

HTTP

Sistemas para Internet II - 2023

HTTP

- **H**yper **T**ext **T**ransfer **P**rotocol
- O acordo (ou linguagem) entre todos os sistemas que desejam se comunicar pela Web

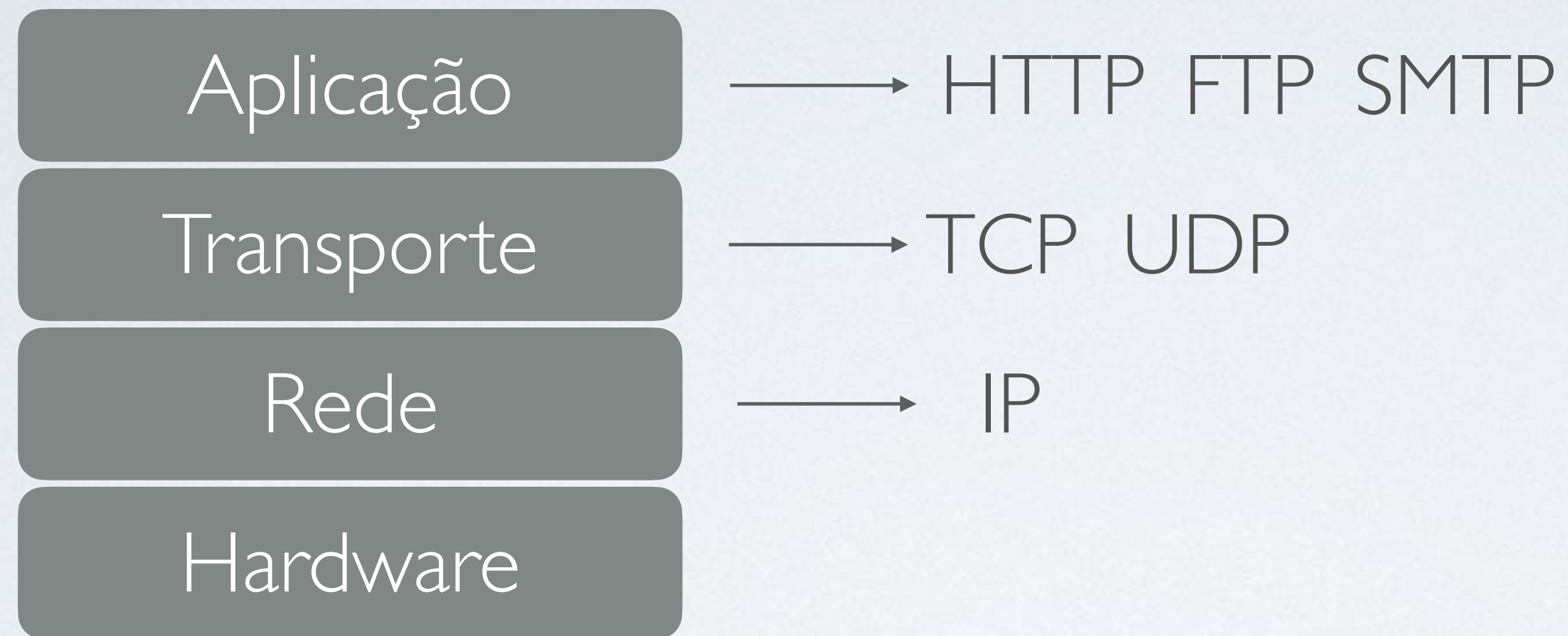
HTTP



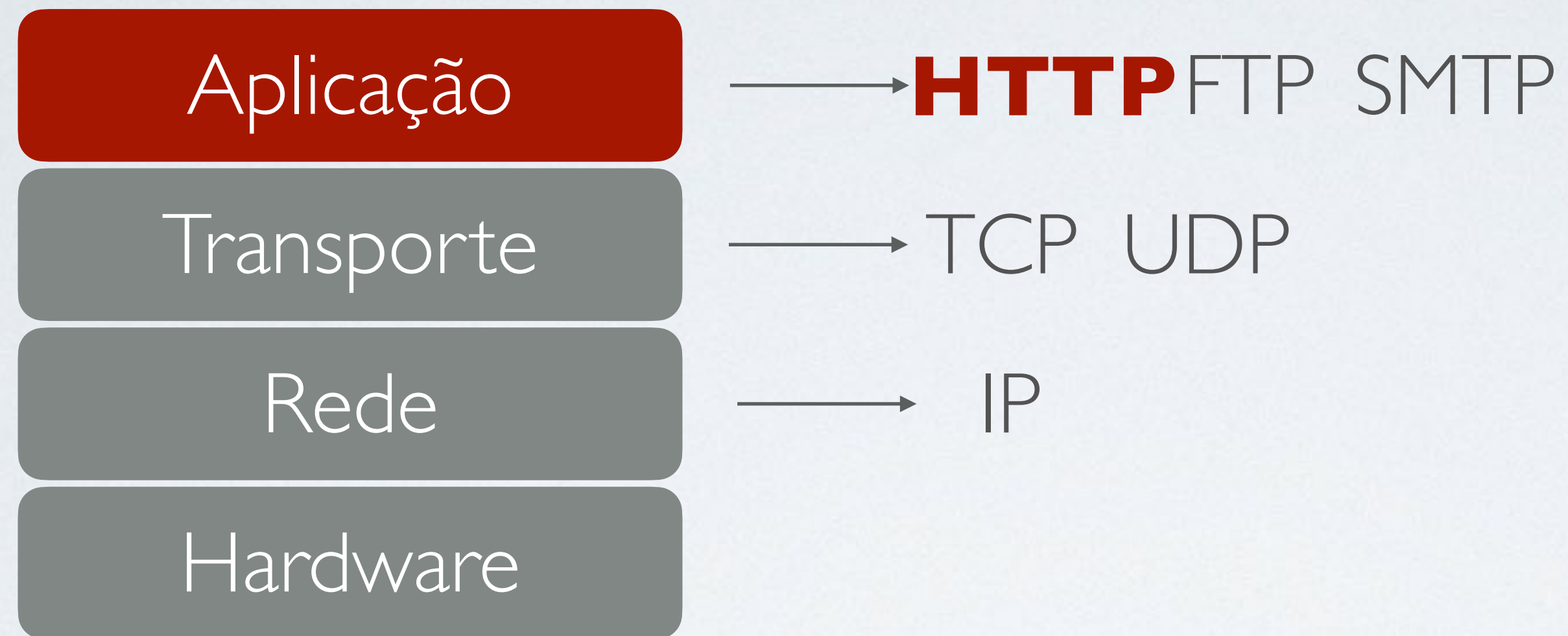
HTTP



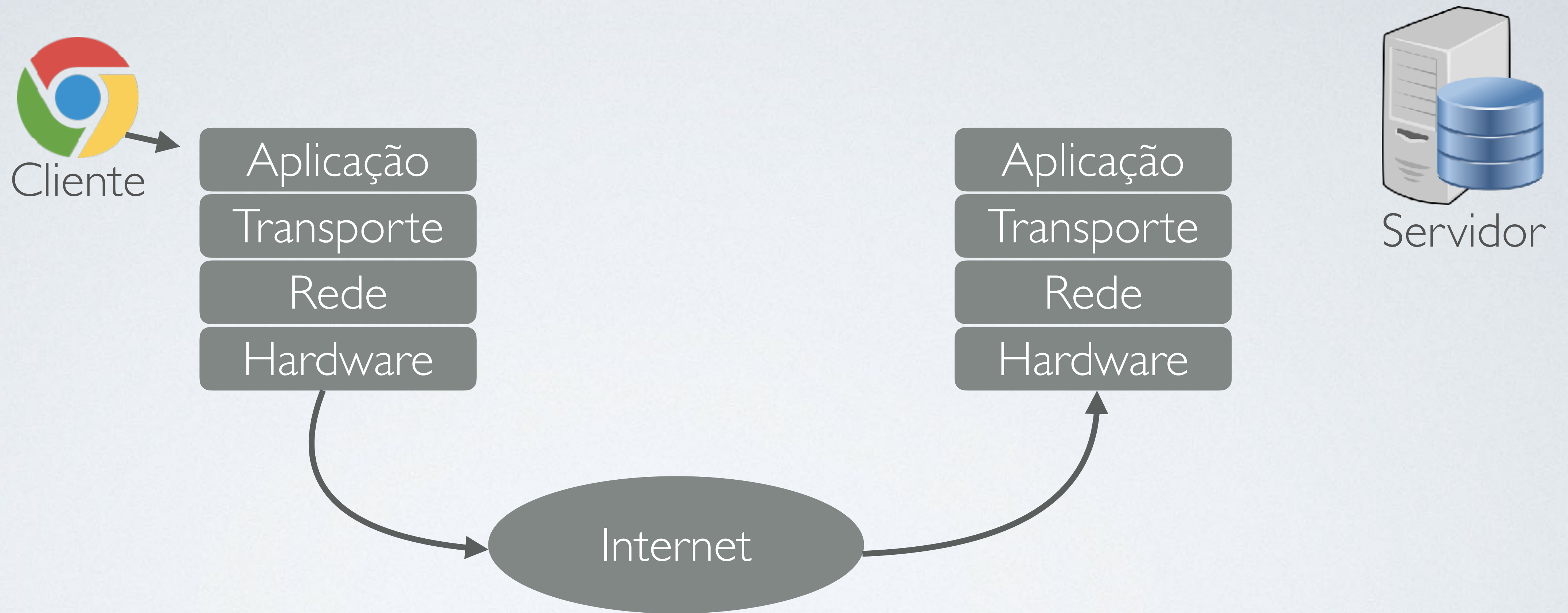
MODELO TCP/IP



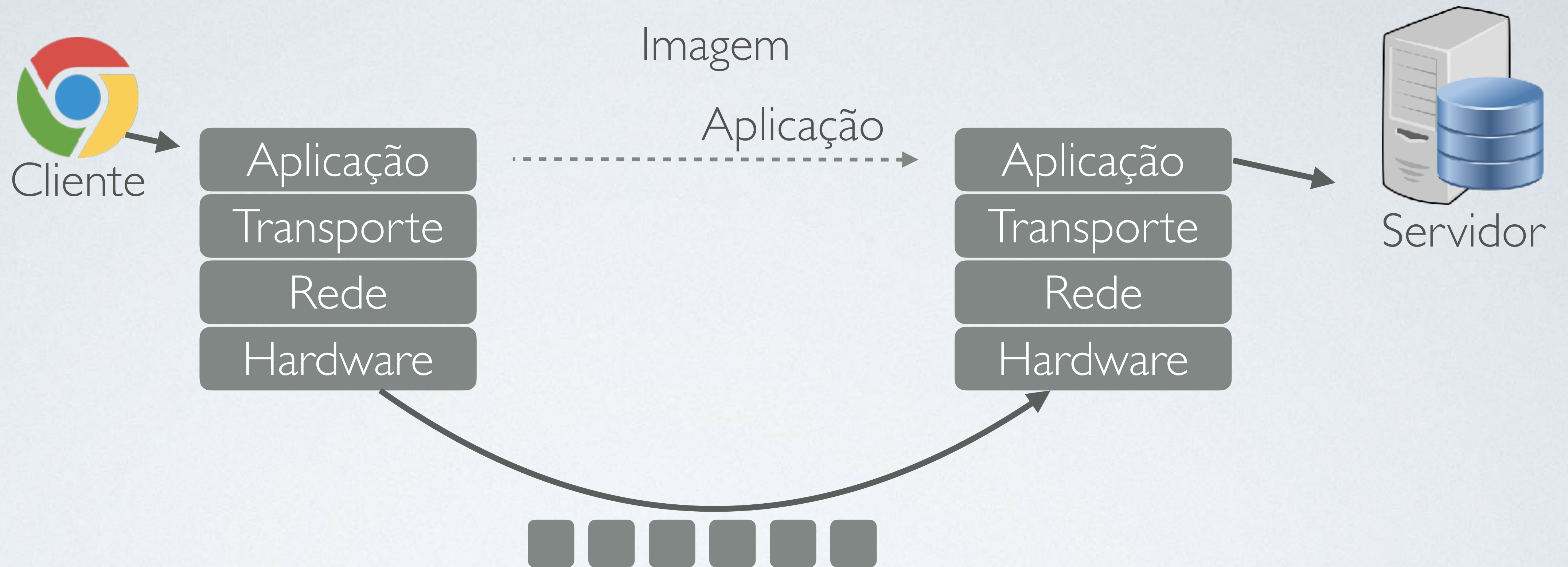
MODELO TCP/IP



HTTP



HTTP



HTTP REST

- Protocolo **textual**
- Requisições e Respostas
- Não há “memória” de estado ou conexões abertas
- O sistema considera comunicação por camadas

HTTP

```
POST / HTTP/1.1
Host: localhost:8000
User-Agent: Mozilla/5.0 (Macintosh;... )... Firefox/51.0
Accept: text/html,application/xhtml+xml,...,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Upgrade-Insecure-Requests: 1
Content-Type: multipart/form-data; boundary=-12656974
Content-Length: 345

-12656974
(more data)
```

→ Linha de Requisição

→ Cabeçalho

→ Linha em branco

→ Dados adicionais e
de conteúdo

HTTP

Tipo de requisição: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS e CONNECT

Versão do HTTP

```
POST / HTTP/1.1
Host: localhost:8000
User-Agent: Mozilla/5.0 (Macintosh;... )... Firefox/51.0
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-12656974
(more data)
```

Dados da requisição

Dados gerais

Dados do conteúdo

HTTP

Get	Pedir qualquer informação
POST	Geralmente para cadastro
PUT	Enviar uma informação específica
PATCH	Requisitar informações internas do servidor
HEAD	Alterar informações de cabeçalho (útil depois para sessão)
TRACE	Algo como um “eco”. Retorna a mensagem de volta

HTTP

HTTP/1.1 200 OK

Access-Control-Allow-Origin: *

Connection: Keep-Alive

Content-Encoding: gzip

Content-Type: text/html; charset=utf-8

Date: Wed, 10 Aug 2016 13:17:18 GMT

Etag: "d9b3b803e9a0dc6f22e2f20a3e90f69c41f6b71b"

Keep-Alive: timeout=5, max=999

Last-Modified: Wed, 10 Aug 2016 05:38:31 GMT

Server: Apache

Set-Cookie: csrftoken=.....

Transfer-Encoding: chunked

Vary: Cookie, Accept-Encoding

X-Frame-Options: DENY

.....

→ Linha de Resposta

→ Cabeçalho

→ Corpo da resposta

HTTP

Versão do HTTP

Status da Resposta

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Connection: Keep-Alive
Content-Encoding: gzip
Content-Type: text/html; charset=utf-8
Date: Wed, 10 Aug 2016 13:17:18 GMT
Etag: "d9b3b803e9a0dc6f22e2f20a3e90f69c41f6b71b"
Keep-Alive: timeout=5, max=999
Last-Modified: Wed, 10 Aug 2016 05:38:31 GMT
Server: Apache
Set-Cookie: csrftoken=.....
Transfer-Encoding: chunked
Vary: Cookie, Accept-Encoding
X-Frame-Options: DENY
```

Dados da resposta

Dados gerais

Dados do conteúdo

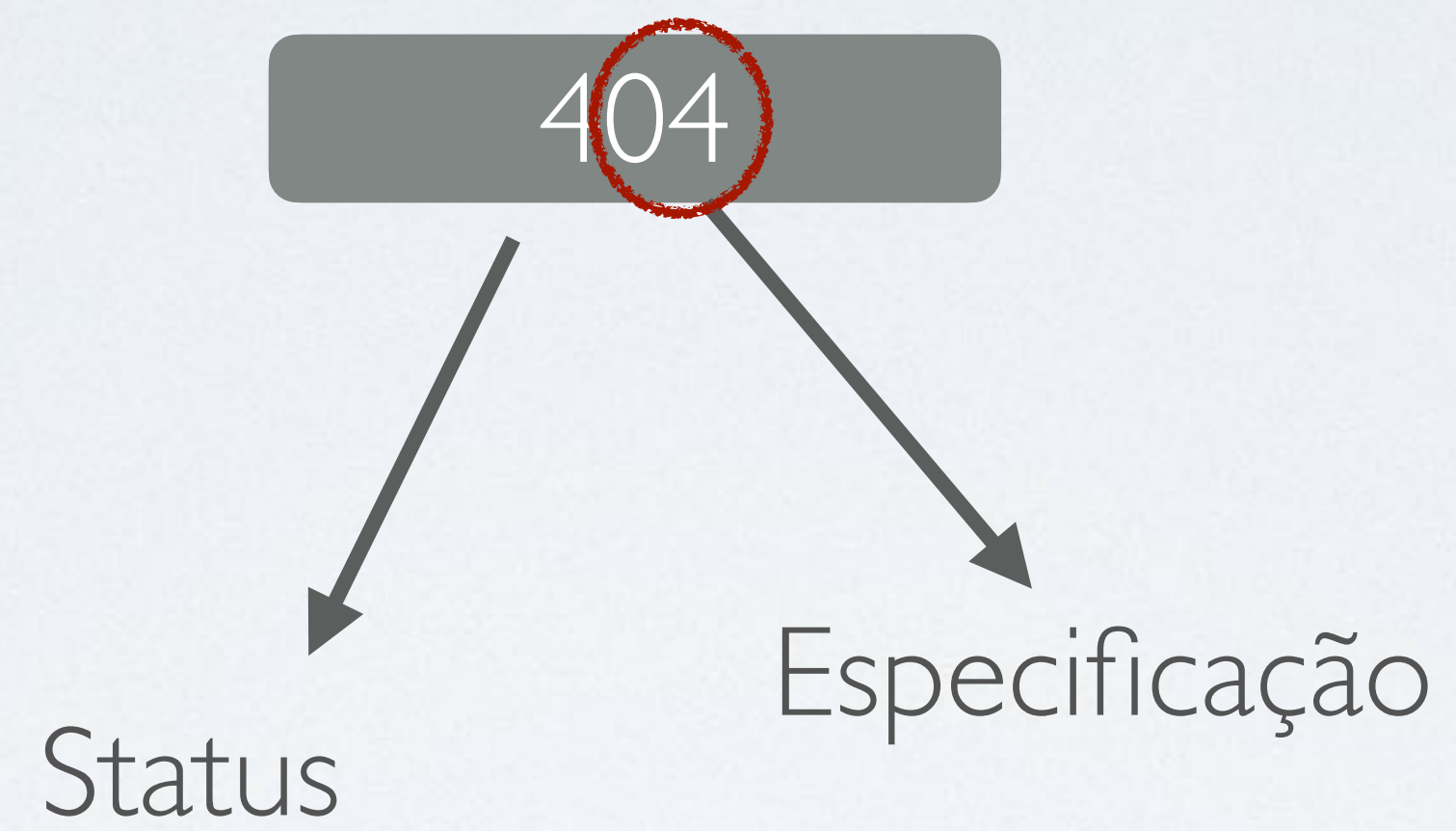
HTTP

404

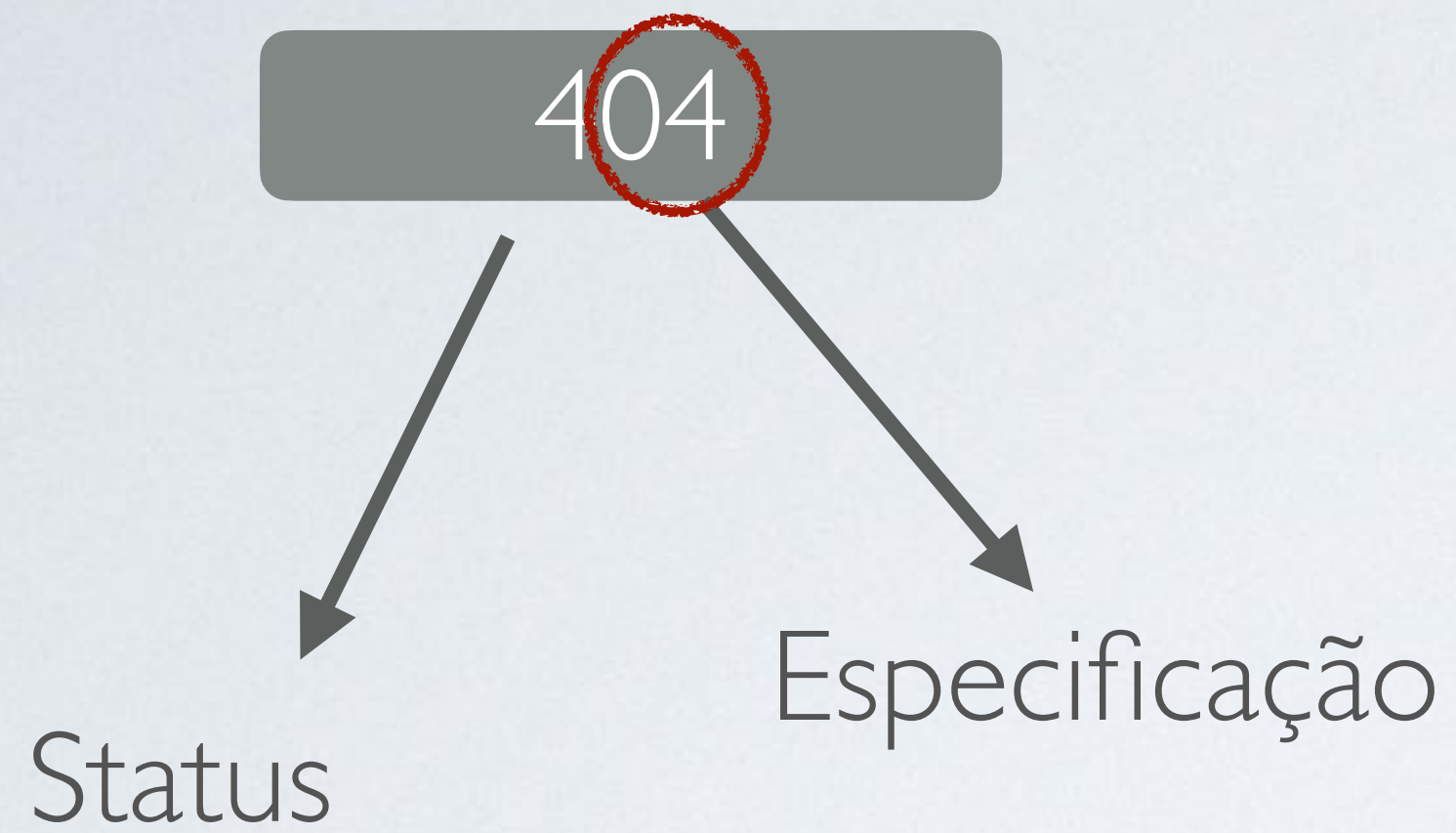


Status

HTTP



HTTP




1xx	Informação
2xx	Sucesso
3xx	Redirecionamento
4xx	Erro no cliente
5xx	Erro no servidor

HTTP

▼ Geral

Solicitar URL: `https://www.furg.br/`

Método da solicitação: `GET`

Código de status:  `200 OK`

Endereço remoto: `[2804:0:5400:dc::110]:443`

Política do referenciador: `strict-origin-when-cross-origin`

▼ Cabeçalhos de resposta

[Ver a origem](#)

Cache-Control: `no-store, no-cache, must-revalidate, post-check=0, pre-check=0, no-cache`

Connection: `Keep-Alive`

Content-Encoding: `gzip`

Content-Type: `text/html; charset=utf-8`

Date: `Fri, 28 Apr 2023 04:55:37 GMT`

ETag: `"d9b6e832b99c2730b44749c52df9dda3"`

Expires: `Wed, 17 Aug 2005 00:00:00 GMT`

Keep-Alive: `timeout=5, max=100`

Last-Modified: `Fri, 28 Apr 2023 04:49:46 GMT`

Pragma: `no-cache`

Server: `Apache`

Set-Cookie: `083e235df7fab1652047499e49c664b8=4932e72mf2eg9pogt9ji16qpsv; path=/; HttpOnly`

Strict-Transport-Security: `max-age=15768000`

Transfer-Encoding: `chunked`

Vary: `Accept-Encoding`

X-Content-Type-Options: `nosniff`

X-Frame-Options: `sameorigin`

HTTP

```
× Cabeçalhos  Visualização  Resposta  Iniciador  Tempo  Cookies
1 |
2 <!DOCTYPE html>
3 <html lang="pt-br" dir="ltr">
4
5 <head>
6   <meta property="creator.productor" content="http://estruturaorganizacional.dados.gov.br" />
7   <meta name="viewport" content="width=device-width, initial-scale=1.0, user-scalable=yes" />
8   <meta charset="utf-8" />
9   <base href="https://www.furg.br/" />
10  <meta name="author" content="Suporte NTI" />
11  <meta name="theme-color" content="#bf0a25" />
12  <meta property="fb:pages" content="19247218412287" />
13  <meta property="og:locale" content="pt-BR" />
14  <meta property="og:url" content="https://www.furg.br/" />
15  <meta property="og:site_name" content="Universidade Federal do Rio Grande - FURG" />
16  <meta property="og:title" content="Página inicial" />
17  <meta property="og:description" content=" " />
18  <meta property="og:type" content="article" />
19  <meta property="og:article:section" content="Sem categoria" />
20  <meta property="og:article:published_time" content="2018-05-25T00:19:05-03:00" />
21  <meta property="og:article:author" content="Universidade Federal do Rio Grande - FURG" />
```