



RESTful API

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Outline

- Request & Response
- Resources
- REST

Request & Response



Browser



Server



Request & Response

- Detail?
- Browser: Tell me the price of *C++ Primer*.
- Server: Okay, *C++ Primer* is worth \$60.
- Browser: Tell me the price of *C++ Primer*.
- Server: Okay, *C++ Primer* is worth \$60.
- The *GET* way

Request & Response

- Browser: Tell me the price of C++ *Primer*.
`GET /books/cpp_primer`
- Server: Okay, C++ *Primer* is worth \$60.
`200 OK`
- Browser: Tell me the price of C++ *Primer*.
`GET /books/cpp_primer`
- Server: Okay, C++ *Primer* is worth \$60.
`200 OK`
- The *GET* way



Request & Response

- Browser: I want to pay Order 8888.
- Server: Okay, Order 8888 has been paid.

- Browser: I want to pay Order 8888.
- Server: Wait, you have paid this order before. You needn't pay twice for it.

- The POST way

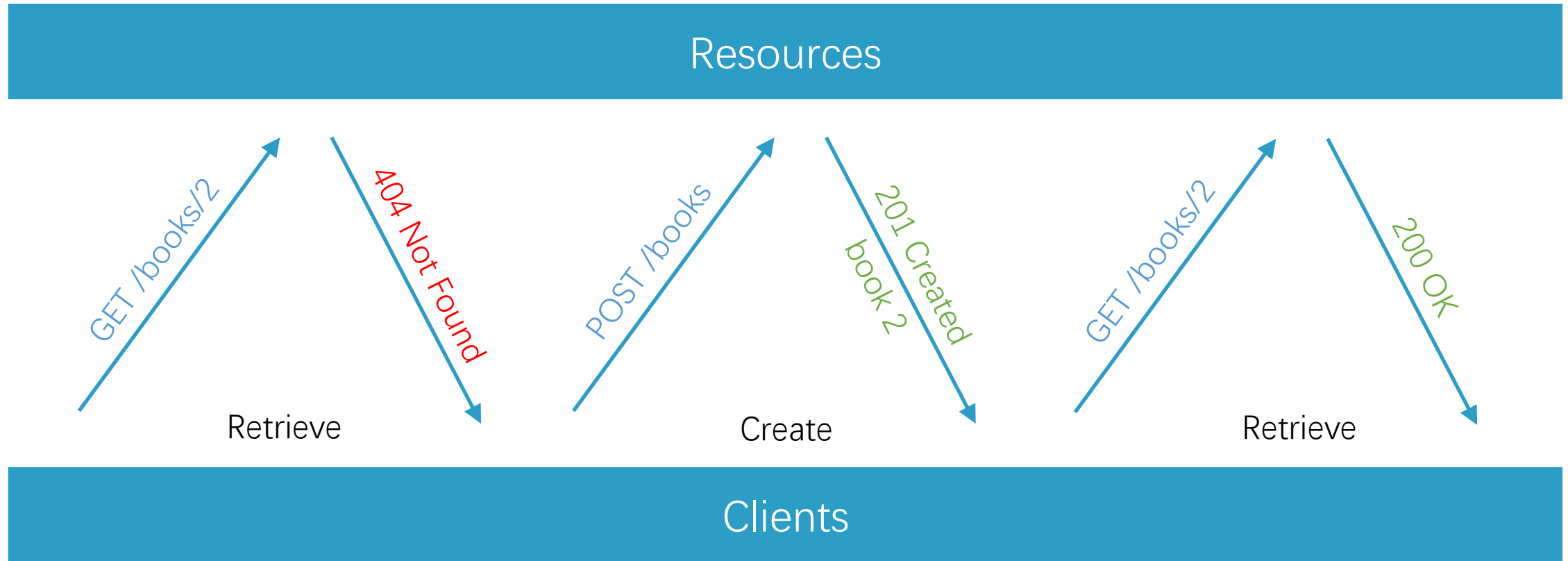
Request & Response

- Browser: I want to pay Order 8888.
`POST /orders/8888/payment`
- Server: Okay, Order 8888 has been paid.
`201 Created`

- Browser: I want to pay Order 8888.
`POST /orders/8888/payment`
- Server: Wait, you have paid this order before. You needn't pay twice for it.
`409 Conflict`

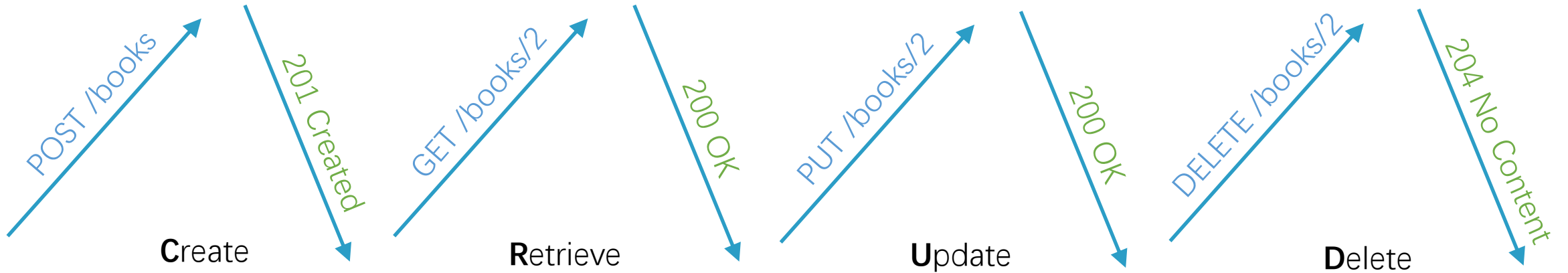
- The POST way

Resources



Resources

Resources



Clients



REST

- Representational State Transfer
- Resource-based guideline

- RESTful API

- URI: Resource
- Method: Verb
- Status Code: Result (Transferred State)

`/users/1`

`GET`

`200 OK`



Further Reading

- 理解 RESTful 架构
 - <http://www.ruanyifeng.com/blog/2011/09/restful.html>
- Learn REST: A RESTful Tutorial
 - <http://www.restapitutorial.com/>
- HTTP: The Protocol Every Web Developer Must Know
 - <https://code.tutsplus.com/tutorials/http-the-protocol-every-web-developer-must-know-part-1--net-31177>
 - <http://code.tutsplus.com/tutorials/http-the-protocol-every-web-developer-must-know-part-2--net-31155>

THANK YOU