

Aula I - Introdução a Disciplina

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Objetivo

Apresentar a disciplina e entender os conceitos fundamentais das tecnologias web

- HTML - HyperText Markup Language
- HTTP - HyperText Transport Protocol
- Browser
- URL - Unified Resource Location
- CSS - Cascading Style Sheets
- JavaScript ou EcmaScript
- CGI - Content Gateway Interface

Ambiente de desenvolvimento

Netbeans 8.0.0 ou superior com todos os recursos

The screenshot shows the NetBeans IDE Download page at <https://netbeans.org/downloads/index.html>. The interface is in English, set for Mac OS X. A red box highlights the 'All' download bundle, which is 243 MB and includes Java SE, Java EE, C/C++, HTML5 & PHP, and All technologies.

NetBeans IDE Download Bundles

Supported technologies *	Java SE	Java EE	C/C++	HTML5 & PHP	All
NetBeans Platform SDK	•	•			•
Java SE	•	•			•
Java FX	•	•			•
Java EE		•			•
Java ME					—
HTML5		•		•	•
Java Card™ 3 Connected					—
C/C++			•		•
Groovy					•
PHP				•	•
Bundled servers					
GlassFish Server Open Source Edition 4.1		•			•
Apache Tomcat 8.0.15		•			•

Download (Free, 105 MB) **Download** (Free, 222 MB) **Download** (Free, 72 MB) **Download** (Free, 72 MB) **Download** (Free, 243 MB)

Ambiente de desenvolvimento

Netbeans 8.0.0 ou superior com todos os recursos

JDK - *Java Development Kit 7*

Servidor Glassfish

Open JPA ou Hibernate

Bibliografia

- GABARRO, Steven A. Web Application Design and Implementation: Apache 2, Php5, Mysql, Javascript, and Linux/UNIX (Quantitative Software Engineering Series). I. Ed. Wiley-IEEE Computer Society Pr. Disponível em: <http://ieeexplore.ieee.org/xpl/bkabstractplus.jsp?bkn=5989430>

Bibliografia

Apostila da Caelum

<http://www.caelum.com.br/apostila-javascript-web/>



Sumário da aula

- HTML, HTTP e o Browser
- Evolução das tecnologias web

HTML, HTTP e o Browser

HTML, HTTP e o

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78,514 views
bluuuuuc

facebook

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It's free, and always will be.

First Name:
Last Name:
Your Email:
Re-enter Email:
New Password:
I am: Select Sex:
Birthday:
Why do I need to provide this?
Sign Up

Create a Page for a celebrity, band or business.

Featured Videos


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5 months ago
28,386 views
girl4teaching


Kom Bipal
5 days ago
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ETCM

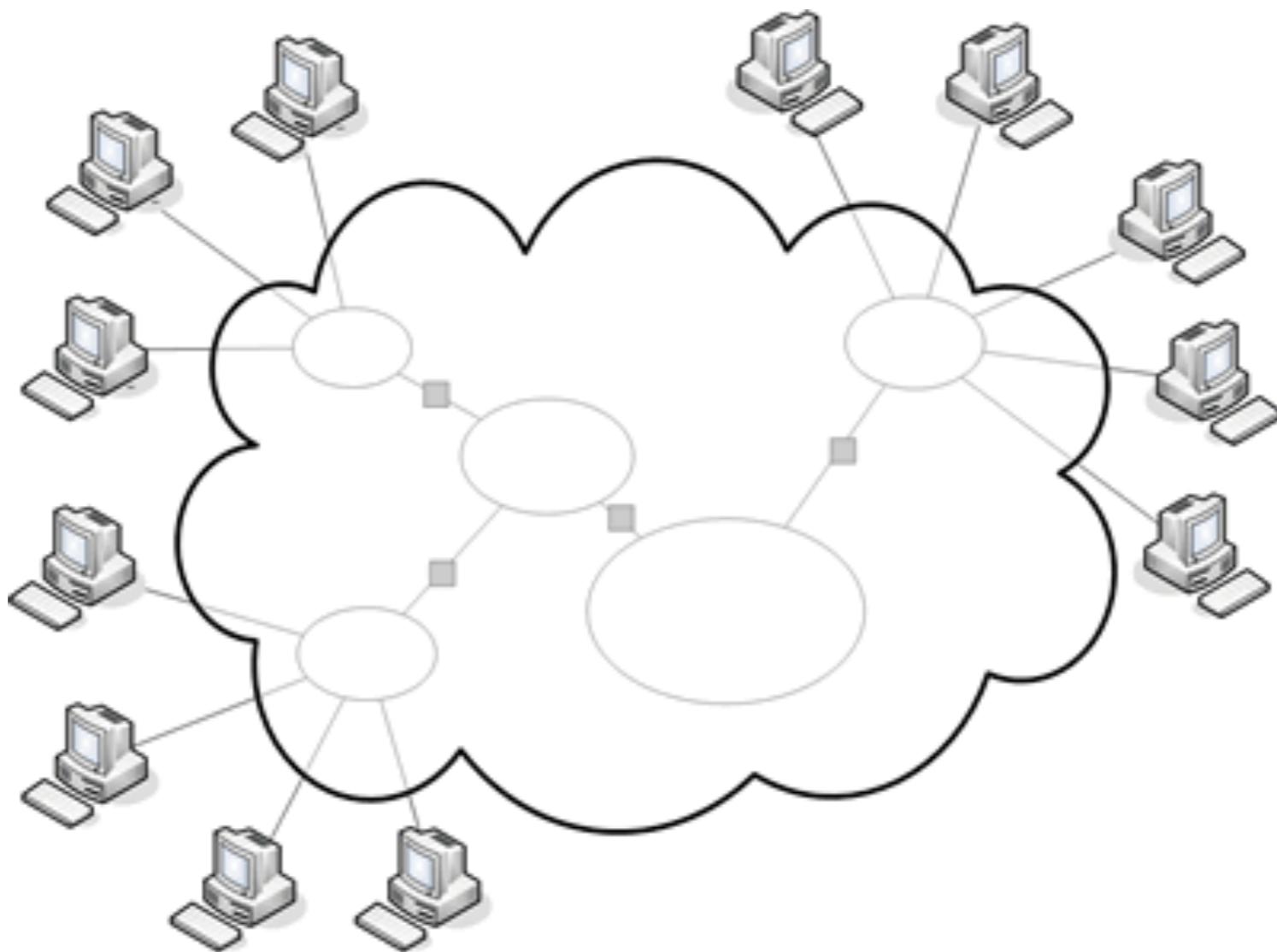
Português (Brasil) English (US) Español Français (France) Deutsch Italiano العربية हिन्दी 中文(简体) 日本語 »

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9

HTML, HTTP e o Browser



HTML, HTTP e o Browser



HTML, HTTP e o Browser

www

World Wide Web ou Web

HTML, HTTP e o Browser



HTML, HTTP e o Browser



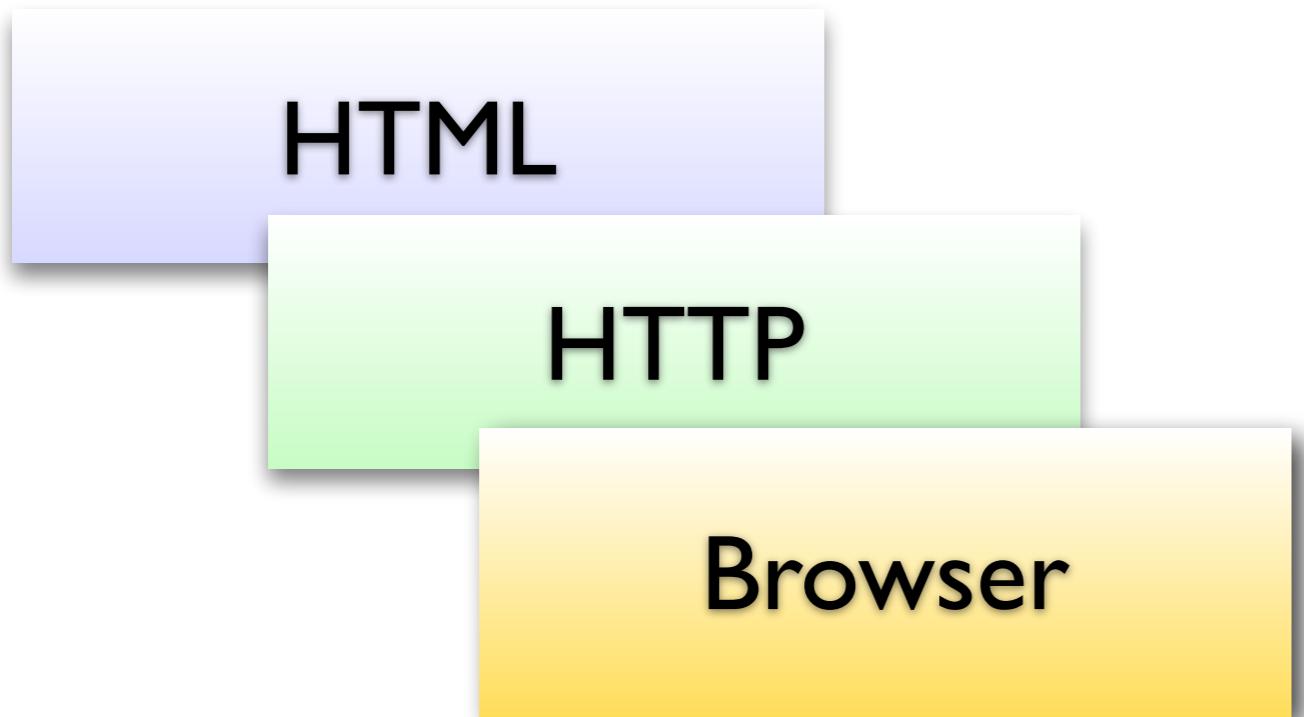
Tim Berners Lee

www

HTML, HTTP e o Browser

1989

Hoje



Tim Berners Lee

HTML, HTTP e o Browser



HyperText Markup Language: para organizar o conhecimento

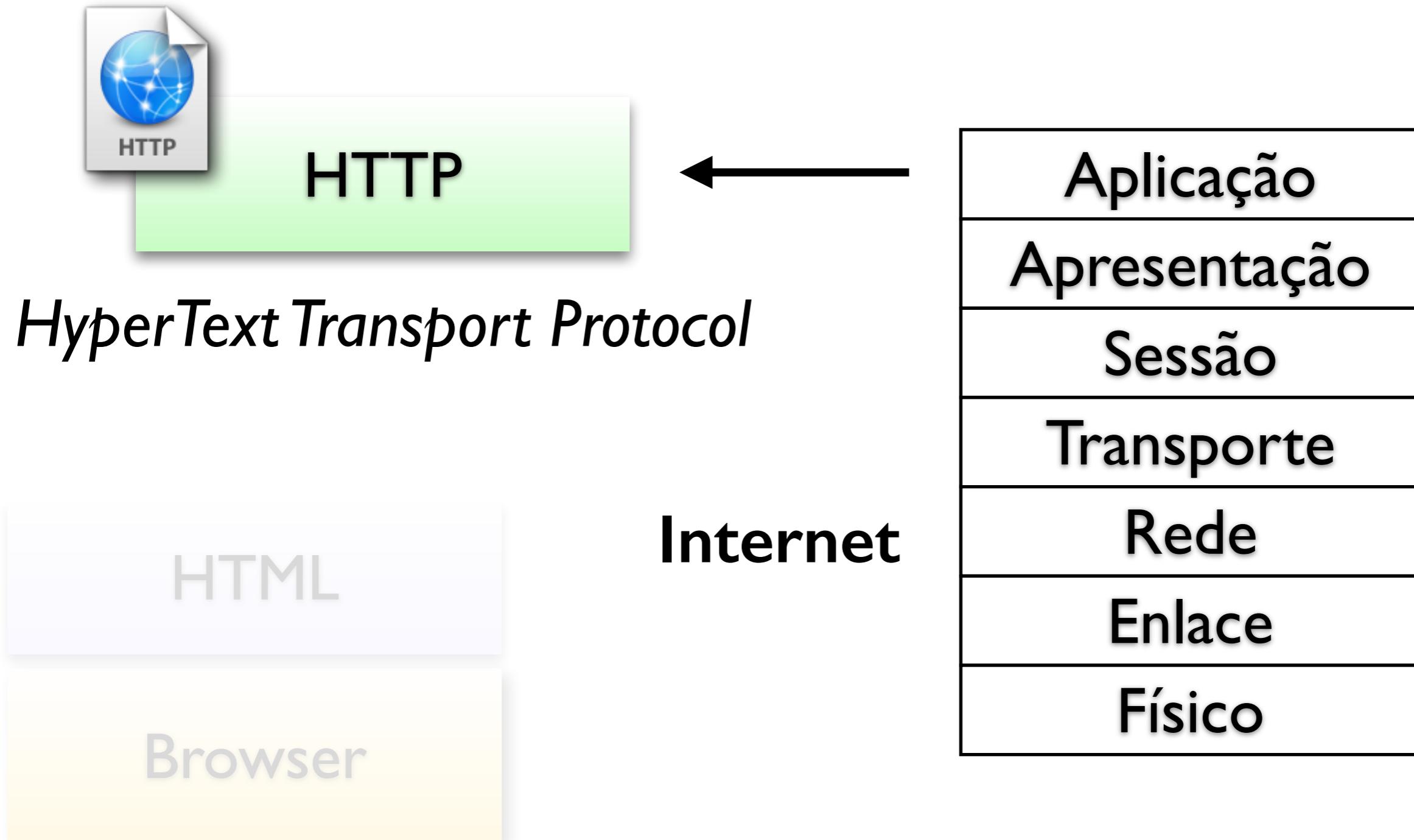
HTTP

Browser



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HTML, HTTP e o Browser





Browser



Google Chrome

HTML

HTTP



Tim Berners Lee

Browser

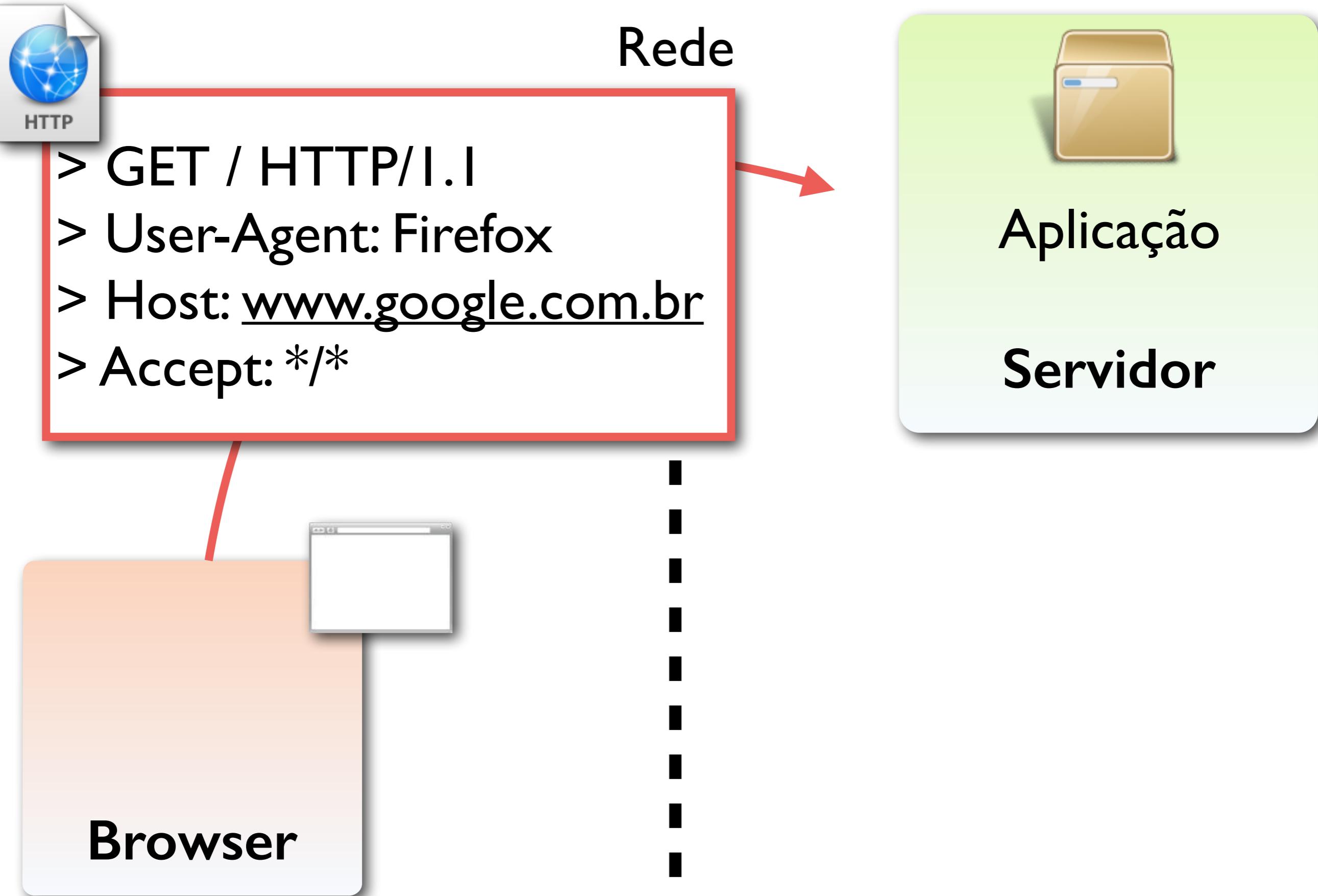
Quero uma página
URL: <http://www.google.com.br>

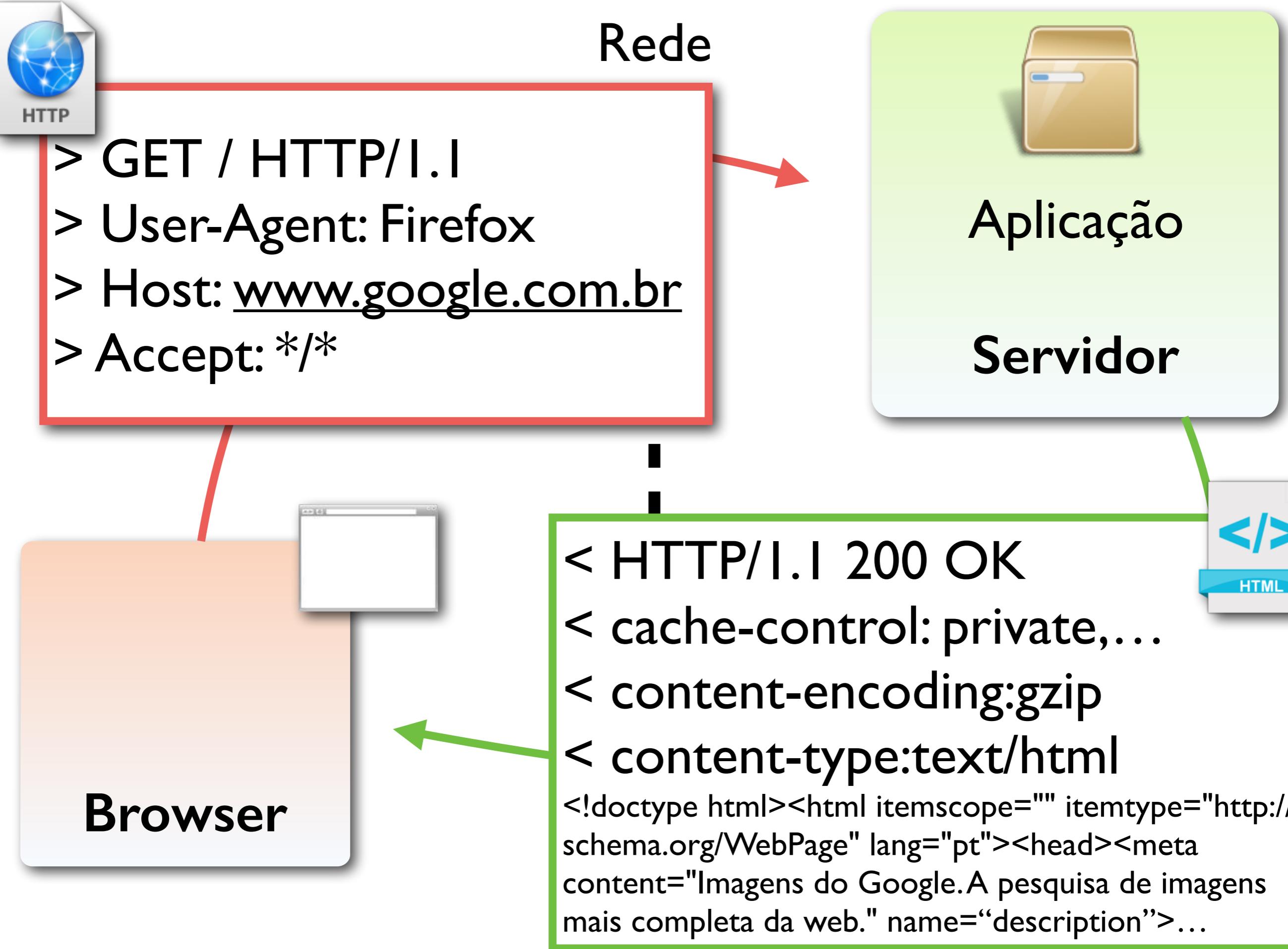
Rede



Aplicação

Servidor





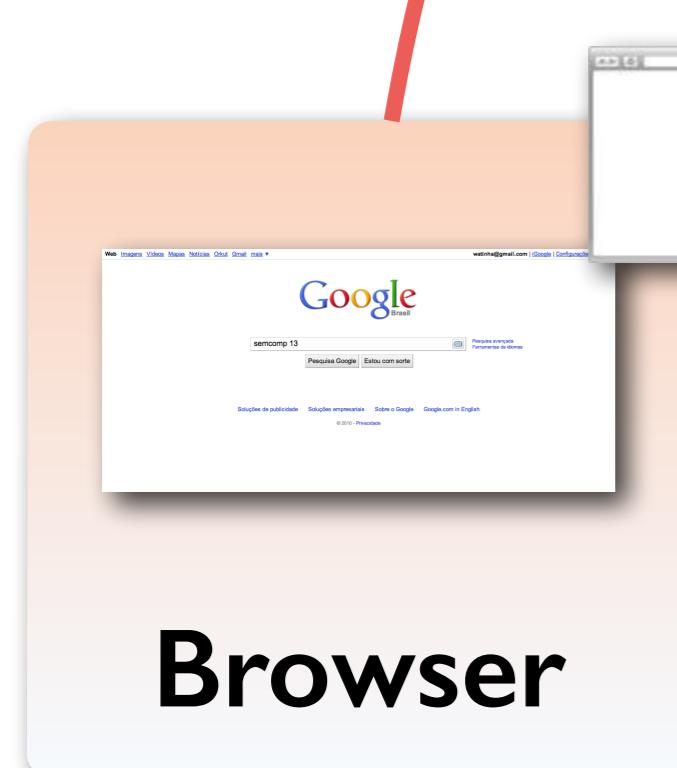


Rede

> GET / HTTP/1.1
> User-Agent: Firefox
> Host: www.google.com.br
> Accept: */*



Aplicação
Servidor



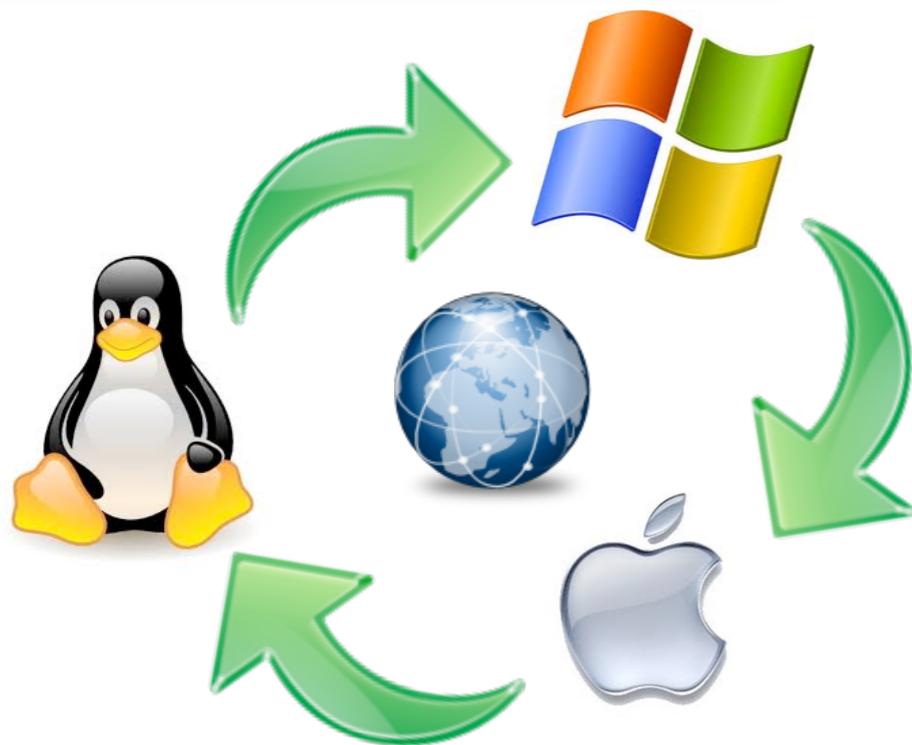
< HTTP/1.1 200 OK
< cache-control: private,...
< content-encoding:gzip
< content-type:text/html
<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="pt"><head><meta content="Imagens do Google. A pesquisa de imagens mais completa da web." name="description">...



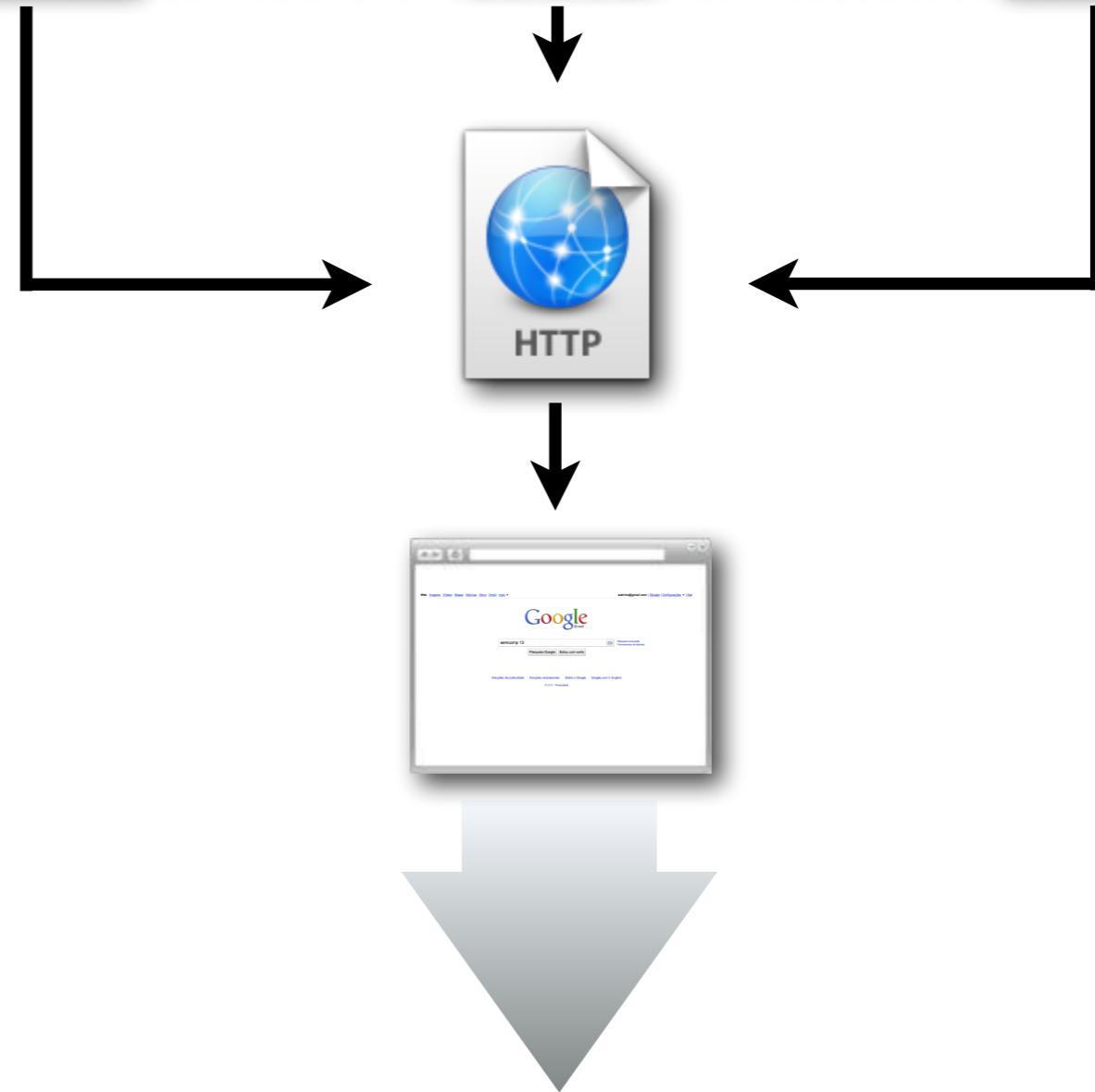
HTML

HTTP

Browser



Documentos Distribuídos



Mais informações em:

TIM BERNERS-LEE e R. CAILLIAU. *World Wide Web: Proposal for a HyperText Project*, 1990. Disponível em:
<http://www.w3.org/Proposal.html>.

Evolução das tecnologias web

1989



HTML

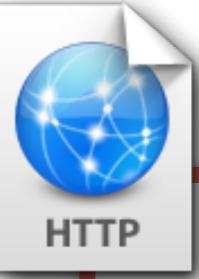
HTTP

Browser

Web 1.0



Tim Berners Lee

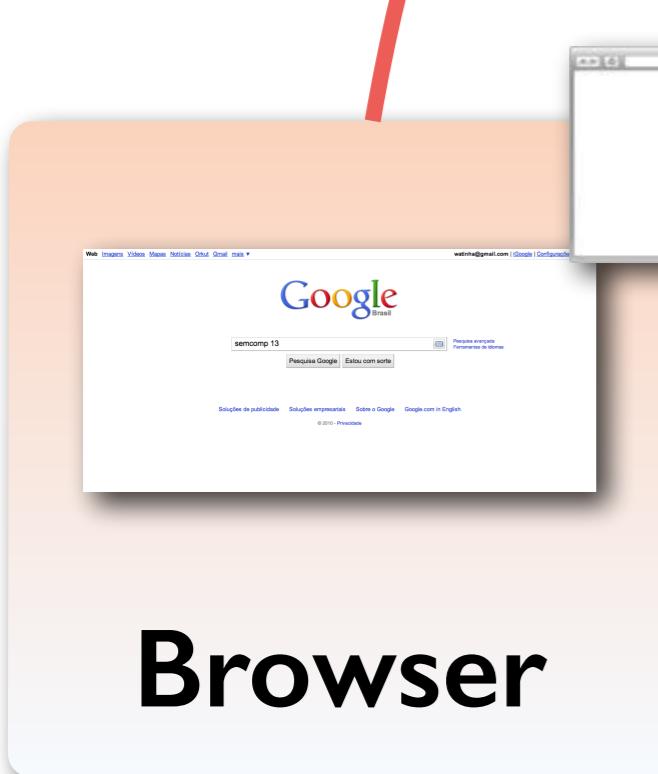


Rede

> GET / HTTP/1.1
> User-Agent: Firefox
> Host: www.google.com.br
> Accept: */*



Aplicação
Servidor



< HTTP/1.1 200 OK
< cache-control: private,...
< content-encoding:gzip
< content-type:text/html
<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="pt"><head><meta content="Imagens do Google. A pesquisa de imagens mais completa da web." name="description">...



1989



HTML

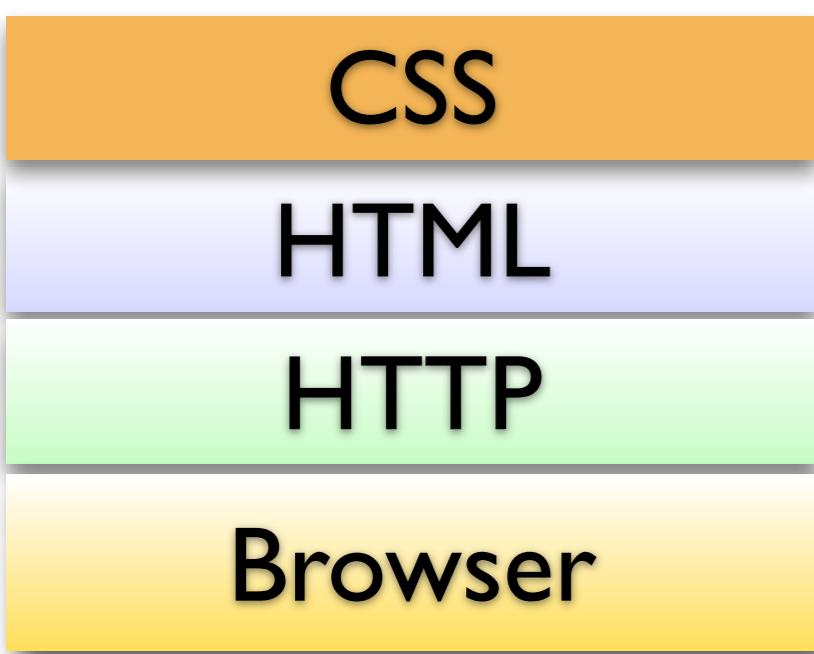
HTTP

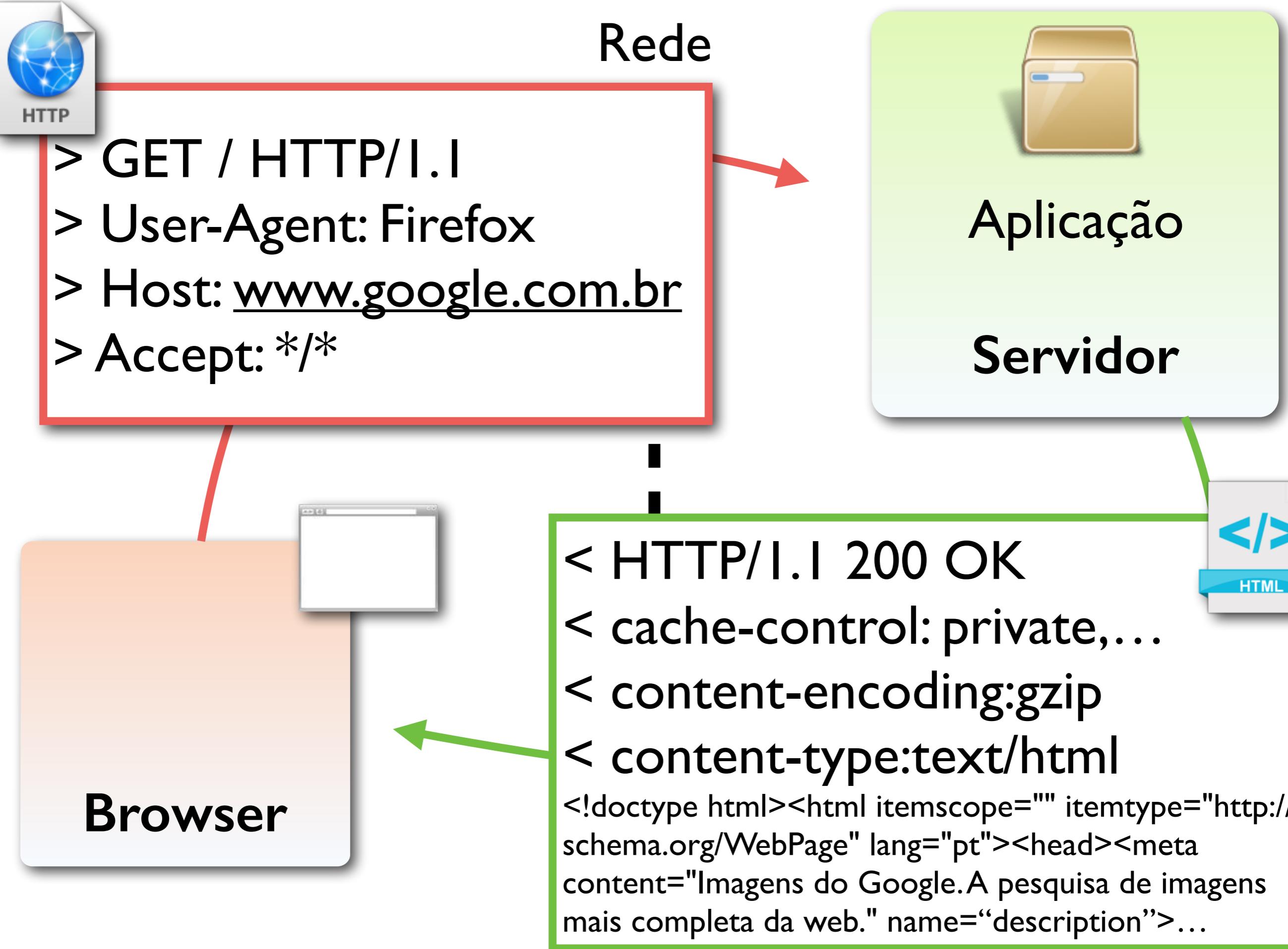
Browser

Web 1.0



Tim Berners Lee





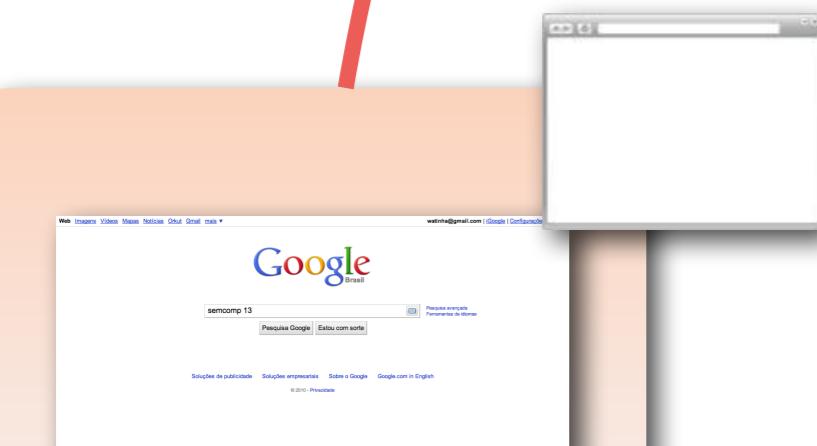


Rede

> GET /style.css HTTP/1.1
> User-Agent: Firefox
> Host: www.google.com.br
> Accept: */*



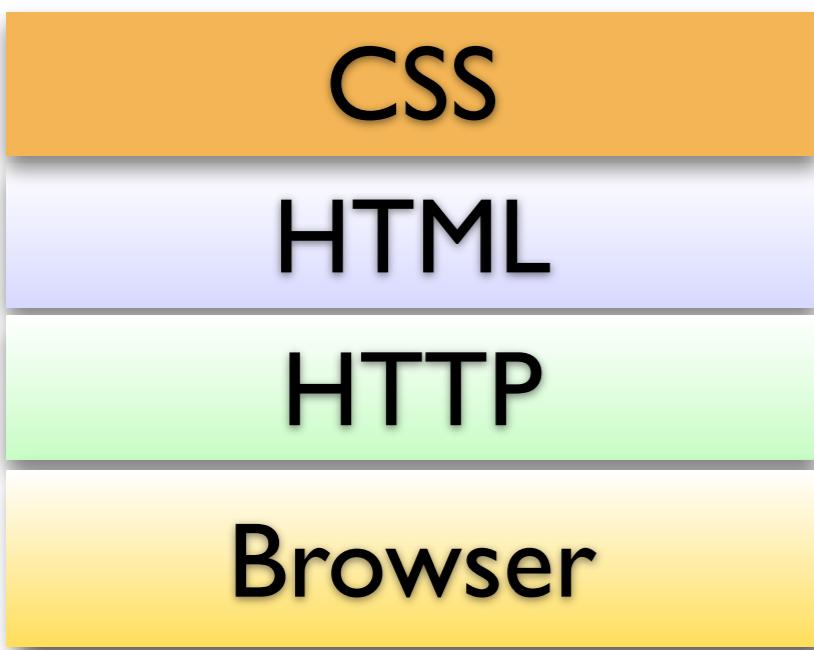
Aplicação Servidor



Browser

< HTTP/1.1 200 OK
< cache-control: private,...
< content-encoding:gzip
< content-type:text/css
<! sc body {margin: 0; padding: 0; border: none; }
cc a {color: blue; text-decoration: none; font-size: 16px; }
ma a:hover {text-decoration: underline; }
...





2005



Banco de dados

Prog. do Servidor

CSS

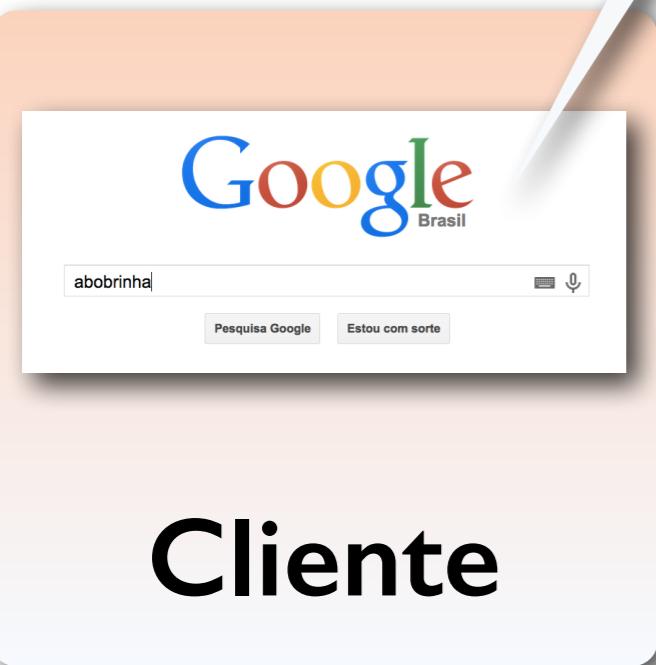
HTML

HTTP

Browser

Quero uma página
URL: <http://www.google.com.br?q=abobrinha>

Servidor



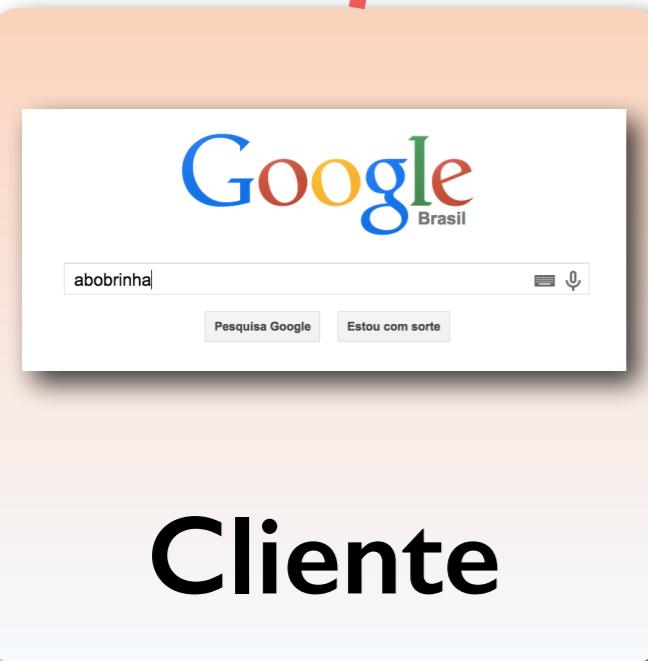
Rede

```
> GET /?q=abobrinha HTTP/1.1  
> User-Agent: Firefox  
> Host: www.google.com.br  
> Accept: */*
```



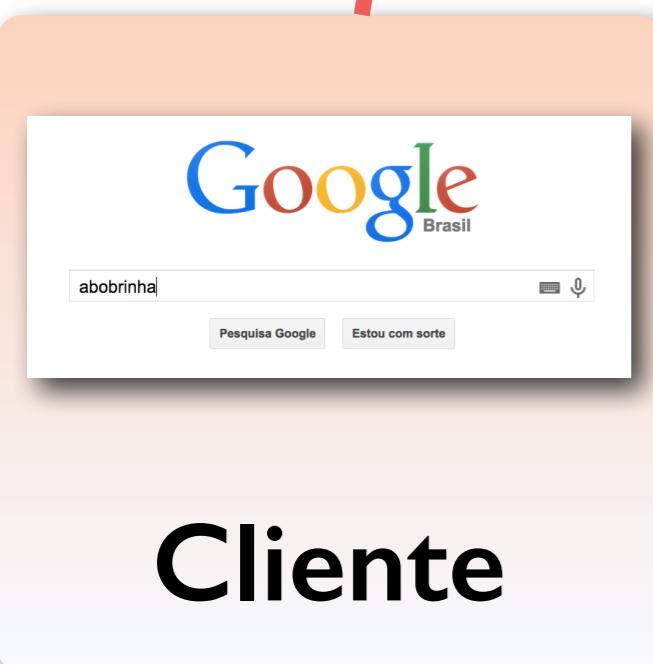
Aplicação

Servidor



Rede

```
> GET /?q=abobrinha HTTP/1.1  
> User-Agent: Firefox  
> Host: www.google.com.br  
> Accept: */*
```



Cliente



Aplicação

Servidor



Processa em seu banco de dados uma busca por elementos relacionados a abobrinha

CGI

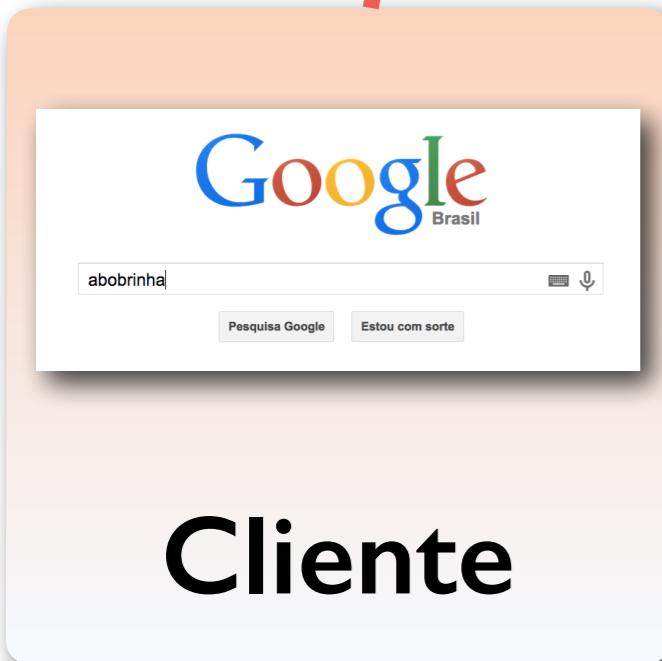
Rede

```
> GET /?q=abobrinha HTTP/1.1  
> User-Agent: Firefox  
> Host: www.google.com.br  
> Accept: */*
```



Aplicação

Servidor



Cliente

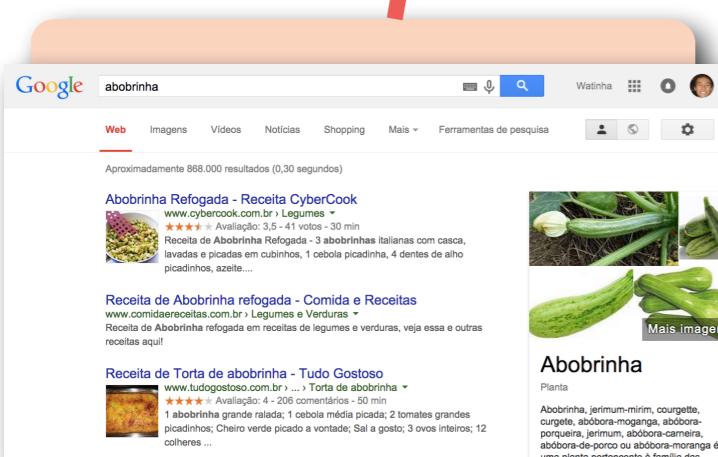
```
< HTTP/1.1 200 OK  
< cache-control: private,...  
< content-encoding:gzip  
< content-type:text/html  
<!doctype html><html itemscope="" itemtype="http://  
schema.org/WebPage" lang="pt"><head><meta  
content="Imagens do Google. A pesquisa de imagens  
mais completa da web." name="description">
```

Rede

```
> GET /?q=abobrinha HTTP/1.1  
> User-Agent: Firefox  
> Host: www.google.com.br  
> Accept: */*
```



Aplicação
Servidor



Cliente

```
< HTTP/1.1 200 OK  
< cache-control: private,...  
< content-encoding:gzip  
< content-type:text/html  
<!doctype html><html itemscope="" itemtype="http://  
schema.org/WebPage" lang="pt"><head><meta  
content="Imagens do Google. A pesquisa de imagens  
mais completa da web." name="description">
```

2005



Banco de dados

Prog. do Servidor

CSS

HTML

HTTP

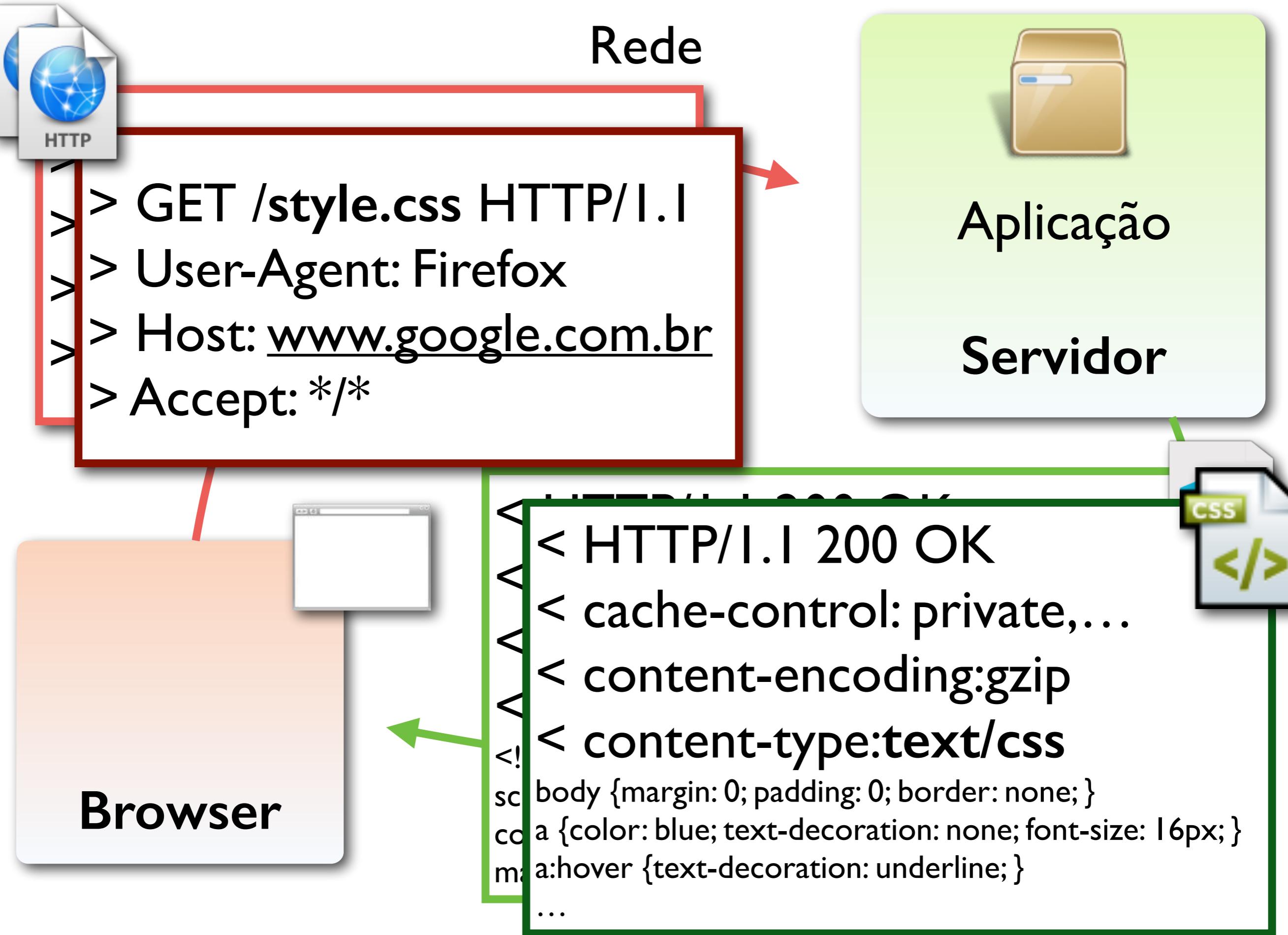
Browser

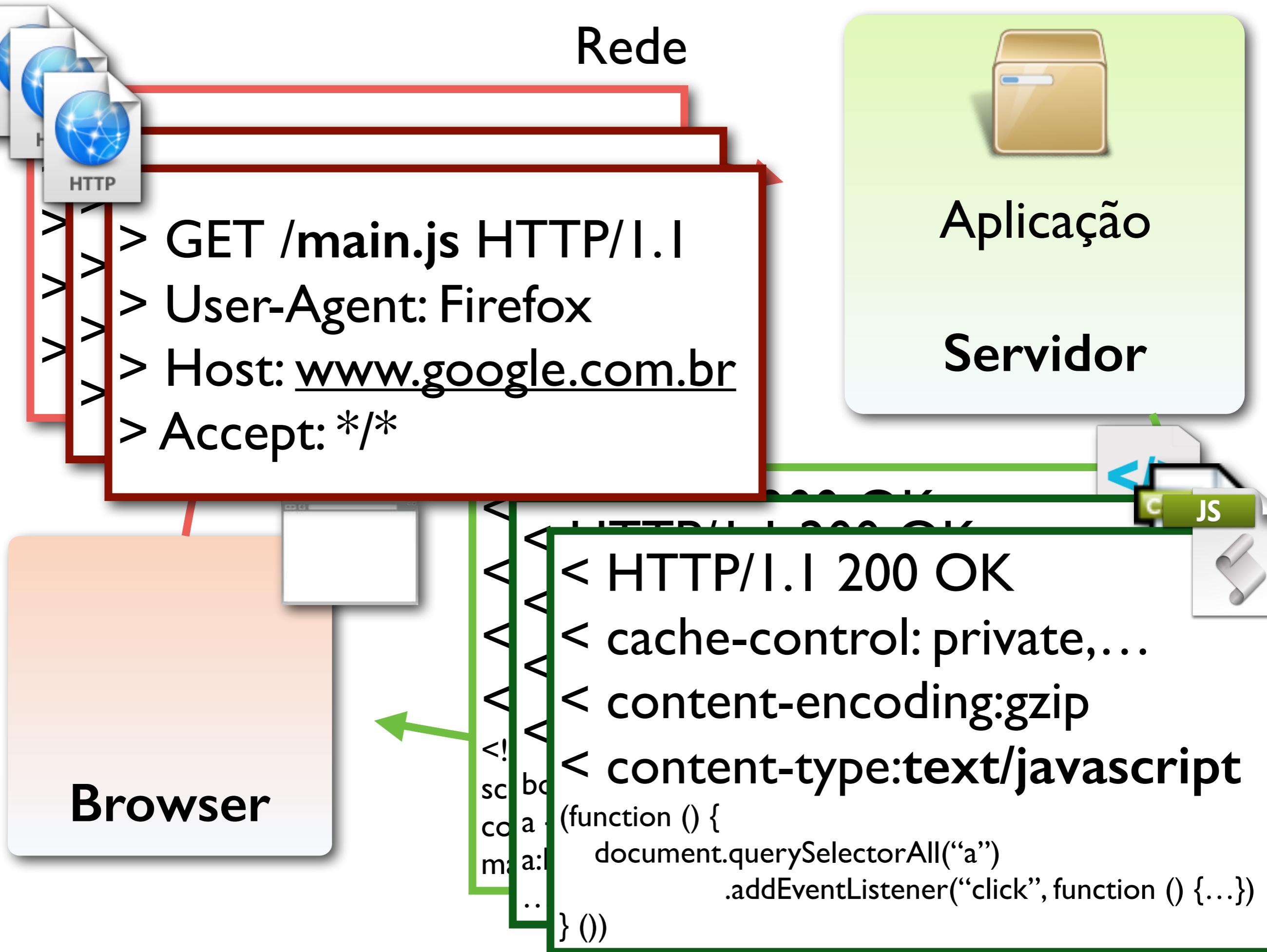
2005



Web 2.0

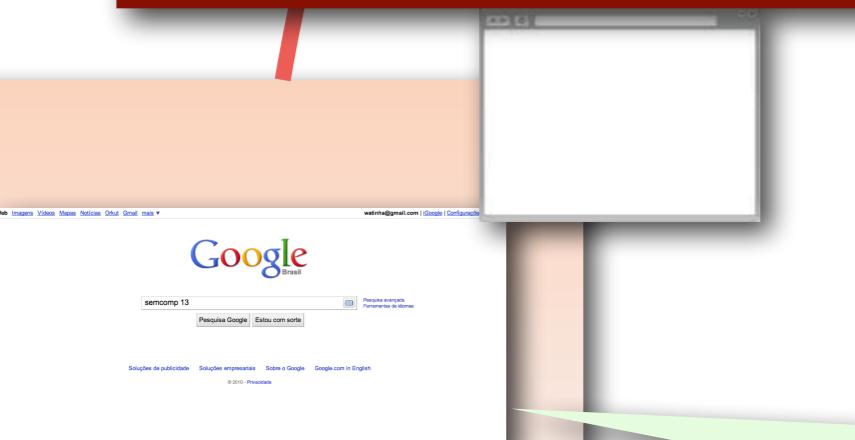
Movimento Ajax





Rede

HTTP
GET /main.js HTTP/1.1
User-Agent: Firefox
Host: www.google.com.br
Accept: */*

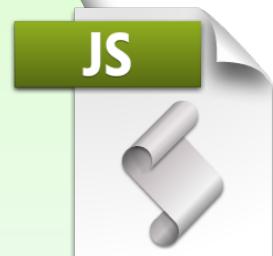


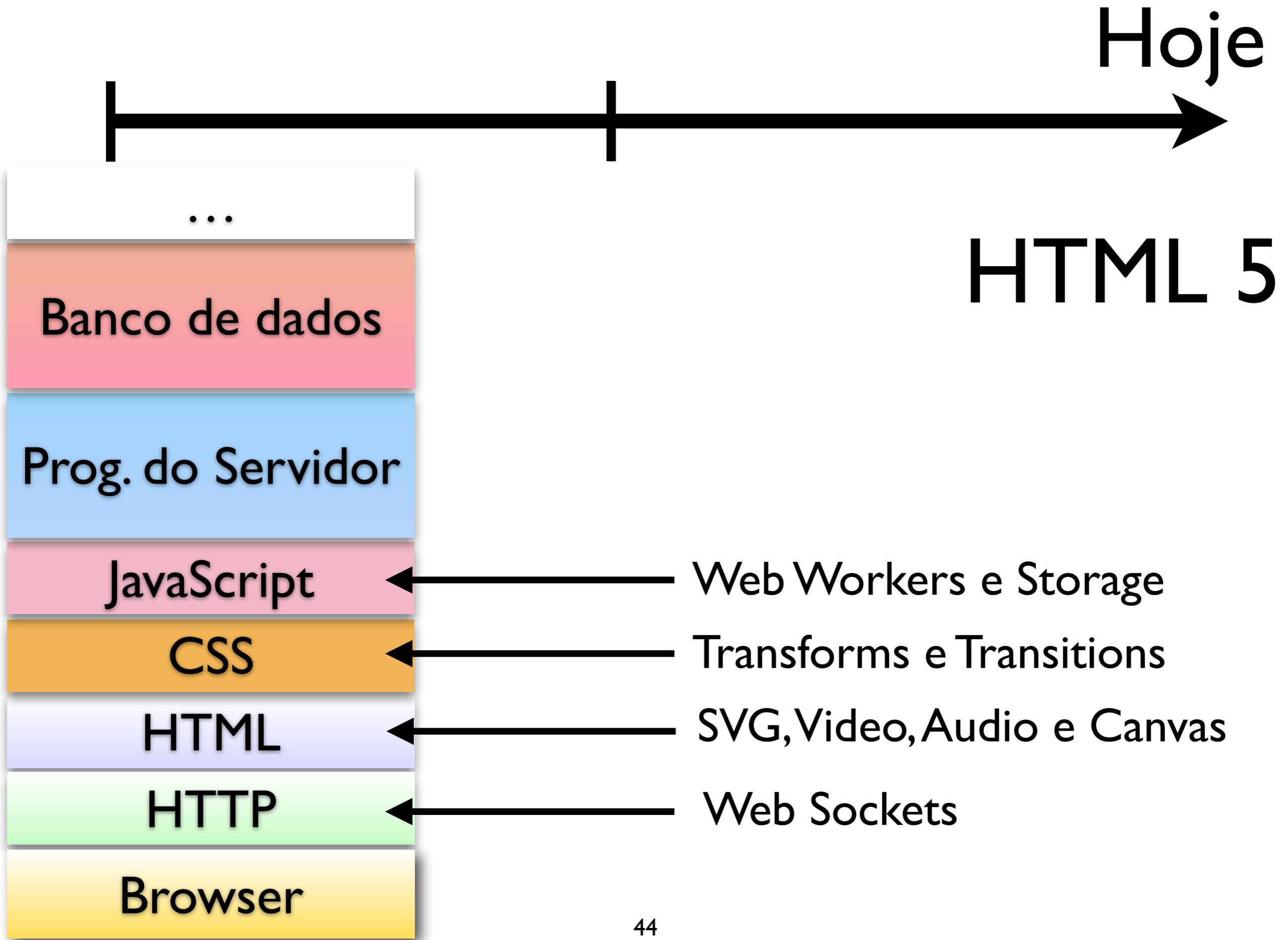
Browser

Aplicação Servidor

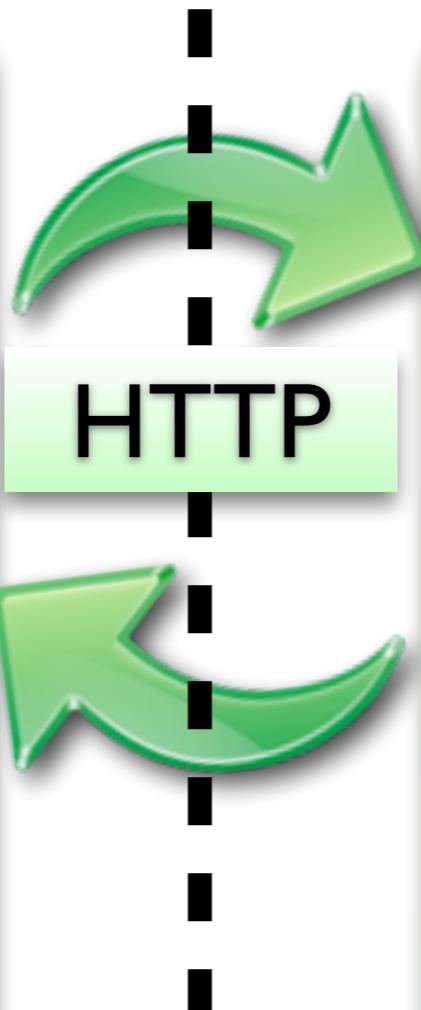


Processa eventos e
implementação de rotinas
utilizando a linguagem JavaScript





Rede



JavaScript

CSS

HTML

Cliente

Browser

Banco de dados

Prog. do Servidor

Servidor

Sumário da aula

- HTML, HTTP e o Browser
- Evolução das tecnologias web

Onde procurar ajuda?

- <http://w3schools.com>
- <http://www.w3.org/TR/REC-html40/>
- <http://www.w3.org/Protocols/rfc2616/rfc2616.html>
- <http://www.html5rocks.com/>
- <http://ajaxpatterns.org/Patterns>
- <http://www.caelum.com.br/apostila-java-web/>

Referências

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