

CES 26 - 2020 Desenvolvimento de Aplicações para a Internet

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Objetivos

- Apresentação do conteúdo e escopo do curso.
- ·Método
- Avaliação
- ·Introdução a WWW.
- ·Arquitetura de aplicações para a WWW.



Conteúdo



- Navegador como plataforma de software
- HTML 5 e CSS
- Javascript
- DOM (Document Object Model)
- Bibliotecas e Frameworks Javascript
- SPA (Single Page Application)
- React
- React Native
- Servidor como plataforma de Software
- NodeJs
- Módulos Node
- Segurança de aplicações
- Ameaças e vulnerabilidades
- Ataques mais comuns
- SSL/TLS





Método de Aprendizado

- PBL (Project Based Learning)
- Os alunos em grupo irão explorar o conhecimento através de projetos.
- Serão fornecidos apresentações com os principais tópicos a serem explorados.
- Os alunos deverão criar programas para exercitar o conhecimento.
- Através de tutoriais, disponíveis na Internet, o aluno poderá encontrar mais detalhes sobre cada tecnologia.



Avaliação

1.0 Bimestre:

- Séries com Programas
- Projeto Exploratório
- Apresentação Inicial, Intermediária, Final
- Documentação no Github
- Programa Executável na Nuvem.

2.0 Bimestre:

- Séries com Programas
- Projeto Final
- Apresentação Inicial e Intermediária

Exame:

- Documentação no Github
- Programa Executável na Nuvem.
- Apresentação Final





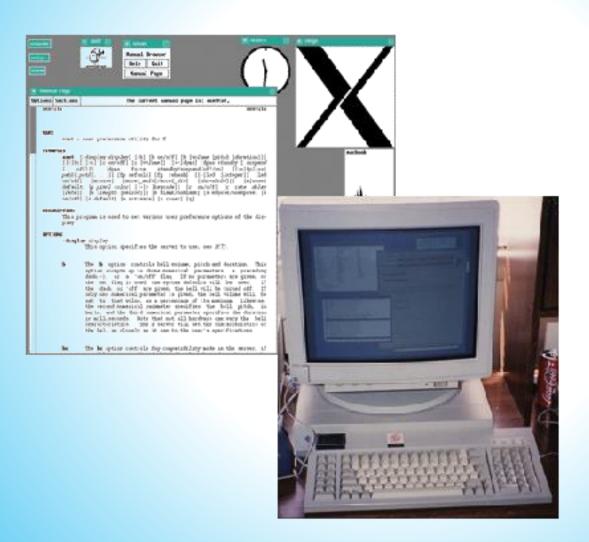


Introdução a Web



Início da WEB





X-Windows System usado em Unix Workstations no início dos anos 90

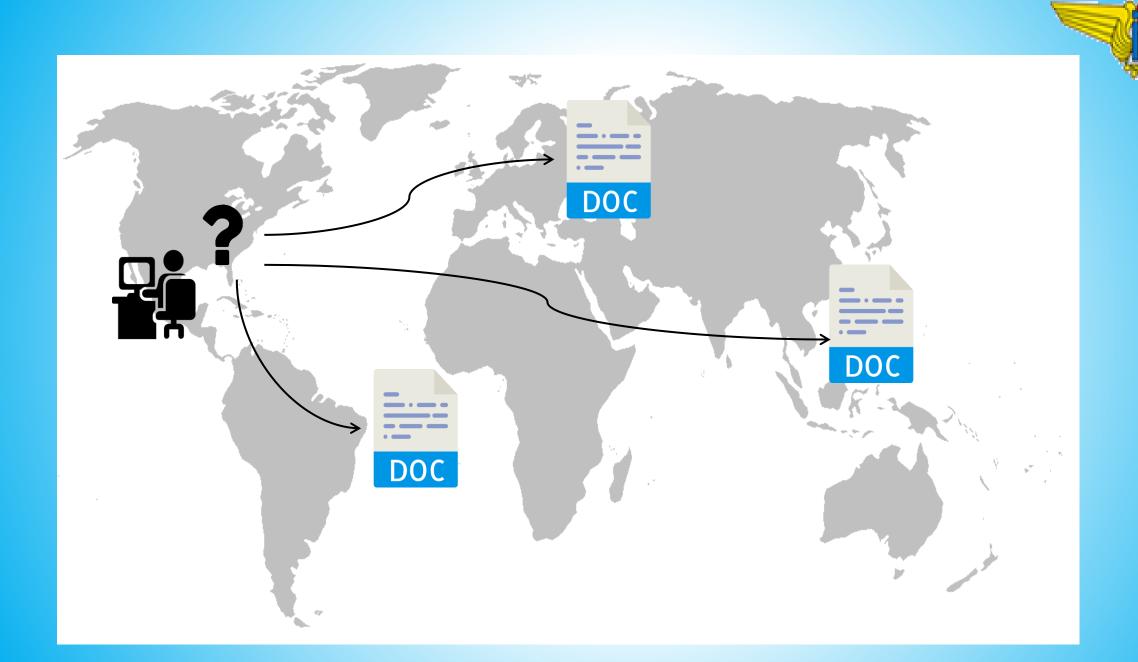


Internet nos anos 90



```
Telnet telehack.com
Connected to TELEHACK port 36
It is 4:12 am on Tuesday, August 25, 2015 in Mountain View, California
There are 26 local users. There are 24906 hosts on the network.
May the command line live forever.
Command, one of the following:
                                            basic
                                                         cal
                              advent
                                                                       calc
                clear
  ching
                              clock
                                            cowsay
                                                         date
                                                                        echo
  eliza
                factor
                              figlet
                                            finger
                                                          fnord
                                                                        geoip
  help
                              ipaddr
                                                          login
                hosts
                                            joke
                                                                        md5
                             notes
                                                         phoon
                                                                        pig
  morse
               newuser
                                            octopus
                                                                       rfc
                                                         rand
  ping
                primes
                              privacy
                                            rain
  rig
                roll
                              rot13
                                            sleep
                                                         starwars
                                                                        tracerou
  units
                uptime
                                                                        uupath
                             usenet
                                            users
                                                         uumap
                                                         zork
  uuplot
                weather
                              when
                                                                        zrun
.eliza
HELLO, I AM ELIZA.
Hi!
```

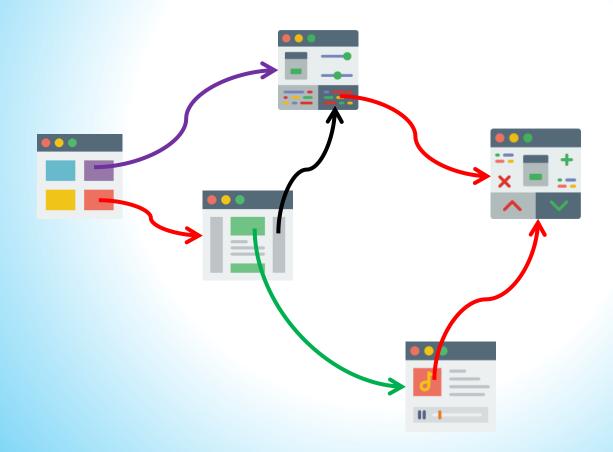
```
slrn prel.0.0-18 ** Press '?' for help, 'g' to guit. ** Server: localhost
                                 House for rent
             18: [WESTINE@USC-]
                                 RFC 780 now available
2 D
 [0/2 unread] Group: fa.arpa-bboard
                                                             -- 2/2 (All)
 Path: utzoo!duke!mhtsa!eagle!ucbvax!WESTINE@USC-ISIF
 ate: Tue May 19 16:46:46 1981
Subject: RFC 780 now available
 rom: WESTINE@USC-ISIF
 (-OldUsenet-Modified: added From: converted from A-news: fixed Message-ID: added
 (ref: dummy dummy:1
     A new RFC is now available in the NIC online library at SRI-KL.
      RFC 780:
         Title: Mail Transfer Protocol
        Author: S. Sluizer and J. Postel
        Pages: 43
           pathname: [SRI-KL]<NETINFO>RFC780.TXT
        Defines the new Mail Transfer Protocol (MTP) to be used for
        Internet Text Mail. Designed to be used with both TCP and NCP.
     Public access files may be copied from the NIC library at SRI-KL
     via FTP with username NICGUEST and password ARPA.
      --jon.
 4 : RFC 780 now available
                                                             -- 3/27 (96%)
 SPC:Pgdn B:PgUp u:Un-Mark-as-Read f:Followup n:Next p:Prev q:Quit
```







Hypertext







Douglas Engelbart





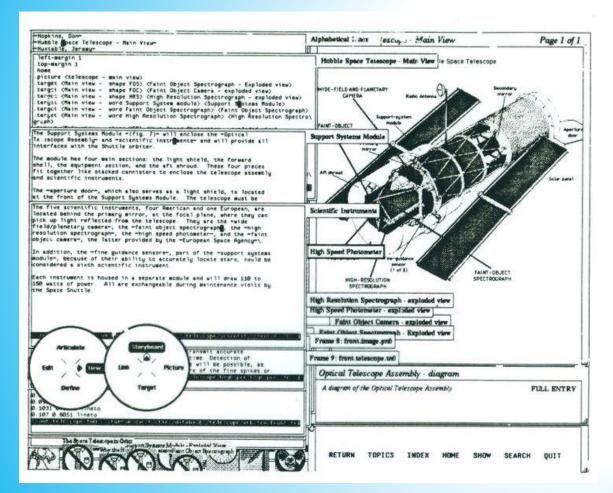


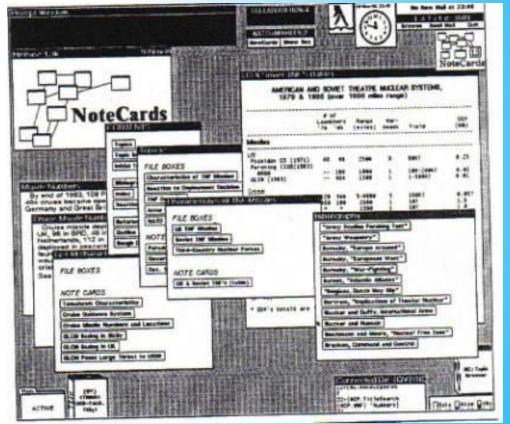
SRI International/Wikipedia



Hypertext Systems







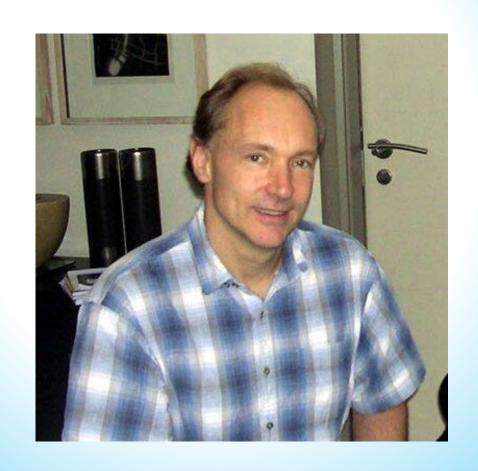
Xerox Notecards







Tim Bernes-Lee





CERN







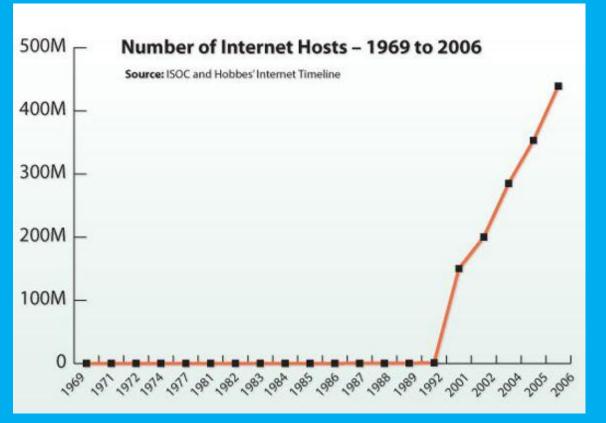




Global Hypertext System World Wide Web



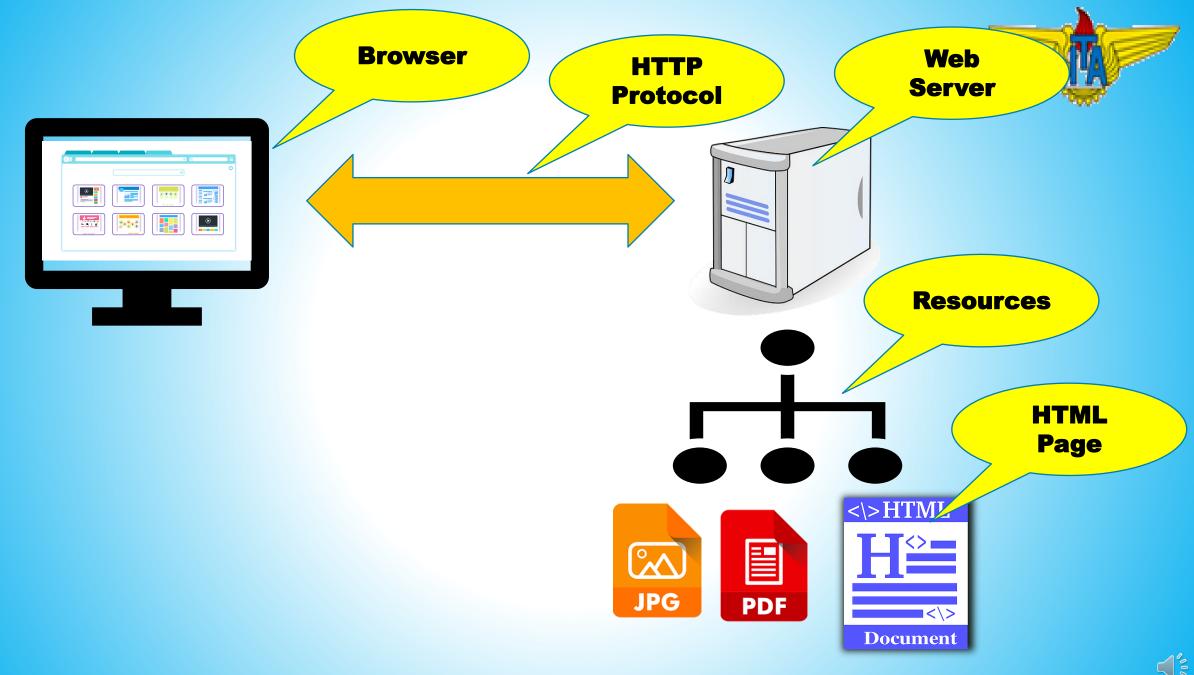
Com a WWW o mundo é conectado à Internet















Browser

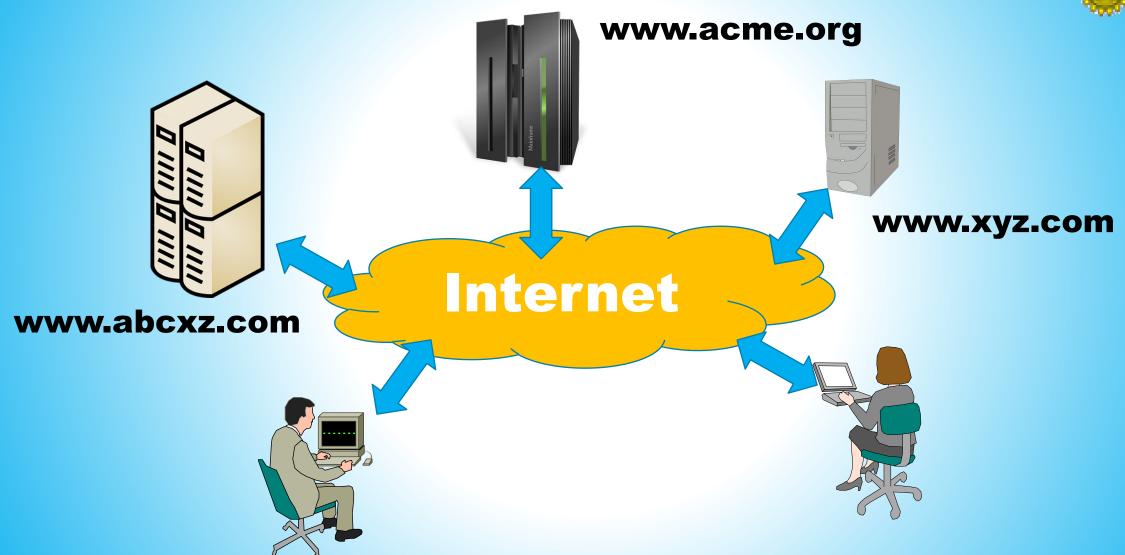






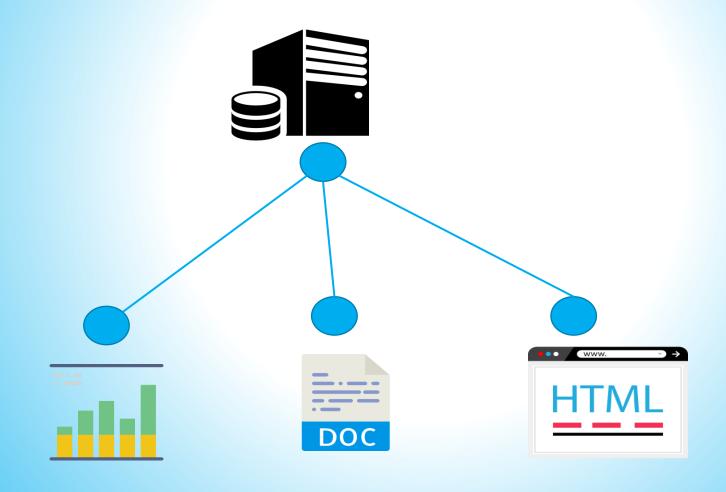
Web Server





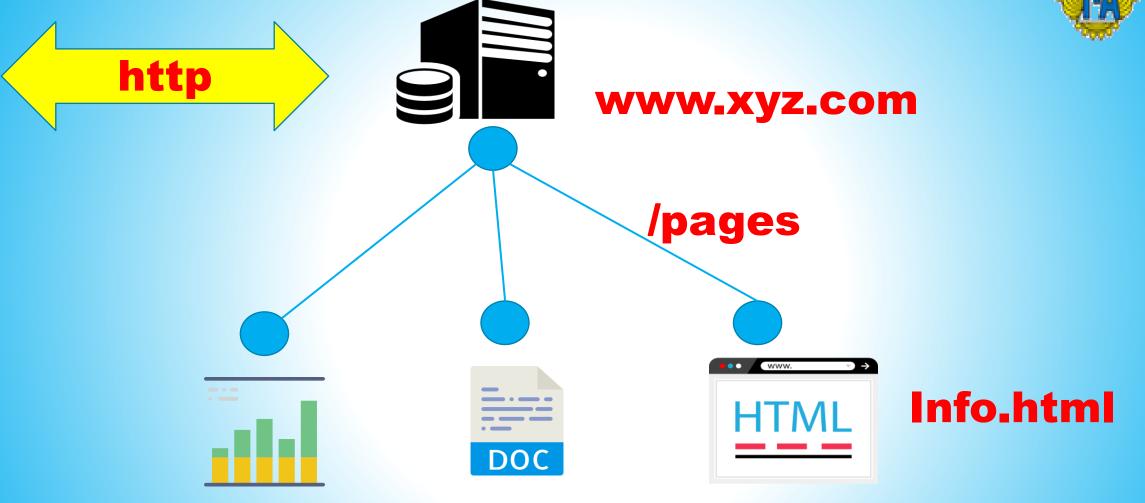


Web Server and Resources











http://www.xyz.com/pages/Info.html





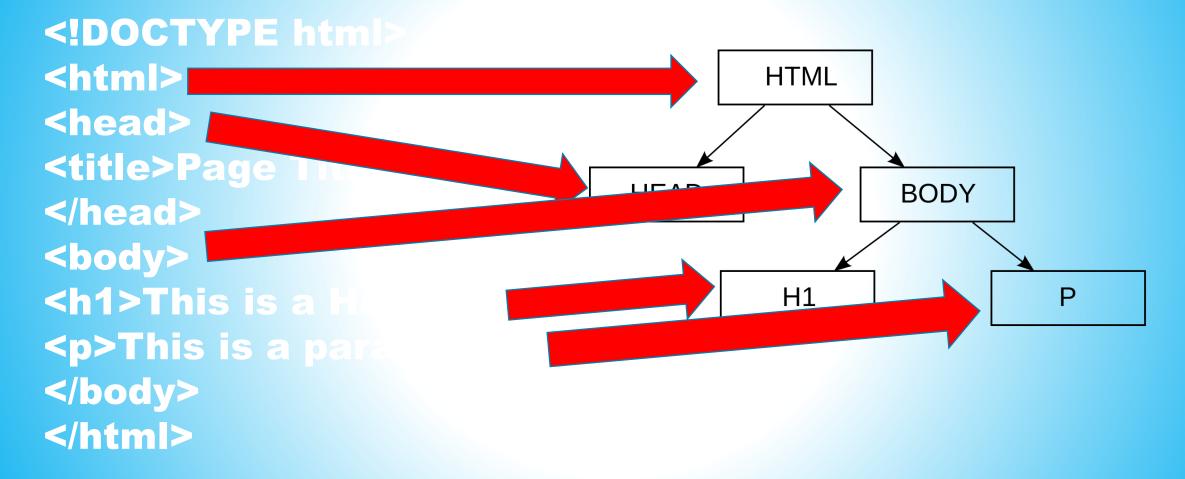
HTML Page

```
tlass="container">
    class="row">
        class="col-md-6 col-lg-8"> <!--
                                                     BEGIN NAVIGATION
       <nev id="nav" role="navigation">
            a href="index.html">Home</a>
                a href="home-events.html">Home Events</a>
                href="multi-col-menu.html">Multiple Column Men
                class="has-children"> <a href="#" class="current";</pre>
                     <l
                         <a href="tall-button-header.html">Tall But
                        <a href="image-logo.html">Image Logo</a></a></a>class="active"><a href="tall-logo.html">Ta</a></a>
                    class="has-children"> <a href="#">Carousels</a>
                          lica href="variable-width-slider.html">Variab
                    <l
```













This is a Heading

This is a paragraph.



HTML is a Markup Language



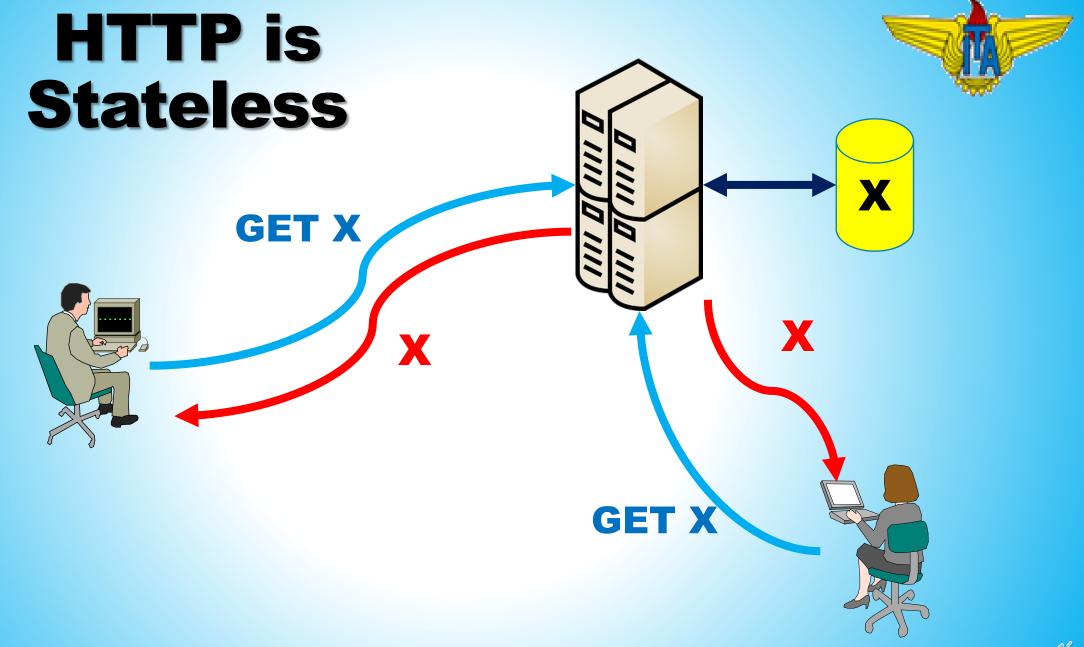
```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<h1>This is a Heading</h1>
This is a paragraph.
</body>
</html>
```



HTTP (Hypertext Transfer Protocol)





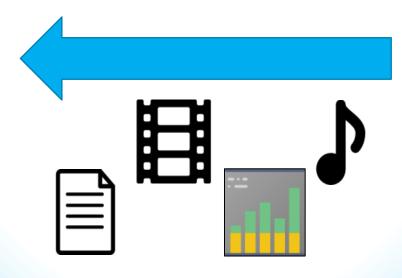
















HTTP Request Example

GET /FirstServletProject/jsps/hello.jsp

HTTP/1.1

Host: localhost:8080

Cache-Control: no-cache



HTTP Response Example

200 OK

</html>

Date: Wed, 07 Aug 2013 19:55:50 GMT

Server: Apache-Coyote/1.1

Content-Length: 309

Content-Type: text/html;charset=US-ASCII

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01</pre>
Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;</pre>
charset=US-ASCII">
<title>Hello</title>
</head>
<body>
<h2>Hi There!</h2>
<br>
<h3>Date=Wed Aug 07 12:57:55 PDT 2013
</h3>
</body>
```



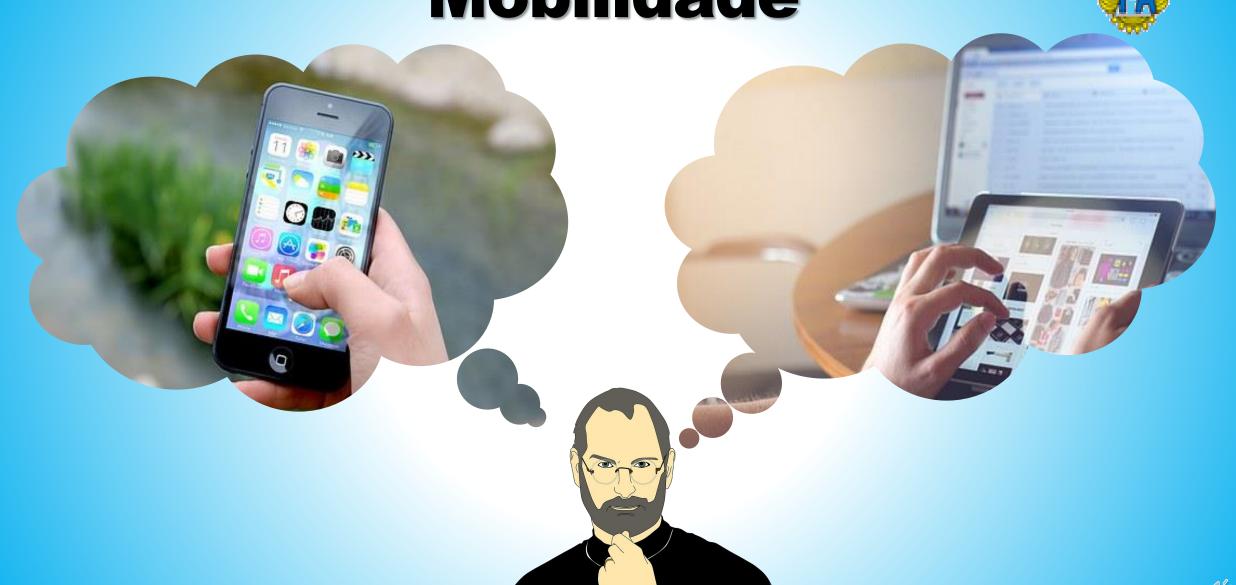


Todos os sistemas migraram para a Web













Big Systems

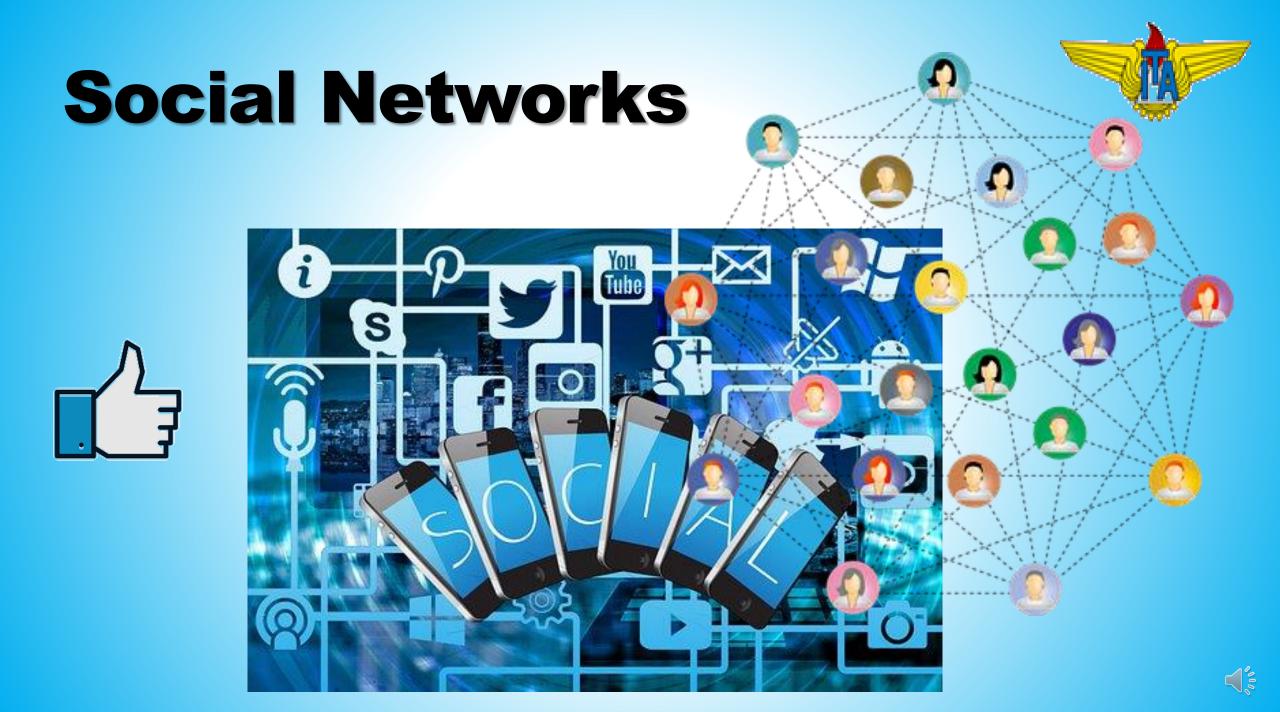














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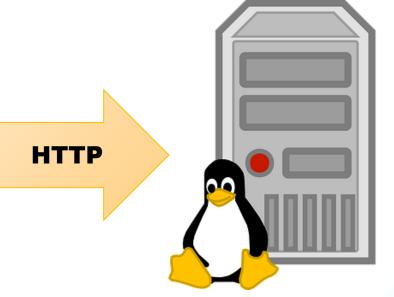
Arquitetura de Aplicações



Client



Server





BACK END Development

FRONT END Development







Próximo Slide HTML, CSS, DOM e Javascript