

Lecture 1

2026/2027

Databases, Web Programming and Interfacing

DWPI

- Databases, Web Programming and Interfacing
 - year VI, IT₄T
 - 1C/1L/1P
- Timetable
 - Friday, every week (fiecare saptamana) 1C + 2L (17-20)
 - Room change: from 2.13 to **1.08**
 - Test + Project Presentation: **last week** (Weekend)

Grade

- 25% - Test/Exam – last week – 1h
- 25% - Laboratory
- 50% - Project
 - Personal(80%)/Team(20%)
- ~~Previous~~ database project
 - receives a **web user interface**
 - **split** in individual assignments
 - bonus (individual) for **supplemental embedded systems access!**
 - admin/user – web user interface
 - data supplier – embedded system (even partial)

Project

- self selected homework: available until **19.12** (2 weeks from lecture 9)
- **only** selection from a list after 19.12

Examene online: 2024/2025

Disciplina: DWPI (Databases, Web Programming and Interfacing (eng))

Pas 3

Nr.	Titlu	Start	Stop	Activ	Subiecte	Sustineri	Finalizate	C
1	Individual Subject Final Homework/Project	22/11/2024; 17:00	14/12/2024; 08:00	Activ	Homework project 2023.pdf	1	0	
2	Generic Test Exam	22/11/2024; 11:00	22/03/2025; 16:00	Activ	manual examen en 0.pdf	0	0	

Info

- https://rf-opto.etti.tuiasi.ro/master_it.php

Laboratorul de Microunde si Opt: x +

← → ↻ ⚠ Not secure | rf-opto.etti.tuiasi.ro/master_it.php



English | Romana

Main Courses **Master** Staff Research Students

Radiocommunication Systems Microwave IC Satellite Comm. Web Design Ethics

Databases, Web Programming and Interfacing

Course: DWPI (2021-2022)

Course Coordinator: Assoc.P. Dr. Radu-Florin Damian
Code: ITT.IA.601
Discipline Type: DIS; Required, Specialty
Credits: 5
Enrollment Year: 6, Sem. 11

Activities

Course: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1 Hours/Week, Year, Timetable:
Laboratory: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1 Hours/Week, Year, Timetable:
Project: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1 Hours/Week, Year, Timetable:

Evaluation

Type: Verification

C: 10%, (Tests during semester)
C: 10%, (Tests during semester)
D: 40%, (Homework/Specialty papers)
D: 40%, (Homework/Specialty papers)

Materials

Textbooks

PHP5 and MySQL Bible (pdf, 15.97 MB, en, )
PAW 2021 Curs 1 (pdf, 15.1 MB, ro, )
PAW Curs 1 (video) (mp4, 467.67 MB, ro, )

Project/Design

Server CentOS pentru VMWare Player (cloud) (link, 0 Bytes, en, )
Instalare CentOS (pdf, 2.54 MB, en, )

Online – Registration no.

- access to **online exams** requires the **password** received by email

The password is communicated during the lectures. It is necessary to

Password

Registration no.

Name of the student

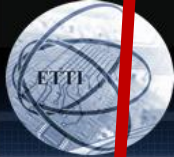
Proposed email 1

Proposed email 2

Write the code below

6fb6953

Send

 **RF-OPTO** 

English | Romana |

Main Courses Master Staff Research **Students**

Login Tutoring

Login

Use the Registration no. and your email or the password received by email

Registration no.

Email/Password

Write the code below

5dd64f9

Send

Online

- access email/password

Main Courses Master Staff Research

Grades Student List Exams Photos

POPESCU GOPO ION

Fotografia nu exista

Date:

Grupa	5700 (2019/2020)
Specializarea	Inginerie electronica si telec
Marca	7000000

You access the site as **this student!**

Main Courses Master Staff Research

Grades Student List Exams Photos

POPESCU GOPO ION

Fotografia nu exista

Date:

Grupa	5700 (2019/2020)
Specializarea	Inginerie electronica si telec
Marca	7000000

You access the site as **this student (including exams)!**

Online

- access email/password

Main Courses Master Staff Research

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Fotografia nu exista

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Grupa	5700 (2019/2020)
Specializarea	Inginerie electronica si telec
Marca	7000000

You access the site as **this student (including exams)!**

Password

■ received by email

Important message from RF-OPTO

Inbox x



Radu-Florin Damian

to me, POPESCU

🌐 Romanian > English [Translate message](#)



Laboratorul de Microunde si Optoelectronica
Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei
Universitatea Tehnica "Gh. Asachi" Iasi

In atentie: POPESCU GOPO ION

Parola pentru a accesa examenele pe server-ul **rf-opto** este

Parola: [REDACTED]

Identificati-va pe [server](#), cu parola, cat mai rapid, pentru confirmare.

Memorati acest mesaj intr-un loc sigur, pentru utilizare ulterioara

Attention: POPESCU GOPO ION

The password to access the exams on the **rf-opto** server is

Password: [REDACTED]

Login to the [server](#), with this password, as soon as possible, for confirmation.

Save this message in a safe place for later use

↩ Reply

↩↩ Reply all

➡ Forward

Subject	Correspondents
Important message from RF-OPTO	POPESCU GOPO ION
Validation of MD/CR exam from 02/05/2020	[REDACTED]
[REDACTED]	[REDACTED]

From: Me <rdamian@etti.tuiasi.ro> ★

Subject: Important message from RF-OPTO

To: [REDACTED]

Cc: Me <rdamian@etti.tuiasi.ro> ★



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Password: [REDACTED]

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Save this message in a safe place for later use

Online exam manual

- The online exam app used for:
 - lectures (attendance)
 - laboratory
 - project
 - examinations

Materials

Other data

[Manual examen on-line](#) (pdf, 2.65 MB, ro, )

[Simulare Examen](#) (video) (mp4, 65.12 MB, ro, )

Microwave Devices and Circuits (Englis

Examen online

- always against a **timetable**
 - long period (project submission/laboratory results)
 - short period (tests: 15min, exam: 2h)

The screenshot shows a web interface for an online exam. At the top, a horizontal timeline bar contains several stages: 'Announcement' (23:59 (10/05/2020)), 'Support material' (00:05 (11/05/2020)), 'Exam Topics' (00:07 (11/05/2020)), 'Results' (00:10 (11/05/2020)), 'End' (00:20 (15/05/2020)), and 'Confirmation' (00:20 (16/05/2020)). The 'Announcement' stage is highlighted with a red circle. To the right of the timeline, a red circle highlights the text 'Next timeframe in: 05 m 43 s' and a blue link 'Refresh now'. Below the timeline, the section 'Announcement' is displayed, followed by a paragraph explaining that this is a 'fake' exam for familiarization. Below that, the 'Server Time' section shows the current time as '10/05/2020 23:59:16', which is also circled in red.

Announcement	Support material	Exam Topics	Results	End	Confirmation
23:59 (10/05/2020)	00:05 (11/05/2020)	00:07 (11/05/2020)	00:10 (11/05/2020)	00:20 (15/05/2020)	00:20 (16/05/2020)

Next timeframe in: 05 m 43 s
[Refresh now](#)

Announcement

This is a "fake" exam, introduced to familiarize you with the server interface and to perform the necessary actions during an exam: thesis scan, selfie, use email for co

Server Time

All exams are based on the server's time zone (it may be different from local time). For reference time on the server is now:

10/05/2020 23:59:16

2026/2027

Project

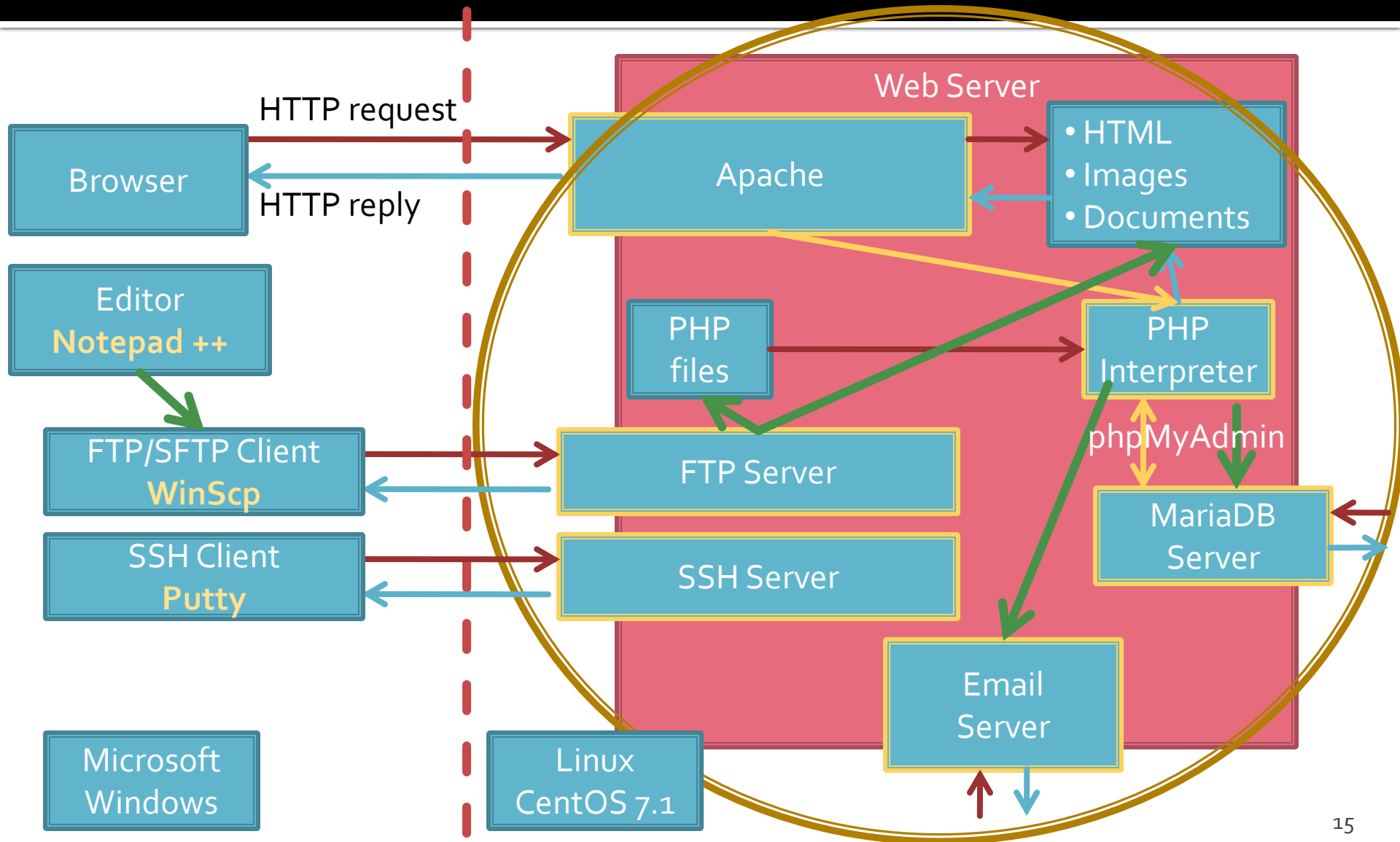
Project

- Submission: **On-site**
- Presentation (in front of the colleagues) + files submission
- 3 files
 - **1 *.pdf** (print-screen while using the application, short usage instructions, a mini-user manual for the application) (**personal**)
 - **1 *.sql** (backup of the database required to run the application) (**team**)
 - archive of the application (inside: files *.php, *.jpg, folder tree etc., archived: ***.zip, *.7z** etc.) (**team/personal**)

Project grading

- (2p) the application runs on the **reference server** (can be downloaded from [rf-opto](#): Debian, php 8 **or** Ubuntu, php 7 **or** CentOS 7, php 5): extract files from the ***.zip** archive in a folder on the server, restore database from the ***.sql** backup file
- (2p) the ***.pdf** file containing the user manual exists and is appropriate for the submitted application
- (2p) the application **flowchart** has been submitted and contains appropriate data
- (4p) presentation on-site of the **application**

Using LAMP



Using LAMP

- differences from a Windows computer
 - system commands difficult
 - command prompt, SSH, Putty
 - files submitted by FTP
 - Copy/Paste unavailable
 - administration of MySql server:
 - using PhpMyAdmin (preloaded)
 - using other software on the host computer (eg. MySQL Workbench)

Using LAMP – Advantages

- Advantages
 - Available applications have newer versions (**2020 ~**)
 - CentOS/7.1, Apache/2.4.6, PHP/5.4.16, MariaDB/5.5.44, PhpMyAdmin/4.4.15
 - Ubuntu/20.04, Apache/ 2.4.41, PHP/ 7.4.3, MariaDB/ 10.3.31, PhpMyAdmin/4.9.5
 - Debian/12.5, Apache/ 2.4.57, PHP/ 8.2.7, MariaDB/ 10.11.6, PhpMyAdmin/5.2.1
 - Available applications very similar with real life hosting solutions
 - SSH
 - FTP
 - Email
 - for full functionality the network interface for the VM must be changed
Host-only -> **Bridged**

Reference Server

- rf-opto.etti.tuiasi.ro > Master > Web Design

Project/Design

[VMware Workstation Player](#) (link, 0 Bytes, en, )

[Ubuntu VM for VMWare](#) (link, 0 Bytes, en, )

[Ubuntu Setup](#) (pdf, 1.83 MB, en, )

[Centos VM for VMWare](#) (link, 0 Bytes, en, )

[Centos Setup](#) (pdf, 2.54 MB, en, )

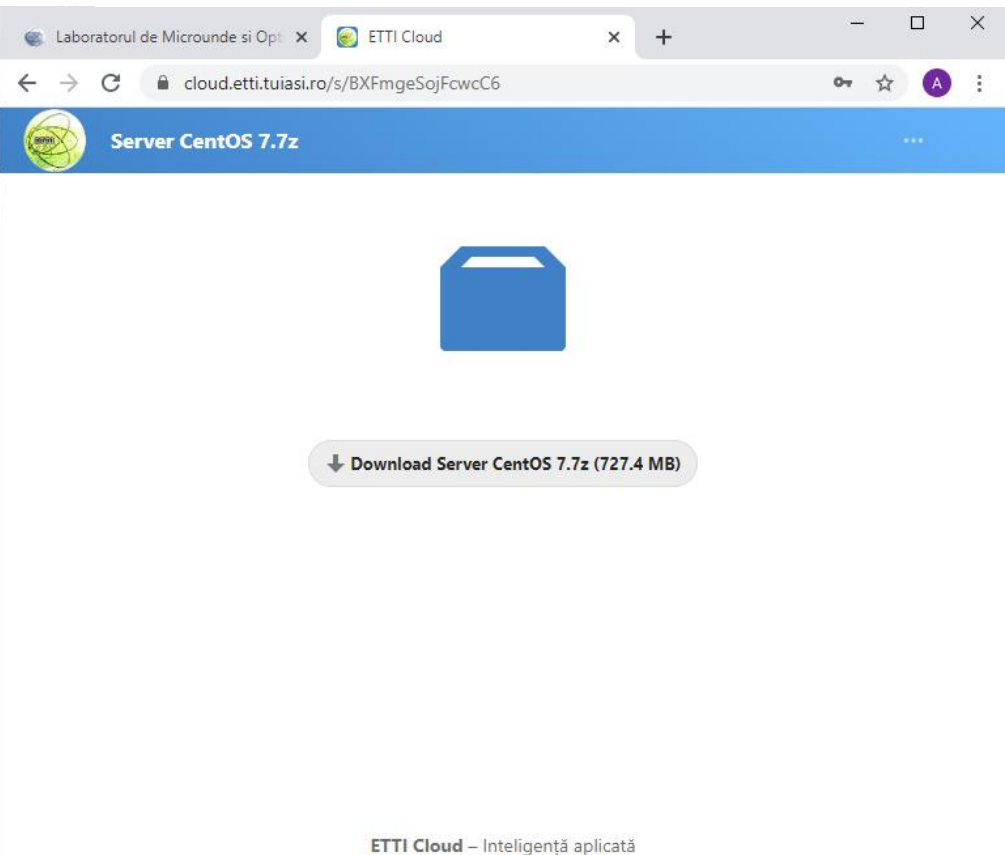
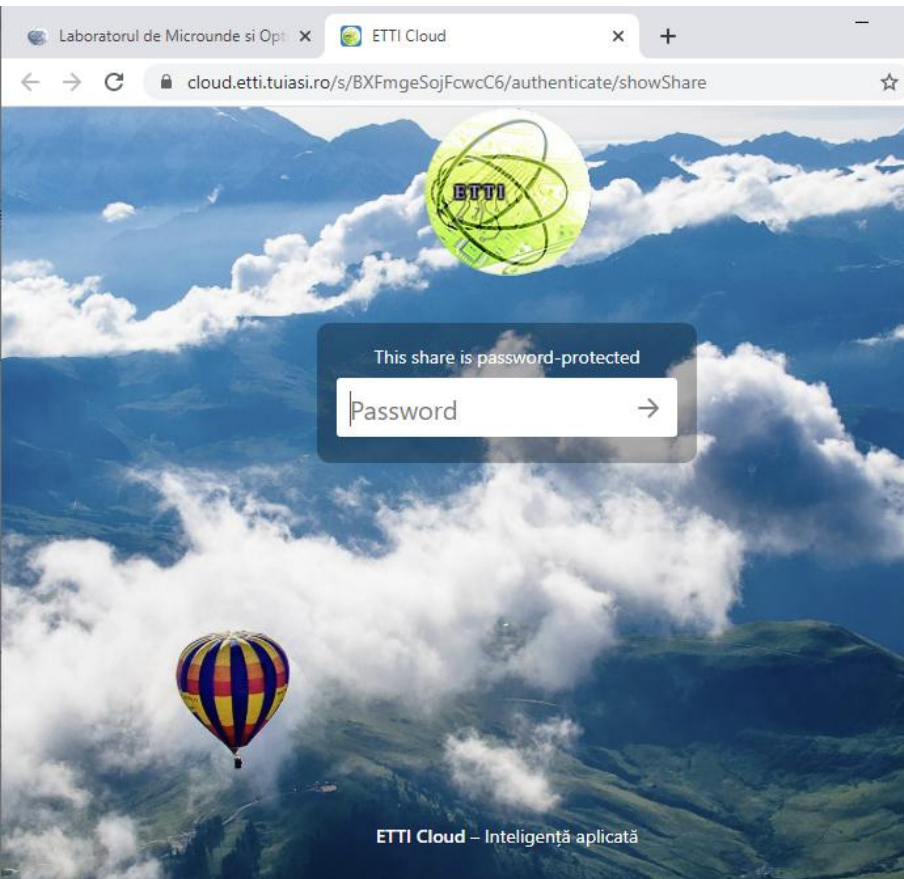
Examen

[Online Exam manual](#) (pdf, 2.56 MB, en, )

[Manual examen on-line](#) (pdf, 2.65 MB, ro, )

Reference Server

■ Cloud ETTI: RF-opto3#



Reference Server

- Virtual machine
- VMware Workstation Player
 - Free (non-commercial)
 - <https://www.vmware.com/products/workstation-player/workstation-player-evaluation.html>
- Replaced by VMware Workstation Pro



VMware Workstation Pro for PC

Build and test nearly any app with the world's leading desktop hypervisor app for Windows and Linux.

[DOWNLOAD NOW >](#)

Reference Server

- Masina virtuala
- VMware Workstation Pro (Broadcom)



VMware Workstation Pro for PC

Build and test nearly any app with the world's leading desktop hypervisor app for Windows and Linux.

[DOWNLOAD NOW >](#)



Broadcom Inc. Customer sign-in

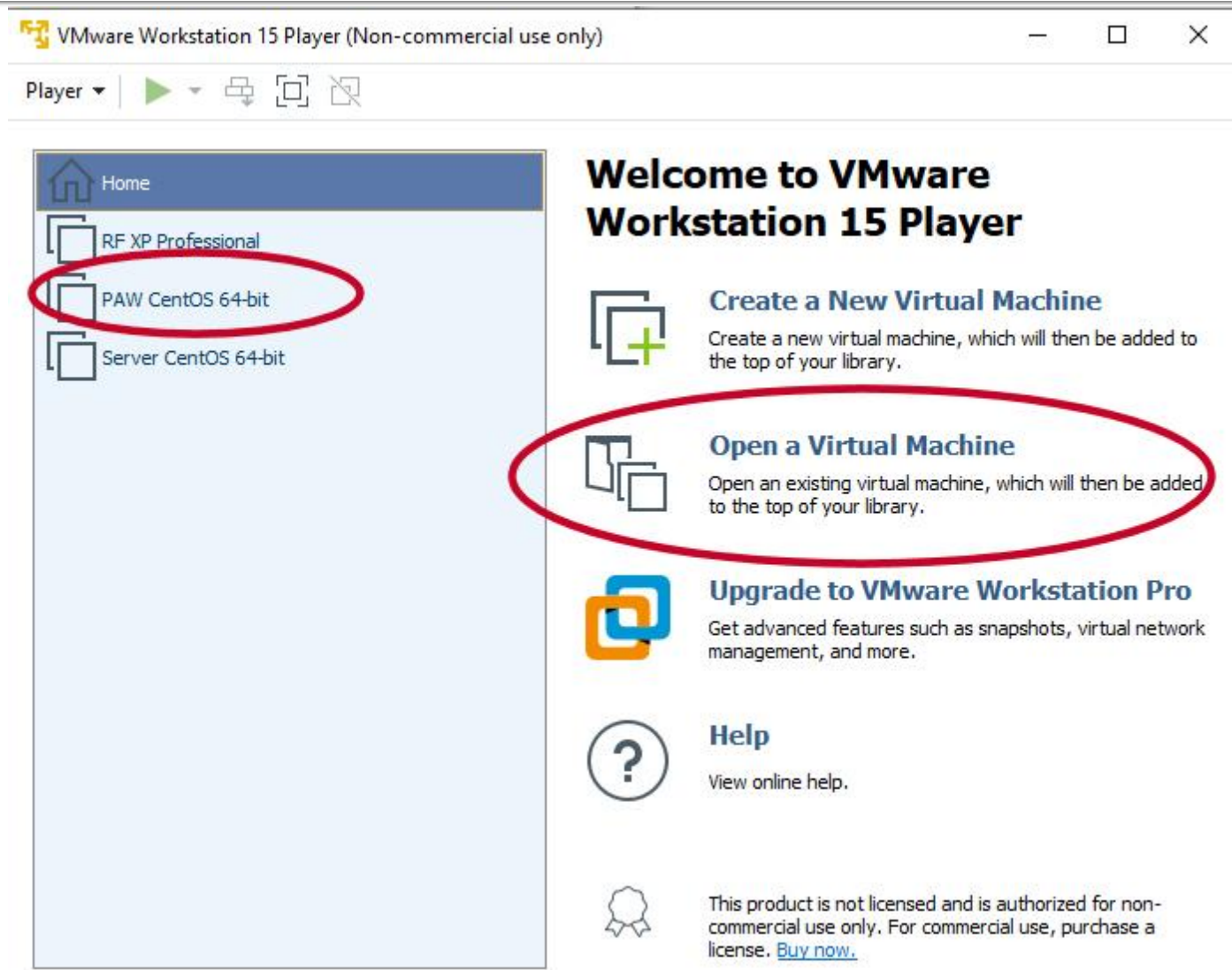
Username

Enter your username

☐ Remember me

Next

Reference Server

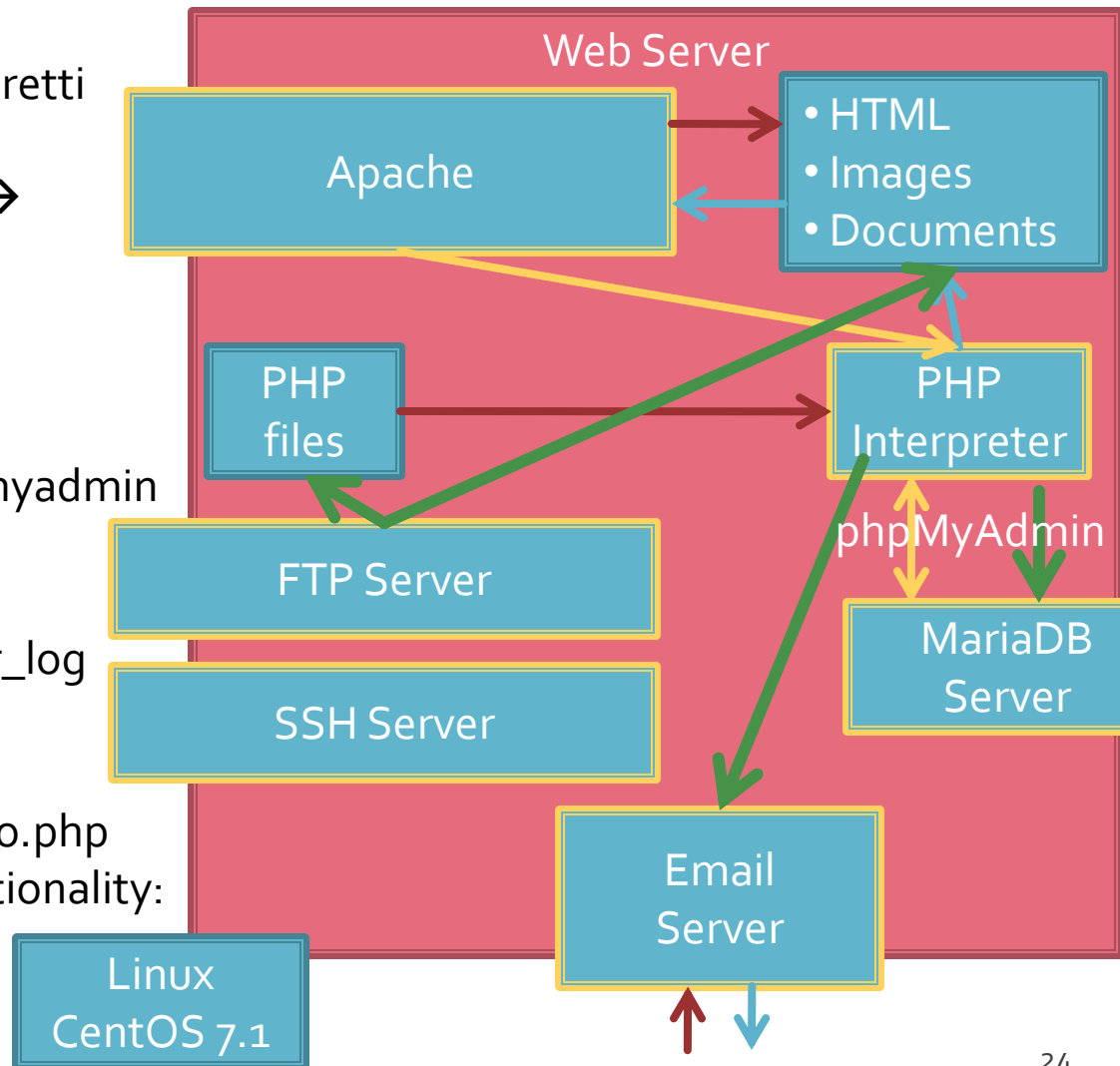


Possible problems

- Current VMWare Player runs **only** on **64bit** operating systems Windows/Linux
 - for 32bit operating systems previous (**certified originals**) can be made available on rf-opto
- The host computer **must** enable **Hardware Virtualization**
 - Hardware Virtualization is enabled in BIOS, depending on the PC manufacturer: Processor, Chipset, Northbridge
 - Options name: VT-x, AMD-V, Vanderpool, Hyper-V, SVM, Intel Virtualization Technology. if available: Intel VT-d, AMD IOMMU
- VM archive requires **7zip** native to the target operating system

Using LAMP

1. login → root:masterrc / paw:masteretti
2. ifconfig → 192.168.30.5
3. putty.exe → 192.168.30.5 → SSH → root:masterrc (remote login)
4. [other linux command line]
5. FTP → Winscp → SFTP → student:masterrc@192.168.30.5
6. MySql → http://192.168.30.5/phpmyadmin → root:masterrc / root:masteretti
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. if DHCP service stops Apache functionality:
service httpd restart



LAMP Reference Server 2023

- Linux, two variants
 - Centos 7.1
 - PHP 5.4.16
 - MariaDB 5.5.44
 - Apache 2.4.6
 - **root**/student:masterrc
 - Ubuntu 20.04 (**recommended**)
 - PHP 7.4.3
 - MariaDB 10.3.31
 - Apache 2.4.41
 - **paw**/student:masteretti
 - correction **paw FTP access**:
 - sudo usermod -a -G upload paw
 - sudo chmod -R 775 /var/www

LAMP Reference Server 2026

- Linux, three proposed servers
 - CentOS 7.1
 - Ubuntu 20.04
 - **Debian 12.5 (recommended)**

LAMP Reference Server

- Centos 7.1
 - PHP **5.4.16**
 - MariaDB 5.5.44 / root:masterrc
 - Apache 2.4.6
 - PhpMyAdmin/4.4.15
 - **root**/student:masterrc
 - Python 2.7.5
 - created: Workstation Player 12.x (**12**)

LAMP Reference Server

- Ubuntu 20.04
 - PHP **7.4.3**
 - MariaDB 10.3.31 / root:masteretti
 - Apache 2.4.41
 - **paw**/student:masteretti
 - correction **paw user FTP access**:
 - `sudo usermod -a -G upload paw`
 - `sudo chmod -R 775 /var/www`
 - Python 3.8.10
 - created : Workstation Player 15.x (**16**)

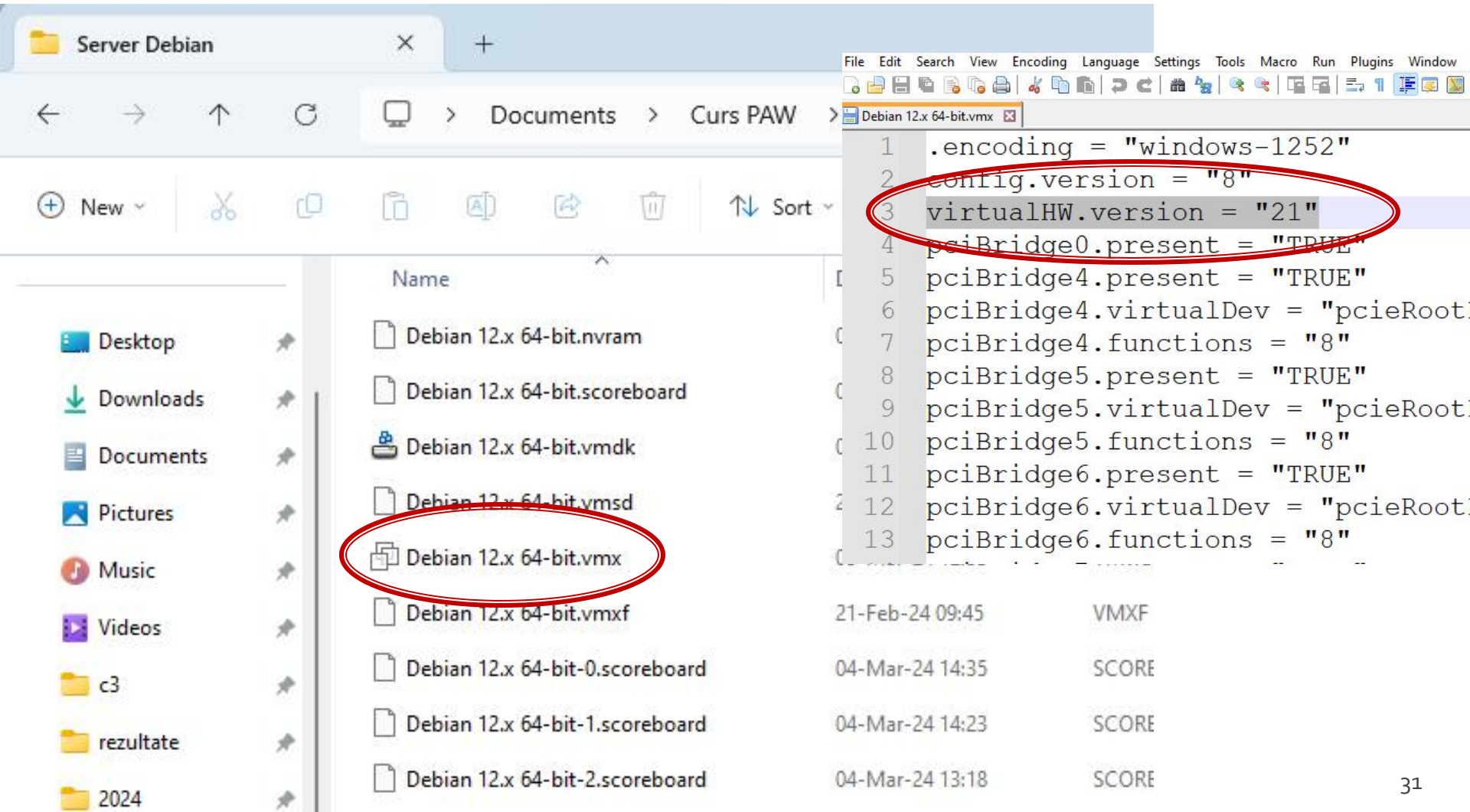
LAMP Reference Server

- Debian 12.5
 - PHP **8.2.7**
 - MariaDB 10.11.6 / root:masteretti
 - Apache 2.4.57
 - PhpMyAdmin/5.2.1 deb
 - **root**/paw/student:masteretti
 - Python 3.11.2
 - created : Workstation Player 17.5 (**21**)

LAMP Reference Server

- To run a server on an earlier version of VMware Player:
 - locate the server's "*.vmx" file
 - change virtualHW.version = "**21**" to a lower (earlier) value
 - in 2.13/1.08 -> **18**

LAMP Reference Server



Support applications

- WinSCP (client FTP, gratuit)
 - <https://winscp.net/eng/download.php>
- Notepad ++ (editor, avansat, gratuit)
 - <https://notepad-plus-plus.org/downloads/>
- Putty (remote access)
 - <https://www.putty.org/>
- MySQL Workbench (gratuit, cont Oracle)
 - <https://www.mysql.com/products/workbench/>
- Visual Studio Code (gratuit, Microsoft)
 - <https://code.visualstudio.com/download>

Support applications

- Portable applications (for lab, install for home)

Laboratory

[Laborator 1](#) (pdf, 1.48 MB, ro, 🇷🇴)

[Server Win2000 pentru VMWare Player - lab 1](#) (cloud) (link, 0 Bytes, en, 🇬🇧)

[Accesorii laborator \(x32 - partial\)](#) (zip, 28.92 MB, en, 🇬🇧)

[Accesorii laborator \(x64 - complet\)](#) (zip, 133.58 MB, en, 🇬🇧)

Project/Design

[VMware Workstation Player](#) (link, 0 Bytes, en, 🇬🇧)

[Server CentOS pentru VMWare Player](#) (cloud) (link, 0 Bytes, en, 🇬🇧)

[Instalare Centos](#) (pdf, 2.54 MB, en, 🇬🇧)

[Server Ubuntu pentru VMWare Player](#) (cloud) (link, 0 Bytes, en, 🇬🇧)

[Instalare Ubuntu](#) (pdf, 1.82 MB, en, 🇬🇧)

IP address

- login, ifconfig
- Ctrl + Alt + mouse

PAW CentOS 64-bit - VMware Workstation 15 Player (Non-commercial use only)

Player ▾ || ▾ ⏏ ⏏ ⏏

```
CentOS Linux 7 (Core)
Kernel 3.10.0-229.20.1.el7.x86_64 on an x86_64

tmpaw login: root
Password:
Last login: Wed Jun 17 05:35:16 from 192.168.0.106
[root@tmpaw ~]# ifconfig
```

PAW CentOS 64-bit - VMware Workstation 15 Player (Non-commercial use only)

Player ▾ || ▾ ⏏ ⏏ ⏏

```
CentOS Linux 7 (Core)
Kernel 3.10.0-229.20.1.el7.x86_64 on an x86_64

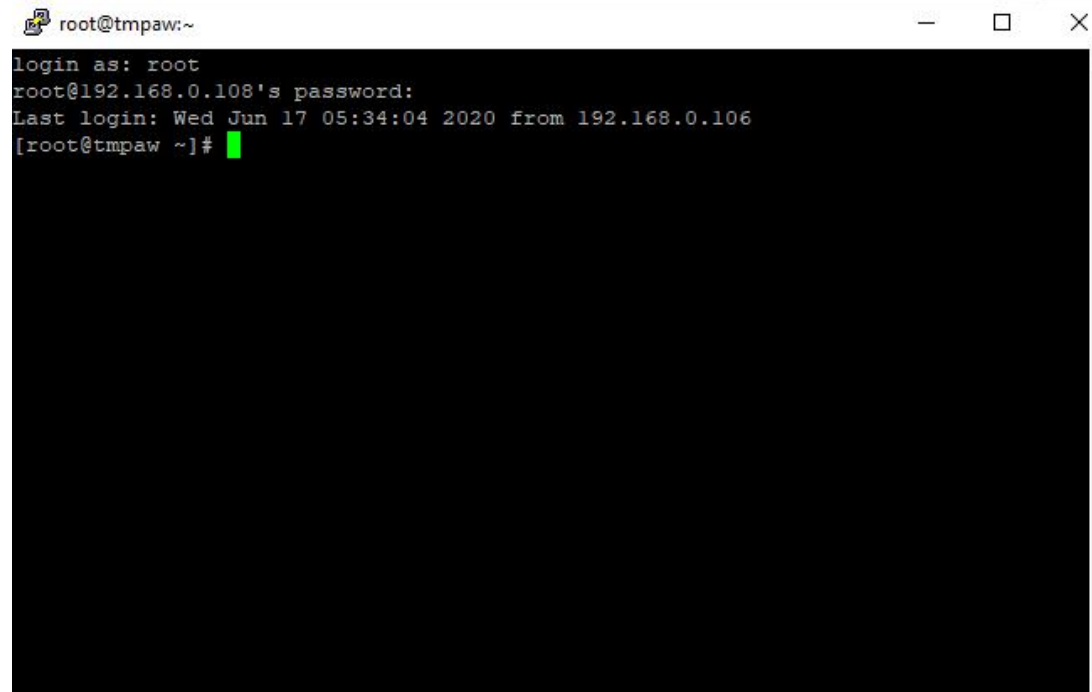
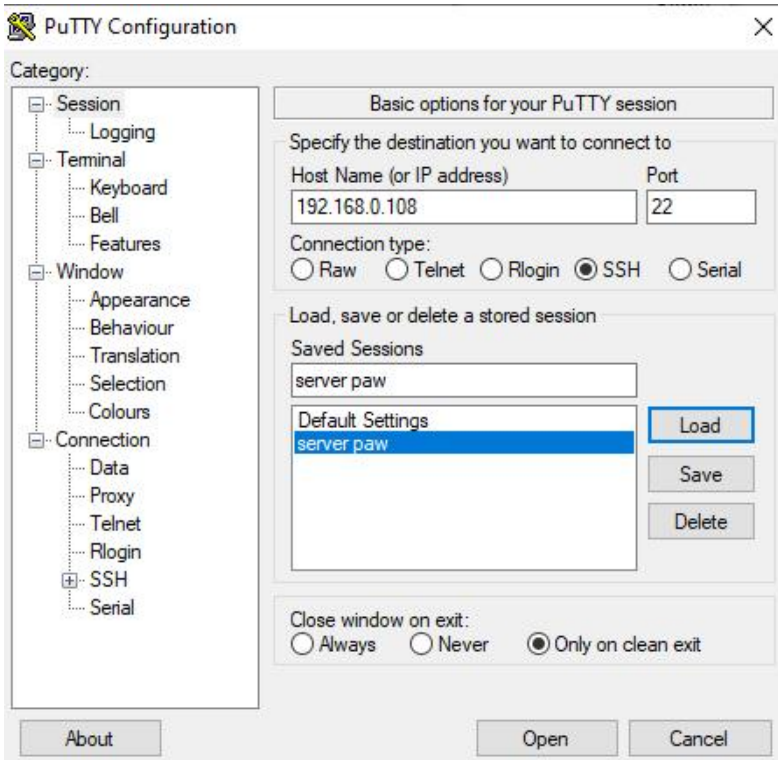
tmpaw login: root
Password:
Last login: Wed Jun 17 05:35:16 from 192.168.0.106
[root@tmpaw ~]# ifconfig
eno16777736: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.108 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::250:56ff:fe3e:1693 prefixlen 64 scopeid 0x20<link>
    ether 08:00:56:3e:16:93 txqueuelen 1000 (Ethernet)
    RX packets 104 bytes 12814 (12.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 99 bytes 11847 (11.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 0 (Local Loopback)
    RX packets 16 bytes 1774 (1.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 16 bytes 1774 (1.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@tmpaw ~]# _
```

Putty

- putty.exe
- avoids mouse capture (CentOS), copy/paste etc.



WinSCP

- FTP client
- upload files

Session

File protocol:
SFTP

Host name: 192.168.0.108 Port number: 22

User name: student Password:

Edit Advanced...

Login Close Help

html - student@192.168.0.108 - WinSCP

File Commands Mark Session View Help

Address /var/www/html

Find Files Download Edit Properties New Synchronize

Transfer Settings Default

student@192.168.0.108 x New Session

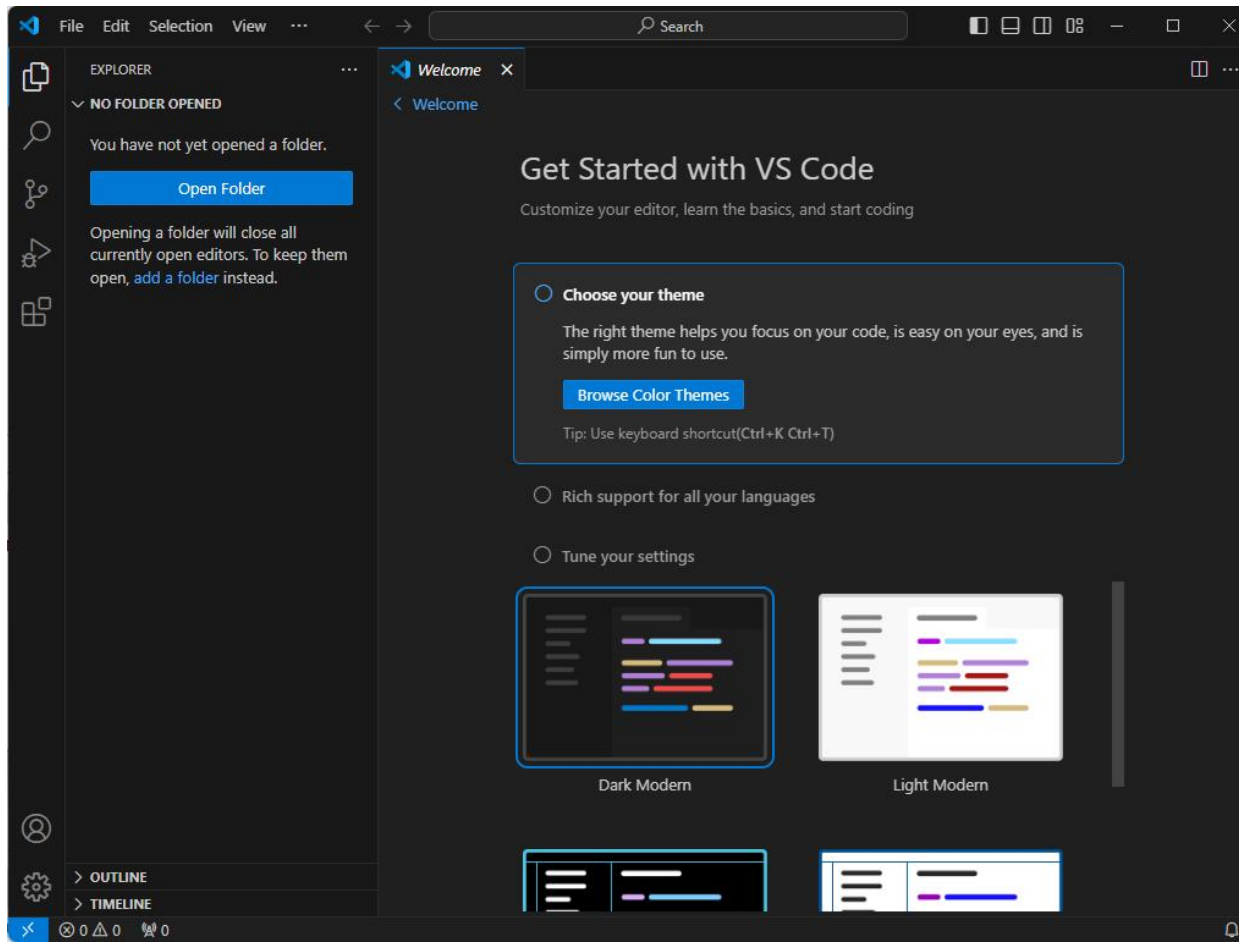
Name	Size	Changed	Rights
ap.log	1 KB	2/29/2016 11:28:50 AM	rw-rw-r
info.php	1 KB	9/30/2009 3:23:00 PM	rw-rw-r
logfile.php	4 KB	12/6/2015 12:05:08 PM	rw-rw-r
test.php	2 KB	2/29/2016 12:04:12 PM	rw-rw-r

0 B of 5.09 KB in 0 of 4

SFTP-3 1, 21:06:30

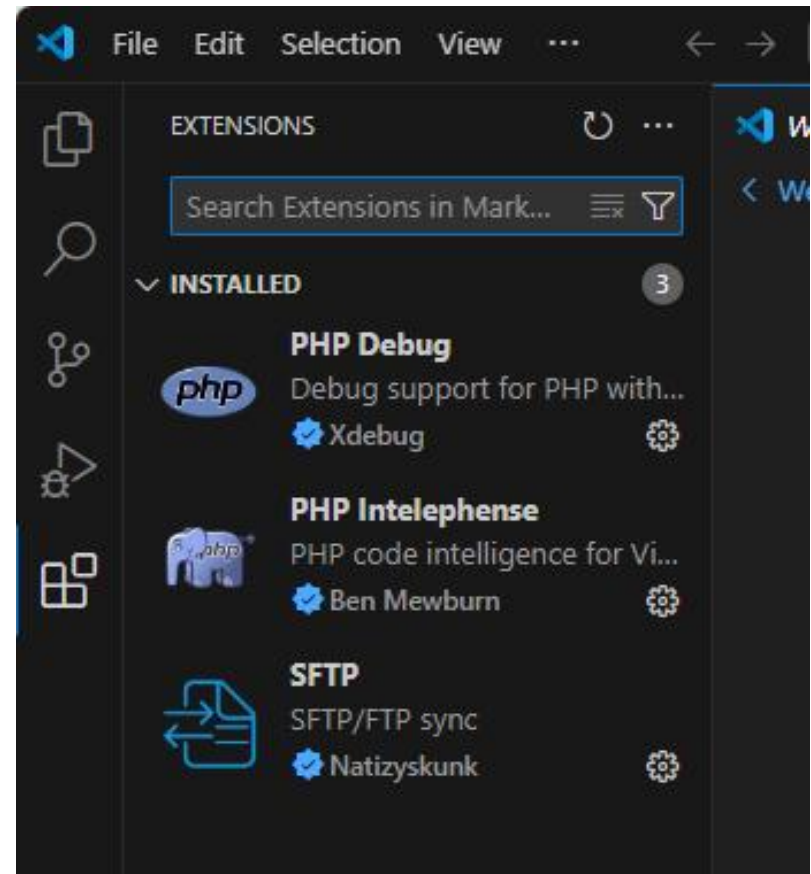
Visual Studio Code

■ 1.87 Portable

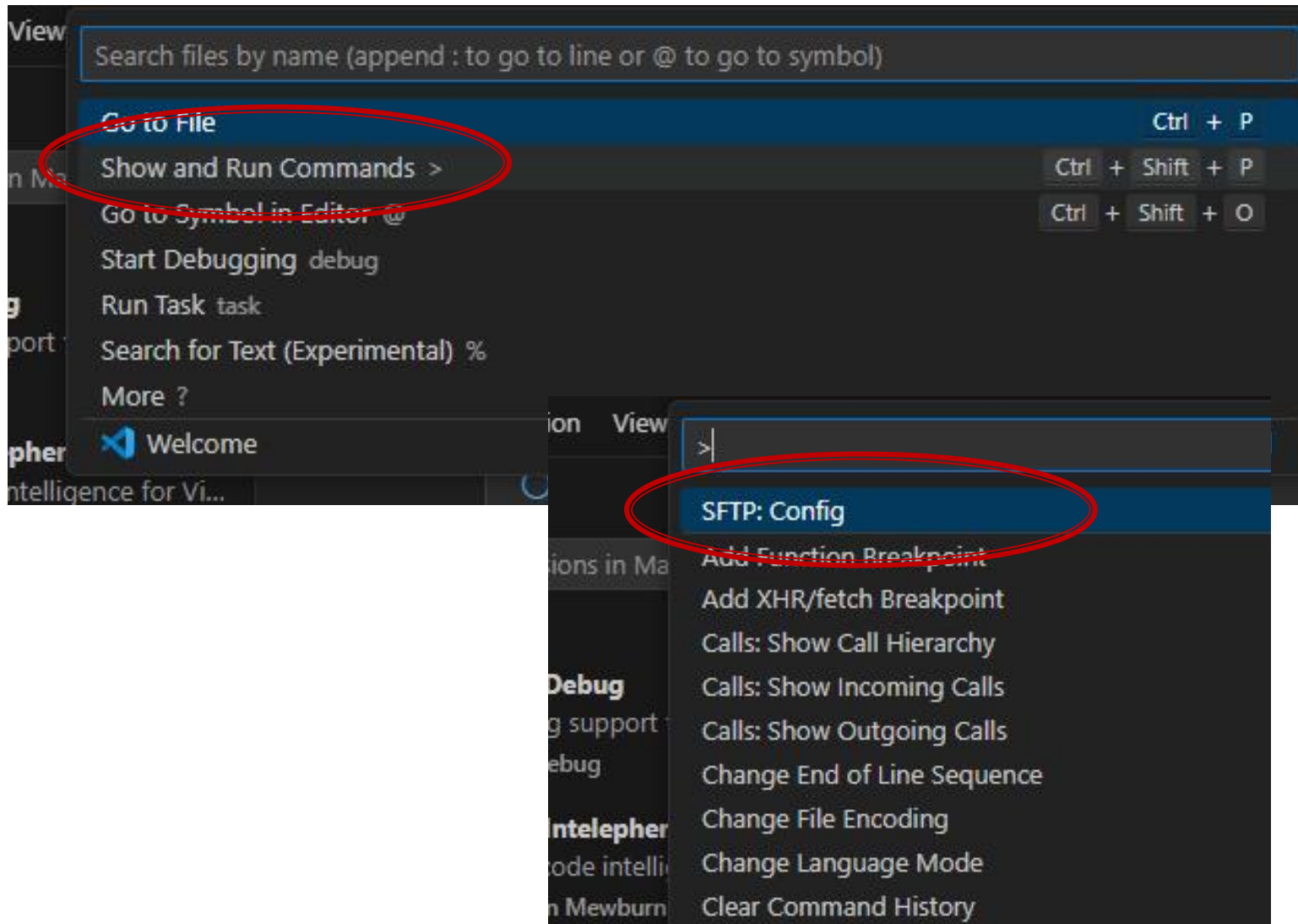


Visual Studio Code

- Installed extensions
 - PHP Intelephense
 - PHP 8 -> Debian
 - PHP Debug (inactive for now)
 - SFTP – automatic save on server



Visual Studio Code

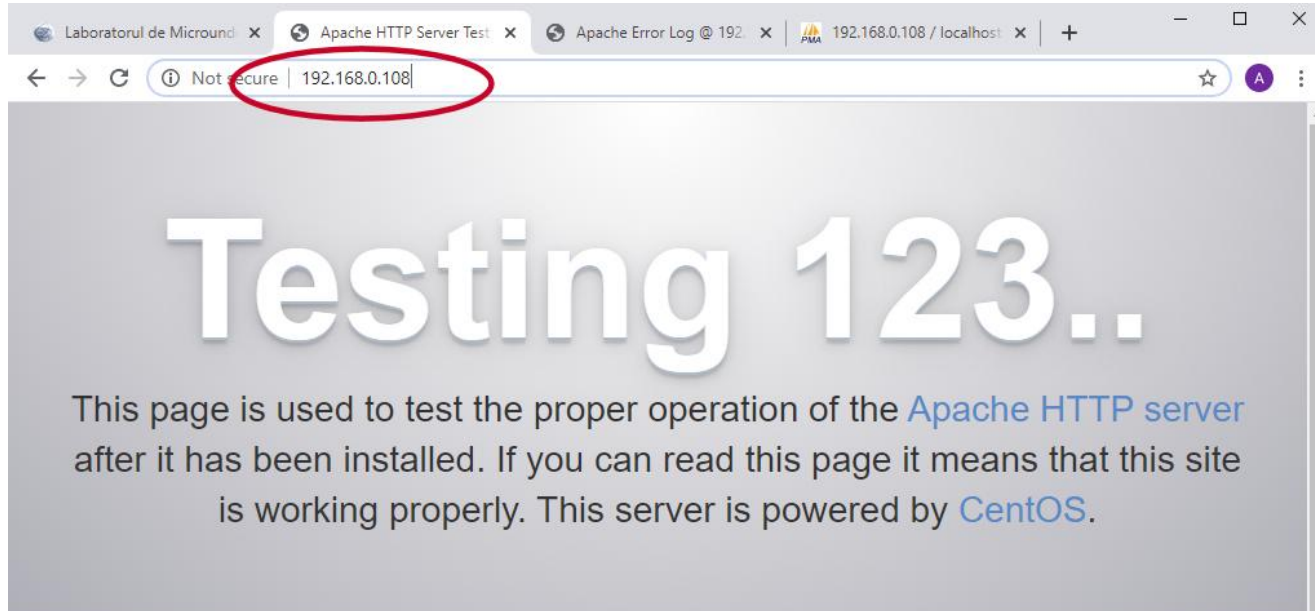


Visual Studio Code

```
{ } sftp.json x
.vscode > { } sftp.json > ...
1  {
2    "name": "My Server",
3    "host": "localhost",
4    "protocol": "sftp",
5    "port": 22,
6    "username": "username",
7    "remotePath": "/",
8    "uploadOnSave": false,
9    "useTempFile": false,
10   "openSsh": false
11 }
12
```

```
{ } sftp.json •
.vscode > { } sftp.json > ...
1  {
2    "name": "Debian Server",
3    "host": "192.168.30.5",
4    "protocol": "sftp",
5    "port": 22,
6    "username": "student",
7    "remotePath": "/var/www/html/",
8    "uploadOnSave": true,
9    "useTempFile": false,
10   "openSsh": false
11 }
12
```

Browser



Just visiting?

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting `www.example.com`, you should send e-mail to `"webmaster@example.com"`.

Are you the Administrator?

You should add your website content to the directory `/var/www/html/`.

To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

Promoting Apache and CentOS

You are free to use the images below on Apache and CentOS Linux powered HTTP servers. Thanks for using Apache and CentOS!



Server MySQL/MariaDB

The screenshot shows a web browser window with the phpMyAdmin interface. The address bar shows the URL `192.168.0.108/phpmyadmin/`, which is circled in red. The interface includes a left sidebar with a tree view of databases (information_schema, mysql, performance_schema, tmpaw, world) and a main content area with several settings panels. The 'General Settings' panel shows 'Server connection collation' set to 'utf8mb4_unicode_ci'. The 'Appearance Settings' panel shows 'Language' set to 'English' and 'Theme' set to 'pmahomme'. The 'Database server' panel lists server details: 'Server: Localhost via UNIX socket', 'Server type: MariaDB', 'Server version: 5.5.44-MariaDB - MariaDB Server', 'Protocol version: 10', 'User: root@localhost', and 'Server charset: UTF-8 Unicode (utf8)'. The 'Web server' panel lists: 'Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips mod_fcgid/2.3.9 PHP/5.4.16 mod_python/3.5.0- Python/2.7.5', 'Database client version: libmysql - 5.5.44-MariaDB', 'PHP extension: mysqli', and 'PHP version: 5.4.16'. The 'phpMyAdmin' panel lists: 'Version information: 4.4.15.1', 'Documentation', 'Wiki', 'Official Homepage', 'Contribute', 'Get support', and 'List of changes'.

Browser tabs: Laboratorul de Microind., Apache HTTP Server Test, Apache Error Log @ 192, 192.168.0.108 / localhost

Address bar: 192.168.0.108/phpmyadmin/

phpMyAdmin interface:

- Recent | Favorites
- Left sidebar: New, information_schema, mysql, performance_schema, tmpaw, world
- Main content area: Server: localhost
- General Settings: Change password, Server connection collation: utf8mb4_unicode_ci
- Appearance Settings: Language: English, Theme: pmahomme, Font size: 82%, More settings
- Database server: Server: Localhost via UNIX socket, Server type: MariaDB, Server version: 5.5.44-MariaDB - MariaDB Server, Protocol version: 10, User: root@localhost, Server charset: UTF-8 Unicode (utf8)
- Web server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips mod_fcgid/2.3.9 PHP/5.4.16 mod_python/3.5.0- Python/2.7.5, Database client version: libmysql - 5.5.44-MariaDB, PHP extension: mysqli, PHP version: 5.4.16
- phpMyAdmin: Version information: 4.4.15.1, Documentation, Wiki, Official Homepage, Contribute, Get support, List of changes

Introduction

Applications

★ Favorites BCC e-SMART

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

Conturi Plati Depozite **Rapoarte** Setari  AJUTOR Deconectare

Rulare raport Vizualizare rapoarte

ATENTIE!
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 nimanei, sub niciun motiv.
Pentru alte lamuriri, puteti apela 0800.807.807 (numar accesibil din reteaaua Romtelecom).
Aveti posibilitatea sa alegeti procesarea in regim de urgenta a platilor. Aceasta optiune se comisioneaza 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

Applications

www.bcr.ro

Home Contact English Contact center Go Cauta Go

CLICK 24Banking 24 Banking Persoane fizice Private banking Timeri PFA Micro Corporatii IMM Municipalitati Despre noi Cariere Presa

Lista de conturi Conturi curente Economisire Finantare

Ordin de Plata - Creare

03.03.2010 14:24:03 Help

Stare cont	Tip	Numar cont	Sold disponibil	Valuta
Activ	Conturi curente			RON

Detalii

Sablon personal Selectati sablon

Sablon furnizor Selectati sablon

IBAN beneficiar

Verificare IBAN

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!

Tarife si comisioane detalii

Intrebari si Raspunsuri detalii

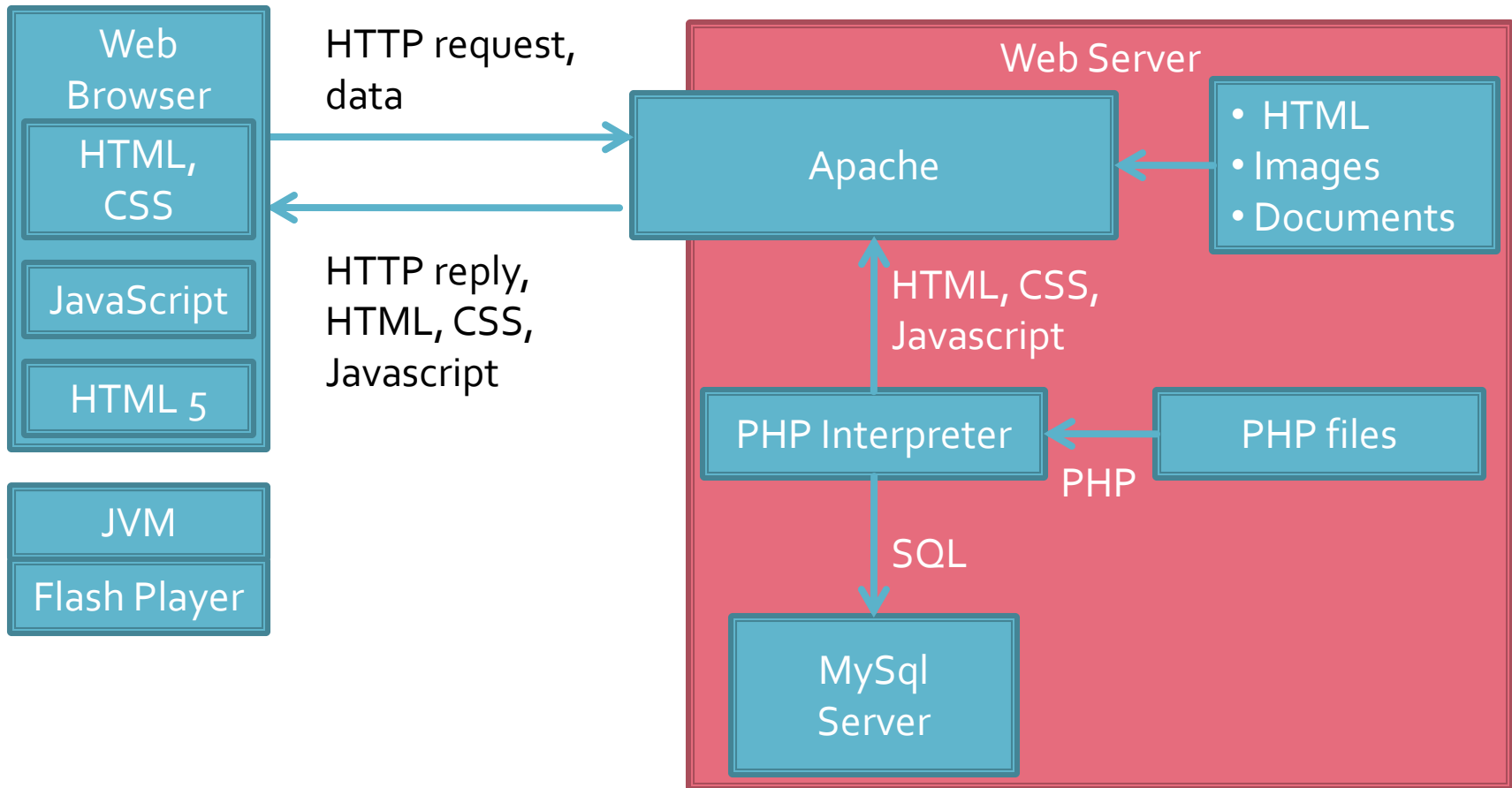
24 Banking detalii

Aveti mesaje noi Citire

Contact center detalii

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

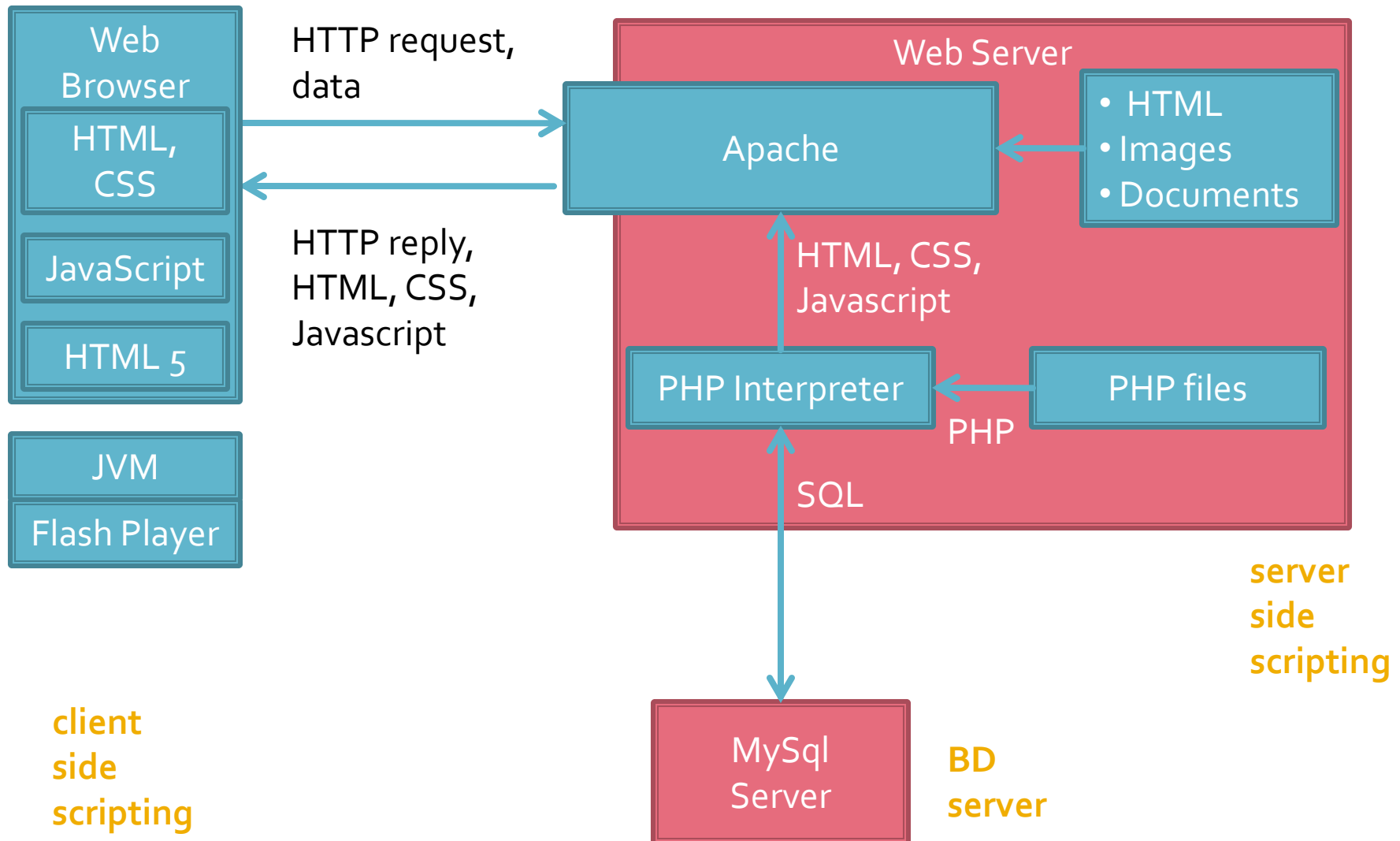
Client/Server Scripting



client
side
scripting

server
side
scripting

Client/Server Scripting



Necessity

```
<td><?php echo $row['Documente'];?>&nbsp;  </td>
<td><?php echo $row['user_creat'];?>&nbsp;  </td>
<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>
</tr>
<?php $index++;
    } while ( $row = mysql_fetch_assoc($result));?>
</table><?php
}
else
{
    echo "<p>Nu exista loturi active</p>";
}
?>

<p class="title">Loturi inactive</p>
<?php
$query = "SELECT l.*, c.`nume_user` AS `user_creat`
FROM `lot` AS l
LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
WHERE l.`Activ` = 0 ORDER BY l.`ID_LOT` DESC";
$result = mysql_query($query);
$total=0;
if ($result && (mysql_num_rows($result) > 0))
{
    $total=mysql_num_rows($result);
    $row = mysql_fetch_assoc($result);
}
if ($total>0)
{?>
<table align="center">
    <tr class="lista_titlu">
        <td align="center">Nu exista loturi inactive</td>
```

Necessity

```
E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

logfile.php lista_lot.php
539 <?php ?>
540
541 <div id="maincontent"><!-- InstanceBeginEditable name="Continut" -->
542 <p><span class="title">Adauga</span><br/>
543 <a href="control_lot.php?id=0">Lot nou</a></p>
544 <p class="title">Loturi active</p>
545 <?php
546 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
547 FROM `lot` AS l
548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
554 $total=mysql_num_rows($result);
555 $row = mysql_fetch_assoc($result);
556 }
557 if ($total>0)
558 {?>
559 <table align="center">
560 <tr class="lista_titlu">
561 <td align="center">Nr.</td>
562 <td>Numar</td>
563 <td>Data</td>
564 <td>Nr. pui</td>
565 <td>Gr. pui</td>
566 <td>Nr. pui morti</td>
567 <td>Gr. pui morti</td>
568 <td>Ferma</td>
569 <td>Documente</td>
570 <td>Creat</td>
571 <td>Comenzi</td>
572 </tr>
573 <?php $index=1;
574 do { ?>
575 <tr class="<?php if ($index%2) echo "lista_impar"; else echo "lista_par";?>">
576 <td align="center"><?php echo $index; ?><td>
577 <td><?php echo $row['Numar'];?><td>
578 <td><?php echo date("d/m/Y", strtotime($row['Data']));?><td>
579 <td><?php echo $row['Pui'];?><td>
580 <td><?php echo $row['Greutate'];?><td>
581 <td><?php echo $row['Pui_Morti'];?><td>
582 <td><?php echo $row['Greutate_Morti'];?><td>
583 <td><?php echo $row['Ferma'];?><td>
584 <td><?php echo $row['Documente'];?><td>
```

HTML

E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Win

logfile.php lista_lot.php

```
539 <?php }?>
```

```
540
```

```
541 <div id="maincontent"><!-- InstanceBeginEditable name="Conti
```

```
542 <p><span class="title">Adauga</span><br/>
```

```
543 <a href="control_lot.php?id=0">Lot nou</a></p>
```

```
544 <p class="title">Loturi active</p>
```

```
545 <?php
```

```
546 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
```

```
547 FROM `lot` AS l
```

```
548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
```

```
549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
```

```
550 $result = mysql_query($query);
```

```
551 $total=0;
```

```
552 if ($result && (mysql_num_rows($result) > 0))
```

```
553 {
```

```
554 $total=mysql_num_rows($result);
```

```
555 $row = mysql_fetch_assoc($result);
```

```
556 }
```

```
557 if ($total>0)
```

```
558 {
```

```
559 <table align="center">
```

```
560 <tr class="lista_titlu">
```

```
561 <td align="center">Nr.</td>
```

```
562 <td>Numar</td>
```

```
563 <td>Data</td>
```

```
564 <td>Nr. pui</td>
```

```
565 <td>Gr. pui</td>
```

```
566 <td>Nr. pui morti</td>
```

```
567 <td>Gr. pui morti</td>
```

```
568 <td>Ferma</td>
```

```
569 <td>Documente</td>
```

```
570 <td>Creat</td>
```

```
571 <td>Comenzi</td>
```

```
572 </tr>
```

```
573 <?php $index=1;
```

```
574 do { ?>
```

```
575 <tr class="<?php if ($index%2) echo "lista_in
```

```
576 <td align="center"><?php echo $index; ?>&nbsp;</td>
```

```
577 <td><?php echo $row['Numar']; ?>&nbsp;</td>
```

```
578 <td><?php echo date("d/m/Y", strtotime($row['Data']))
```

```
579 <td><?php echo $row['Pui']; ?>&nbsp;</td>
```

```
580 <td><?php echo $row['Greutate']; ?>&nbsp;</td>
```

```
581 <td><?php echo $row['Pui_Morti']; ?>&nbsp;</td>
```

```
582 <td><?php echo $row['Greutate_Morti']; ?>&nbsp;</td>
```

```
583 <td><?php echo $row['Ferma']; ?>&nbsp;</td>
```

```
584 <td><?php echo $row['Documente']; ?>&nbsp;</td>
```

```
<table align="center">
  <tr class="lista_titlu">
    <td align="center">Nr.</td>
    <td>Numar</td>
    <td>Data</td>
    <td>Nr. pui</td>
    <td>Gr. pui</td>
```

HTML + PHP

```
E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
logfile.php lista_lot.php
539 <?php ?>
540
541 <div id="maincontent"><!-- InstanceBeginEditable name="Continut" -->
542 <p><span class="title">Adauga</span><br/>
543 <a href="control_lot.php?id=0">Lot nou</a></p>
544 <p class="title">Loturi active</p>
545 <?php
546 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
547 FROM `lot` AS l
548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
554 $total=mysql_num_rows($result);
555 $row = mysql_fetch_assoc($result);
556 }
557 if ($total>0)
558 {
559 <table align="center">
560 <tr class="lista_titlu">
561 <td align="center">Nr.</td>
562 <td><?php echo $row['Numar']; ?></td>
563 <td><?php echo $row['Data']; ?></td>
564 <td><?php echo date("d/m/Y", strtotime($row['Data'])); ?></td>
565 <td><?php echo $row['Pui']; ?></td>
566 <td><?php echo $row['Pui Morti']; ?></td>
567 <td><?php echo $row['Greutate Morti']; ?></td>
568 <td><?php echo $row['Ferma']; ?></td>
569 <td><?php echo $row['Documente']; ?></td>
570 <td><?php echo $row['Creat']; ?></td>
571 <td><?php echo $row['Comenzi']; ?></td>
572 </tr>
573 <?php $index=1;
574 do { ?>
575 <tr class="<?php if ($index%2) echo "lista_impar"; else echo "lista_p
576 <td align="center"><?php echo $index; ?></td>
577 <td><?php echo $row['Numar']; ?></td>
578 <td><?php echo date("d/m/Y", strtotime($row['Data'])); ?></td>
579 <td><?php echo $row['Pui']; ?></td>
580 <td><?php echo $row['Greutate']; ?></td>
581 <td><?php echo $row['Pui Morti']; ?></td>
582 <td><?php echo $row['Greutate Morti']; ?></td>
583 <td><?php echo $row['Ferma']; ?></td>
584 <td><?php echo $row['Documente']; ?></td>
```

HTML + PHP + SQL

E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

logfile.php lista_lot.php

```
539 <?php ?>
540
541 <div id="maincontent"><!-- InstanceBeginEditable name="Continut" -->
542 <p><span class="title">Adauga</span><br/>
543 <a href="control_lot.php?id=0">Lot nou</a></p>
544 <p class="title">Loturi active</p>
545 <?php
546 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
547 FROM `lot` AS l
548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
554     $total=mysql_num_rows($result);
555     $row = mysql_fetch_assoc($result);
556 }
557 if ($total>0)
558 {?>
559 <table align="center">
560 <tr class="lista_titlu">
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564 <td>Nr. pui</td>
565 <td>Gr. pui</td>
566 <td>Nr. pui morti</td>
567 <td>Gr. pui morti</td>
568 <td>Ferma</td>
569 <td>Documente</td>
570 <td>Creat</td>
571 <td>Comenzi</td>
572 </tr>
573 <?php $index=1;
574 do { ?>
575 <tr class="<?php if ($index%2) echo "lista_impar"; else echo "lista_par";?>">
576 <td align="center"><?php echo $index; ?>&nbsp;</td>
577 <td><?php echo $row['Numar'];?>&nbsp;</td>
578 <td><?php echo date("d/m/Y", strtotime($row['Data']));?>&nbsp;</td>
579 <td><?php echo $row['Pui'];?>&nbsp;</td>
580 <td><?php echo $row['Greutate'];?>&nbsp;</td>
581 <td><?php echo $row['Pui_Morti'];?>&nbsp;</td>
582 <td><?php echo $row['Greutate_Morti'];?>&nbsp;</td>
583 <td><?php echo $row['Ferma'];?>&nbsp;</td>
584 <td><?php echo $row['Documente'];?>&nbsp;</td>
```

```
<?php
$query = "SELECT l.*, c.`nume_user` AS `user_creat`
FROM `lot` AS l
LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
$result = mysql_query($query);
$total=0;
if ($result && (mysql_num_rows($result) > 0))
{
    $total=mysql_num_rows($result);
    $row = mysql_fetch_assoc($result);
}
```

HTML

- Offers **the logical structure** of the document
- Required
 - the **final result** of any type of programming for a distributed application web is almost exclusively HTML code (HTML structure eventually manipulated by “client side scripting”/Javascript)
- **rf-opto Previous years** Curs 1 PAW 2021-2022 – Recapitulare HTML (RO + video)
- Course: Web Technologies (2012-2013) (EN)
 - <https://rf-opto.etti.tuiasi.ro/internet.php>
 - Web Technologies, Lecture 5
 - Web Technologies, Lecture 6

HTML 5



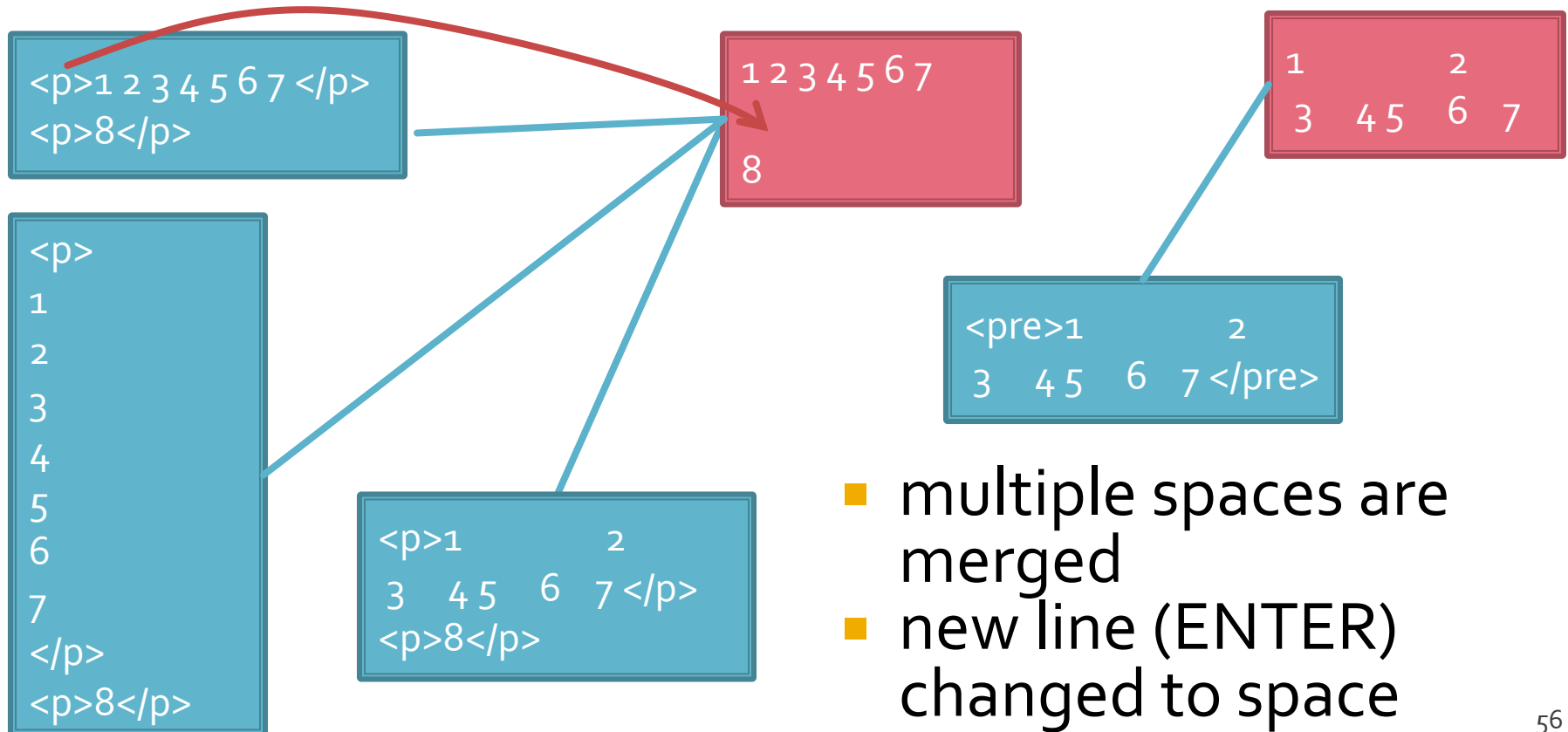
- (**Increasing!**) Support in browsers
 - Certain future
- Features
 - **Web Workers**: background threads for processing.
 - **Video**: Video becomes as easy as embedding an image.
 - **Canvas**: allows a web developer to render graphics on the fly.
 - **Application caches**: Web pages will start storing more and more information locally on the visitor's computer.
 - **Geolocation**: Best known for use on mobile devices, geolocation is coming with HTML5.

HTML Concepts 1

- An HTML document is an **ASCII** document (Notepad) containing **tags**, interpreted and displayed by the browser (View Source)
- Tags: (etichete, marcaje – RO), `<>`
 - individual: `<X/>`
 - ex: `<br/>` (`<br>` - HTML)
 - container: `<X> Any_Content</X>`
 - ex: `<p>One paragraph</p>`
 - Tag **X** impose the way "**Any_Content**" will be part of the document/be displayed on the screen
 - most tags are container

HTML and Format

- Format of the source document (ASCII) is irrelevant
 - only exception: `<pre>....</pre>`



Attributes

- Options (properties) of the tag, used to detail the effect of that particular tag
- In container tags, introduced only in the starting tag
 - `<p id="un_id" align="left">ceva </p>`
- Attributes are keywords and their name must be correctly spelled. (XML allows user defined attributes, but not HTML and XHTML)
- Attribute value, both:
 - keywords
 - user defined

Major differences XHTML vs. HTML

- Tag inclusion, mandatory
 - `<X>....<Y>....</Y>.....</X>` 
 - `<X>....<Y>....</X>.....</Y>` 
- Tags must be always closed
 - `<p>....</p><p>.... </p>, <br />, <meta .... />` 
 - `<p>....<p>...., <br>, <meta .... >` 
- Tags must be written in lower case
 - `<p>, <br />, <frameset>` 
 - `<P>, <BR />, <FrAmesET>` 
- Attributes must be lowercase and their values written between quotation marks
 - `<p align="left">, <table width="100">, <font color="red">` 
 - `<p Align="left">, <table width=100>, <font COLOR=red>` 
- All information must be enclosed inside `<html>... </html>` container tag

HTML Concepts 3

x
`<x> Content modified by x</x>`

Legal in
XHTML/HTML

x and atrib and val
`<x atrib="val"> Content modified by x and atrib and val </x>`

Legal in
XHTML/HTML

x
`<x> Content <y> Content modified by x and y</y> modified by x</x>`

Legal in
XHTML/HTML

x y
`<x> C. modified by x <y> C. modified by x and y </x> C. modified by y</y>`
y

Legal **only** in
HTML 4
not
recommended

Minimal HTML Document

```
<!DOCTYPE .....
```

```
<html>
```

```
<head>
```

```
....
```

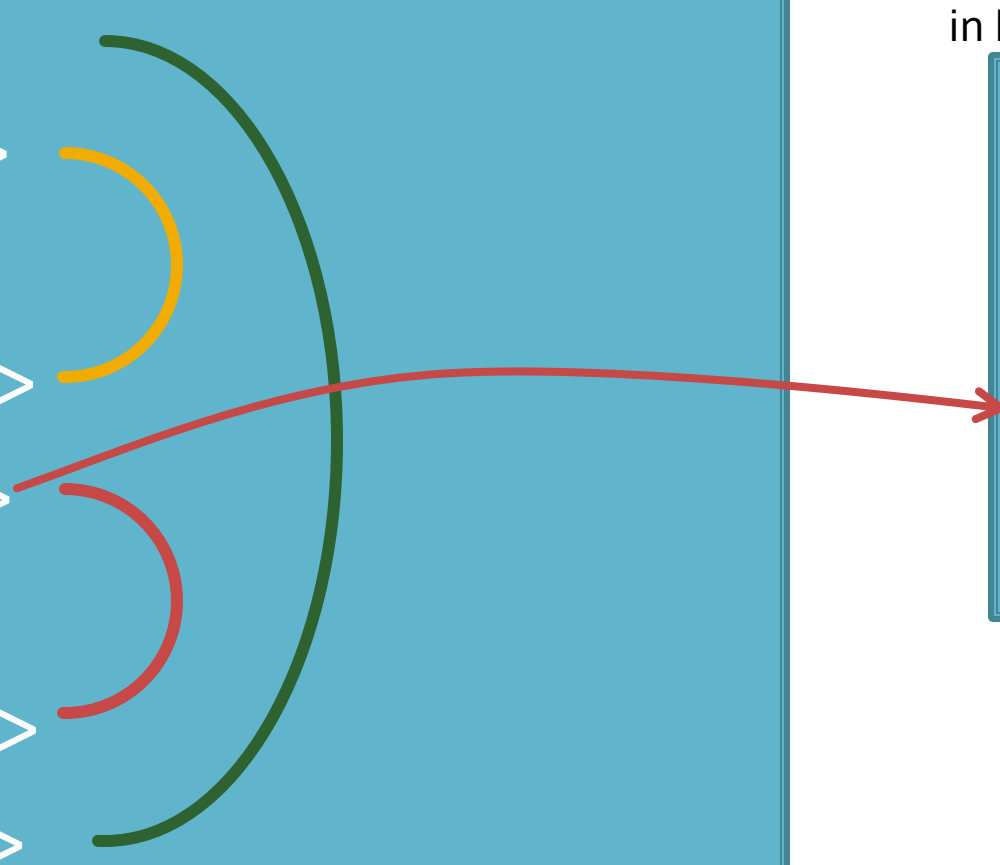
```
</head>
```

```
<body>
```

```
....
```

```
</body>
```

```
</html>
```



<frameset> **not existent**
in HTML 5

```
<!DOCTYPE .....
```

```
<html>
```

```
<head>
```

```
....
```

```
</head>
```

```
<frameset>
```

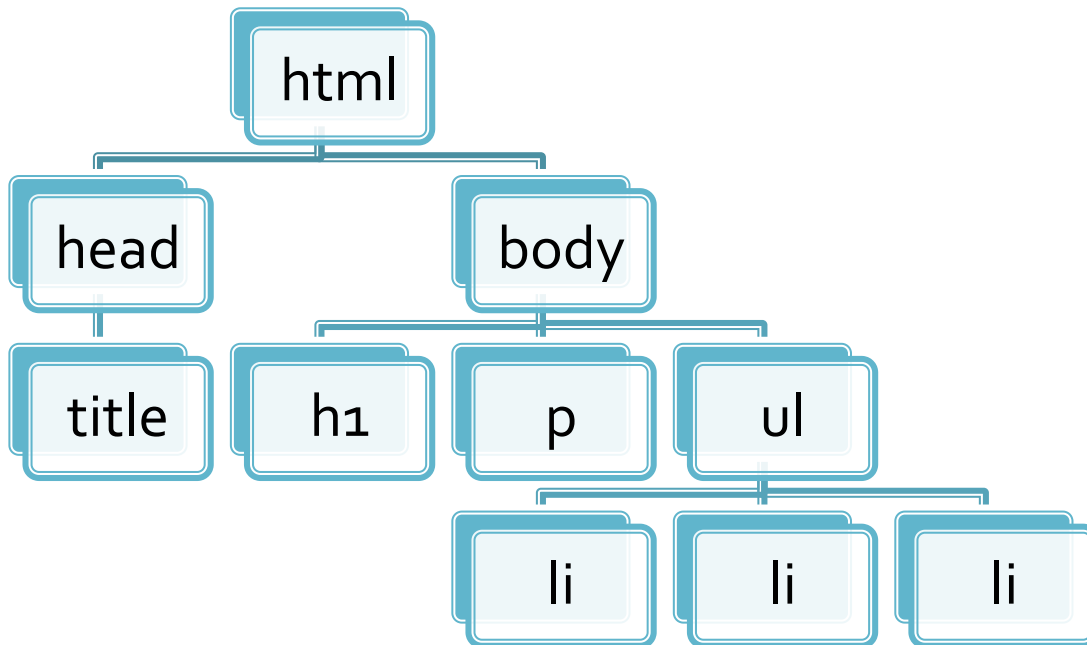
```
....
```

```
</frameset>
```

```
</html>
```

DOM

- DOM – Document Object Model: logical tree type structure



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

CSS

- Cascading Style Sheets
- Introduced to separate the **content** of a document from its **presentation** (layout, colors, fonts)
- Allows:
 - Increased accessibility (same document can be displayed on multiple devices)
 - Multiple web pages can share formatting
 - Reduce complexity of content positioning

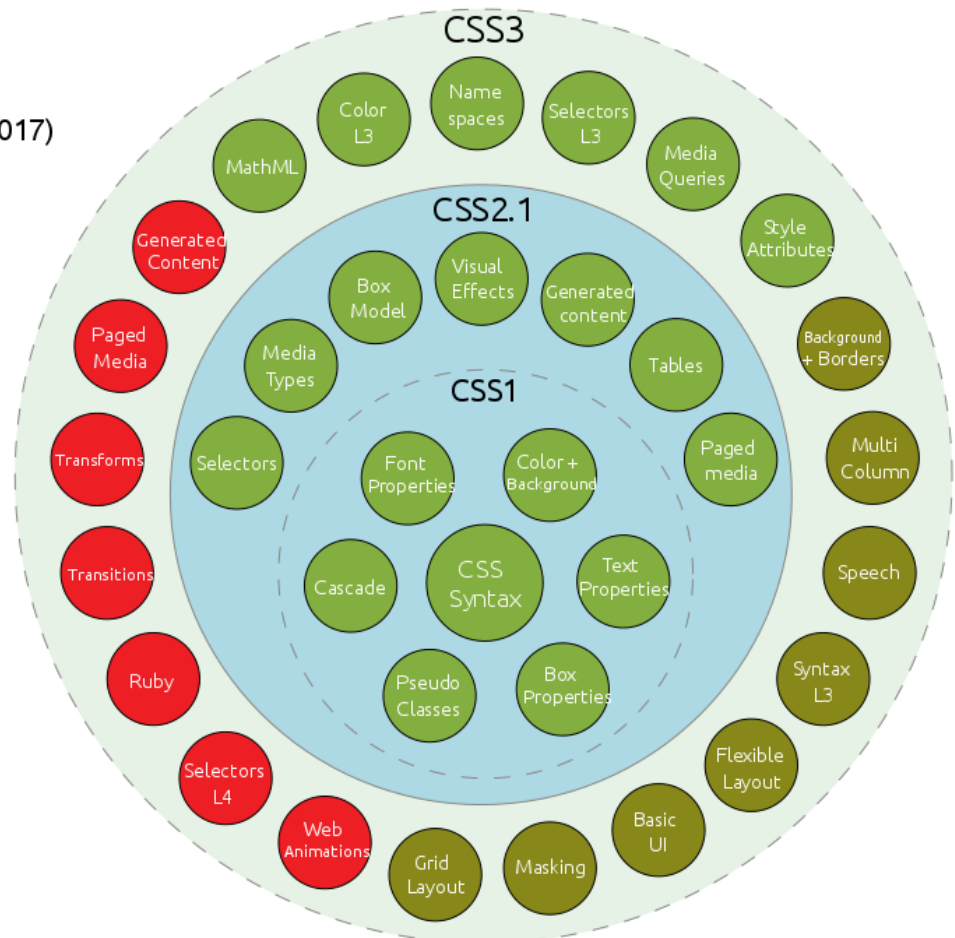
CSS

- Offers **the form** of the document

CSS3

Taxonomy & Status (September 2017)

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



CSS vs. HTML

- HTML
 - **logical structure** of the document
- CSS
 - effective **form/shape** of the document
- HTML 5
 - HTML tags regarding the **form** (, color="red") were introduced in HTML 3.2 and declared **deprecated** in HTML 4.01
 - **disappear** in HTML 5

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;
}
```

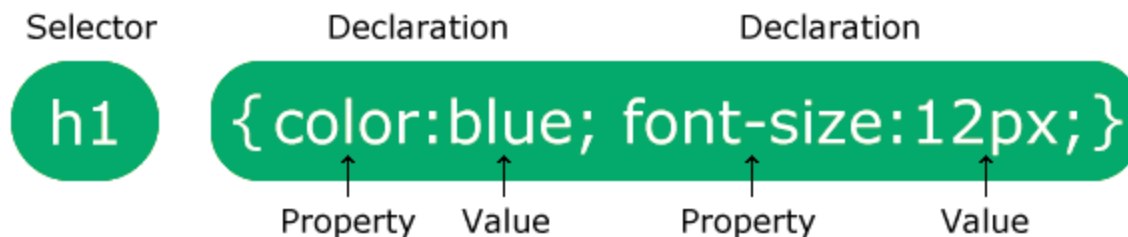
CSS

CSS concepts

- Three ways of specifying styles
 - External styles (External style sheet)
 - Internal styles (Internal style sheet)
 - Inline styles (Inline style)
- Three entities which impose styles:
 - display device (browser default)
 - author of the document
 - reader of the document

CSS Concepts

- A CSS rule: a selector and a declaration block:
 - Selector { "CSS declaration"; ["CSS declaration";] }
- CSS declaration:
 - property:value;
- CSS Comments
 - Similar with C/C++ , PHP, etc.
 - Between `"/**"` and `"*/"`

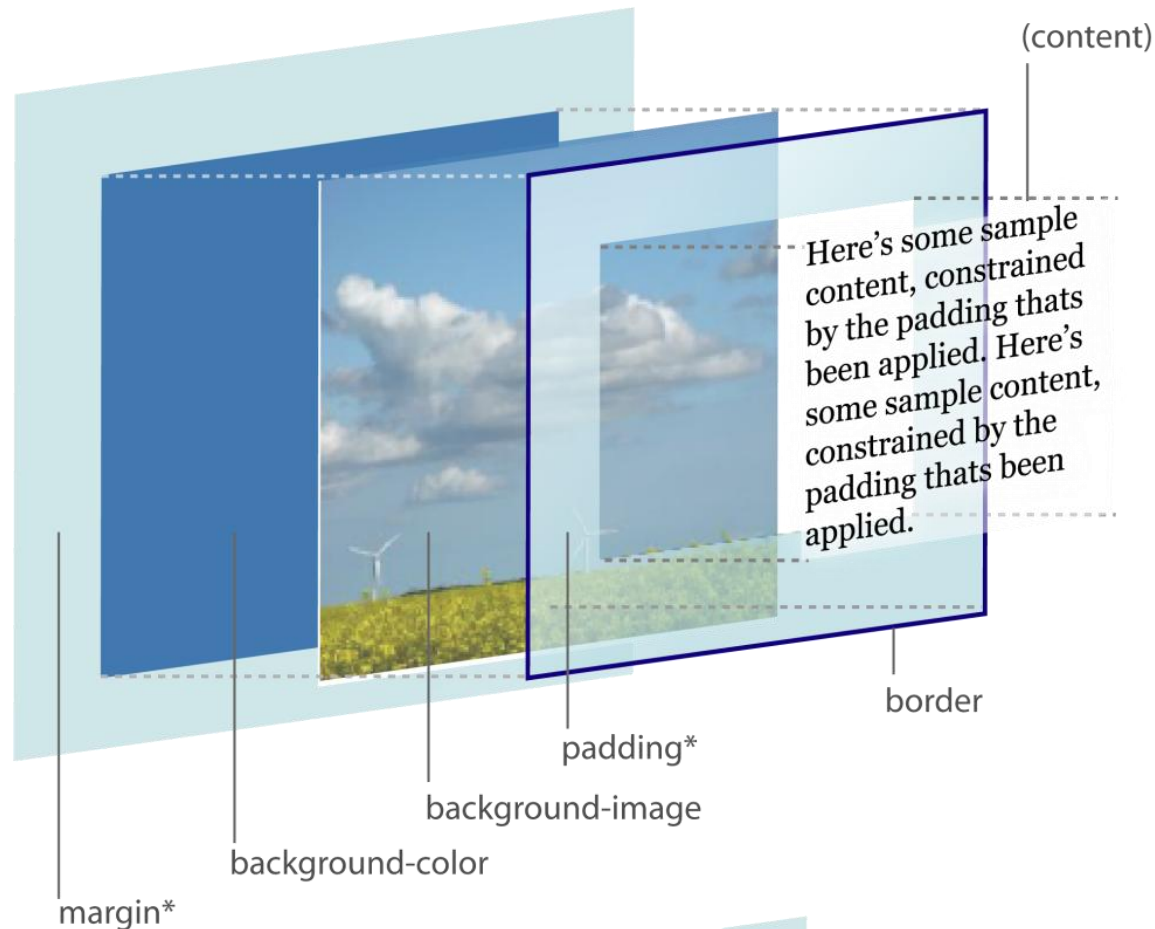


CSS Selectors

- HTML element selector
 - introduced to modify the standard display of HTML tags
- CSS class Selector – “.”
 - introduced to work in conjunction with the HTML attribute `class=“...”`
 - useful for applying form uniformly to multiple elements in a document
- CSS id Selector – “#”
 - introduced to work in conjunction with the HTML attribute `id=“...”`
 - useful for applying a specific form to a single element in a document

CSS Box Model

THE CSS BOX MODEL HIERARCHY



Usability rules

- Steve Krug: “**Don't Make Me Think, Revisited**”
- Users scan the pages, don't really read them
- Information must be reduced to the sufficient minimum in most places
- “If something is hard to use, I can live without it”
- Web users tend to act **shark like**
- Originality is not always recommended

CSS Zen Garden

- <https://csszengarden.com/>
- fixed HTML file
- changing the form **only** allowed by changing the CSS styles

CSS Zen Garden – original HTML

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

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

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless effort

The CSS Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with
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
one will load the style sheet into this very page. The code remains the same, the only thing that has changed is the

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated
placed in the hands of those able to create beauty from structure. To date, most examples of neat tricks and hacks

CSS Zen Garden



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.

[\[X\] 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

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- ☐ [Under the Seal](#)
by Eric Stoltz
- ☐ [Make 'em Proud](#)
by Michael McGlough and
Scotty Relf Snyder
- ☐ [Orchid Beauty](#)
by Kevin Addison
- ☐ [Oceanscape](#)
by Justin Gray
- ☐ [CSS Co., Ltd.](#)
by Benjamin Klemm
- ☐ [Sakura](#)
by Tatsuya Uchida
- ☐ [Kyoto Forest](#)
by John Polkowski
- ☐ [A Walk in the
Garden](#)
by Simon Van
Hauwermeiren

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CSS Zen Garden

CSS Zen Garden

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

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



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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](#). You may modify the style sheet in any way you wish, but not the [HTML](#). This may seem daunting at first if

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You may modify the style sheet in any way you wish, but not the HTML. This may seem daunting at first if you've never worked this way before, but follow the listed links to learn more, and use the sample files as a

Select a design

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- ✦ Orchid Beauty by Kevin Addison
- ✦ Oceanscape by Justin Gray
- ✦ CSS Co., Ltd. by Benjamin Klemm
- ✦ Sakura by Tatsuya Uchida
- ✦ Kyoto Forest by John Polittowski
- ✦ A Walk in the Garden by Simon Van Hauwermeiren

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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](#)

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- [View All Designs](#)

Resources:

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

CSS Zen Garden

The Beauty of CSS Design

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

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



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

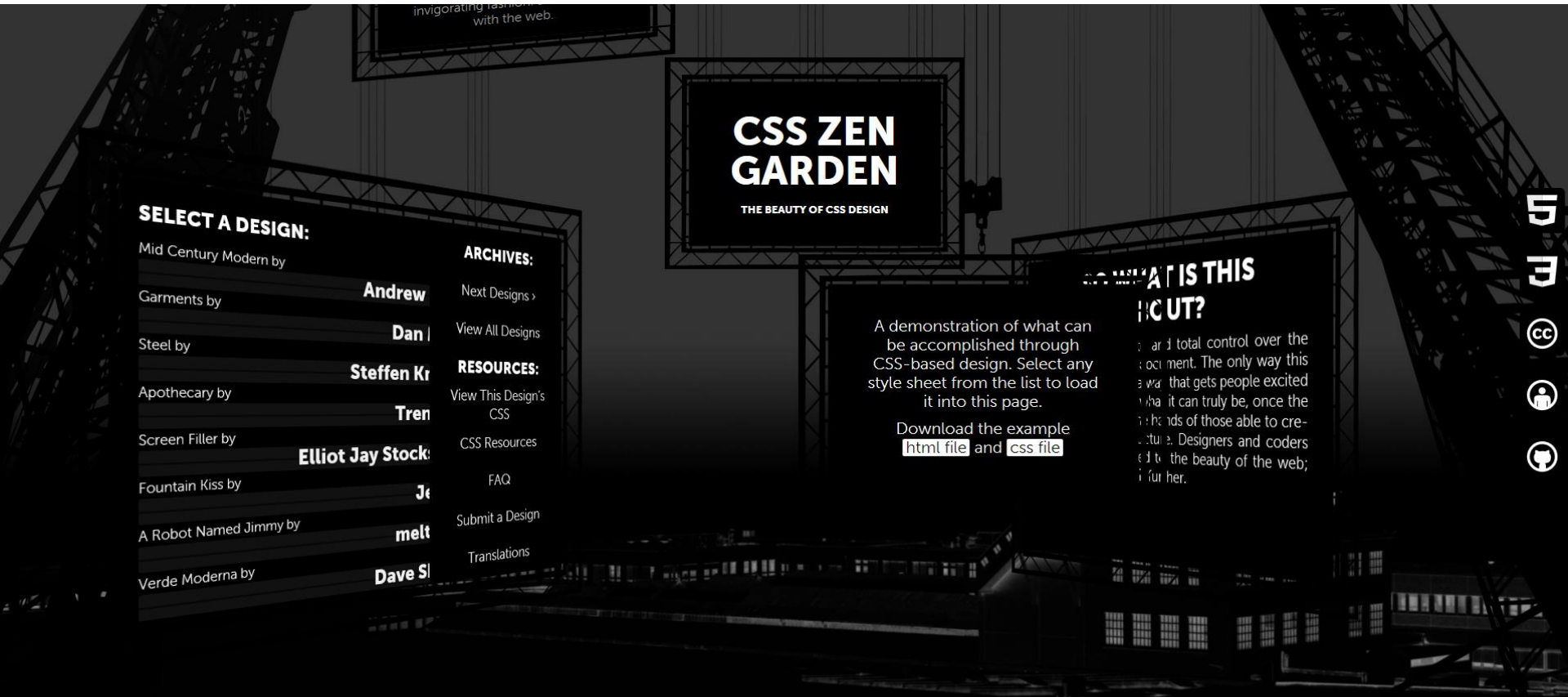
Participation

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

The Beauty of CSS Design

A DEMONSTRATION OF WHAT CAN BE ACCOMPLISHED THROUGH CSS-BASED DESIGN. SELECT ANY STYLE SHEET FROM THE LIST TO LOAD IT INTO THIS PAGE.

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](#)

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Learn more

- Web Hypertext Application Technology Working Group (WHATWG) HTML Living Standard
 - <https://html.spec.whatwg.org/>
- W3Schools Online Web Tutorials
 - <https://www.w3schools.com/html/>
 - <https://www.w3schools.com/css/>
 - + JavaScript, PHP, SQL, Python

Style Stage

- <https://stylestage.dev/>
- Successor for CSS Zen Garden
- Same rules (changing the form **only** allowed by changing the CSS styles)
 - modern CSS showcase

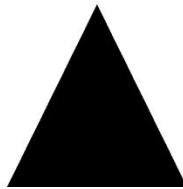
Style Stage – original HTML

[Skip to main content](#)

Style Stage

A modern CSS showcase styled by community contributions

Maintained by [Stephanie Eckles](#) of [ModernCSS.dev](#)



Setting the Stage

In 2003, [Dave Shea](#) began a legendary project called [CSS Zen Garden](#) that provided a demonstration of "what can be accomplished through CSS-based design" until submissions stopped in 2013.

Style Stage seeks to rekindle that spirit by providing this page as the base HTML for contributors - like you! - to re-style by submitting an alternate stylesheet.

How it works: Visit the ["All Styles"](#) directory page and select a style to view. A page with identical content to this one will be presented with a new design provided from a contributed stylesheet. CSS practitioners of any skill level are invited to [submit a stylesheet](#)!

The HTML for this page was created to be semantic, accessible, and free of nearly all other opinions. Nested sectioning elements with the class `.container` serve as additional style aids since you do not have access to alter the base HTML. IDs are included where needed for nav anchors or accessibility, and a small number of additional classes are provided for key elements without IDs. Don't forget the `.skip-link`!

Modern CSS Under the Spotlight

Modern CSS has increased and improved the available CSS properties and layout behaviors, and browser support is nearly in sync for most high-touch features.

Some examples of modern CSS include:

- Flexbox
- Grid
- custom variables
- @supports()
- gradients
- animation
- 3D transforms
- object-fit
- :focus-within
- calc()
- min() / max() / clamp()
- viewport units
- scroll-(margin/padding/snap)
- position: sticky
- two-value display
- expanded media query values
- variable fonts

We also collectively have an improved understanding of what it takes to make accessible experiences.

[Join Style Stage as a contributor](#) to refresh your CSS skills, and learn from others!

Guidelines

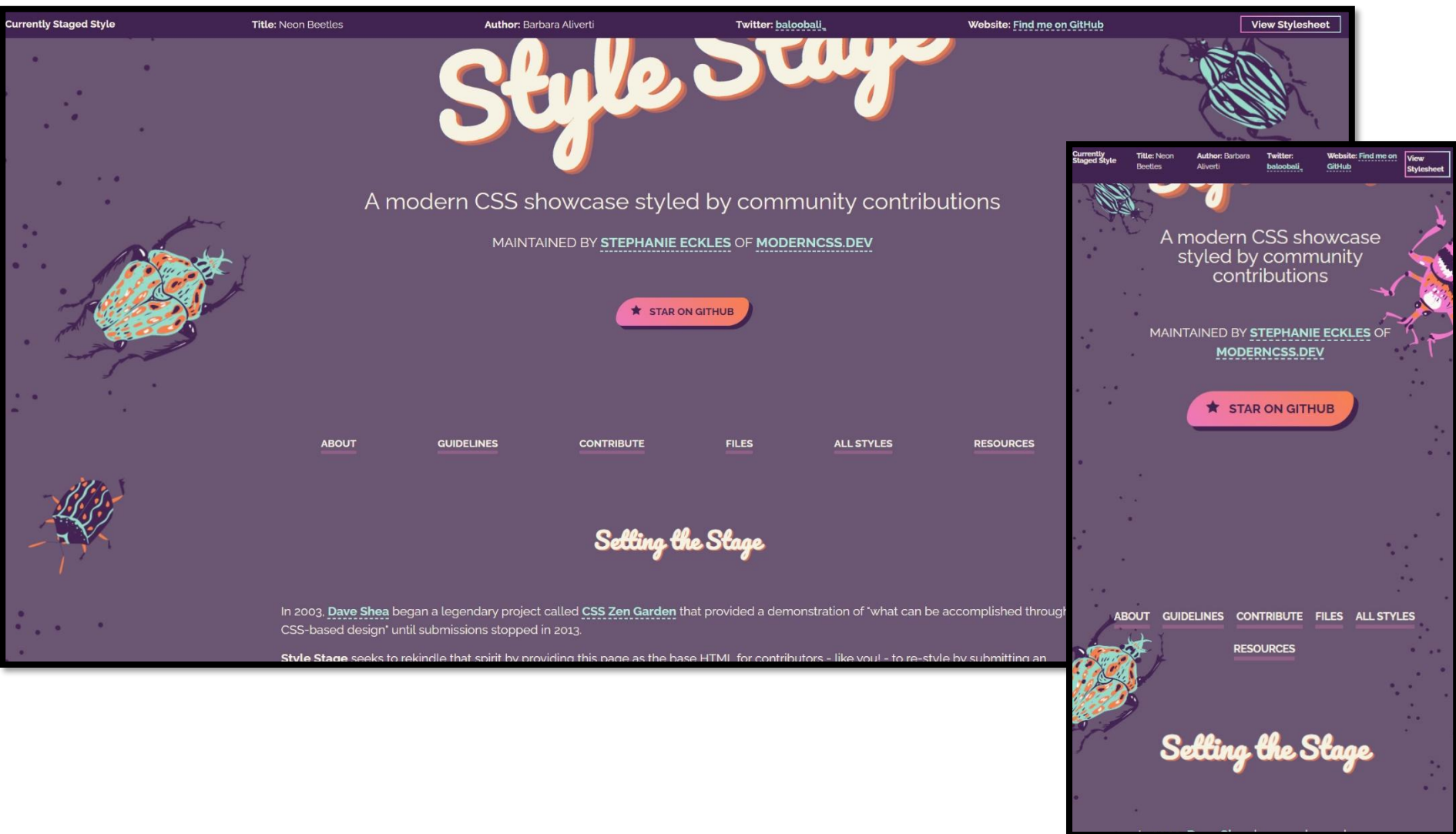
Contributing a stylesheet to Style Stage means you agree to abide by [our full guidelines](#).

TL;DR

All submissions will be autoprefixed and prepended with the [CC BY-NC-SA license](#) as well as attribution using the metadata you provide. You may use any build setup you prefer, but the final submission should be the compiled, unminified CSS. You retain the copyright to original graphics and must ensure all graphics used are appropriately licensed. All asset links, including fonts, must be absolute to external resources. Stylesheets will be saved into the Github repo, and detected changes that violate the guidelines are cause for removal.

Ensure your design is responsive, and that it passes accessible contrast (we'll be using aXe to verify). Animations should be removed via `'prefers-reduced-motion'`. Cutting-edge techniques should come with a fallback if needed to not severely impact the user experience. No content may be permanently hidden, and hidden items

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<https://github.com/5t3ph/stylestage/blob/master/css/CSS-based-design-until-2013.css>

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- rdamian@etti.tuiasi.ro