

Web Design - Computer lab 1

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Where to look for course info

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

Scored computer exercises

- 6 exercises per semester, 5 opportunities to earn 2 points
- Participation in the exercises is voluntary
- Substitution of exercises by prior arrangement
- **Exercises are build on each other, the result of one exercise will be used in the next exercise**

2 tests

- **24. 03. 2026 8:30 - 20 points**
- **05. 05. 2026 8:30 - 20 points**

Projects

- Project 1 - HTML and CSS
 - **20 points**
- Project 2 - Custom project
 - **30 points**

Bringing your own laptop is welcome

- The use of AI is not prohibited, but it is important to exercise **sound judgment** 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**.

What is CSS actually good for?

Beautiful examples of how not to do it

- Gvoza
- UserInyerface

CSS usage

- WebDev
- Qt, PyQt, Angular, React, Vue.js...

AI

- AI can generate beautiful UI, but you still need to understand what's going on when finding bugs

- 1 Open Terminal or PowerShell and connect to Merlin server

- **Linux, Mac, WSL**

```
ssh xlogin00@merlin.fit.vutbr.cz
```

```
ssh xlogin00@eva.fit.vutbr.cz
```

- **Windows**

- **PuTTY**

- Q: netapp/putty.exe

- Q: netapp/winscp.exe

- **WinSCP**

- 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`

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.

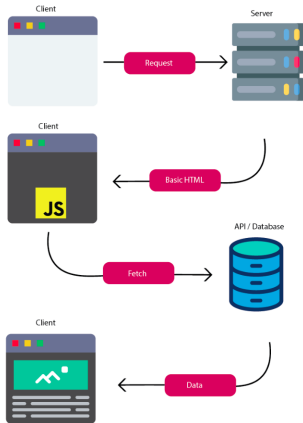


Figure: Client Side Rendering

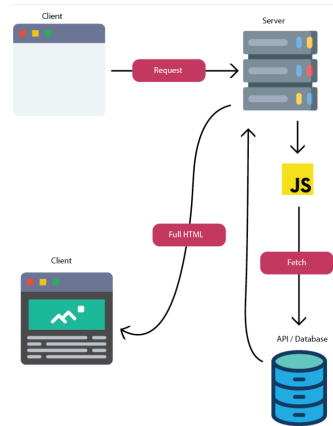
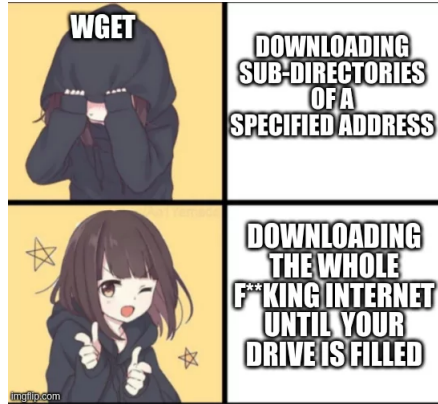


Figure: Server Side Rendering

- ① Is server alive?
 - Try connect to www.fp.vut.cz
- ② Is there any homepage?
 - Has domain www.fp.vut.cz any homepage?
- ③ Find out what is **dynamic**, client side, and what is **static**, server side, rendered website
 - <https://www.fit.vutbr.cz/study/courses/ITW/private/cviceni/datum1.php>
 - <https://www.fit.vutbr.cz/study/courses/ITW/private/cviceni/datum2.html>
 - Use web browser developer tools

Toolkit

- `ping <domain | IP address>` – Ping the server.
- `curl <domain>` – Get the IP address of a domain.



1 Try to download the whole FIT BUT website

- `wget www.fit.vut.cz`
- `wget www.fit.vut.cz -p`
- `wget www.fit.vut.cz -p -r -l 1`

2 Open your browser developer tools and go to www.fit.vut.cz

- Where can we find website **loaded files**?
- Try to **modify** website base color.
- Where can we find actual site **cookies**?

- 1 Create the directory:

```
mkdir ~/WWW
```

- 2 Set permissions:

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

- 3 Create the file:

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

- 4 Insert some AI slop:

```
nano index.html
```

- 5 Visit your page:

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