

## *Laboratorio di Informatica*

### *Lezione 10: Cosa vogliamo fare adesso?*

Mettere a frutto le conoscenze acquisite

13-02-2004

### *Obiettivo primario*

⇒ Utilizzare insieme tre diversi linguaggi di programmazione:

- Java
- C
- HTML

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 2

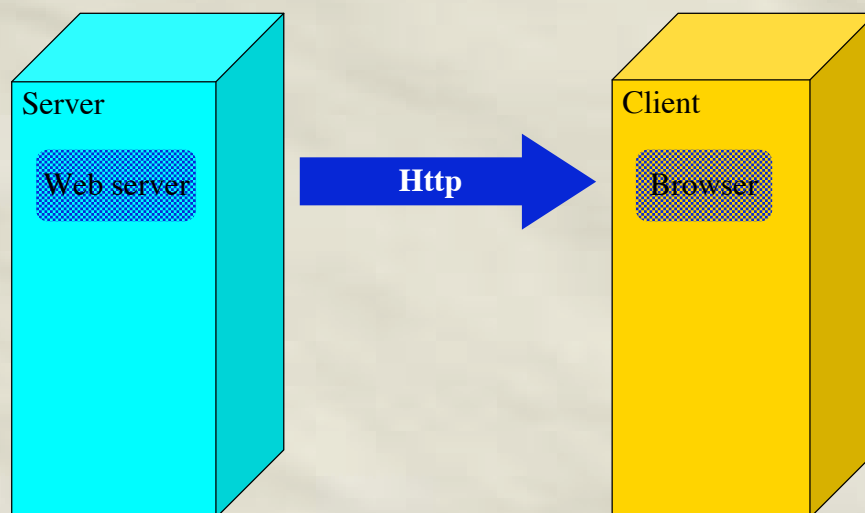
## *Obiettivi secondari*

- ⇒ Cominciare ad imparare a gestire progetti software
- ⇒ Integrare le conoscenze acquisite
- ⇒ Progettare algoritmi
- ⇒ Usare le strutture dati

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 3

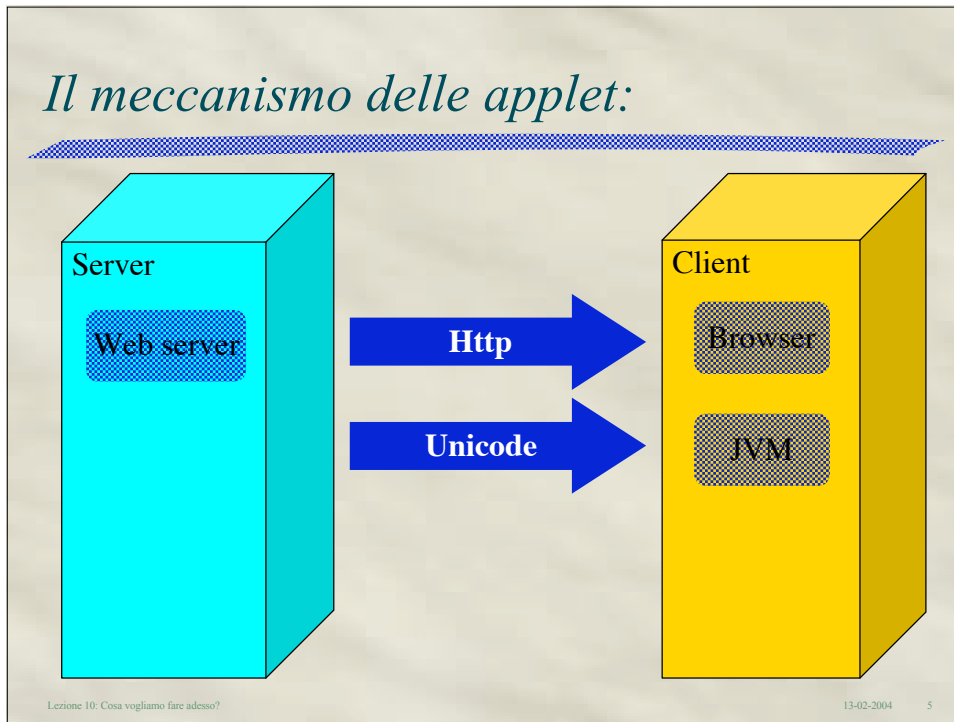
## *L'interazione server-browser: i modelli visti finora*



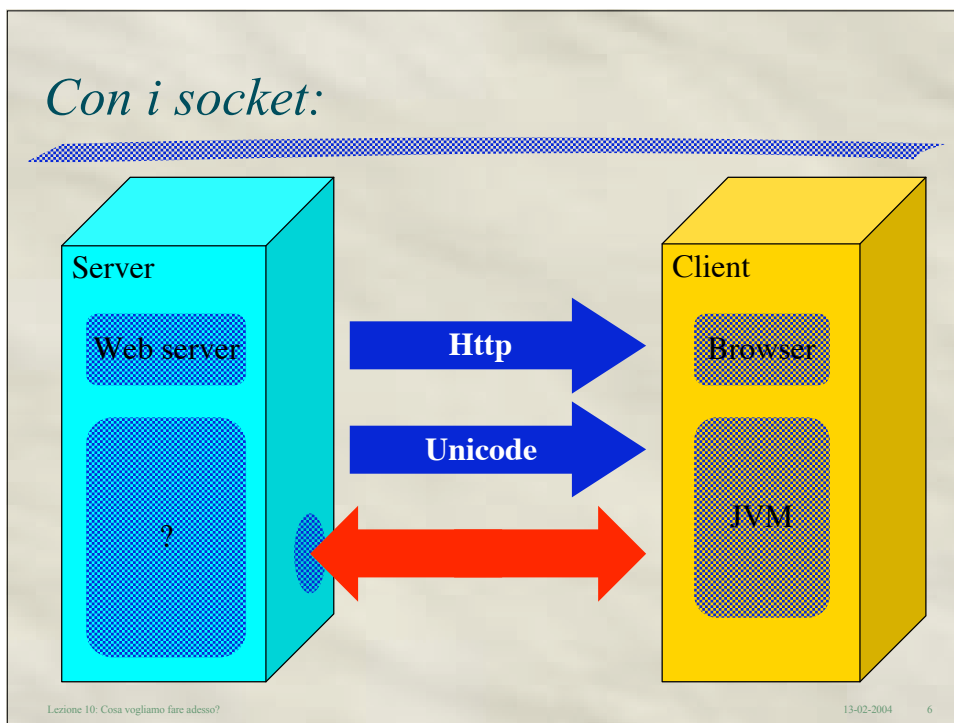
Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 4

*Il meccanismo delle applet:*



*Con i socket:*



## *Prima descrizione del problema*

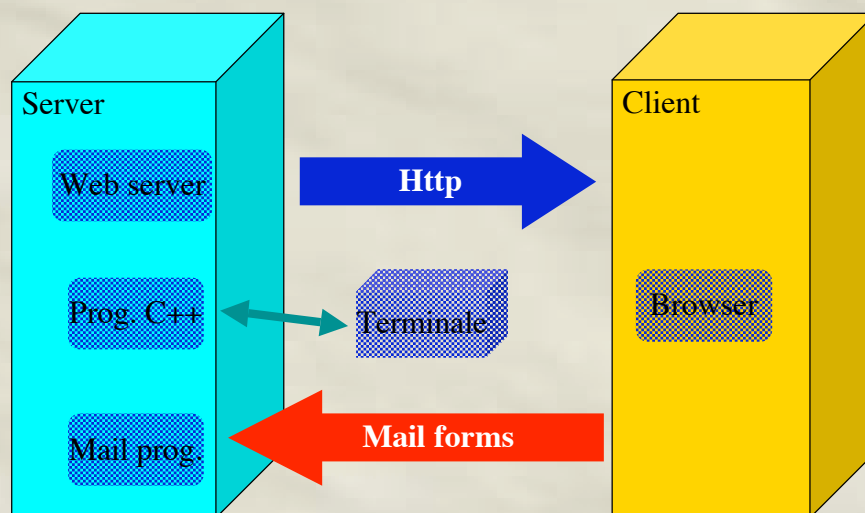
⇒ Costruire (in C) un programma “generico” che permetta:

- Di ricevere e di elaborare in maniera sistematica e formalmente corretta dati provenienti da browser remoti;
- Di fornire informazioni consultabili remotamente tramite HTTP;
- Che offra alcune funzioni ausiliarie (in Java)

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 7


## *Un modo per ottenere questo è...*



Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 8

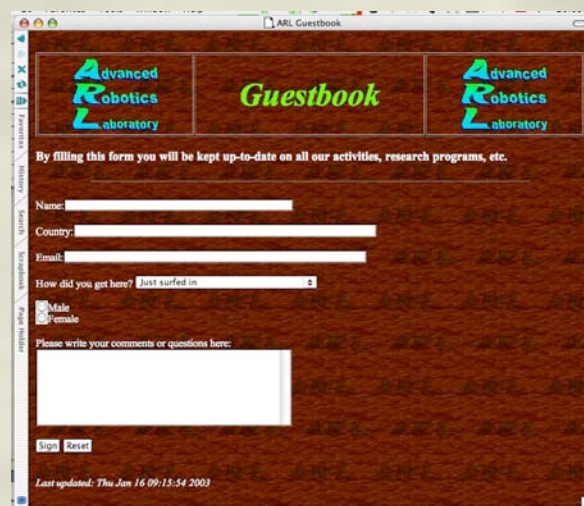
## Cosa dobbiamo imparare in HTML

- ⇒ Alcuni comandi grafici
- ⇒ I menu a tendina
- ⇒ Il meccanismo dei **form**
- ⇒ L'esistenza di JavaScript
- ⇒ Esaminiamo tutto questo con un esempio pratico: 

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 9

## Un form...



The screenshot shows a web browser window titled "ARL Guestbook". The page has a dark wood-grain background. At the top, there are three logos for "Advanced Robotics Laboratory". Below the logos, the text reads: "By filling this form you will be kept up-to-date on all our activities, research programs, etc." The form contains the following fields and elements:

- Name:
- Country:
- Email:
- How did you get here?
- Gender:  Male  Female
- Please write your comments or questions here:
- Buttons:
- Footer: Last updated: Thu Jan 16 09:15:54 2003

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 10

## ...e il suo codice (1)

```

<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
<html>
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
  <meta name="GENERATOR" content="Mozilla/4.7 (Macintosh; I; PPC) [Netscape]">
  <meta name="Author" content="Riccardo Cassinis">
  <meta name="Content-Type" content="text/html; charset=iso-8859-1">
  <title>ARL Guestbook</title>
</head>

<body text="#FFFFFF" bgcolor="#993300" link="#FFFFFF" vlink="#C0C0C0" alink="#C0FFC0" background="sfar1sc.gif">
&nbsp;

<table BORDER WIDTH="100%" >
<tr ALIGN=CENTER VALIGN=CENTER>
<td><img SRC="scrilab.gif" ALT="Advanced Robotics Laboratory" BORDER=0 height=117 width=142 align=CENTER></td>
<td><b><i><font color="#66FF00"><font size=+4>Guestbook</font></i></b></td>
<td><img SRC="scrilab.gif" ALT="Advanced Robotics Laboratory" BORDER=0 height=117 width=142 align=CENTER></td>
</tr>
</table>

<h3>
By filling this form you will be kept up-to-date on all our activities, research programs, etc.
</h3>

<center>
<hr WIDTH=80%>
</center>

```

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 11

## ...e il suo codice (2)

```

<!-- This is the start tag for the form. Change the email address to your own -->
<form ACTION=MAILTO:riccardo.cassinis@unibs.it METHOD=POST>

<!-- This is a hidden field which sends the text 'subject: Demo guestbook' so we know from which form we got this.
You don't need a field like this, but it can be useful. -->
<input NAME="subject" TYPE="hidden" VALUE="Mail from ARL guestbook">

<!-- This is a standard text field which has the width of 45 characters. -->
Name:<input TYPE="text" NAME="name" SIZE=56 MAXLENGTH=56>
<p>
<!-- This is another textfield where the user can type in his or her country. -->
Country:<input TYPE="text" NAME="country" SIZE=56 MAXLENGTH=56>
<p>
<!-- This is another textfield where the user can type in his or her email. -->
Email:<input TYPE="text" NAME="email" SIZE=56 MAXLENGTH=56>
<p>
<!-- This is a popup field where the user can choose an item. -->
How did you get here?
<select NAME=from>
<option VALUE="mail message">I found the address in a mail message
<option VALUE="search engine">From a search engine
<option VALUE="university site">From Brescia University web site
<option VALUE="a link">From a link on another page
<option VALUE="just surfed in" SELECTED>Just surfed in
</select>
<p>
<!-- This is two radiobuttons where the user can choose an item, for example sex. -->
<input TYPE="radio" NAME="sex" VALUE="male">Male
<br>
<input TYPE="radio" NAME="sex" VALUE="female">Female
<p>

```

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 12

## ...e il suo codice (3)

```

<!-- This is a textfield where the user can type in some comments about your page.. -->
Please write your comments or questions here:
<br>
<textarea NAME="comments" COLS=60 ROWS=8 WRAP="soft"></textarea>
<p>
<!-- At last, we have a 'sign' button and a 'reset' button which will clear the form. -->
<input TYPE="submit" VALUE="Sign">
<input TYPE="reset" VALUE="Reset">
<!-- Finally, don't forget to end the form using the end tag. -->
</form>

<br>

<script LANGUAGE="JavaScript">
<!-- Hide this script from incompatible Web browsers! -->
document.writeln("<i>Last updated: ", document.LastModified)
document.writeln("</font></i> ")
// Hide this script from incompatible Web browsers! -->
</script>

</body>
</html>

```

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 13

## Ho aperto un account per fare i nostri esperimenti:

⇒ URL: <http://members.fortunecity.com/labinfobs>

⇒ FTP:

- Host: ftp.fortunecity.com
- User ID: labinfobs
- Password: 30elode
- Directory: ...

⇒ Prima pagina: index.html

⇒ Disponibilità: 15 MByte

Lezione 10: Cosa vogliamo fare adesso?

13-02-2004 14