

INF 557

TD01 Xurl and State Machine

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Goal

- Build your own (simplified) web browser
 - Understand the URL
 - Parse an URL
 - Generate an HTTP request
 - Parse an HTTP response

URL (Uniform Resource Locator)

- polytechnique.edu
- www.polytechnique.edu
- <http://www.polytechnique.edu>
- <https://www.polytechnique.edu>
- <https://www.polytechnique.edu:443>
- <http://www.polytechnique.edu:80>
- <http://www.polytechnique.edu:80/>

URL (Uniform Resource Locator)

- polytechnique.edu
 - www.polytechnique.edu
 - http://www.polytechnique.edu
 - https://www.polytechnique.edu
 - https://www.polytechnique.edu:443
 - http://www.polytechnique.edu:80
 - http://www.polytechnique.edu:80/
- protocol?
host?
port?
path?

<http://www.polytechnique.edu:80/fr/a-propos-ecole>

http://www.polytechnique.edu:80/fr/a-propos-ecole



protocol



host



port



path

http://www.polytechnique.edu:80/fr/a-propos-ecole



protocol



host



port



path

String.split()
regex

HTTP request/response

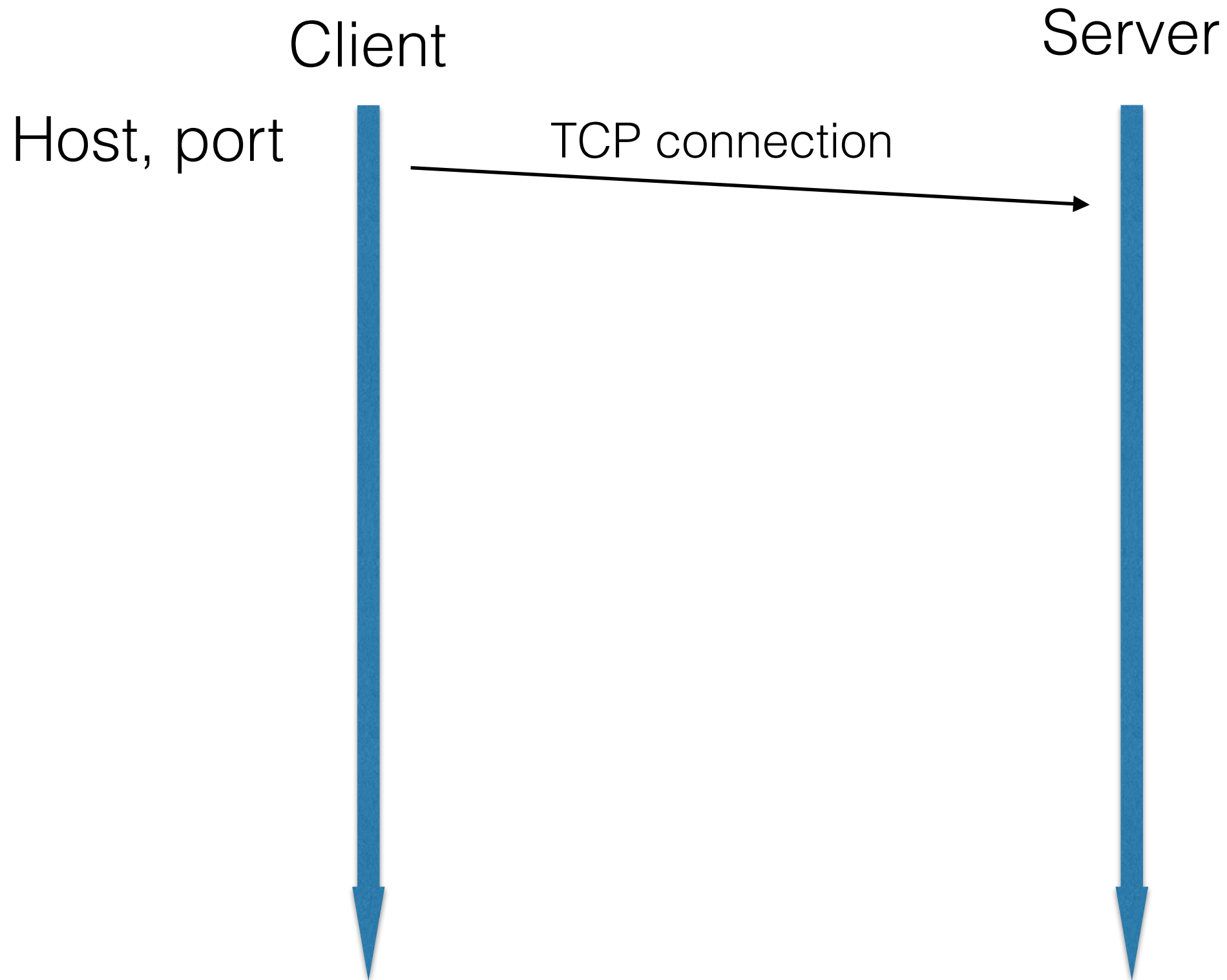
Client



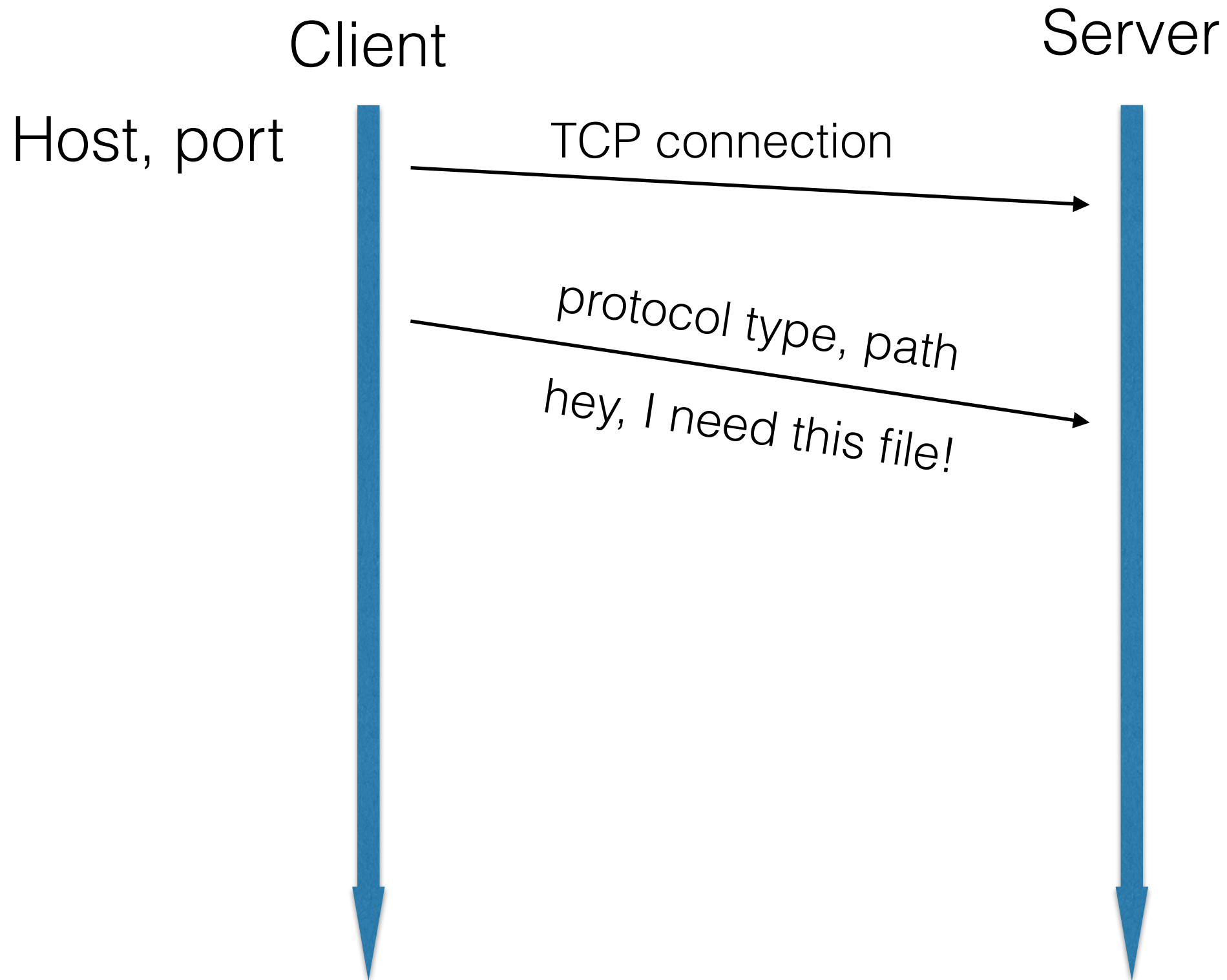
Server



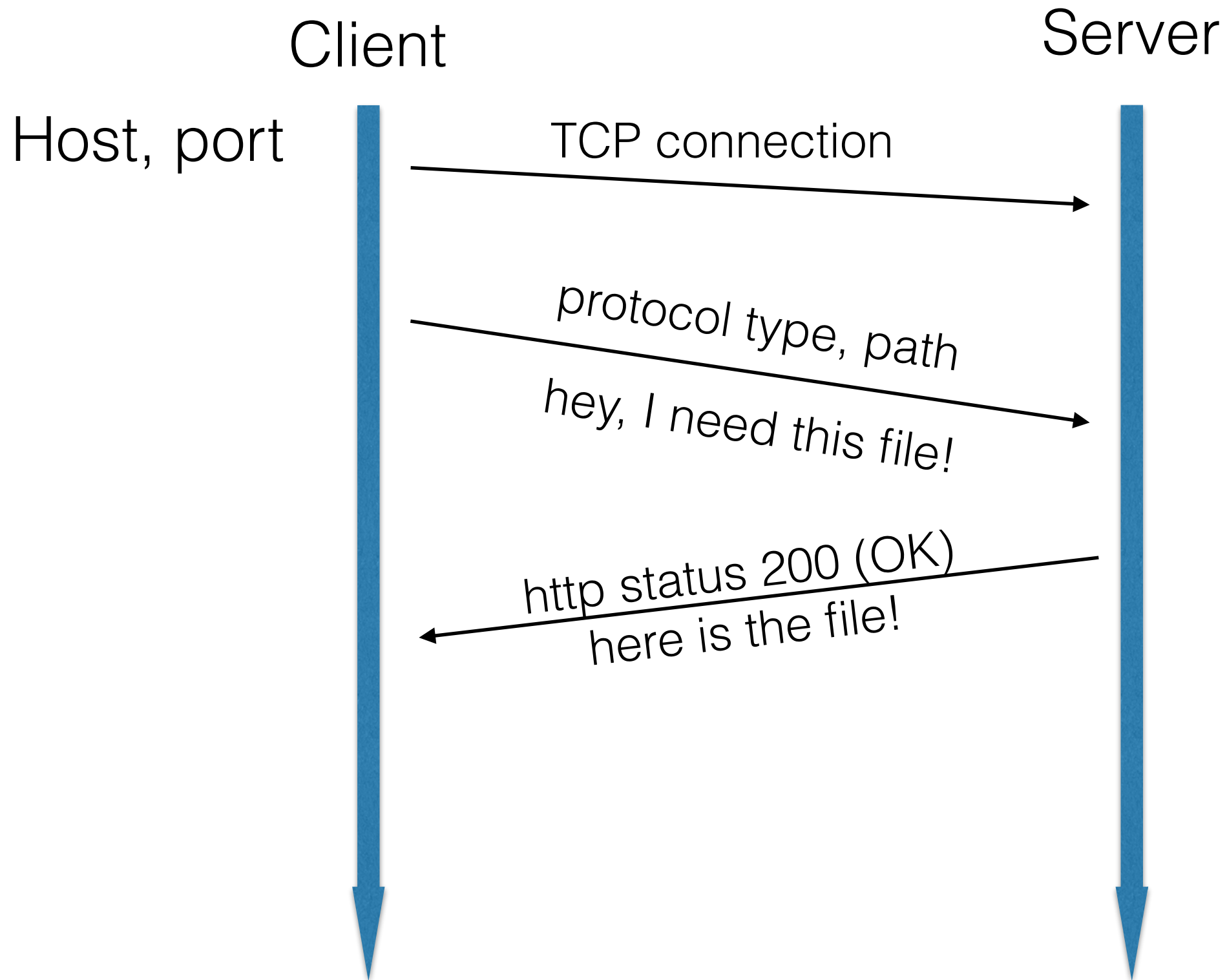
HTTP request/response



HTTP request/response



HTTP request/response



HTTP request/response

