

Web design – Computer lab 1

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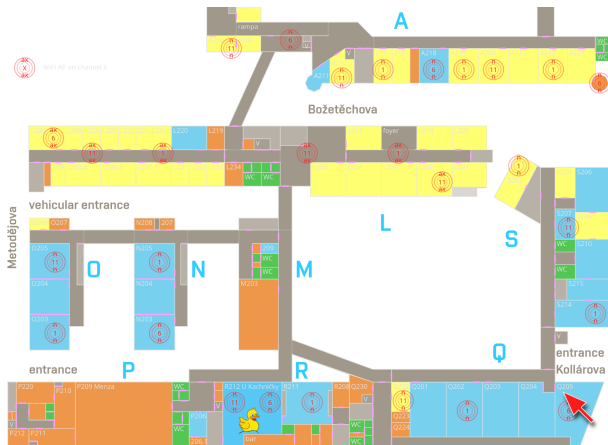
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- Office: Q205
- Email: idubovec@fit.vut.cz
- Discord: .palox
- Github: ITW-exercises

- Course website
- E-learning
- Labs private website
- Lectures private website
- Student webpage setup tutorial



- Projects:

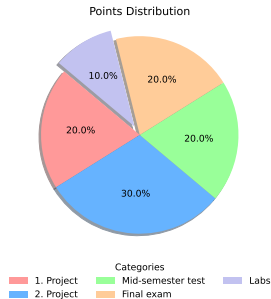
- 1. Project: 20 points – Basic presentation in HTML + CSS
- 2. Project: 30 points – Advanced presentation using HTML5, CSS3 and jQuery

- Tests:

- Mid-semester test: 20 points
- Final exam: 20 points

- Labs:

- Each lab except the first is rewarded 2 points for active work.
- You can earn up to 10 points from the labs (2×5).
- Participation is **voluntary**.
- Substitution of the lab is possible:
 - by attending my exercise at a different time (email me new time).
 - by participating in another TA's exercise in the same week (email me new time and TA's teaching it).
- **Warning!** Exercises are linked, which means that you use the result of one exercise in another exercise. If you miss something, please complete the exercise at home!



- The use of AI is not prohibited, but it is important to exercise **sound judgement** when using it.
- Rather than using AI to **write the whole thing for you**, it should be used to **help you**.
- **Plagiarism** (from another person) and **excessive usage of AI tools** may result in 0 points.
- Don't wait for us to test the presence of AI **test it yourself!**

Remote connection to server Merlin, Eva

- **Linux, Mac, WSL**
 - `ssh xlogin00@merlin.fit.vutbr.cz`
 - `ssh xlogin00@eva.fit.vutbr.cz`
- **Windows:**
 - Putty
 - MobaXTerm
 - WinSCP

Subtasks

- 1 Get the IP address of the servers:
 - www.fp.vut.cz.
 - www.fit.vut.cz
 - Try reverse queries. Try using dig instead of host.
- 2 Get the domain name for a server with an IP addresses [195.178.73.178](#), [195.113.27.221](#), [193.108.106.40](#)
- 3 What is the actual domain name of the FP/FIT website?

Toolkit

- `man <command>` – Display the manual for a command.
- `host <domain>` – Get the IP address of a domain.
- `dig <domain>` – Detailed DNS query.
- `dig -x <IP_address>` – Reverse DNS lookup.

Subtasks

- Try using `curl -v` on the following websites:
 - <https://cool.wikipedia.org>
 - <https://fun.fit.vut.cz>
 - <ftp://www.wikipedia.org>
 - <https://www.wikipedia.org> (with `--max-time 0.01`)
 - <https://www.vut.cz/studis/student.phtml>
- Explore the source code of these two links (CTRL+U):
 - [datum1.php.cs](#)
 - [datum2.html.cs](#)
- Examine the response headers of these links (Developer Tools - Network tab):
 - [datum1.php.cs](#)
 - [datum2.html.cs](#)

Subtasks

- Try to download [Pillow library](#) logo using wget.
- Try to download [Hack](#) font using wget.
- Try recursively downloading the [vut fit web](#) (use depth level 1).

Toolkit

- `man wget` – Display the manual for wget.
- `wget <URL>` – Download a file from a URL.
- `wget -O <filename> <URL>` – Save the downloaded file with a specific name.
- `wget -r -l1 <URL>` – Recursively download files from a website with depth level 1.

- 1 Create the directory:

```
mkdir ~/WWW
```

- 2 Set permissions:

```
chmod -R o=rX,g= ~/WWW  
chmod o+x ~
```

- 3 Create and edit the file:

```
cd WWW/  
touch index.html  
chmod o+r index.html  
nano index.html
```

- 4 Visit your page:

```
https://www.stud.fit.vutbr.cz/~xlogin00/
```