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Hyper Text Transfer Protocol

How clients/servers talk to each other





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Objectives

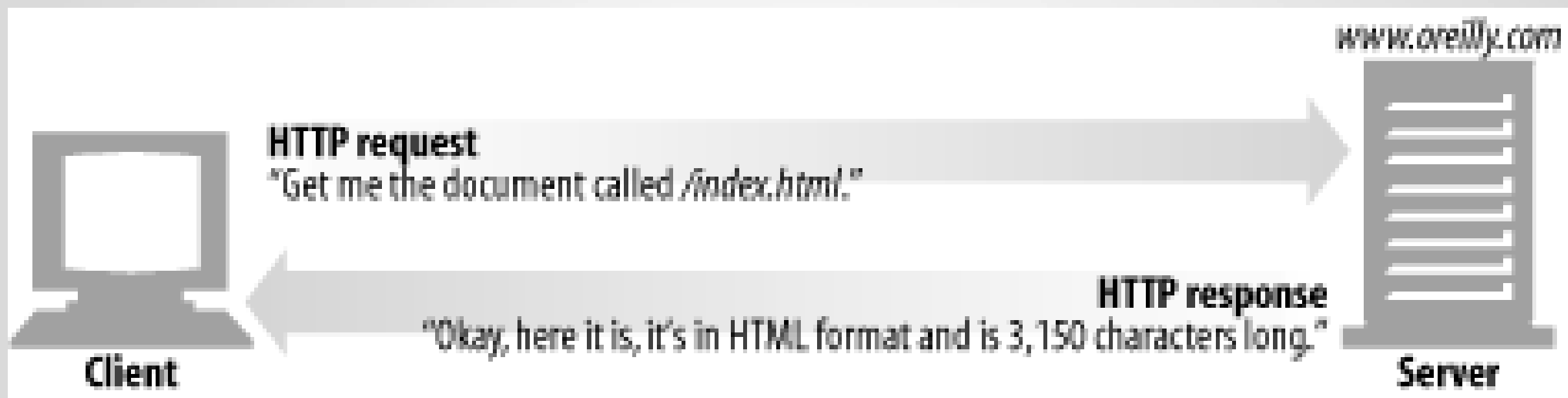
- To know how web clients and servers communicate
- To know where resources (web content) come from
- Knowing how web transactions work “under the hood”
- To know the format of the messages used for HTTP communication





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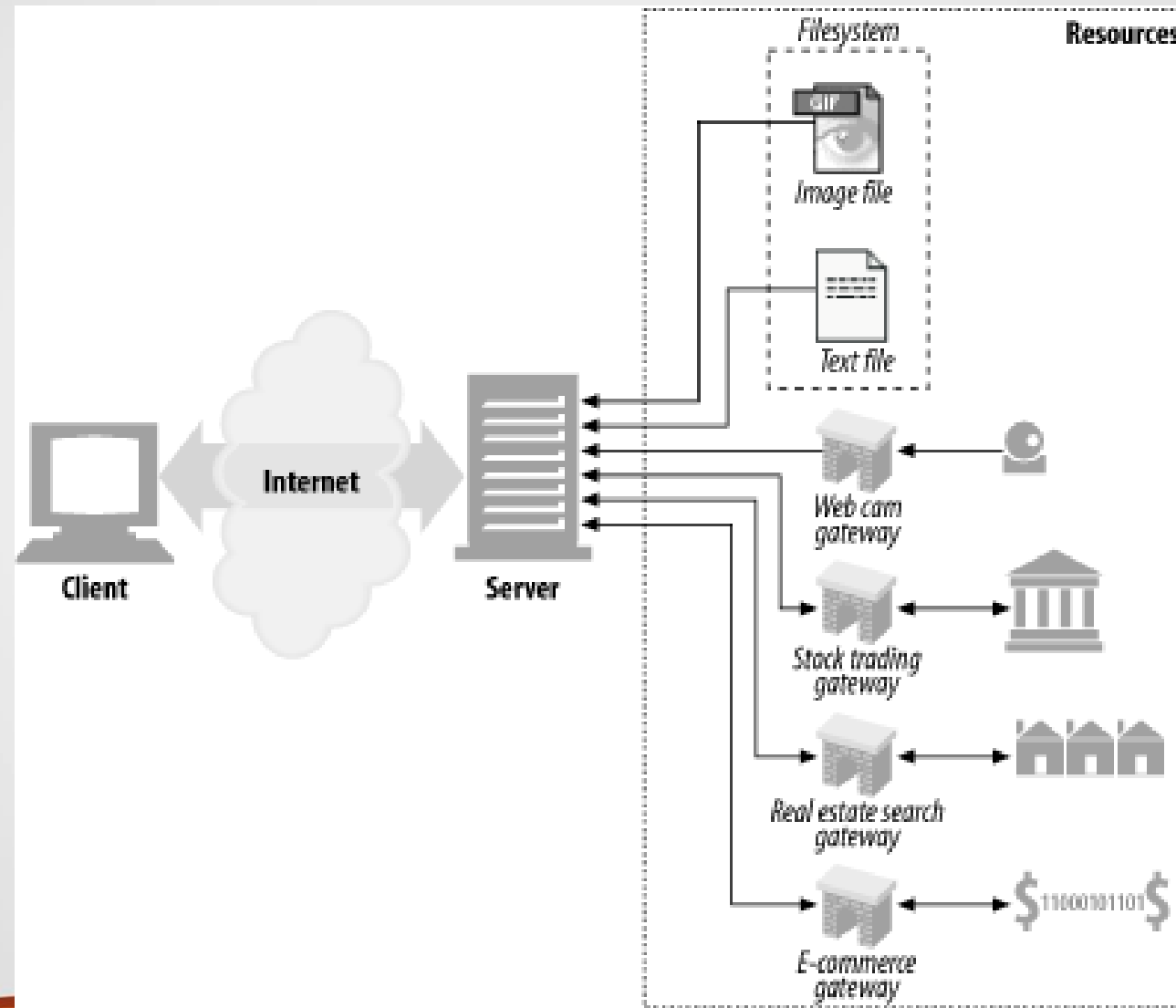
Clients & Servers





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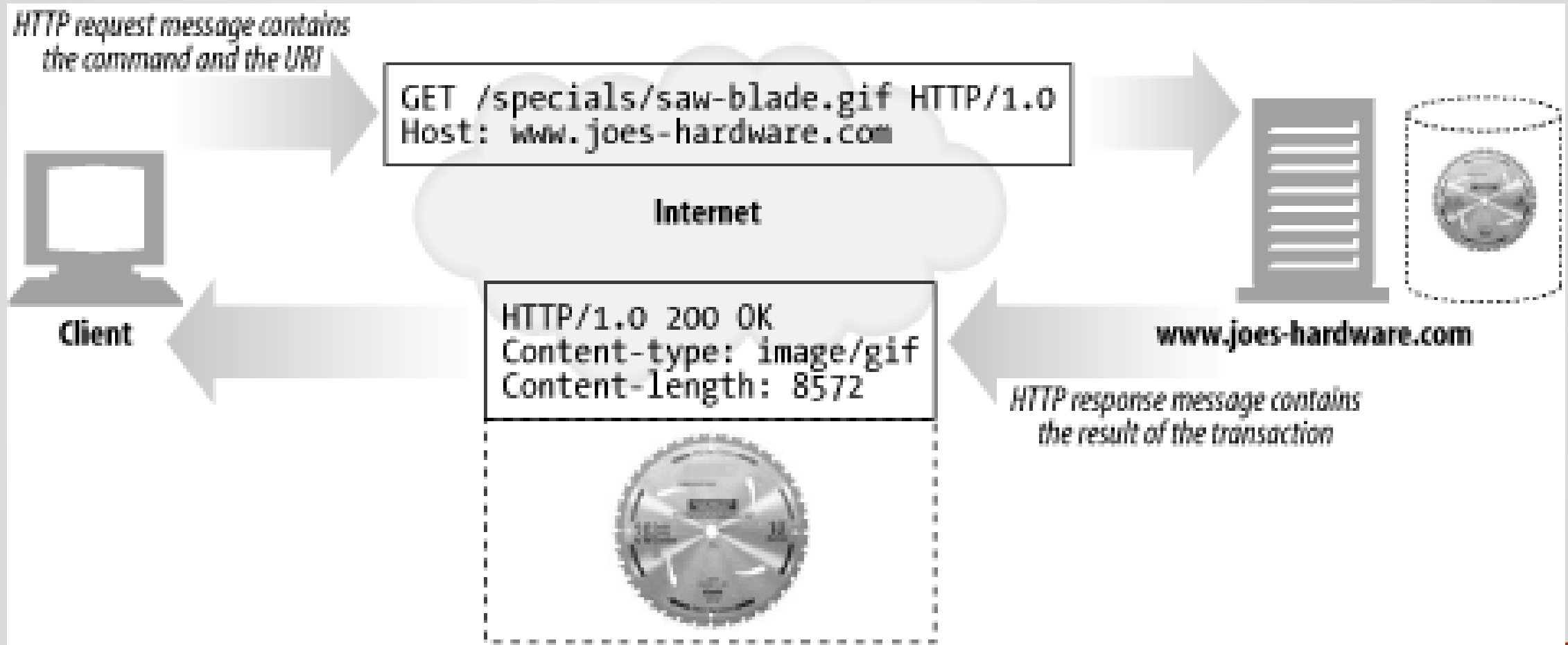
Resources





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Transactions





Methods

Some common HTTP methods

HTTP method	Description
GET	Send named resource from the server to the client.
PUT	Store data from client into a named server resource.
DELETE	Delete the named resource from a server.
POST	Send client data into a server gateway application.
HEAD	Send just the HTTP headers from the response for the named resource.





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Status Codes

Some common HTTP status codes

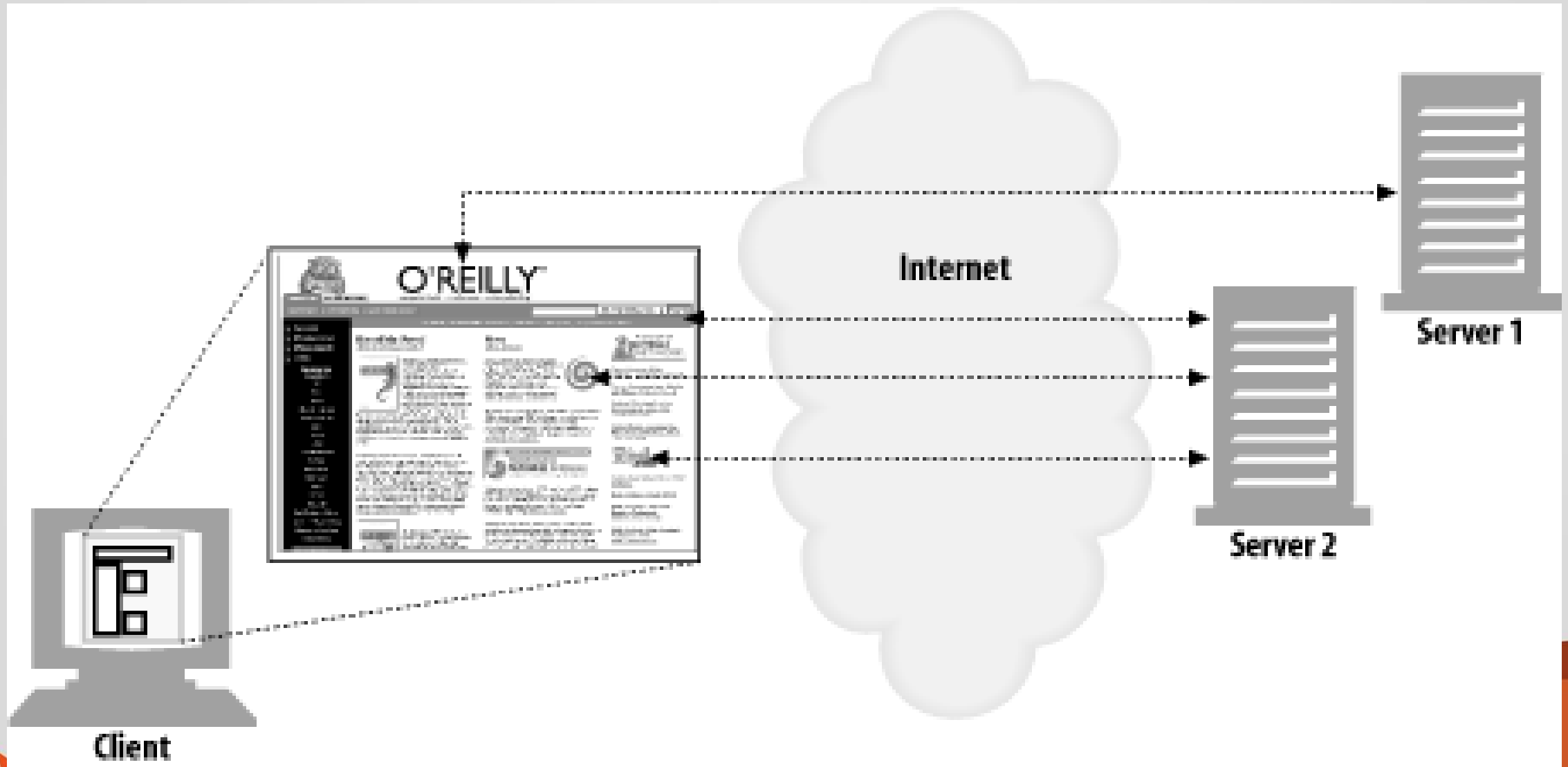
HTTP status code	Description
200	OK. Document returned correctly.
302	Redirect. Go someplace else to get the resource.
404	Not Found. Can't find this resource.





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HTTP Multiple Requests





Messages

(a) Request message

GET /test/hi-there.txt HTTP/1.0

Accept: text/*

Accept-Language: en,fr

Start line

Headers

Body

(b) Response message

HTTP/1.0 200 OK

Content-type: text/plain

Content-length: 19

Hi! I'm a message!





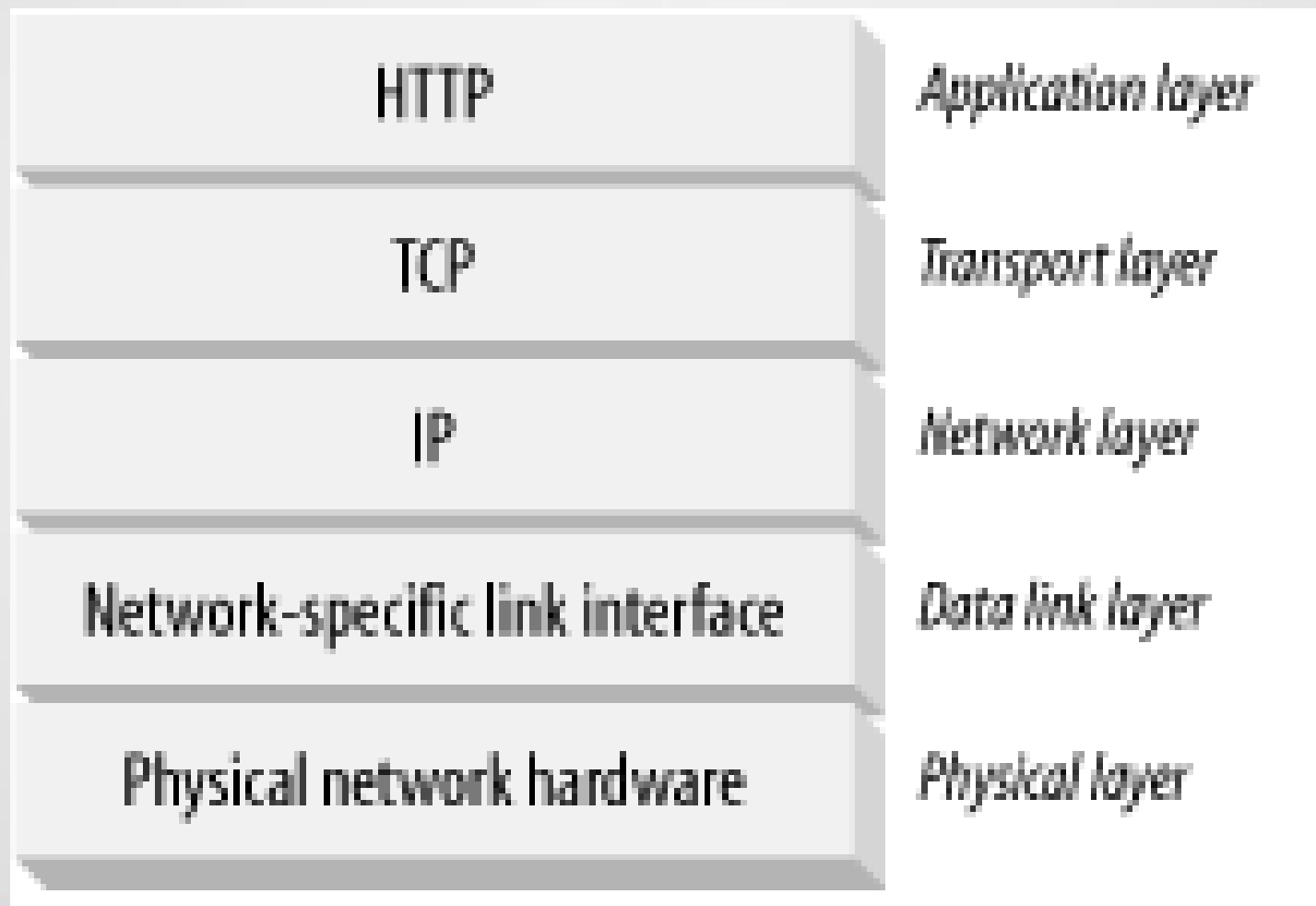
Example GET transaction





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Connections





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What steps happens during connection?

