

Curs 2

2018/2019

Programarea aplicațiilor web

Introducere

- Programarea aplicațiilor web
 - An V RC
 - 2C/1L/1P

Nota

- An V
 - 33% E
 - 66% Aplicatii
 - 33% L (0%)
 - 33% P (66%)

Documentatie

- <http://rf-opto.etti.tuiasi.ro> + WWW



The screenshot displays the website for RF-OPTO at ETTI. The header features the RF-OPTO logo, the ETTI logo, and the University of Technical Sciences (UTS) logo. Below the header is a navigation menu with links for Main, Courses, Master, Staff, Research, and Students. A secondary menu lists Radiocommunication Systems, Microwave IC, and Web Design. The main content area is titled "Modern Web Applications Design" and provides details for the course TPAW (2014-2015), including the coordinator, code, discipline type, credits, and enrollment year. It also lists activities, evaluation methods, grades, attendance, and materials.

RF-OPTO

English | Romana

Main Courses **Master** Staff Research Students

Radiocommunication Systems Microwave IC Web Design

Modern Web Applications Design

Course: TPAW (2014-2015)

Course Coordinator: Assist.P. Dr. Radu-Florin Damian
Code: DS507RC
Discipline Type: DOMS; Alternative, Synthesis
Credits: 7
Enrollment Year: 5, Sem. 10

Activities

Course: Instructor: Assist.P. Dr. Radu-Florin Damian, 2 Hours/Week, Specialization Section, Timetable:
Laboratory: Instructor: Assist.P. Dr. Radu-Florin Damian, 1 Hours/Week, Half Group, Timetable:

Evaluation

Type: **Examen**

A: 33.33%, (Test/Colloquium)
B: 33.33%, (Seminary/Laboratory/Project Activity)
D: 33.33%, (Homework/Specialty papers)

Grades

Not yet

Attendance

Not yet

Materials

Course Slides

Fotografii

Studentii care au trimis fotografiile 🙌👍

Grupa: 5402

Nr.	Nume
1	<u>APETRII MARIA</u>

Grupa: 5403

Nr.	Nume
1	<u>ALEXANDRESCU SEBASTIAN</u>

Grupa: 5404

Nr.	Nume
1	<u>APERGHIS MIHAI-ALIN</u>

Grupa: 5405

Nr.	Nume
1	<u>ANGHELUS MARIU</u>

Studentii care **inca** nu au trimis fotografiile 🙄

Grupa: 5304

Nr.	Nume
-----	------

Grupa: 5402

Nr.	Nume
-----	------

Grupa: 5403

Nr.	Nume
-----	------

Grupa: 5404

Nr.	Nume
-----	------

Fotografii



Date:

Grupa	5304 (2015/2016)
Specializarea	Tehnologii si sisteme de telecomunicatii
Marca	5184

[Trimite email acestui student](#) | [Adauga acest student la lista \(0\)](#)

Detalii curente

Observatii

Finantare	Buget
Bursa	Fara Bursa



Date:

Grupa	5304 (2015/2016)
Specializarea	Tehnologii si sisteme de telecomunicatii
Marca	5244

[Trimite email acestui student](#) | [Adauga acest student la lista \(0\)](#)

Detalii curente

Observatii

Finantare	Buget
Bursa	Bursa de Studii



Date:

Grupa	5304 (2015/2016)
Specializarea	Tehnologii si sisteme de telecomunicatii
Marca	5184

[Acceseaza ca acest student](#)

Note obtinute

Disciplina	Tip	Data	Descriere	Nota	Puncte	Obs.
TW	Tehnologii Web					
	N	17/01/2014	Nota finala	10	-	
	A	17/01/2014	Colocviu Tehnologii Web 2013/2014	10	7.55	
	B	17/01/2014	Laborator Tehnologii Web 2013/2014	9	-	
	D	17/01/2014	Tema Tehnologii Web 2013/2014	9	-	

Fotografii

Nr. Student	Student	Prezent	Nr. Student	Student	Prezent	Nr. Student	Student	Prezent
1	ANGHELUS IONUT-MARIUS	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:	2	ANTIGHIN FLORIN-RAZVAN	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:	3	ANTONICA BIANCA	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:
4	APOSTOL PAVEL-MANUEL	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:	5	BALASCA VALIAN-PETRU	<input checked="" type="checkbox"/> Puncte: 0 Nota: 0 Obs:	6	BOSTAN ANDREI-PETRICIA	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:
7	BOTZAT EMANUEL	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:	8	BUTUNOI GEORGE-MADALIN	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:	9	CHILEA SALUCA-MARIA	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:
10	CHERITOIU ECATERINA	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:	11	COJOC MARIUS	<input checked="" type="checkbox"/> Puncte: 0 Nota: 0 Obs:	12	COJOCARIU AURA-FLORINA	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:

Nr. Student	Student	Prezent
2	ANTIGHIN FLORIN-RAZVAN	<input type="checkbox"/> Puncte: 0 Nota: 0 Obs:

Acces

■ Personalizat



Date:

Grupa	5304 (2015/2016)
Specializarea	Tehnologii si sisteme de telecomunicatii
Marca	5184

[Acceseaza ca acest student](#)

Note obtinute

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B		17/01/2014	Laborator Tehnologii Web 2013/2014	9	-	
D		17/01/2014	Tema Tehnologii Web 2013/2014	9	-	

Nume

Email

Cod de verificare

Trimite

CURS

I.	HTML si XHTML (recapitulare)	1 oră
II	CSS	2 ore
III	Baze de date, punct de vedere practic	1 oră
IV	Limbajul de interogare SQL	4 ore
V	PHP - HyperText Preprocessor	8 ore
VI	XML - Extended Mark-up Language si aplicatii	4 ore
VII	Conlucrare intre PHP/MySql, PHP/XML, Javascript/HTML	2 ore
VIII	Exemple de aplicatii	6 ore
	Total	28 ore

LABORATOR

I.	Implementarea unui sistem de dezvoltare a aplicatiilor Web, instalare PHP, MySql, Apache si legaturile dintre ele	2 ore
II	Design web avansat folosind CSS	2 ore
III	Interogarea unei baze de date. Exercitii SQL	2 ore
IV	Utilizare PHP I	2 ore
V	Utilizare PHP II	2 ore
VI	Utilizare PHP pentru accesul la o baza de date	2 ore
VII	Aplicatie distribuita complexa	2 ore
	Total	14 ore

HTML/XHTML

- Curs/Laborator/Proiect

- HTML 4.01 – 24.12.1999

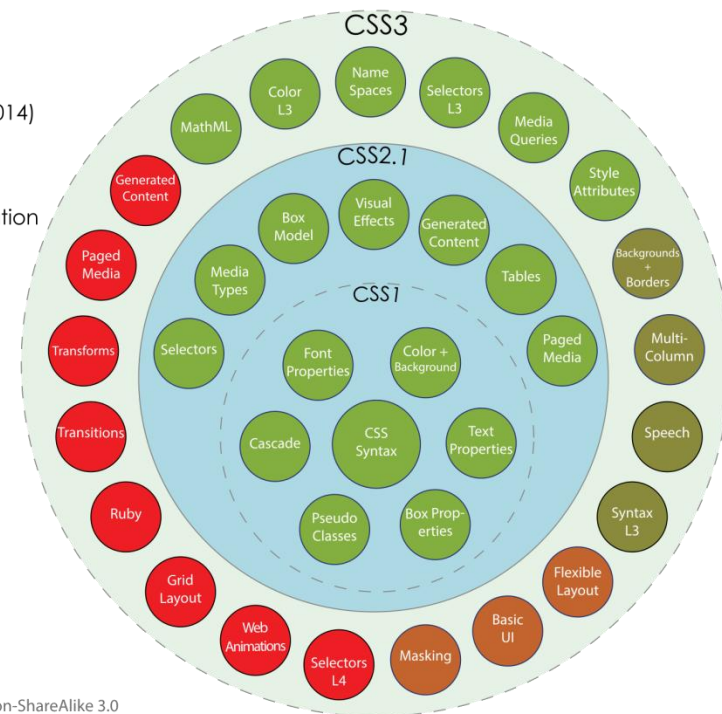
- XHTML 1.1 – Mai 2001

- CSS 2.1 – 2004-2007

CSS3

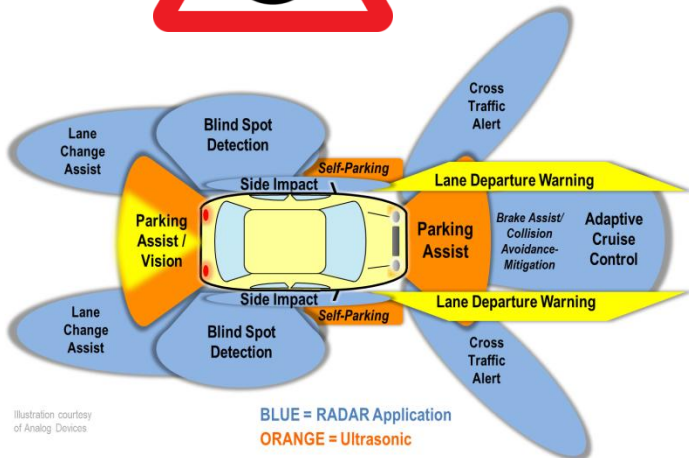
Taxonomy & Status (October 2014)

- W3C Recommendation
- Candidate Recommendation
- Last Call
- Working Draft
- Obsolete or inactive



Tehnologie

> 2010



< 1950



MOTTO

- “Universitatea nu e pentru mase locul de unde emana cunoasterea, ci un obstacol intre individ si diploma pe care i-a harazit-o destinul”
- “Universitatea fiind ceva care se interpune in mod imoral intre individ si dreptul lui natural de a fi diplomat, individul are obligatia morala sa triumfe asupra universitatii prin orice mijloace”
 - Sursa citat: Internet, user: “un student batran si plesuv”

BIBLIOGRAFIE

- **“Am mai facut odata ceva asemanator”**
- Internet
 - www.php.net
 - www.mysql.com
 - www.w3c.org
 - www.google.com
- rf-opto.etti.tuiasi.ro
 - cereti acces!

Capitolul I

Recapitulare HTML/XHTML

Necesitate

```
539         <td><?php echo $row['Documente'];?>&nbsp;</td>
540         <td><?php echo $row['user_creat'];?>&nbsp;</td>
541         <td class="smaller"><a href="control_lot.php?id=-<?php echo $row['ID_LOT'];?>">dezactiveaza</a><br /><a href=
"control_lot.php?id=<?php echo $row['ID_LOT'];?>">modifica</a></td>
542     </tr>
543     <?php $index++;
544     } while ( $row = mysql_fetch_assoc($result));?>
545 </table><?php
546 }
547 else
548 {
549     echo "<p>Nu exista loturi active</p>";
550 }
551 ?>
552
553 <p class="title">Loturi inactive</p>
554 <?php
555 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
556         FROM `lot` AS l
557         LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
558         WHERE l.`Activ` = 0 ORDER BY l.`ID_LOT` DESC";
559 $result = mysql_query($query);
560 $total=0;
561 if ($result && (mysql_num_rows($result) > 0))
562     {
563     $total=mysql_num_rows($result);
564     $row = mysql_fetch_assoc($result);
565     }
566 if ($total>0)
567 {?>
568 <table align="center">
569     <tr class="lista_titlu">
570         <td align="center">Nr. </td>
```

HTML Concepte 3

x
`<x> Continut afectat de x</x>`

Legal in
XHTML/HTML

x si atrib si val
`<x atrib="val"> Continut afectat de x si atrib si val </x>`

Legal in
XHTML/HTML

x
`<x> Continut <y> Continut afectat de x si y</y> afectat de x</x>`

Legal in
XHTML/HTML

x y
`<x> C. afectat de x <y> C. afectat de x si y </x> C. afectat de y</y>`
y

Legal **numai** in
HTML
nerecomandat

CURS

I.	HTML si XHTML (recapitulare)	1 oră
II	CSS	2 ore
III	Baze de date, punct de vedere practic	1 oră
IV	Limbajul de interogare SQL	4 ore
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VIII	Exemple de aplicatii	6 ore
	Total	28 ore

Web Design

Concepte generale

Concepte

- Steve Krug: “**Don't Make Me Think**”
- Utilizatorii scaneaza pagina, nu o citesc
- Informatia trebuie redusa la minimul necesar in majoritatea locurilor
- “Daca ceva e greu de utilizat, mai bine nu o utilizez”
- Utilizatorii au comportament de **rechin**
- Originalitatea **nu e** intotdeauna **recomandata**

Test – F Shape Reading Pattern

- Obisnuinta utilizatorilor de a urmari anumite zone de pe ecran



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Highlights ▶

- Latest releases
- Using your computer
- For Business
- For IT Professionals
- For Developers



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Customization

100% Organic Software

Tips & Tricks

Videos

Fastest Firefox

Top Features



Awesome Bar

improved Find the sites you love in seconds (and without having to remember clunky URLs).

Super Speed

new View Web pages way faster, using less of your computer's memory.

Private Browsing

new Surf the Web without leaving a single trace.

Password Manager

Remember site passwords without ever seeing a pop-up.

Anti-Phishing & Anti-Malware

improved Enjoy the most advanced protection against online bad guys.

Session Restore

improved Unexpected shutdown? Go back to exactly

One-Click Bookmarking

Bookmark, search and organize Web sites quickly and easily.

Easy Customization

improved Thousands of add-ons give you the freedom to make your browser your own.

Tabs

improved Do more at once with tabs you can organize with the drag of a mouse.

Instant Web Site ID

Avoid online scams, unsafe transactions and forgeries with

Browse By Category

- Security & Privacy
- Performance
- Customization
- Personal
- Productivity
- Tabs
- Search
- Universal Access
- The Cutting Edge
- Help

Get Firefox 3.5

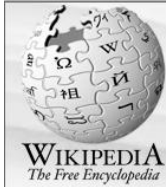
3.5.6, English (US), Windows (7.7MB)



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Wikipedia



navigation

- Main page
- Contents
- Featured content
- Current events
- Random article

search

interaction

- About Wikipedia
- Community portal
- Recent changes
- Contact Wikipedia
- Donate to Wikipedia
- Help

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link
- Cite this page

languages

- Afrikaans
- Alemannisch
- العربية
- Aragonés
- Azərbaycanca
- বাংলা
- Беларуская (тарашкевіца)
- Boarisch
- Bosanski
- Brezhoneg
- Български
- Català

article discussion edit this page history

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Please read:
A personal appeal from Wikipedia founder Jimmy Wales

HTML

From Wikipedia, the free encyclopedia

For the use of HTML on Wikipedia, see [Help:HTML in wikitext](#).

HTML, which stands for **Hyper Text Markup Language**, is the predominant [markup language](#) for [web pages](#). It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists etc as well as for links, quotes, and other items. It allows [images](#) and [objects](#) to be embedded and can be used to create [interactive forms](#). It is written in the form of [HTML elements](#) consisting of "tags" surrounded by [angle brackets](#) within the web page content. It can include or can load [scripts](#) in languages such as [JavaScript](#) which affect the behavior of HTML processors like [Web browsers](#); and [Cascading Style Sheets \(CSS\)](#) to define the appearance and layout of text and other material. The [W3C](#), maintainer of both HTML and CSS standards, encourages the use of CSS over explicit presentational markup.^[1]

Contents [hide]

- History
 - 1.1 Origins
 - 1.2 First specifications
 - 1.3 Version history of the standard
 - 1.3.1 HTML version timeline
 - 1.3.2 HTML draft version timeline
 - 1.3.3 XHTML versions
- Markup
 - 2.1 Elements
 - 2.1.1 Attributes
 - 2.2 Character and entity references
 - 2.3 Data types
 - 2.4 Document type declaration
- Semantic HTML
- Delivery
 - 4.1 HTTP
 - 4.2 HTML e-mail
 - 4.3 Naming conventions
 - 4.4 HTML Application
- Current variations
 - 5.1 SGML-based versus XML-based HTML
 - 5.2 Transitional versus strict
 - 5.3 Frameset versus transitional

HTML

(HyperText Markup Language)

Filename extension	.html, .htm
Internet media type	text/html
Type code	TEXT
Uniform Type Identifier	public.html
Developed by	World Wide Web Consortium & WHATWG
Type of format	Markup language
Extended from	SGML
Extended to	XHTML
Standard(s)	ISO/IEC 15445 W3C HTML 4.01 W3C HTML 5 (draft)

Regula nr. 1

Don't Make Me Think

Consideratii generale

Aplicatii

Aplicatii

Favorite BCC e-SMART

BANCA COMERCIALA CARPATICA **BCC e-SMART** internet banking inteligent

Conturi Plati Depozite **Rapoarte** Setari **Rulare raport** Vizualizare rapoarte

AJUTOR Deconectare

ATENȚIE!
Va reamintim ca BCC nu solicita informatii confidentiale (user, parola, numar de card, data expirarii cardului, codul PIN) prin e-mail.
Aceste informatii nu trebuie divulgate nimanui, sub niciun motiv.
Pentru alte lamuriri, puteti apela 0800.807.807 (numar accesibil din rețeaua Romtelecom).
Aveti posibilitatea sa alegeti procesarea in regim de urgenta a platilor. Aceasta optiune se comisiona suplimentar.

Rulare raport

Raport

Ruleaza raportul imediat
 la data 03.03.2010 ora 23:59

Ruleaza

top

surati activitate pe Internet, va rugam sa consultati periodic documentul [SECURITATE INTERNET](#) *** BCC informeaza ca SWIFT poate furniza autor

Aplicatii

The screenshot shows the BCR online banking interface. The browser address bar displays 'www.bcr.ro'. The navigation menu includes 'Home', 'Contact', 'English', 'Contact center', and search options. The main menu lists various services: 'CLICK 24Banking', '24 Banking', 'Persoane fizice', 'Private banking', 'Timeri', 'PFA', 'Micro', 'Corporatii', 'IMM', 'Municipalitati', 'Despre noi', 'Carriere', and 'Presa'. Below this, there are links for 'Lista de conturi', 'Conturi curente', 'Economisire', and 'Finantare'.

The left sidebar contains a 'Logout' button and a 'Favorite' dropdown menu. Below it is a list of navigation options:

- Ordin de Plata
- Istoricul tranzactiilor
- Lista ordine de plata
- Sabloane
- Plata repetitiva
- Schimb Valutar
- Cumpara produse
- Deschidere cont curent
- Constituire depozite la termen
- Deschidere cont de economii
- Cumparare CDD
- Ataseaza card de debit
- Aplica pentru un credit
- Curs valutar
- Mesaje(4)
- Contul meu de CLICK 24Banking (Favorite)
- Demo Click 24 Banking

The main content area is titled 'Ordin de Plata - Creare' and shows the date '03.03.2010 14:24:03' and a 'Help' icon. It features a table with the following data:

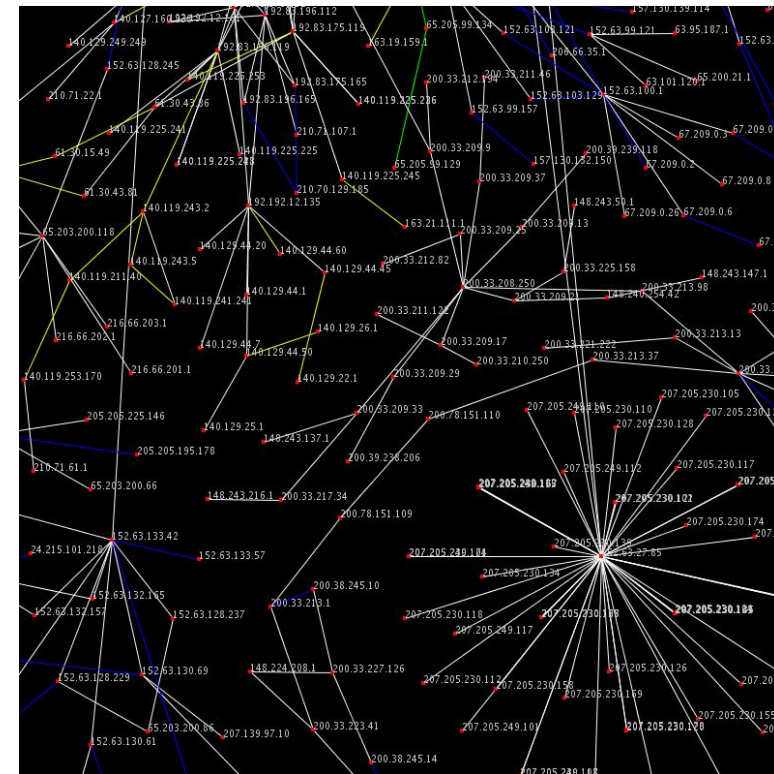
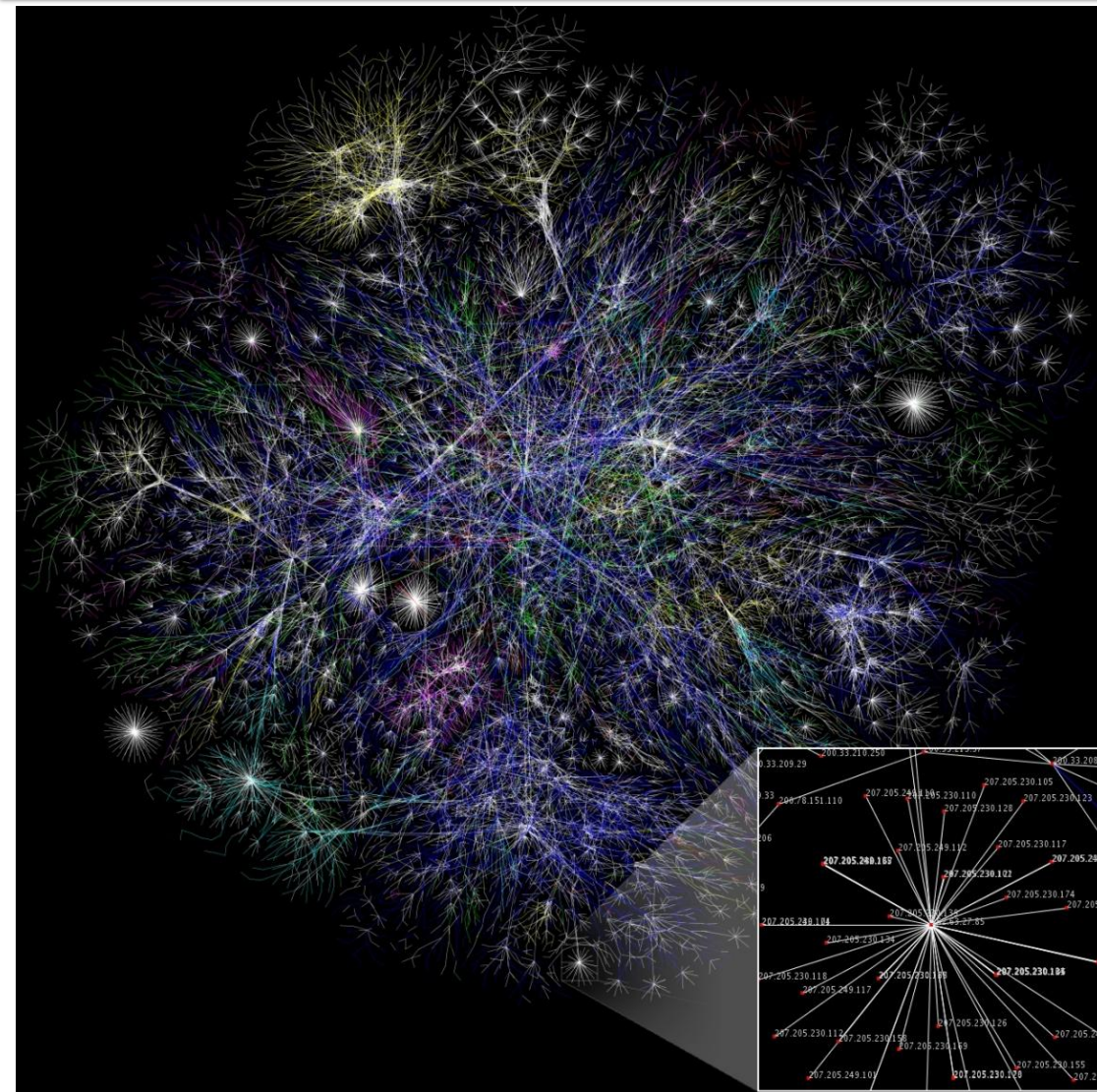
Stare cont	Tip	Numar cont	Sold disponibil	Valuta
Activ	Conturi curente	[Redacted]	[Redacted]	RON

Below the table is a 'Detalii' section with dropdown menus for 'Sablon personal' and 'Sablon furnizor', and a text input field for 'IBAN beneficiar'. A 'Verificare IBAN' button is also present. A note states: 'Nota: Pentru a ordona o plata, va rugam fie sa introduceti IBAN beneficiar, fie sa selectati un sablon personal sau pentru furnizori. Atentie : Transferurile se pot efectua doar catre conturi deschise in aceeași valuta!'.

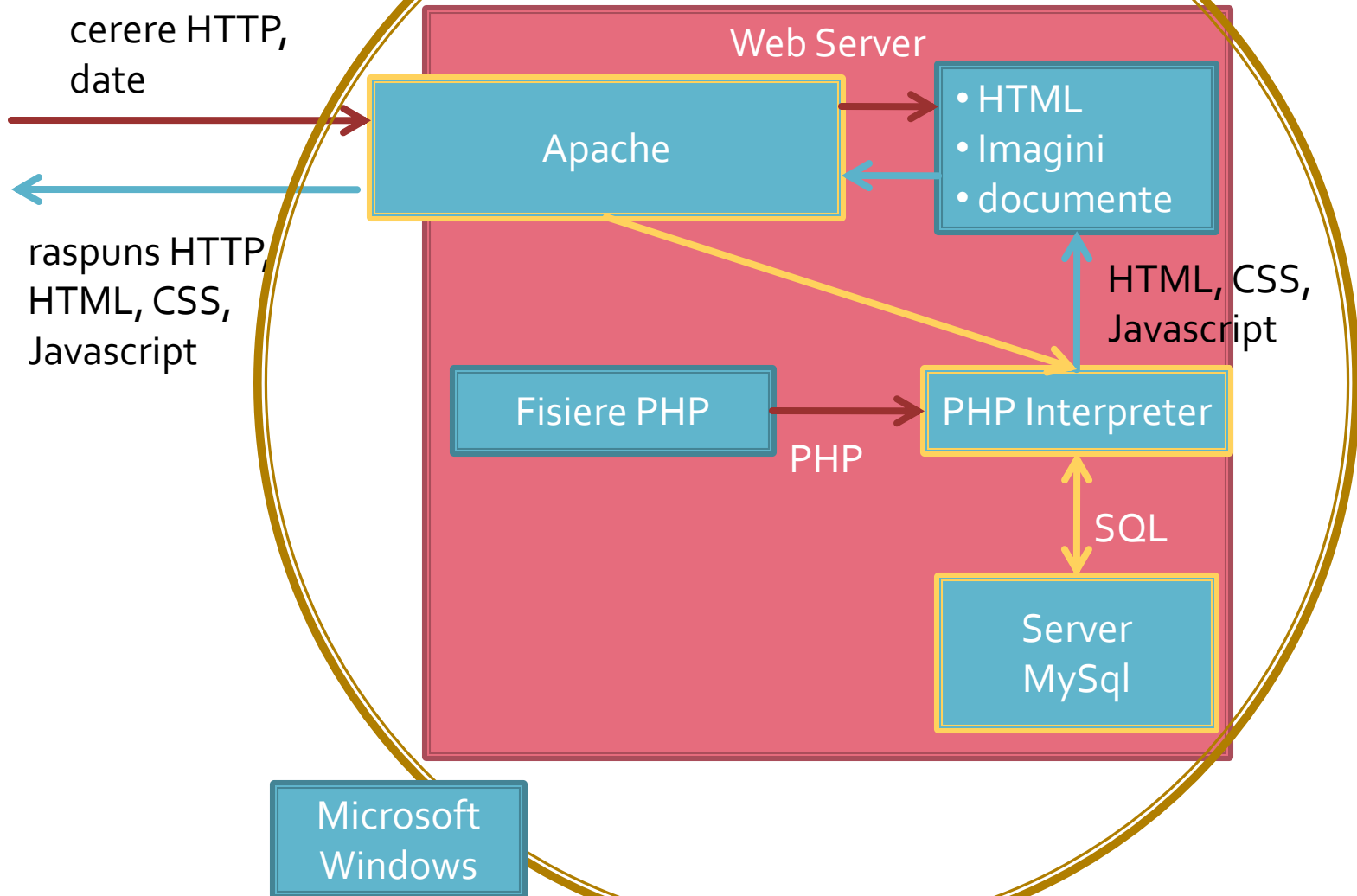
At the bottom, there are four promotional tiles: 'Tarife si comisioane', 'Intrebari si Raspunsuri', '24 Banking', and 'Contact center', each with a 'detalii' link.

The footer contains the text: 'BANCA COMERCIALA ROMANA - SOCIETATE ADMINISTRATA IN SISTEM DUALIST, Bucuresti, B-dul Regina Elisabeta nr.5, Sector 3 | mentiuni legale - © 2008 BCR SA - Toate drepturile rezervate | site map'.

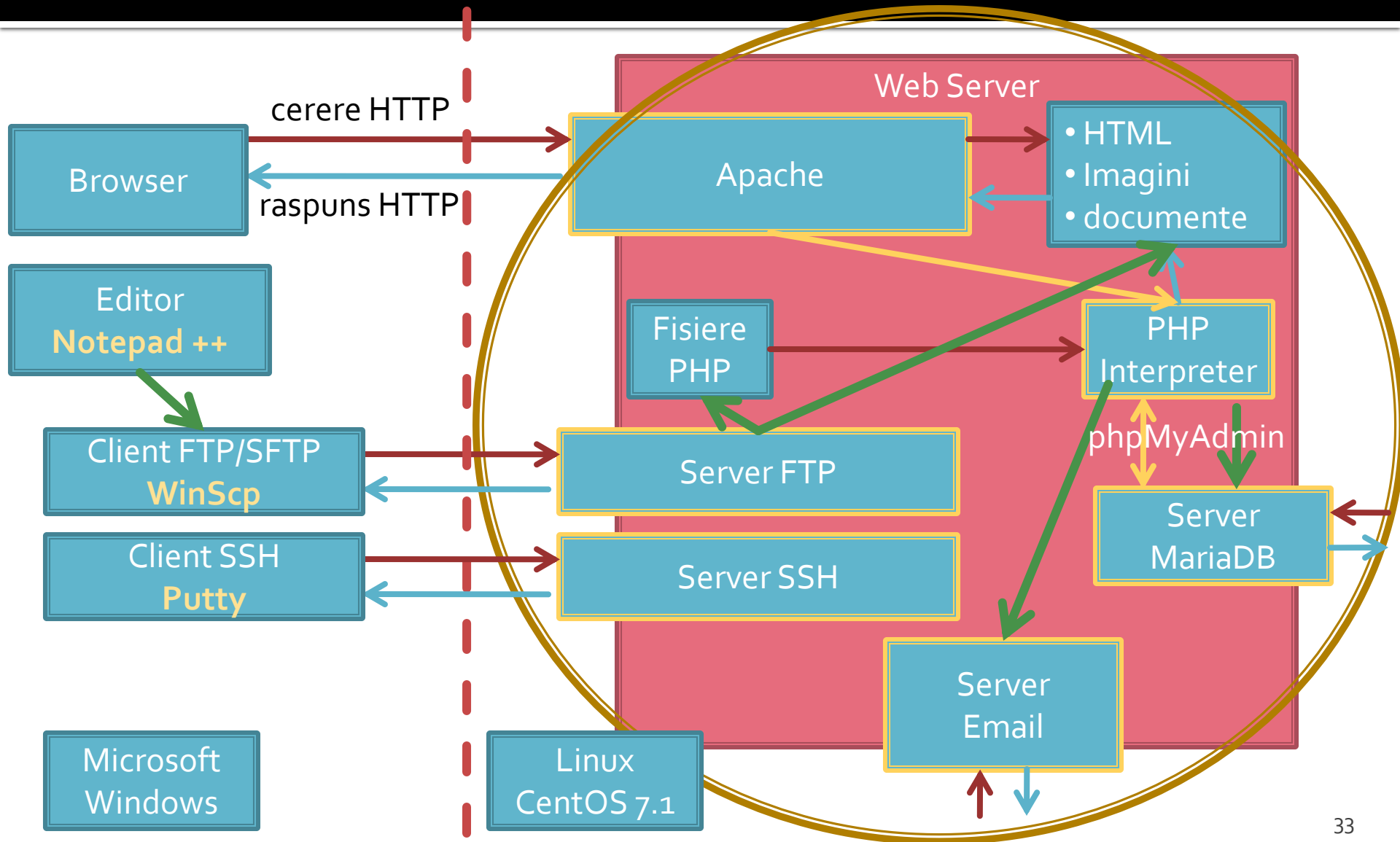
Exemple reale



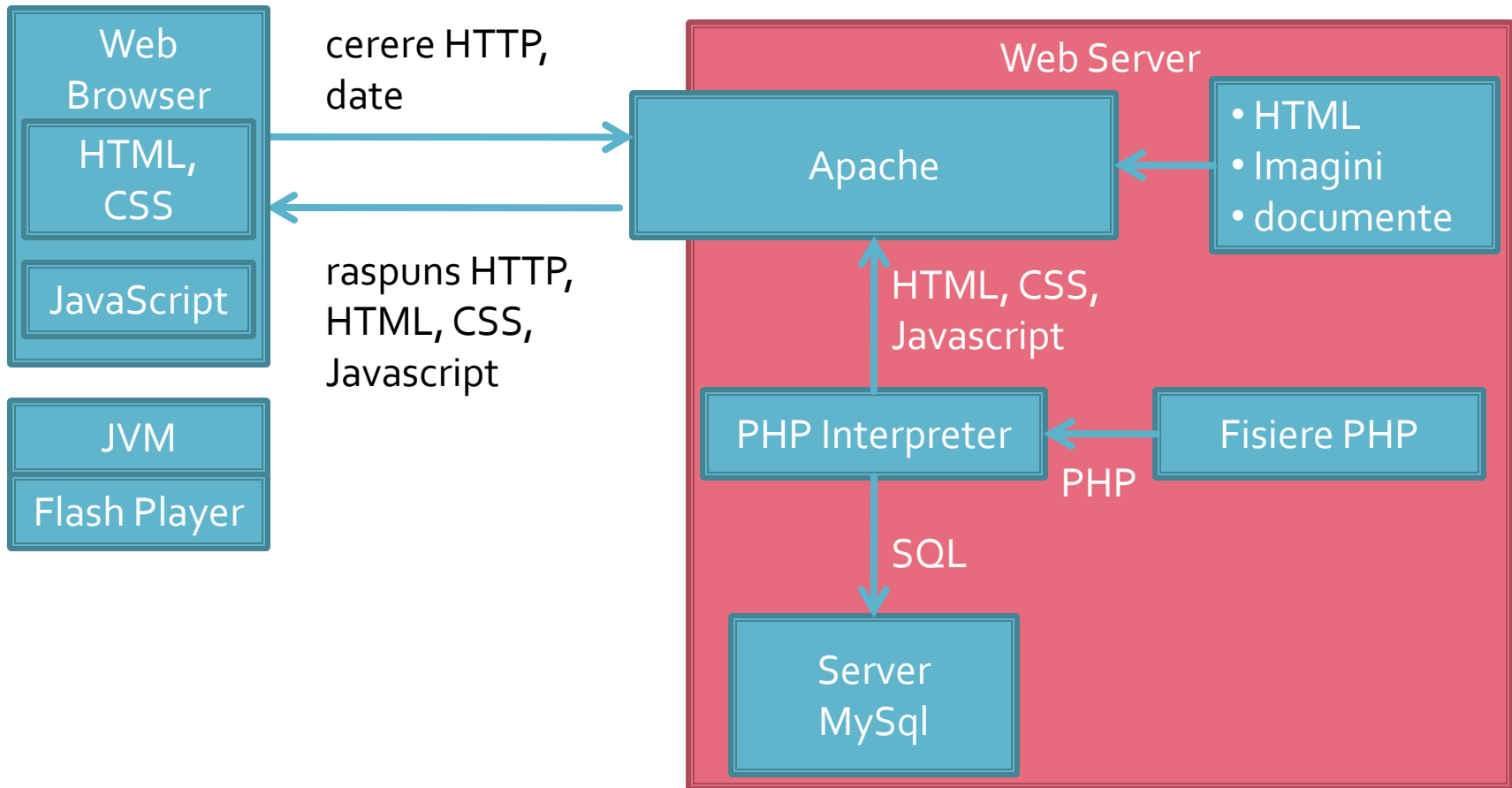
WAMP



LAMP



Client/Server Scripting



client
side
scripting

server
side
scripting

Exemple reale

- View Source (sau echivalent) ofera acces **TOTAL** la surse:
 - HTML
 - CSS
 - Javascript
- numai pentru observatorul “avizat”
- Firefox/Chrome beneficiaza de cateva extensii extrem de utile pentru web designer
 - Web Developer
 - Firebug
 - Dom Inspector (implicit pana la 3.0)

Exemple reale

- Nu e valabil pentru sursele PHP/MySQL care nu ajung pe calculatorul client decat in caz de eroare
- Flash si Java ajung de asemenea in forma binara, compilata
- cateodata apar artificii de “ascundere” a codului: se ingreuneaza citirea de un utilizator uman

Aplicatie Web

- presupune prelucrarea unor date si oferirea unui document personalizat (rezultat al datelor respective)
- datele pot fi obtinute:
 - de la utilizator
 - o sursa externa (baze de date)
 - **combinatie** utilizator/baze de date

Forme in HTML

- necesare pentru ca utilizatorul sa poate trimite date server-ului
- `<form>...</form>`
- Attribute specifice:
 - action: adresa documentului care preia datele
 - `<form action="<?php echo $_SERVER['PHP_SELF'];?>">`
 - `<form action="actiuni/fisier2.html">`
 - method: modalitatea de transmitere a datelor: post sau get
 - `<form method="post" action= ... >`

Metode de transmitere

- **post** datele sunt transmise in bloc
- **get** datele sunt atasate adresei documentului de procesare : results.php?prob=81&an=2009
- **get** trebuie folosit numai cand datele sunt "idempotente",
 - nu cauzeaza efecte colaterale
 - nu modifica starea server-ului (baze date, etc)
- se poate simula realizarea unei forme (**get**) prin scrierea corespunzatoare a link-urilor

Elemente de interactiune cu utilizatorul

- in interiorul etichetei `<form>...</form>`
 - `input`
 - `select/option`
 - `textarea`
 - `button`
- **toate** elementele vor avea un nume
 - atribut: `name=""`
 - numele va fi intalnit in uri-ul generat prin get, sau in numele variabilei trimisa prin post
- trimiterea datelor se face prin intermediul unui buton cu tipul `type="submit"`

INPUT

- `<input .../>`
- Attribute:
 - type: text | password | checkbox | radio | submit | reset | file | hidden | image | button
 - name: numele variabilei
 - value: valoarea trimisa server-ului la selectie (valoarea initiala in anumite cazuri)
 - checked/src/size/maxlength in functie de tip

Example

```
<input name="textfield" type="text" value="ceva" />
```

```
<input name="Ok" type="submit" value="Trinite" />
```

```
<label><input name="check" type="checkbox" value="5" checked />check1</label>
```

```
<label><input name="RG1" type="radio" value="a" checked="checked" />but1</label>
```

```
<label><input name="RG1" type="radio" value="b" />but2</label>
```

```
<input name="hid" type="hidden" value="6" />
```

ceva

Trinite



check1



but1



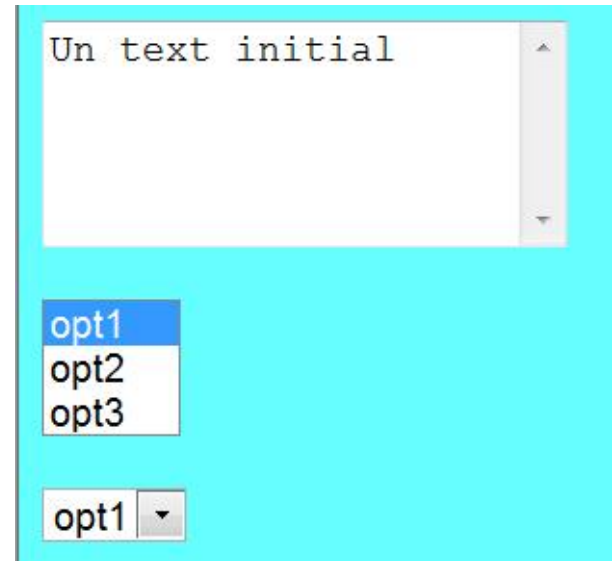
but2

TEXTAREA/SELECT

```
<textarea name="textarea" cols="20" rows="5">Un text  
initial</textarea><br /><br />
```

```
<select name="select." size="3">  
  <option value="1" selected="selected">opt1</option>  
  <option value="2">opt2</option>  
  <option value="3">opt3</option>  
</select><br /><br />
```

```
<select name="select...">  
  <option value="1" selected="selected">opt1</option>  
  <option value="2">opt2</option>  
  <option value="3">opt3</option>  
</select>
```



The image displays three visual representations of HTML form elements on a light blue background. At the top is a text area containing the text "Un text initial". Below it is a list box with three options: "opt1", "opt2", and "opt3", where "opt1" is selected and highlighted in blue. At the bottom is a dropdown menu with "opt1" selected and a downward arrow on the right.

BUTTON

```
<button type="button" onClick="do ( );">Click Here</button>
```

```
<button type="submit" value="infoOnly">Request Info</button>
```

```
<button type="reset">Clear</button>
```

```
<button type="submit" id="sender"  
value="infoOnly">Request<br />Info<br /></button>
```

```
<button type="submit" id="sender"  
value="infoOnly"><p>Request</p><p><b><i>Info</i></b></p>  
</button>
```

- introdus pentru a oferi posibilitatea introducerii de continut mai complex (text formatat, imagini) in interiorul butoanelor de pe forma

Click Here

Request Info 

 Clear

Request
Info



Request

Info



Exemplu – forma

- Mic magazin online
- Formular de comanda cu procesarea comenzii

```
<html>
<head>
<title>Magazin online XXX SRL</title>
</head>
<body>
<h1>Magazin online XXX SRL</h1>
<h2>Realizati comanda</h2>
<form action="rezultat.html" method="post">
<table border="0">
<tr bgcolor="#cccccc"><td width="150">Produs</td><td width="15">Cantitate</td></tr>
<tr><td>Carti</td><td align="center"><input type="text" name="carti_cant" size="3" maxlength="3" /></td></tr>
<tr><td>Caiete</td><td align="center"><input type="text" name="caiete_cant" size="3" maxlength="3" /></td></tr>
<tr><td>Penare</td><td align="center"><input type="text" name="penare_cant" size="3" maxlength="3" /></td></tr>
<tr><td colspan="2" align="center"><input type="submit" value="Trimite" /></td></tr>
</table>
</form>
</body>
</html>
```

Magazin online XXX SRL

Realizati comanda

Produs	Cantitate
Carti	<input type="text" value="1"/>
Caiete	<input type="text" value="2"/>
Penare	<input type="text" value="3"/>

Exemplu – raspuns static

- fisier html
- fisierele HTML sunt doar “servite” de server
- in aparenta a existat o procesare, real **nu**

```
<html>
<head>
<title>Magazin online XXX SRL</title>
</head>
<body>
<h1>Magazin online XXX SRL</h1>
<h2>Rezultate comanda</h2>
<p>Comanda receptionata</p>
</body>
</html>
```

Magazin online XXX SRL

Rezultate comanda

Comanda receptionata

Capitolul II

CSS

CURS

I.	HTML si XHTML (recapitulare)	1 oră
II	CSS	2 ore
III	Baze de date, punct de vedere practic	1 oră
IV	Limbajul de interogare SQL	4 ore
V	PHP - HyperText Preprocessor	8 ore
VI	XML - Extended Mark-up Language si aplicatii	4 ore
VII	Conlucrare intre PHP/MySql, PHP/XML, Javascript/HTML	2 ore
VIII	Exemple de aplicatii	6 ore
	Total	28 ore

CSS vs. HTML

- HTML/XHTML concepute pentru a descrie **structura** documentului, nu **forma**
- Etichete HTML privitoare la **forma** (, color="red") au fost introduse in HTML 3.2 si declarate depreciate in HTML 4.01
- Intercalarea intre elementele de structura si forma in HTML duce la cresterea complexitatii documentului si creste inutil dimensiunea acestuia
- Exemplu tipic: Microsoft Word -> Save as HTML -> documente de 10 ori mai mari decat un document cu aceeasi forma scris pur in HTML

CSS

- Cascading Style Sheets
- Introdus pentru a separa **continutul** documentului de **prezentarea** sa (forma, culori, caractere)
- Permite:
 - Accesibilitate crescuta (acelasi document poate fi afisat diferit pe dispozitive diferite)
 - Tratare unitara a mai multor pagini
 - Reduce complexitatea pozitionarii

CSS vs. HTML

```
<!DOCTYPE html PUBLIC
<html>
<!-- created 2003-12-12 -->
<head>
  <title>sample</title>
</head>
<body>
  <p>Voluptatem accusantium
  totam rem aperiam.</p>
</body>
</html>
```

HTML

```
h1 { color: white;
      background: orange;
      border: 1px solid bla
      padding: 0 0 0 0;
      font-weight: bold;
}
/* begin: seaside-theme */

body {
  background-color:white;
  color:black;
  font-family:Arial,sans-serif;
  margin: 0 4px 0 0;
  border: 12px solid;
}
```

CSS

Cascading Style Sheets

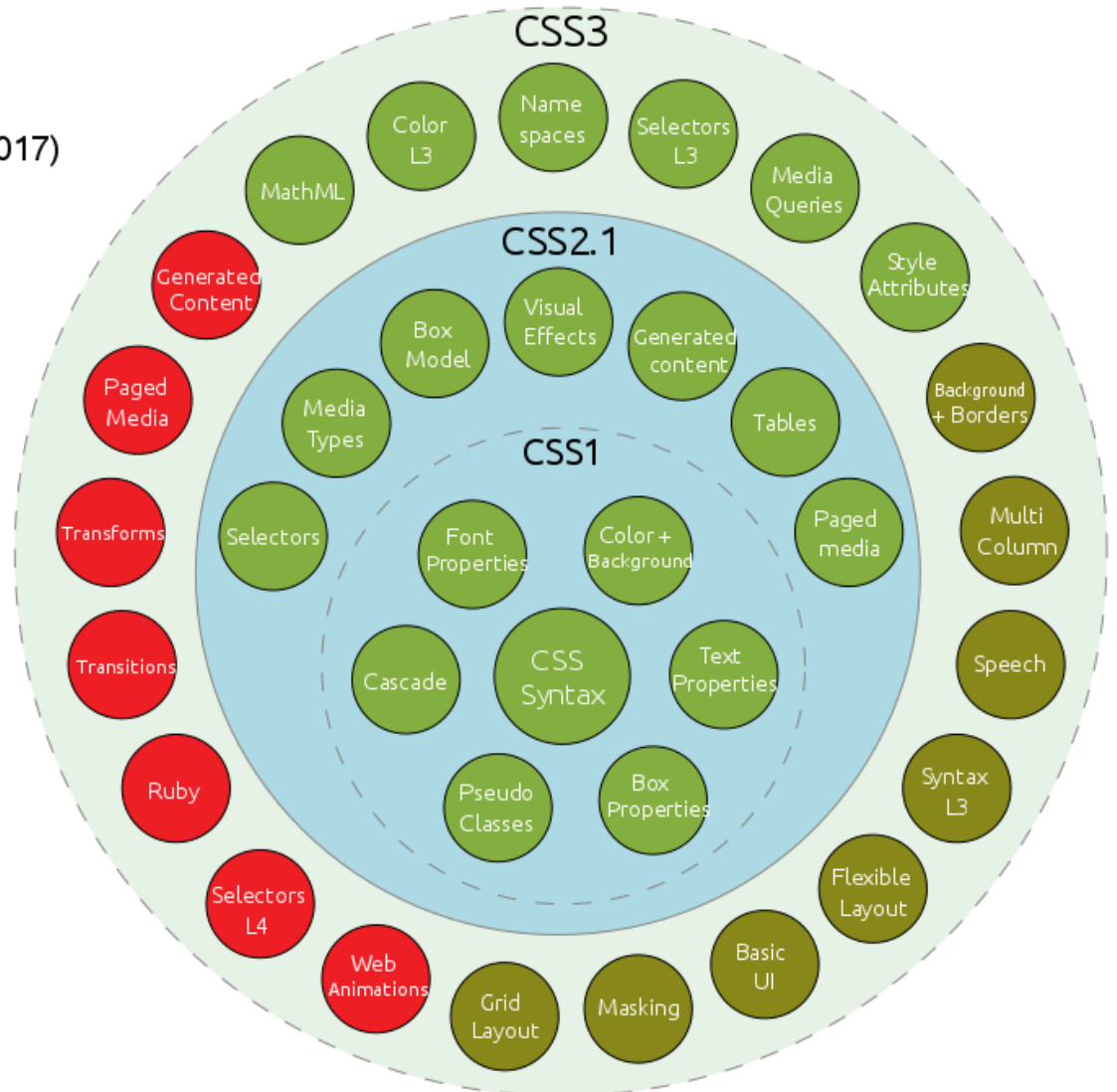
- CSS 1 – 1996 (forma)
- CSS 2 – 1998 (pozitionare)
- CSS 2.1 – 2007 (corectii)
- CSS 3.0 – module independente
 - 2011/2012
- Utilitatea dependenta de suportul din partea dispozitivelor de afisare
- Majoritatea browser-elor suporta CSS 2.
 - suport partial CSS 3.0 pentru majoritatea browser-elor moderne
- CSS implica degradare eleganta (“degrade gracefully”)

CSS3

CSS3

Taxonomy & Status (September 2017)

- W3C Recommendation
- Candidate Recommendation
- Last Call
- Working Draft
- Obsolete or inactive



CSS Concepte

- Specificatiile CSS sunt de forma:
 - Selector { "regula CSS"; ["regula CSS";] }
- Reguli CSS de forma:
 - atribut:valoare;
- Comentarii
 - Similar cu C/C++ , PHP, etc.
 - Cuprinse intre `"/**"` si `"*/"`

Selector CSS

- Selector HTML
 - conceput pentru a modifica modalitatea de afisare standard a etichetelor HTML
- Selector clasa
 - conceput pentru a lucra cu atributul HTML `class="..."`
 - util pentru aplicare uniforma a formei mai multor elemente din document
- Selector identificator
 - conceput pentru a lucra cu atributul HTML `id="..."`
 - util pentru aplicarea unei forme specifice unui anume element din document

Selector CSS

- Redefinirea etichetelor HTML standard
 - exemplu: afisarea implicita a tuturor celulelor de tabel din document este schimbata
- Redefinirea se poate face **si** doar in interiorul unei clase
 - exemplu: in interiorul claselor "footer" link-urile vor fi afisate altfel

```
td {  
  font-family:Tahoma, Verdana;  
  font-size:14px;  
  color:#D5A787;  
  vertical-align: top;  
  text-align: center;  
}
```

```
.footer a {  
  color:#FFD2B3;  
  text-decoration:none;  
}  
.footer a:hover {  
  color:#ffffff;  
  text-decoration:none;  
}
```


Selector CSS

- clase – “.”
 - Semnul “.” inaintea numelui
 - permit reutilizarea unei anumite forme grafice
 - `<p class="menu">...</p>`
 - `<h1 class="menu">...</h1>`
 - `<tr class="menu">...</tr>`
- identificator element – “#”
 - Semnul “#” inaintea numelui
 - `<tr class="menu">...<td id="menu_curent">...</td>...</tr>`

```
.menu {  
font-family:Tahoma, Verdana;  
font-size:14px;  
color:#6F3A15;  
text-align:center;  
font-weight:bold;  
}
```

```
#menu_curent {  
font-family:Tahoma, Verdana;  
font-size:15px;  
color:#FFFFFF;  
text-align:center;  
font-weight:bold;  
}
```

Selector CSS

- selector clasa si identificator concepute pentru a fi utilizate cu elementele de grupare HTML
 - `<div>...</div>` : grupare de tip bloc ("block")
 - `...` : grupare inserata ("in-line")
- anumite reguli au efect numai daca sunt atribuite unor elemente corespunzatoare (block sau in-line)

Specificari complexe ale selectorilor

- `.clasa1 {}` – pentru orice element caruia i se atribuie atributul HTML `class="clasa1"`
- `p.clasa1 {}` – numai paragrafelor care sunt afectate clasei "clasa1" `<p class="clasa1">...`
- `.clasa1 p {}` – oricarui paragraf aflat in interiorul unui bloc afectat clasei "clasa1"
 - `<div class="clasa1"><p>...</p><p>...</p></div>`
- in anumite conditii speciale (mai ales pentru eticheta HTML `<a>`)
 - `a:hover {}` , `a:visited {}`

Specificitati CSS (ponderi)

Selectors	Specificity
H1 {color: white;}	1
P EM {color: green;}	2
.grape {color: red;}	10
P.bright {color: blue;}	11
P.bright EM.dark {color: yellow;}	22
#id218 {color: brown;}	100
style=" "	1000

Exemplu specificitati

- `style="color: blue"`
- `suprascrie`
- `#xyz { color: red; }`

```
< <html>
<head>
<meta charset="utf-8" />
<style type="text/css">
#xyz { color: red; }
</style>
</head>
<body>
<p id="xyz" style="color: blue"> Demonstratie </p>
</body>
</html>
```

Concepte CSS

CSS concepte

- Trei modalitati de a specifica stiluri
 - stiluri externe (External style sheet)
 - stiluri interne (Internal style sheet)
 - stiluri inserate (Inline style)
- Trei entitati care impun stiluri:
 - dispozitivul de afisare (browser)
 - autorul documentului
 - cititorul documentului

CSS concepte

- In orice moment un element din document poate fi sub controlul mai multor reguli care se contrazic
- Ordinea prioritatilor (in ordinea cresterii acesteia)
 - dispozitivul de afisare (browser)
 - autorul documentului – in ordinea definirii. De obicei:
 - External style sheet
 - Internal style sheet
 - Inline style
 - cititorul documentului (in diverse forme, "text size", "zoom" de ex)
- Prioritatea maxima data cititorului documentului este in dezbatere si inconsistenta (nu la toate regulile)

Ordinea priorităților CSS

High Priority	CSS Source Type	Description
1	Importance	The 'important' value overwrites the previous priority types
2	Inline	A style applied to an HTML element via HTML 'style' property
3	Media Type	A property definition applies to all media types, unless a media specific CSS defined
4	User defined	Most browsers have the accessibility feature: a user defined CSS
5	Selector specificity	A specific contextual selector (#heading p) overwrites generic definition
6	Rule order	Last rule declaration has a higher priority
7	Parent inheritance	If a property is not specified, it is inherited from a parent element
8	CSS property definition in HTML document	CSS rule or CSS inline style overwrites a default browser value
9	Browser default	The lowest priority: browser default value is determined by W3C initial value specifications

External style sheet

- regulile CSS se gasesc intr-un fisier extern, de obicei cu extensia “.css”
- fisierul respectiv este incarcat in document in sectiunea antet
 - `<head><link rel="stylesheet" type="text/css" href="stiluri.css" /></head>`
- utilizare obligatorie cand o suita de documente au o prezentare comuna

```
<head>  
<link rel="stylesheet" type="text/css" href="stiluri.css" />  
</head>
```

External style sheet

- Dezavantaje – minore in conditiile actuale
 - necesitatea unei conexiuni suplimentare la server
 - cantitatea de date mai mare (doar la prima pagina incarcata – se aduc si stilurile care nu sunt folosite)
- Avantaje
 - separa total **continutul** de **forma**
 - tratare unitara a paginilor, usureaza
 - navigarea, dpdv. al utilizatorului
 - intretinerea si modificarea intregului site, dpdv. al designer-ului
 - dimensiune minima a documentelor (o regula se aplica de multe ori dar se scrie o singura data)
 - incepand de la a doua pagina din suita, browser-ul este deja in posesia stilurilor, viteza e sporita

Internal style sheet

- Regulile CSS sunt indicate de asemenea in sectiunea antet (<head>... </head>)
- Se foloseste eticheta HTML <style>...</style>
- Se foloseste cand un document are o forma unica in site

```
<head>  
<style type="text/css">  
hr {color:sienna;}  
p {margin-left:20px;}  
body {background-image:url("b.gif");}  
</style>  
</head>
```

Internal style sheet

- Avantaj
 - se elimina conexiunea suplimentara la server
 - separa **continutul** de **forma**
- **Dezavantaj/Avantaj**
 - Daca in sectiunea antet apare dupa fisierul extern de stiluri, va suprascrie stilurile corespunzatoare
- Dezavantaj
 - nu permite tratarea uniforma a documentelor

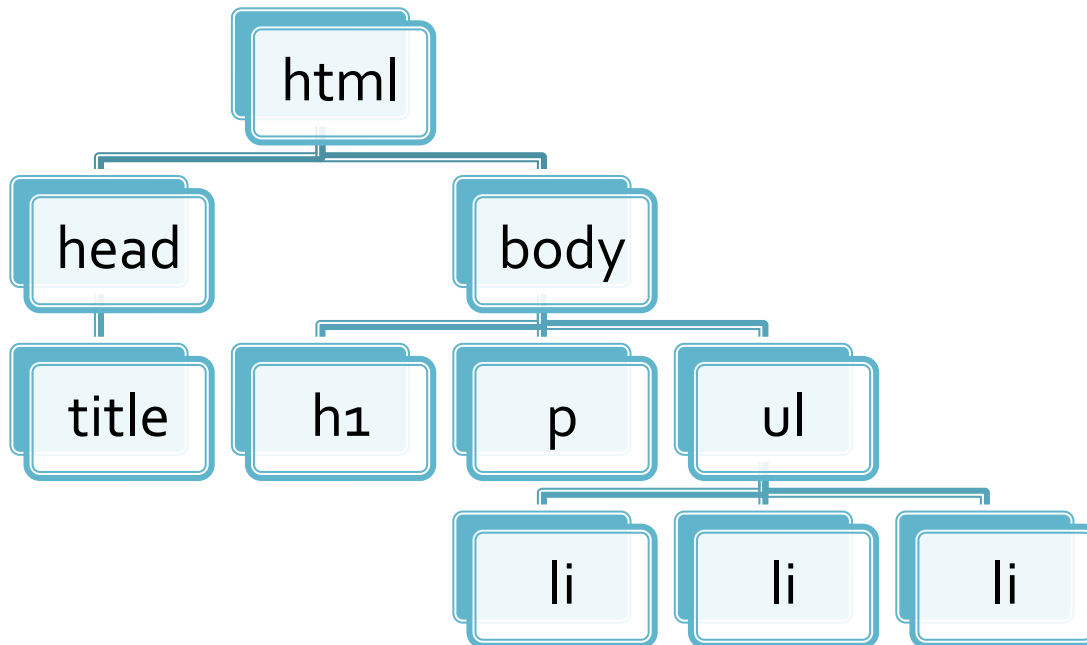
Inline style sheet

- Se utilizeaza **atributul** HTML `style=""`
- Modifica o singura eticheta
- `<p style="color:sienna;margin-left:20px">Un paragraf</p>`
- De obicei utilizat punctual pentru a introduce efecte ce nu pot fi obtinute cu HTML
- De evitat:
 - **nu** separa forma de continut
 - creste dimensiunea documentului (vezi un fisier HTML salvat cu Microsoft Word)

```
<p style="color:sienna;margin-left:20px">Un paragraf</p>
```

Relatia parinte copil si mostenire

- Orice document are o structura de tip graf in care elementele sunt introduse in interiorul altor elemente (DOM)



```
<html>
  <title>pagina mea</title>
  <body>
    <h1>Compozitori:</h1>
    <p>
    <ul>
      <li> elvis costello
      <li> johannes brahms
      <li> georges brassens
    </ul>
  </body>
</html>
```

Relatia parinte copil si mostenire

- in CSS valoarea implicita a multor reguli este **inherit** mostenire de la parinte
- Exemplu:
 - daca pentru body se fixeaza regula: `body {color:#FF0000;}` textul va fi implicit rosu pentru toate elementele incluse (p,li,ul) daca:
 - nu apar reguli suplimentare (p {color:black;})
 - nu exista reguli predefinite (h1 – regula browser-ului – h1 mai mare decat p, dar nu afecteaza culoarea)

```
<html>
  <title>pagina mea</title>
  <body>
    <h1>Compozitori:</h1>
    <p>
      <ul>
        <li> elvis costello
        <li> johannes brahms
        <li> georges brassens
      </ul>
    </p>
  </body>
</html>
```


Elemente generale

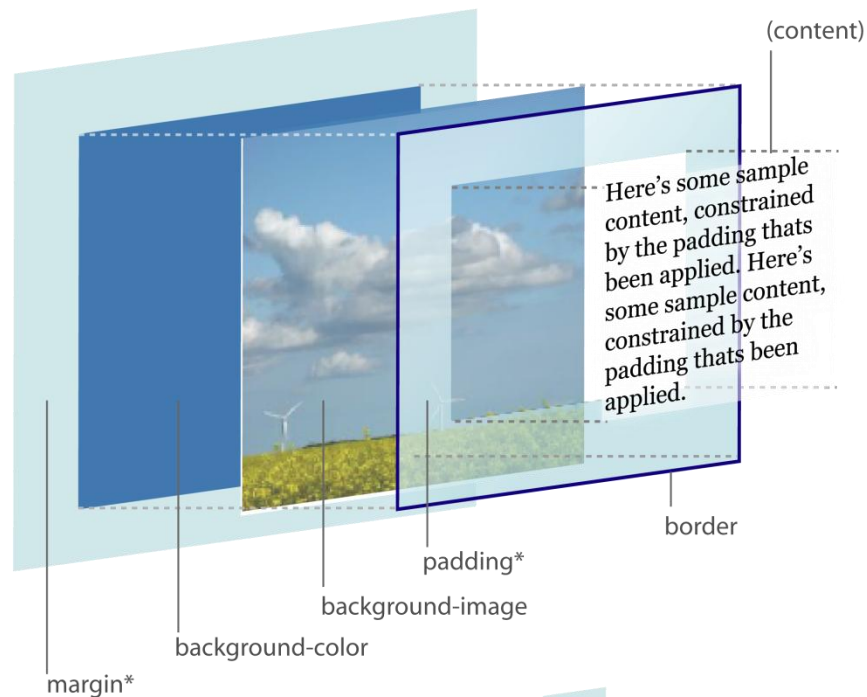
Dimensiunile in CSS

- relativ la dimensiunea implicita in browser
 - xx-small, x-small, small, medium, large, x-large, xx-large (implicit medium)
- relativ la dimensiunea din blocul parinte
 - smaller, larger
- absolute
 - in, cm, mm, pt (1 point = 1/72 in), pc (1 pica = 12 pt)
- relative
 - em, ex – relative la dimensiunea in blocul parinte
 - un cuvânt cu dimensiunea 2em = dimensiunea de 2 ori mai mare decat a textului din acel paragraf
 - precizie mai buna, valori fractionare permise (1.25em, 0.85em etc.)
 - px (pixeli) dependent de dispozitivul de afisare

CSS Box Model

- Orientat in jurul conceptului de "cutie" – Box model

THE CSS BOX MODEL HIERARCHY



* transparent elements

Elemente utilizate frecvent

Controlul fundalului: culoare

- Pentru elementele cu structura bloc
- `background-color=culoare`
 - nume:
 - `background-color= black;`
 - Hexa - # Rosu (0-255=00-FF), Verde, Albastru
 - `background-color=#FF0000;`
 - RGB – `rgb(rosu = 0-255,verde,albastru)`
 - `background-color:rgb(15,150,47);`

Controlul fundalului: imagine

- background-image
 - body {background-image:url('bgdesert.jpg');}
- background-repeat
 - repeat-x; repeat-y; repeat; no-repeat; inherit;
- background-attachment: fixed; scroll;
- background-position: "oriz." "vert.";
 - "oriz.": left; right; center; valoare[um]
 - "vert.": top; bottom; center; valoare[um]

Controlul fundalului - scurt

- background
- Exemplu: `body {background:#ffffff url('img_bkg.png') no-repeat top right;}`
- Ordinea:
 - background-color
 - background-image
 - background-repeat
 - background-attachment
 - background-position

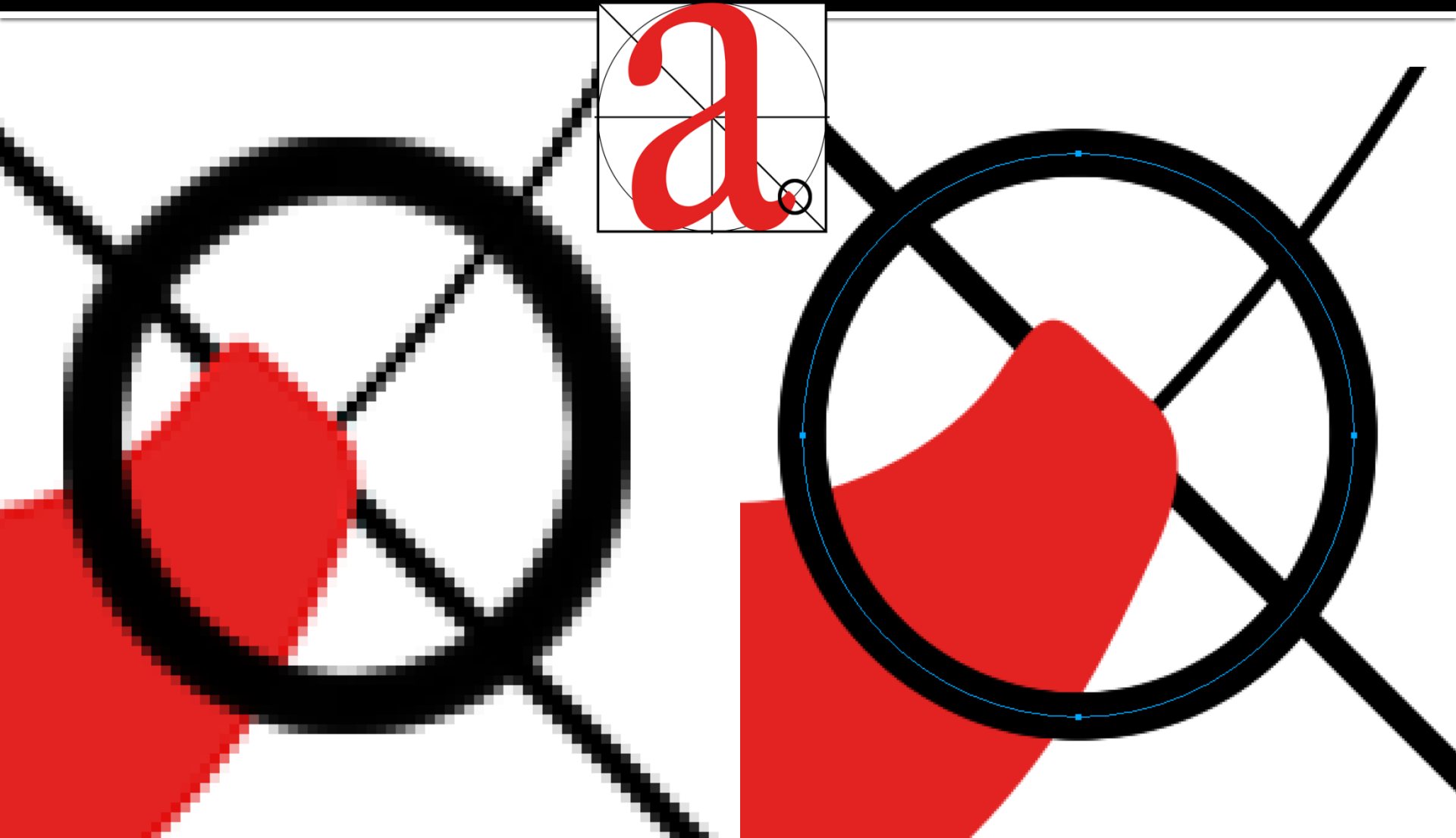
Modificarea textului

- culoare – `color:[valoare];`
- aliniere – `text-align:left | center | right | justify;`
- decorare – `text-decoration:underline | line-through | underline | blink | none;`
 - de obicei utilizat pentru eliminarea sublinierii la link-uri ``
- transformare – `text-transform:uppercase | lowercase | capitalize;`
- indent – alinierea primului rand din paragraf
`text-indent:50px;`

Font

- Definitie: Font = desenul (forma grafica) a caracterului
- Fonturi
 - Outline font (True type) = desen vectorial, curbe Bezier - scalarea pastreaza calitatea maxima
 - Bitmap font = harta de pixeli – scalarea duce la aparitia artifactelor

True Type - Bitmap



Web safe font

- Fonturi definite de CSS
 - sans-serif
 - serif
 - monospace
 - cursive
 - fantasy
- Fonturi safe Microsoft
 - Arial
 - Courier New
 - Georgia
 - Times New Roman
 - Verdana
 - Trebuchet MS
 - Lucida Sans

sans-serif

serif

monospace

cursive

fantasy

Arial

Courier New

Georgia

Times New Roman

Verdana

Trebuchet MS

Lucida Sans

Font

- desen de caractere

F

Sans-serif

F

Serif

Generic	Familie	Descriere
Serif	Times New Roman Georgia	Apar mici linii la terminatia anumitor caractere
Sans-serif	Arial Verdana	Fara liniute la sfarsit de caracter
Monospace	Courier New Lucida Console	Latime constanta a caracterelor

Font

- desen de caracter – `font-family:[lista];`
 - `font-family: Arial , "Times New Roman", sans-serif;`
 - se utilizeaza Arial
 - daca Arial nu exista se utilizeaza Times New Roman
 - daca nici Times New Roman nu exista se utilizeaza sans-serif
 - daca nici sans-serif nu exista se utilizeaza fontul implicit in browser
- `font-style:normal | italic | oblique;`
- `font-size:[dimensiune];`
- `font-weight: normal | bold | bolder | lighter | 100 – 900;`
- `inherit` implicit pentru toate attributele;

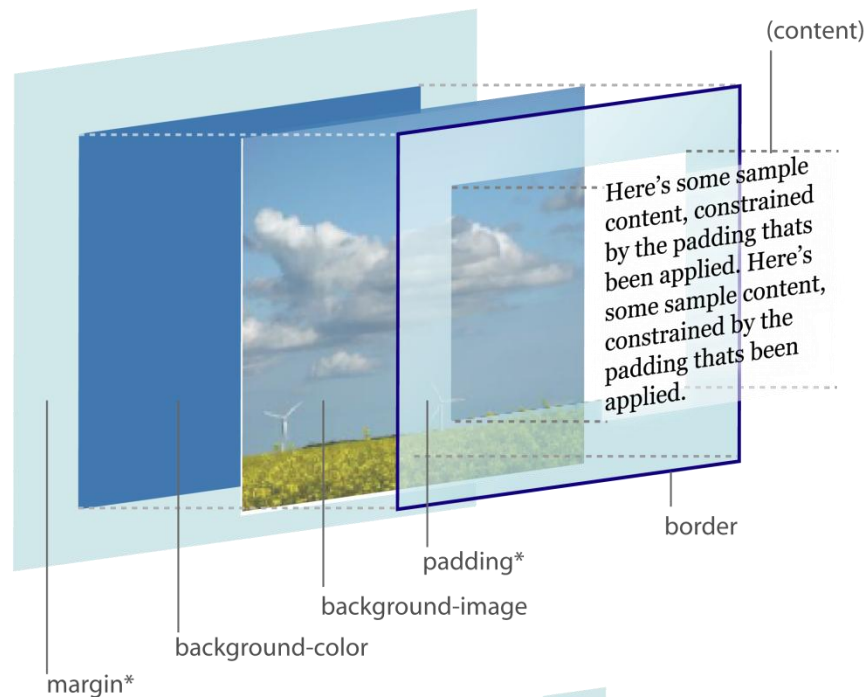
Dimensiunile in CSS (text)

- relativ la dimensiunea implicita in browser
 - **xx-small, x-small, small, medium, large, x-large, xx-large** (implicit medium)
- relativ la dimensiunea din blocul parinte
 - **smaller, larger**
- absolute
 - in, cm, mm, pt (1 point = 1/72 in), pc (1 pica = 12 pt)
- relative
 - **em, ex – relative la dimensiunea in blocul parinte**
 - un cuvânt cu dimensiunea 2em = dimensiunea de 2 ori mai mare decat a textului din acel paragraf
 - precizie mai buna, valori fractionare permise (1.25em, 0.85em etc.)
 - px (pixeli) dependent de dispozitivul de afisare

CSS Box Model

- Orientat in jurul conceptului de "cutie" – Box model

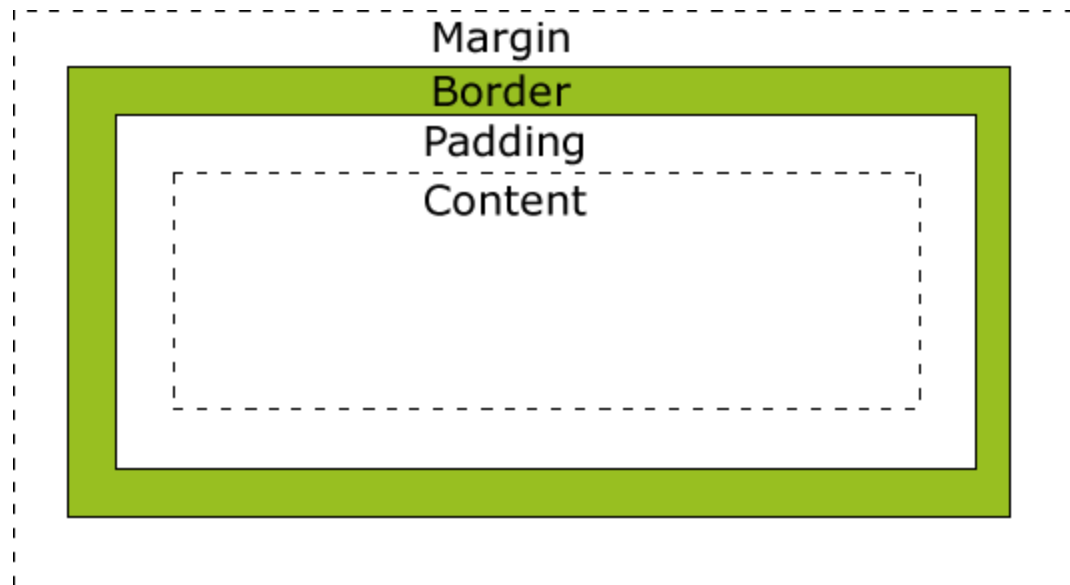
THE CSS BOX MODEL HIERARCHY



* transparent elements

CSS Box Model

- parametrii "box model" pot fi aplicati tuturor elementelor cu structura bloc, controland intregul bloc (marginii, chenar, distanta intre chenar si continut).



Margine

- spatiu liber lasat in exteriorul blocului
- `margin-top:[valoare] | auto;`
- `margin-right:[valoare] | auto;`
- `margin-bottom:[valoare] | auto;`
- `margin-left:[valoare] | auto;`
- scurt
 - `margin: [top] [right] [bottom] [left];`
 - `margin: [top] [right= left] [bottom];`
 - `margin: [top=bottom] [right= left];`
 - `margin: [top=bottom=right= left];`

Chenar

- **border-style**: none | hidden | dotted | dashed | solid | double | groove | ridge | inset | outset | inherit; - deblocheaza celelalte proprietati
- **border-color**: culoare;
- **border-width**: thin | medium | thick | [valoare] | inherit;
- scurt: **border**: [border-width] [border-style] [border-color];
 - border: 5px solid red;
- detaliat:
 - **border-left-color**: ...
 - **border-top-width**: ...
 - etc.

Distanța chenar-continut

- spațiu liber lasat în interiorul blocului
- `padding-top:[valoare] | auto;`
- `padding-right:[valoare] | auto;`
- `padding-bottom:[valoare] | auto;`
- `padding-left:[valoare] | auto;`
- scurt
 - `padding: [top] [right] [bottom] [left];`
 - `padding: [top] [right= left] [bottom];`
 - `padding: [top=bottom] [right= left];`
 - `padding: [top=bottom=right= left];`

Dimensiuni, vizibilitate, afisare

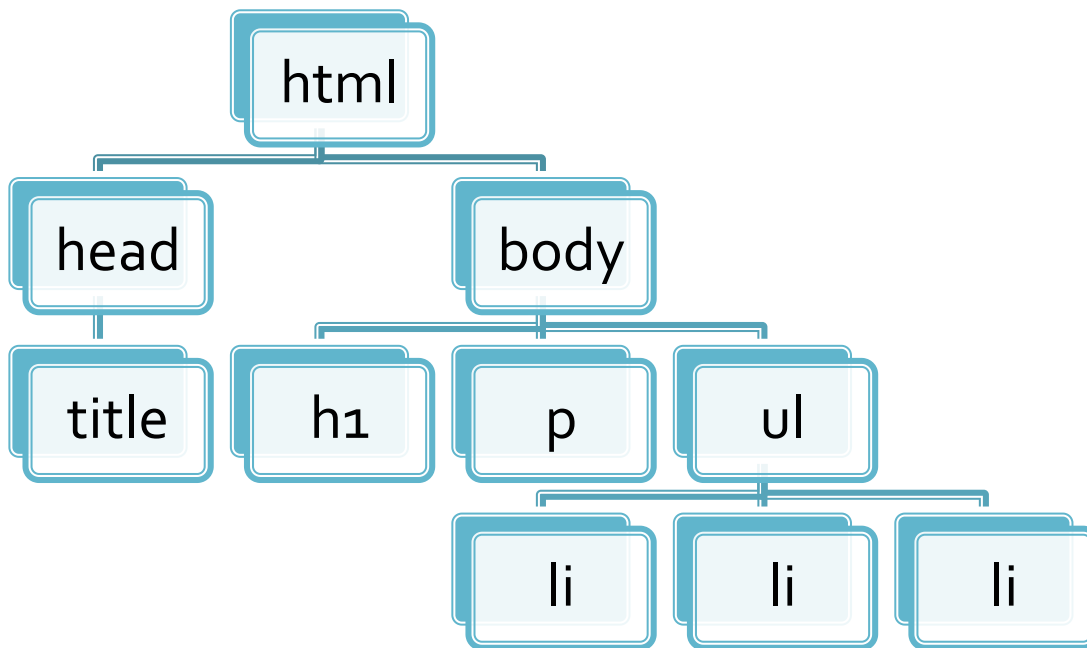
- **height**: auto | [valoare] | [%] | inherit
- **width**: auto | [valoare] | [%] | inherit
- CSS 2: **min-height**, **max-height**, **min-width**, **max-width**: none(max) | [valoare] | [%] | inherit
- **visibility**: visible | hidden;
- **display**: none | inline | block;

Pozitionare

- `position: absolute | fixed | relative | static | inherit;`
- `top, right, bottom, left: auto | [valoare] | [%] | inherit;`
- `z-index: [valoare intreaga];` - mai mare = deasupra

DOM

- DOM – Document Object Model: structura de tip graf



```
<html>  
<title>pagina mea</title>  
<body>  
  <h1>Compozitori:</h1>  
  <p>  
  <ul>  
    <li> elvis costello  
    <li> johannes brahms  
    <li> georges brassens  
  </ul>  
</body>  
</html>
```

Relatie cu Javascript in aplicatii

- Javascript poate accesa prin intermediul obiectului DOM atasat documentului HTML elementele din structura arbore DOM si modifica proprietatile corespunzatoare
- se deschide astfel calea spre aplicatii dinamice

CSS Zen Garden

CSS Zen Garden

- <http://www.csszengarden.com/>
- un fisier html comun
- schimbarea formei permisa numai prin intermediul CSS

CSS Zen Garden – HTML original

css Zen Garden

The Beauty of CSS Design

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the list to load it into this page.

Download the sample [html file](#) and [css file](#)

The Road to Enlightenment

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken CSS support.

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WaSP and the major browser creators.

The css Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the (yet to be) time-honored techniques in new and invigorating fashion. Become one with the web.

So What is This About?

There is clearly a need for CSS to be taken seriously by graphic artists. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The code remains the same, the only thing that has changed is the external .css file. Yes, really.

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated in a way that gets people excited is by demonstrating what it can truly be, once the reins are placed in the hands of those able to create beauty from structure. To date, most examples of neat tricks and hacks have been demonstrated by structurists and coders. Designers have yet to make their mark. This needs to change.

Participation

Graphic artists only please. You are modifying this page, so strong CSS skills are necessary, but the example files are commented well enough that even CSS novices can use them as starting points. Please see the [CSS Resource Guide](#) for advanced tutorials and tips on working with CSS.

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Download the sample [html file](#) and [css file](#) to work on a copy locally. Once you have completed your masterpiece (and please, don't submit half-finished work) upload your .css file to a web server under your control. [Send us a link](#) to the file and if we choose to use it, we will spider the associated images. Final submissions will be placed on our server.

Benefits

Why participate? For recognition, inspiration, and a resource we can all refer to when making the case for CSS-based design. This is sorely needed, even today. More and more major sites are taking the leap, but not enough have. One day this gallery will be a historical curiosity; that day is not today.

Requirements

We would like to see as much CSS1 as possible. CSS2 should be limited to widely-supported elements only. The css Zen Garden is about functional, practical CSS and not the latest bleeding-edge tricks viewable by 2% of the browsing public. The only real requirement we have is that your CSS validates.

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CSS Zen Garden



Css Zen Garden

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[Under the Seal](#)
by Eric Stoltz

[Make 'em Proud](#)
by Michael McAdigan and
Scotty Reifnyder

[Orchid Beauty](#)
by Kevin Addison

[Oceanscape](#)
by Justin Gray

[CSS Co., Ltd.](#)
by Benjamin Klamm

[Sakura](#)
by Tatsuya Uchida

[Kyoto Forest](#)
by John Polkowski

[A Walk in the
Garden](#)
by Simon Van
Hauwermeiren

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RESOURCES:

CSS Zen Garden

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**CSS
ZEN
GARDEN**

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Resources:

- [View This Design's CSS](#)
- [CSS Resources](#)
- [FAQ](#)
- [Submit a Design](#)
- [Translations](#)

CSS Zen Garden

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The Road to Enlightenment

So What is This About?

There is a continuing need to show the power of CSS. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The HTML remains the same, the only thing that has changed is the external CSS file. Yes, really.

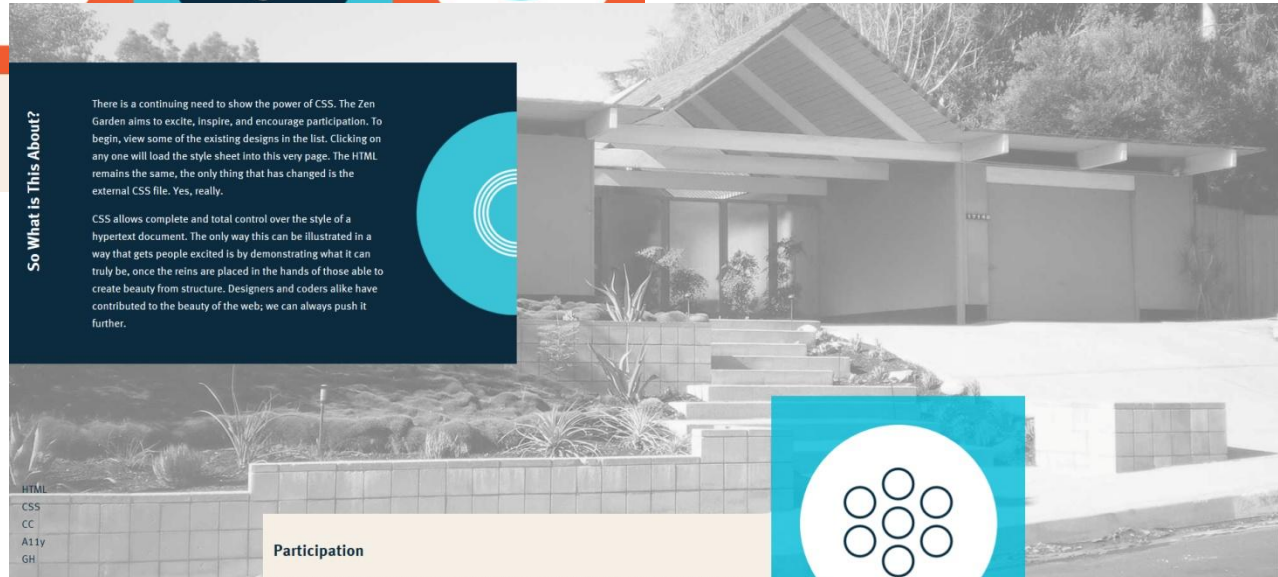
CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated in a way that gets people excited is by demonstrating what it can truly be, once the reins are placed in the hands of those able to create beauty from structure. Designers and coders alike have contributed to the beauty of the web; we can always push it further.

HTML
CSS
CC
A11y
GH

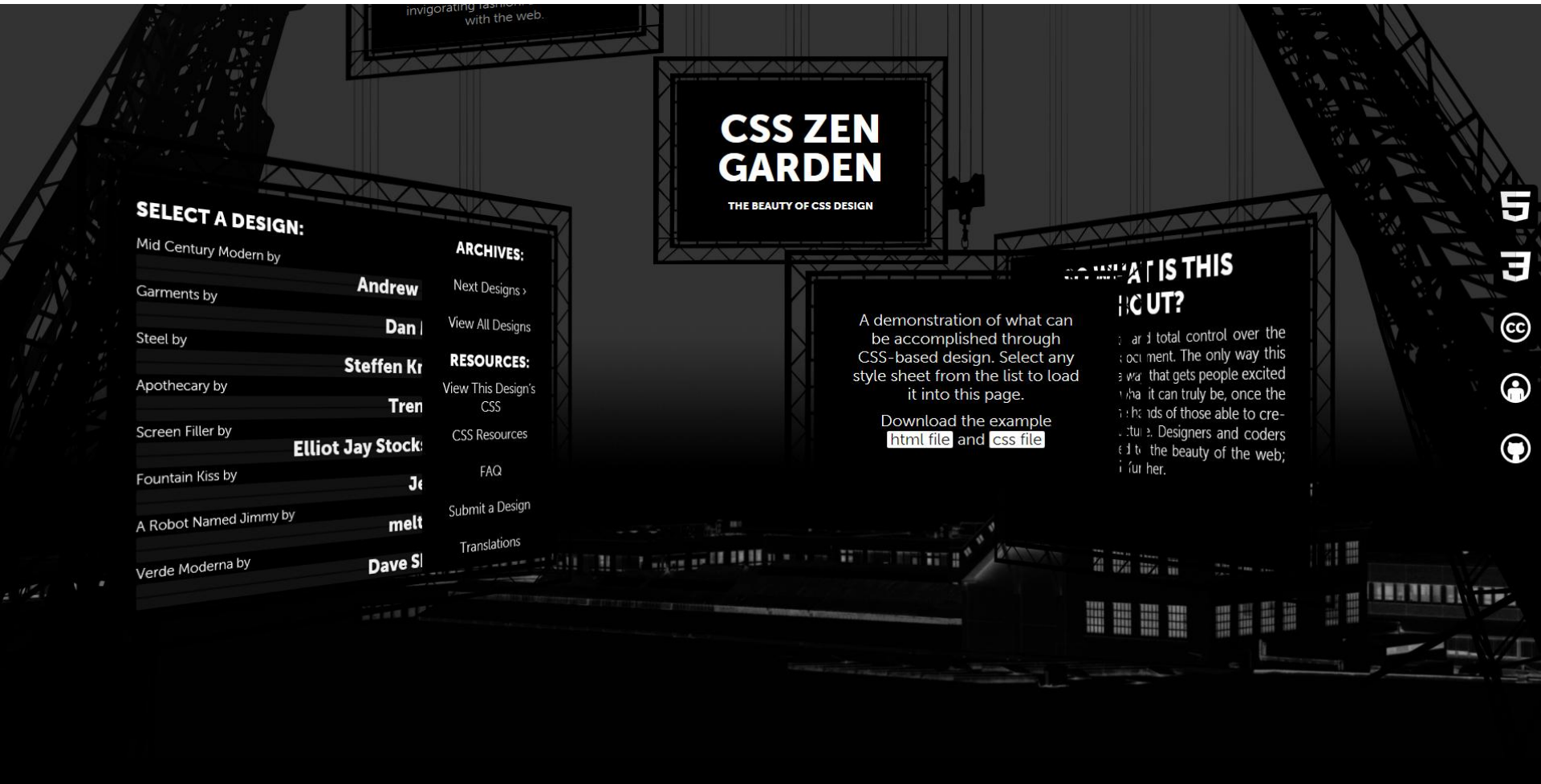
Participation

Strong visual design has always been our focus. You are modifying this page, so strong CSS skills are necessary too, but the example files are commented well enough that even CSS novices can use them as starting points. Please see the [CSS Resource Guide](#) for advanced tutorials and tips on working with CSS.

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CSS Zen Garden



CSS Zen Garden

CSS ZEN GARDEN

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DOWNLOAD THE EXAMPLE [HTML FILE](#) AND [CSS FILE](#)

Select a Design:

[Mid Century Modern](#) by [Andrew Lohman](#)

[Garments](#) by [Dan Mall](#)

[Steel](#) by [Steffen Knoeller](#)

[Apothecary](#) by [Trent Walton](#)

[Screen Filler](#) by [Elliot Jay Stocks](#)

[Fountain Kiss](#) by [Jeremy Carlson](#)

[A Robot Named Jimmy](#) by [meltmedia](#)

[Verde Moderna](#) by [Dave Shea](#)

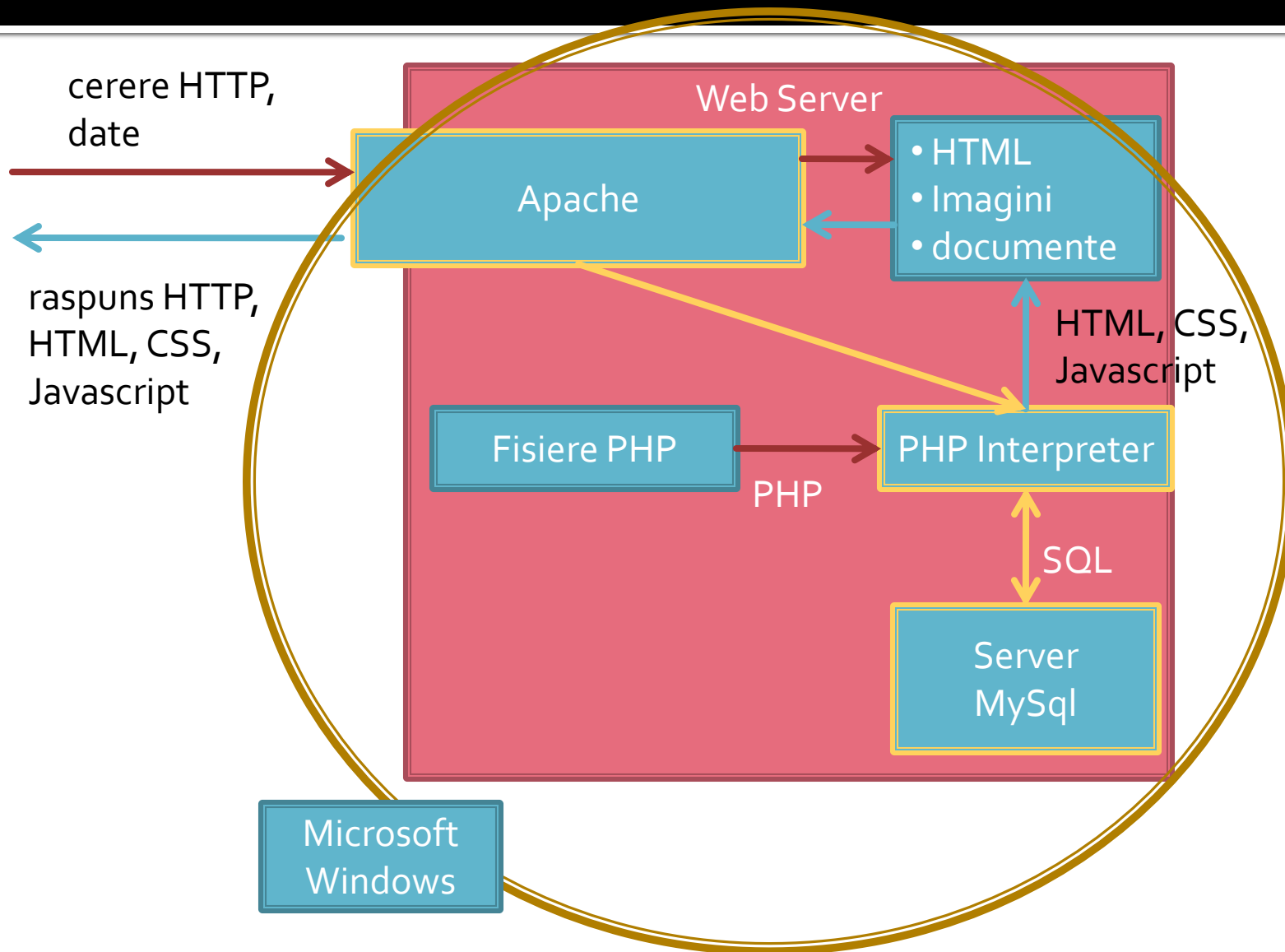
Archives:

[Next Designs](#) ›

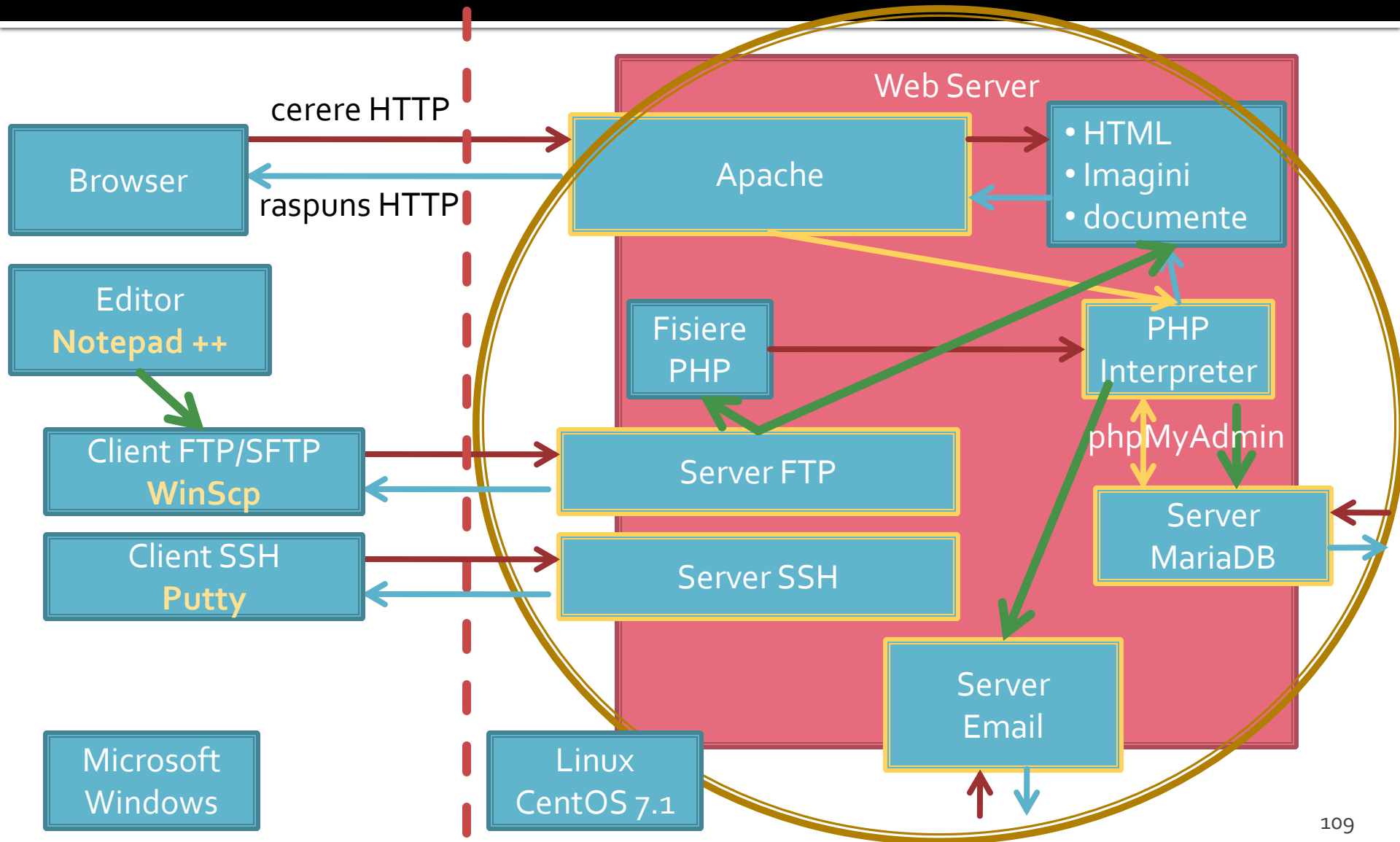
[View All Designs](#)

Laborator 1

Implementare WAMP



Utilizare LAMP



Utilizare LAMP

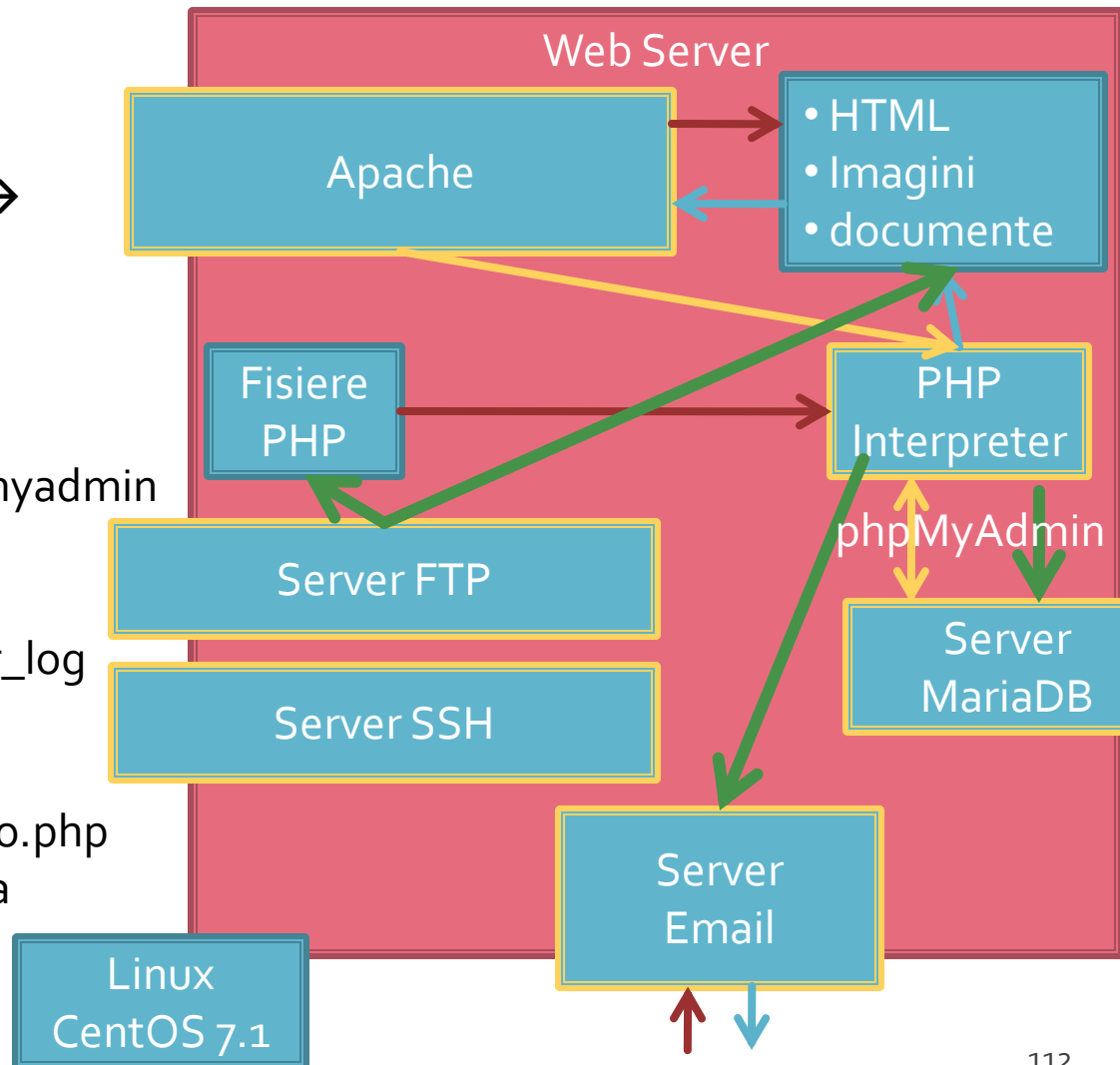
- diferente principale fata de server-ul Windows
 - comenzile in sistem greoaie
 - linie de comanda, SSH, Putty
 - fisierele sunt trimise prin FTP
 - Copy/Paste indisponibil
 - administrarea serverului MySql:
 - prin phpMyAdmin (instalat)
 - prin (eventuale) instrumente instalate pe masina host (MySQL Workbench)

Utilizare LAMP – Avantaje

- Avantaje principale fata de server-ul Windows
 - Aplicatiile au versiuni actualizate
 - CentOS/7.1, Apache/2.4.6, PHP/5.4.16, MariaDB/5.5.44, PhpMyAdmin/4.4.15
 - Aplicatii disponibile similare celor intalnite in practica
 - SSH
 - FTP
 - Email
 - pentru utilizarea deplina a acestor aplicatii este utila trecerea interfetei de retea a masinii virtuale **Host-only** -> **Bridged**

Utilizare LAMP

1. login → root:masterrc
2. ifconfig → 192.168.30.5
3. putty.exe → 192.168.30.5 → SSH → root:masterrc (remote login)
4. [alte comenzi linux dorite]
5. FTP → Winscp → SFTP → student:masterrc@192.168.30.5
6. MySql → http://192.168.30.5/phpmyadmin → root:masterrc
7. Apache Error Log →
 - 7a. putty → nano /var/log/httpd/error_log
 - 7b. http://192.168.30.5/logfile.php (nonstandard)
8. PHP info → http://192.168.30.5/info.php
9. daca serviciul DHCP duce la oprirea Apache: `service httpd restart`



Laborator 2 – HTML/CSS

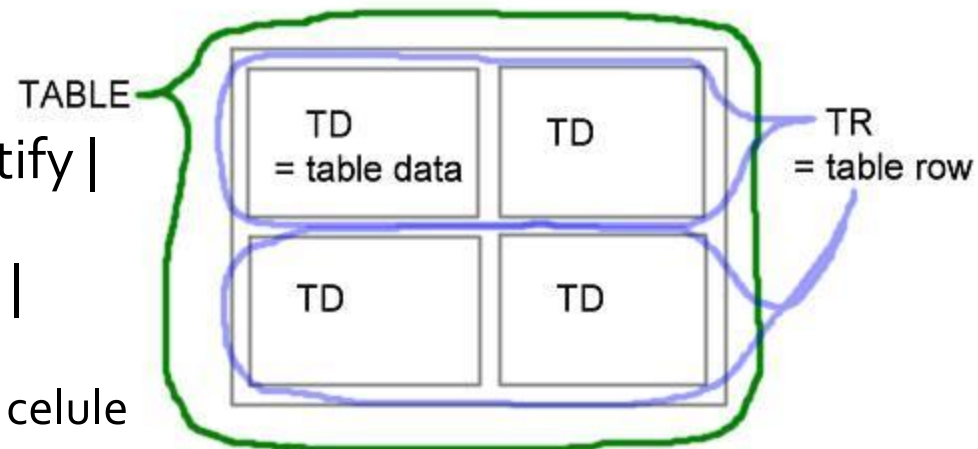
- se creaza o pagina care sa arate ca in schita alaturata
- forma paginilor:
 - tabel
- Se experimenteaza diversele elemente de interactiune cu utilizatorul (<form>)

culoare	IMAGINE	culoare
	Continut (cu alta culoare fundal)	

5.5. Linii

- `<tr>...</tr>` ("table row")
- definește o linie în tabel
- fără efect vizual, este un container **necesar și obligatoriu** pentru celulele tabelului

- attribute:
 - `bgcolor` = "culoare"
 - `align` = "left | center | right | justify | char"
 - `valign` = "top | middle | bottom | baseline"
 - alinierea pe verticală a datelor în celule
 - implicit: "middle"
 - altele: `id`, `class`, `title`, `style` etc.



Laborator 2 – Suplimentar

- forma din schita alaturata
- forma paginilor:
 - tabel controlat prin CSS
 - strict CSS

culoare	IMAGINE	culoare
	Continut (cu alta culoare fundal)	
	Copyright (cu alta culoare fundal)	

Contact

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- <http://rf-opto.etti.tuiasi.ro>
- rdamian@etti.tuiasi.ro