



Școala
informală
de IT

Front-End Web Development Tools



Agenda

- **Chrome Developer Tools**
- **Git & GitHub**
- **Visual Studio Code**
- **Windows and VS important shortcuts**

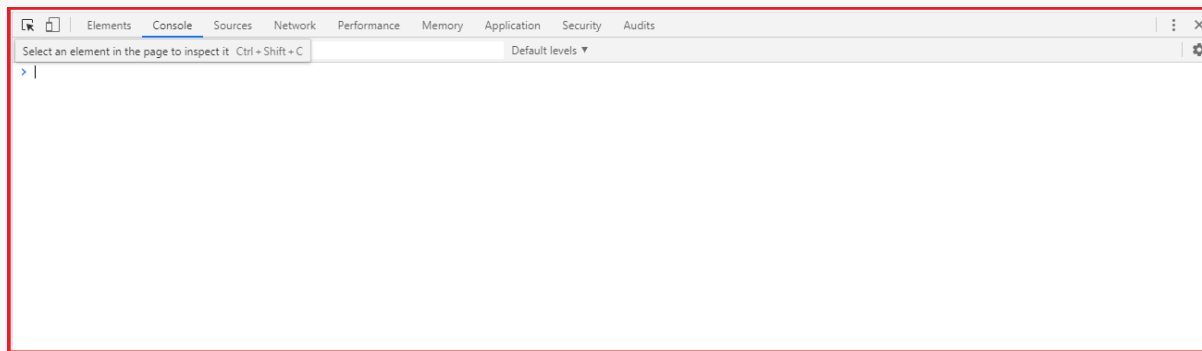
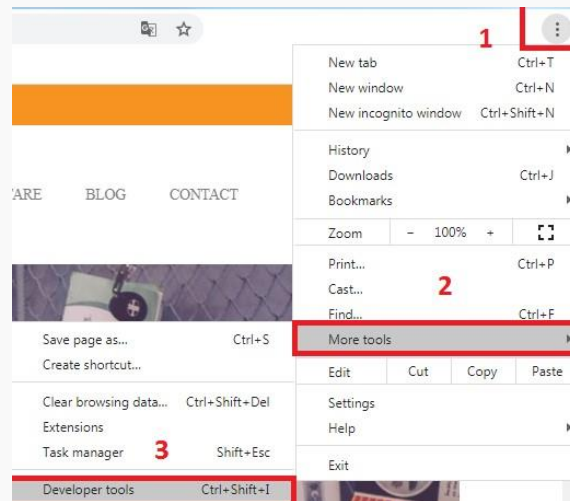


Chrome Developer Tools



Chrome Developer Tools

- F12
- Ctrl + Shift + I
- Customize and control Google Chrome → More Tools → Developer Tools



Git & Git Hub



What is GIT?

- **Distributed VCS(Version Control System)**
- **Coordinates work in teams(multiple developers)**
- **Tracking history(who made what changes and when)**
- **Possibility to go to any version from history anytime**
- **Local & Remote repositories(GitHub, Bitbucket)**

GIT Installation

- **git-scm.com**
- **Download Git for Windows/Mac**
- **Install with almost default options**
- **Open gitbash on Windows or terminal on MAC**
- **Type git --version**
- **Type git help to check the basic commands**
- **git help <command> to see a specific command details**



Git Initial Configuration

- Open gitbash
- 1. `git config --global user.name "Andrei Popescu"`
- 2. `git config --global user.email "andrei.popescu@gmail.com"`
- 3. `git config --global --list`

Basic git bash(linux) commands

cd ..	move up one level in the directory tree structure
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cd	change directory to \$HOME
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cd /chosen/directory	change to specified directory
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touch [file_name]	create a new file
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ls	list files in directory
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ls -a	list all files, including hidden
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pwd	show the directory currently working in
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mkdir [directory]	create a new directory
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rm [file_name]	remove a file
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rm -r [directory_name]	remove a directory recursively
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rm -rf [directory_name]	remove a directory recursively without requiring confirmation
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cp [file_name1] [file_name2]	copy the contents of the first file to the second file
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cp -r [directory_name1] [directory_name2]	recursively copy the contents of the first directory into the second directory
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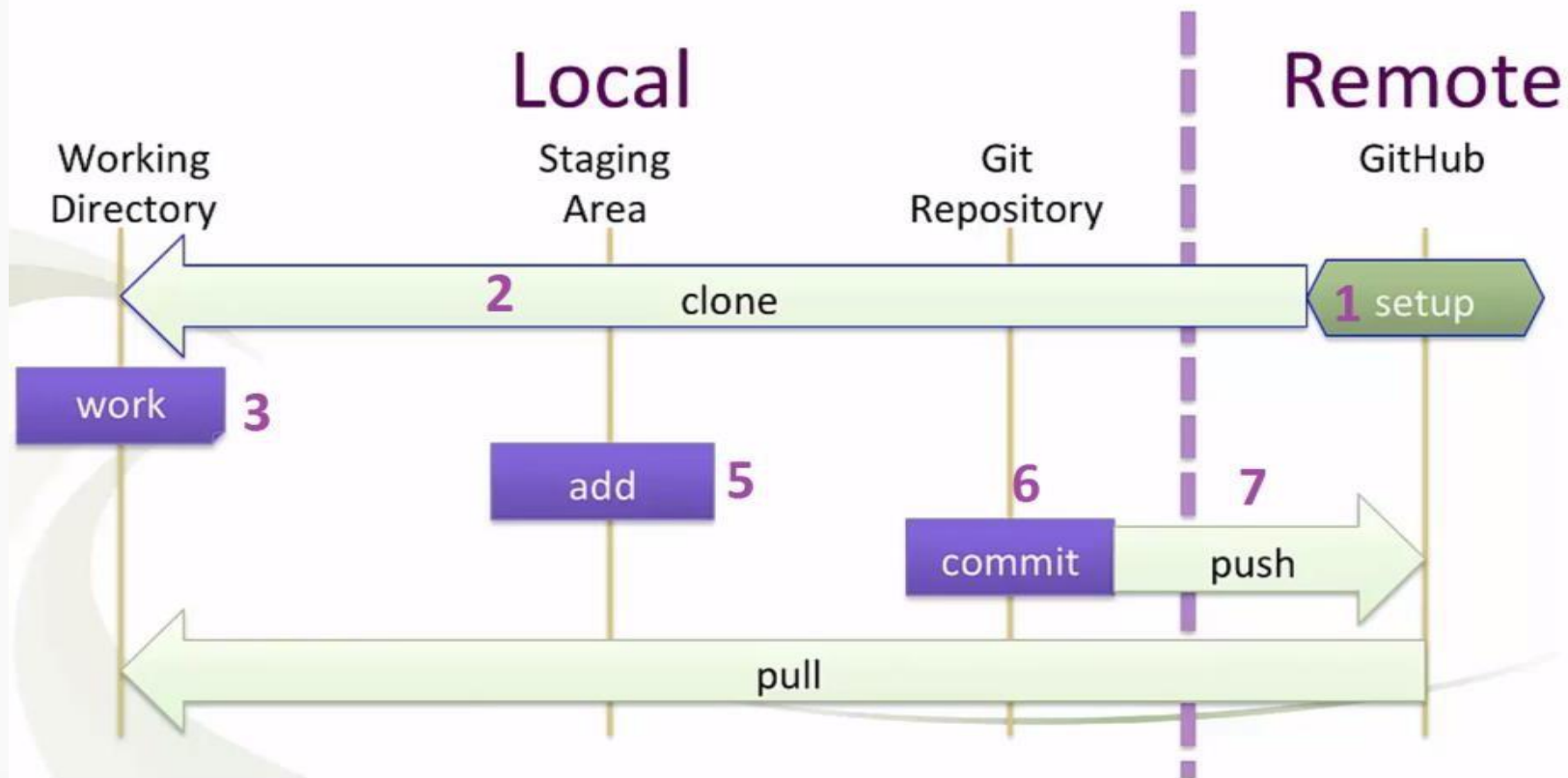
mv [file_name1] [file_name2]	rename file_name1 to file_name2
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GitHub Workflow(Setup the account)

- **Create github account**
- **Create new repository**
- **Use git clone your_repo.git**
- **Create a new folder Demo and inside a new file
first_commit.txt**
- **Commit and push 😊**

GitHub Workflow



First Git commit

Git task	Notes	Git commands
Status	List the files you've changed and those you still need to add or commit:	<code>git status</code>
Add files	Add one or more files to staging (index):	<code>git add <filename></code> <code>git add .</code>
Commit	Commit changes to head (but not yet to the remote repository):	<code>git commit -m</code> <code>"Commit message"</code>
	Commit any files you've added with <code>git add</code> , and also commit any files you've changed since then:	<code>git commit -a</code>
Push	Send changes to the master branch of your remote repository:	<code>git push origin</code> <code>master</code>
Update from the remote repository	Fetch and merge changes on the remote server to your working directory:	<code>git pull</code>
Branches	Create a new branch and switch to it:	<code>git checkout -b</code> <code><branchname></code>



Workshop

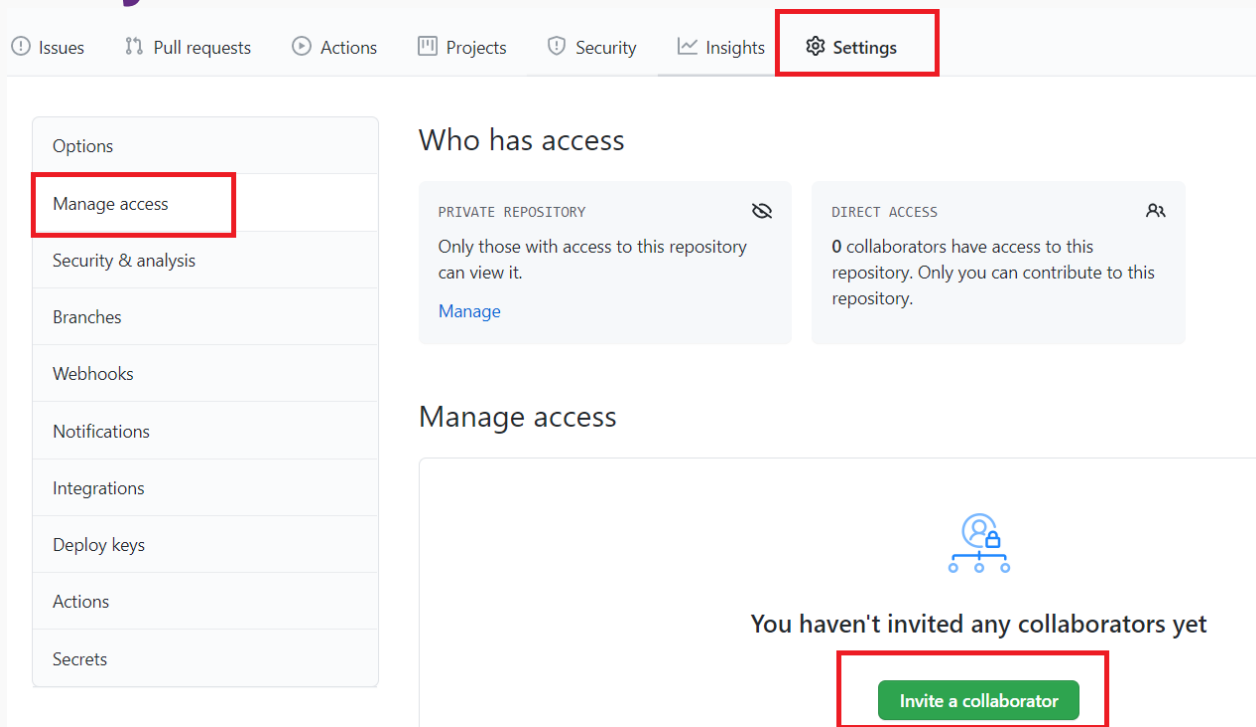


Workshop 1 – Be organized!

- Create a new repository on GitHub for managing all the resources from this entire course: name it **FrontEndNational5**
- Clone this new **repository** on your personal PC/Laptop
- In the main folder create the following 3 folders:
Session01_WebIntroduction, Session02_FrontEndDevTools, Homeworks
- In each folder create a new txt file – random/dummy content
- Commit this file with a specific message and push it on GitHub



Workshop 1 – Add the mentor as a reviewer to your Repository





The screenshot displays the GitHub repository settings interface. At the top, a navigation bar includes links for Issues, Pull requests, Actions, Projects, Security, Insights, and Settings. The 'Settings' link is highlighted with a red box. On the left sidebar, the 'Manage access' option is also highlighted with a red box. The main content area is titled 'Who has access' and shows two access levels: 'PRIVATE REPOSITORY' (locked) and 'DIRECT ACCESS' (unlocked). Below these, the 'Manage access' section is visible, featuring a lock icon and the text 'You haven't invited any collaborators yet'. A green 'Invite a collaborator' button is highlighted with a red box.

Issues Pull requests Actions Projects Security Insights **Settings**


Options
Manage access
Security & analysis
Branches
Webhooks
Notifications
Integrations
Deploy keys
Actions
Secrets

Who has access

PRIVATE REPOSITORY 
Only those with access to this repository can view it.
[Manage](#)

DIRECT ACCESS 
0 collaborators have access to this repository. Only you can contribute to this repository.

Manage access



You haven't invited any collaborators yet

Invite a collaborator



Visual Studio Code



Visual Studio Code Instalation

- **Code.visualstudio.com**
- **Open your Git project folder(check for .git folder)**
- **Ctrl + , - settings → features → terminal → edit in settings.json**
- **Add the following line:**
- **"terminal.integrated.shell.windows":
"yourPah\\Git\\bin\\bash.exe",**
- **Use Ctrl + ` to open/close terminal in VS Code**



Visual Studio Code Shortcuts

- Bookmark the following link on your browser:
- <https://code.visualstudio.com/shortcuts/keyboard-shortcuts-windows.pdf>
- To be productive: use the mouse only when the keyboard cannot be used
- Learn 2 shortcuts every week, share with the colleagues when you find a very useful shortcut

Visual Studio Code Extensions

- Live Server
- Prettier
- JavaScript ES6 Code Snippets
- Turbo Console Log
- Bracket Pair Colorizer
- Git Lens

Resources

- <https://developers.google.com/web/tools/chrome-devtools>
- <https://guides.github.com/introduction/git-handbook/>
- <https://gitimmersion.com/>
- <https://code.visualstudio.com/shortcuts/keyboard-shortcuts-windows.pdf>
- <https://support.microsoft.com/en-us/help/12445/windows-keyboard-shortcuts>

