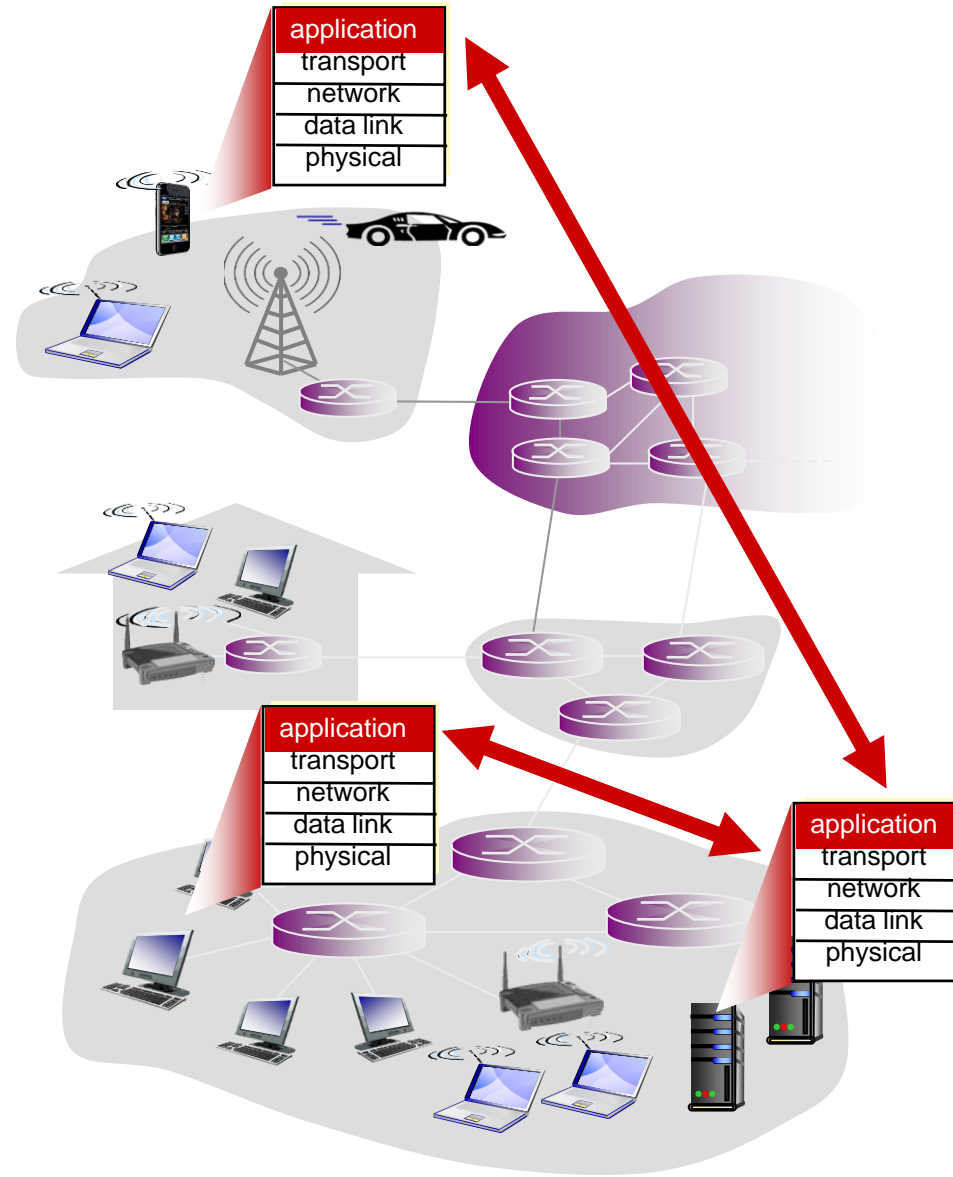


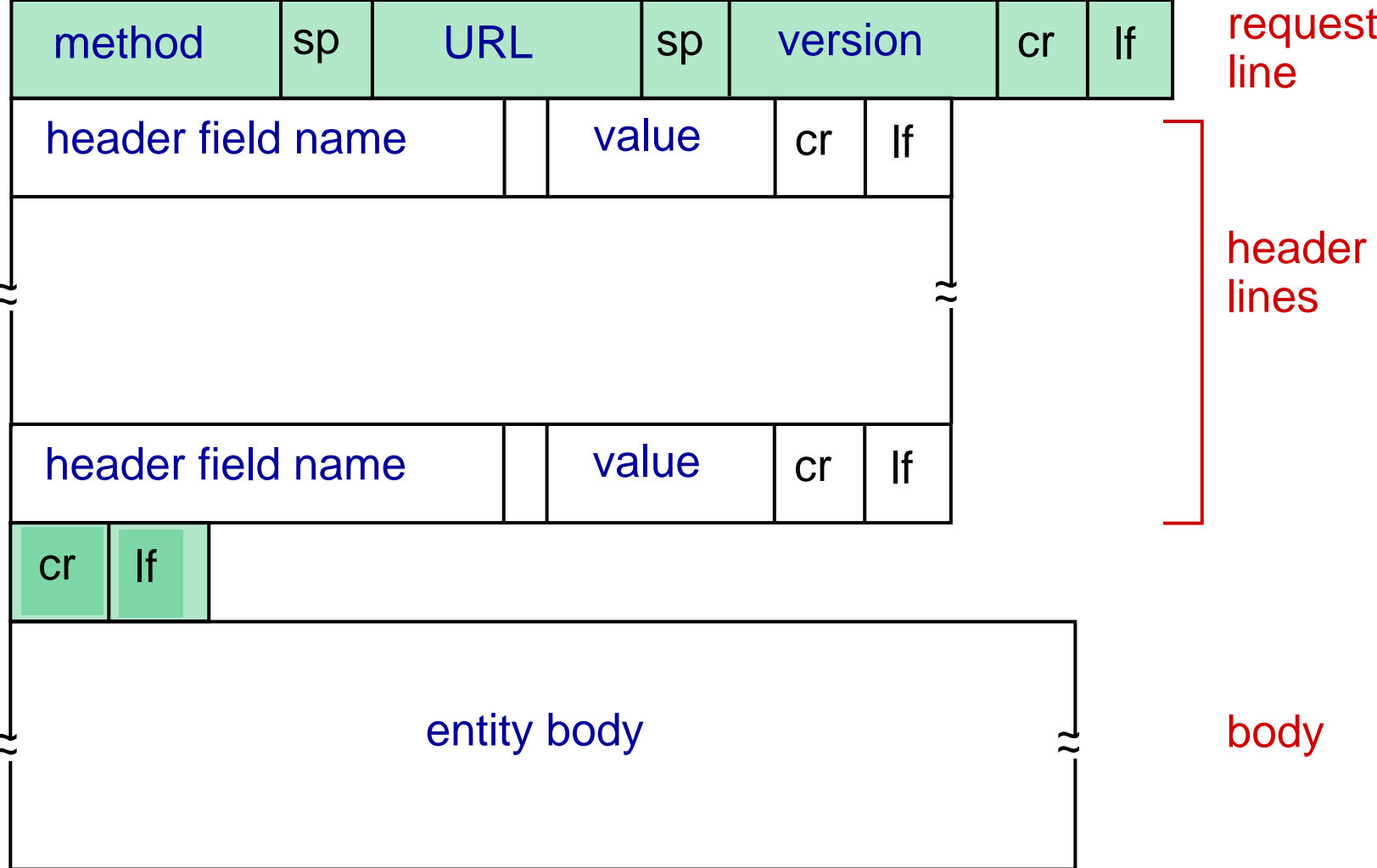
# Application HTTP (web)

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# HTTP Request



Line Feed  
LF = 10

Carriage (return)  
CR = 13



Zealand

Space SP = 32

# HTTP request message

---

request line  
(GET, POST,  
HEAD commands)

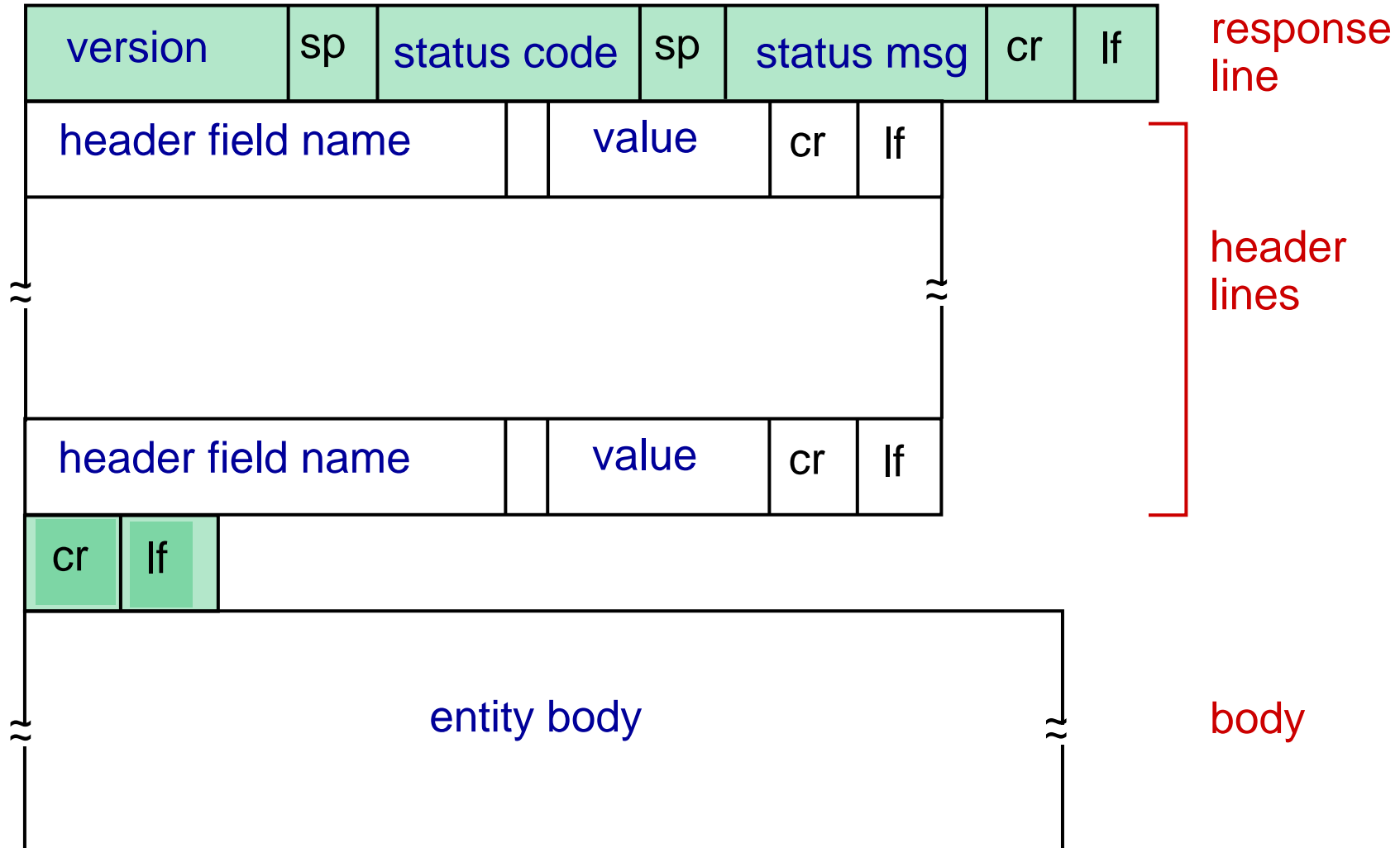
header  
lines

carriage return,  
line feed at start  
of line indicates  
end of header lines

```
GET /index.html HTTP/1.1\r\n
Host: www-net.cs.umass.edu\r\n
User-Agent: Firefox/3.6.10\r\n
Accept: text/html,application/xhtml+xml\r\n
Accept-Language: en-us,en;q=0.5\r\n
Accept-Encoding: gzip,deflate\r\n
Accept-Charset: ISO-8859-1,utf-8;q=0.7\r\n
Keep-Alive: 115\r\n
Connection: keep-alive\r\n
\r\n
```

carriage return character  
line-feed character

# HTTP Response



# HTTP response message

---

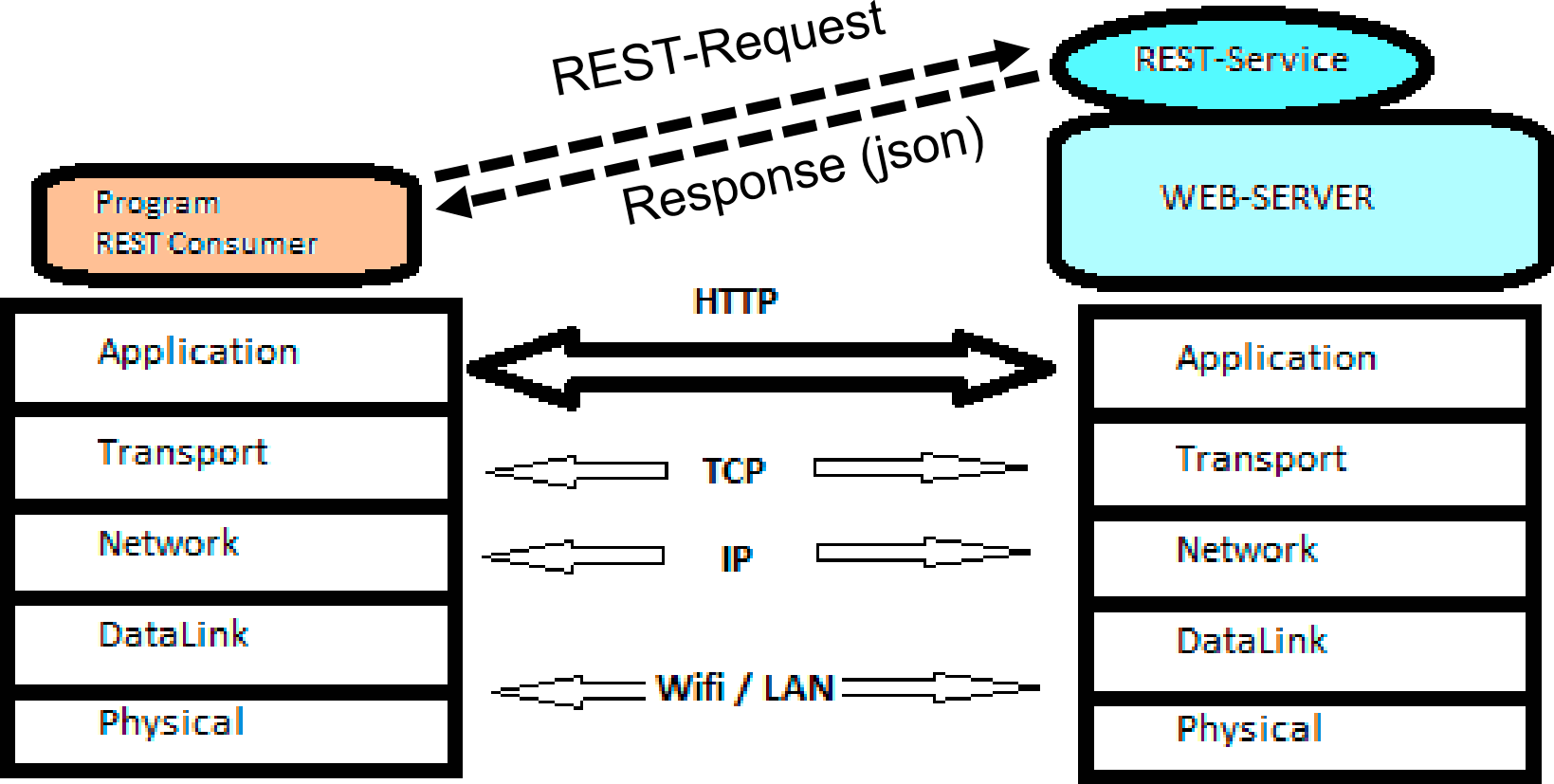
status line  
(protocol  
status code  
status phrase)

header  
lines

data, e.g.,  
requested  
HTML file

```
HTTP/1.1 200 OK\r\n
Date: Sun, 26 Sep 2010 20:09:20 GMT\r\n
Server: Apache/2.0.52 (CentOS)\r\n
Last-Modified: Tue, 30 Oct 2007 17:00:02
  GMT\r\n
ETag: "17dc6-a5c-bf716880"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 2652\r\n
Keep-Alive: timeout=10, max=100\r\n
Connection: Keep-Alive\r\n
Content-Type: text/html; charset=ISO-8859-
  1\r\n
\r\n
data data data data data ...
```

# REST (API) - Representational state transfer





# JSON - JavaScript Object Notation

- JSON specification: <https://www.json.org/json-en.html>
- Et Letvægts data-interchange format
- JSON Syntax Rules
  - Data is in name/value pairs
  - Data is separated by commas
  - Curly braces hold objects
  - Square brackets hold arrays

# JSON - eksempel

- {"RegNo":"AB12345","Price":345000,"Model":"VW"} =>

Car klasse med properties RegNo(string), Price(int), Model(string)

- [{"RegNo":"AB12345","Price":345000,"Model":"VW"},  
{"RegNo":"Olsen","Price":219000,"Model":"Ford"}] =>

List/array af Cars

# Which of the following are valid Json Objects?

`{"myList":["myName","Not my Name"]}`

`{"myList": ["myName", "Not my Name"], "moreInfo":"best list ever"}`

`{myList: ["myName", "Not my Name"], "moreInfo":"best list ever"}`

`{"myList": [{"name": "other name"}, "myName", "Not my Name"]}`

`{1, 2, 4, 8}`

`[1,2,4,"not a number"]`

`{"myList": [{"name": "other name", "list":[1,2,3]}, "myName", "Not my Name"]}`

`["myList": [{"name": "other name", "list": [1, 2, 3]}, "myName", "Not my Name"]]`

SLUT

