# Web desighn – Computer lab 1

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# Organizational information for exercises



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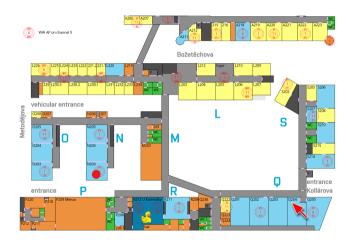
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• Discord: .palox

Github: ITW-exercises

### Information sources

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



### Points distribution



- 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!



# Use of artificial intelligence



- 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 Al tools may result in 0 points.
- Don't wait for us to test the presence of Ai test it yourself!

## Task 1: SSH



### 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

## Task 2: Domain Service Name (DNS)



#### Subtasks

- Oet the IP address of the servers:
  - www.fp.vut.cz.
  - www.fit.vut.cz
  - Try reverse queries. Try using dig instead of host.
- Q 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.

# Task 3: http, static vs dynamic



### 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

### Task 4: wget



#### 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 -0 <filename> <URL> Save the downloaded file with a specific name.
- wget -r -11 <URL> Recursively download files from a website with depth level 1.

# Task 5: Create your own school website



- 1 mkdir ~/WWW
- 2 chmod -R o=rX, g= /WWW
- 3 chmod o=x ~
- 4 cd WWW/
- 5 touch index.html
- 6 chmod o+r index.html
- 7 nano index.html
- 8 https://www.stud.fit.vutbr.cz/~xlogin00/