

# Web design – Computer lab 1

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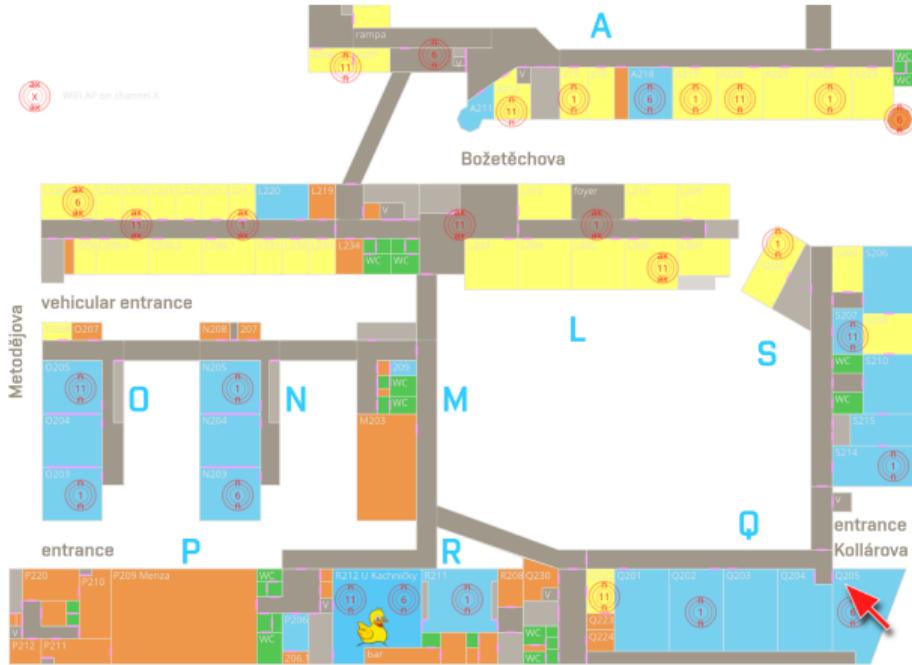
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- Discord: .palox
- Github: ITW-exercises

Information sources

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



- Projects:

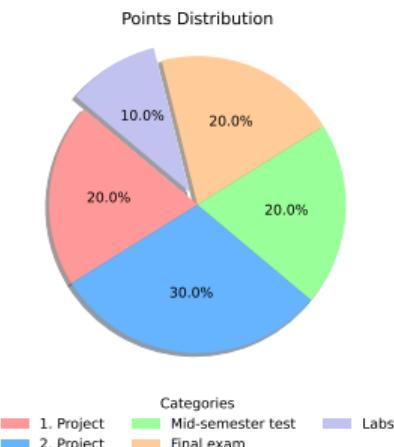
- 1. Project: 20 points – Basic presentation in HTML + CSS
- 2. Project: 30 points – Advanced presentation using HTML5, CSS3 and jQuery

- 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 ( $2 \times 5$ ).
- 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](http://www.fp.vut.cz).
  - [www.fit.vut.cz](http://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](http://195.178.73.178),  
[195.113.27.221](http://195.113.27.221), [193.108.106.40](http://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/>