
```

class

applicative class

abstract class

interface

Designing & programming your own HTTP Server

- Remote communication on top of TCP/IP
- Access to remote resources
 - Files
 - Code (execution of ricmlets)
- Manage session data
 - Cookies
 - Session
- Manage applications
 - Class loading aspects
 - Classically, a class loader is created for each web application that is deployed in a single HTTP server instance
 - Lecture on this aspect next Friday