



Lesson - 3

Git version control

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План занятия

1. Вопросы по домашнему заданию.
2. Git установка: <https://gist.github.com/derhuerst/1b15ff4652a867391f03>
3. Git from CLI:
 - a. Like a game: <https://learngitbranching.js.org/>
 - b. <https://guides.github.com/introduction/git-handbook/>
 - c. <https://try.github.io/>
 - d. <https://services.github.com/on-demand/downloads/github-git-cheat-sheet/>



GIT

Built for developers

GitHub is a development platform inspired by the way you work. From **open source** to **business**, you can host and review code, manage projects, and build software alongside millions of other developers.

Username

KellyKent



Email

KellyKent@example.com



Password



Use at least one letter, one numeral, and seven characters.

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GIT

Распределенная система управления версиями файлов и совместной работы. Проект создал Линус Торвальдс для управления разработкой ядра Linux, а сегодня поддерживается Джуния Хамана (англ. Junio C. Hamano)



git




GIT WEB INTERFACE

Learn Git and GitHub without any code!


Using the Hello World guide, you'll create a repository, start a branch, write comments, and open a pull request.

[Read the guide](#)

[Start a project](#)



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Your news feed helps you keep up with recent activity on repositories you [watch](#) and people you [follow](#).

[Explore GitHub](#)



GIT

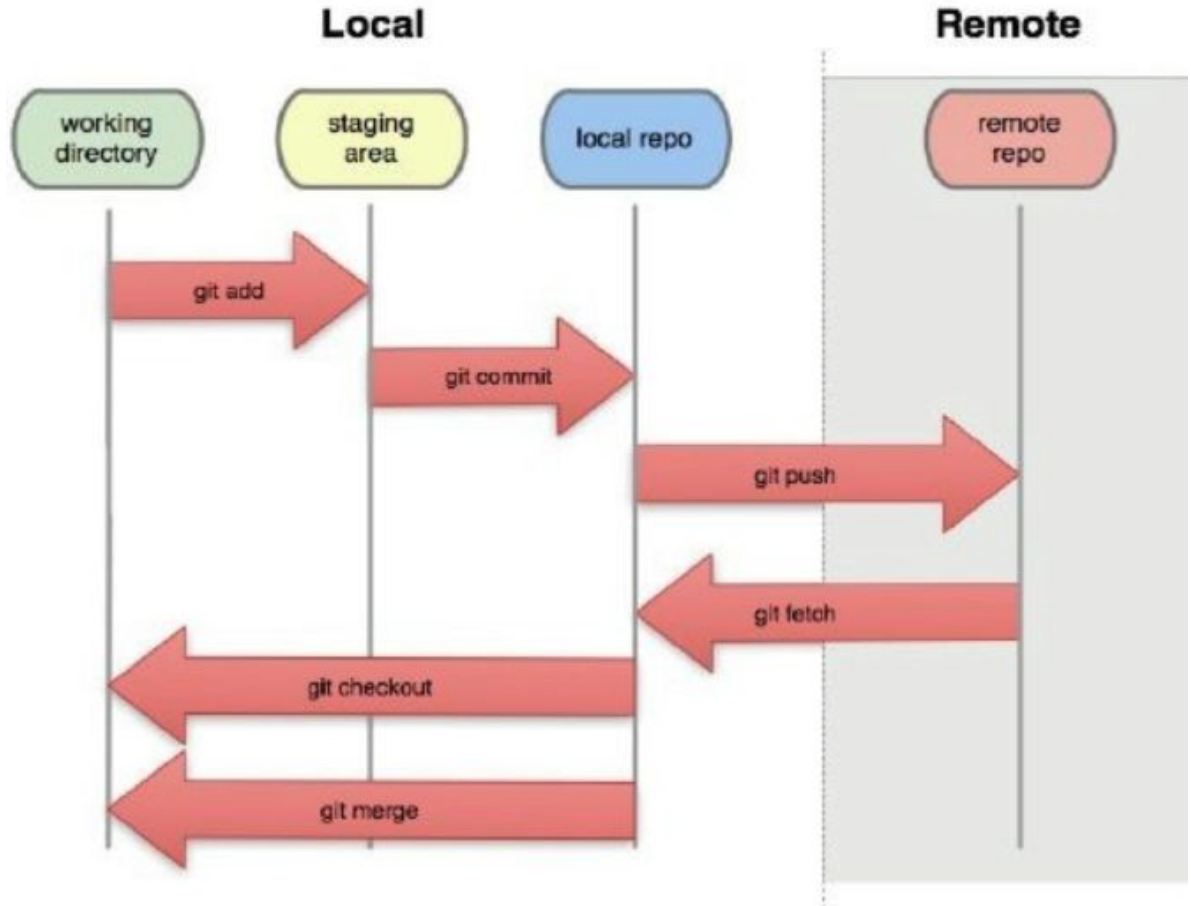
```
"But we are hackers and  
hackers have black  
terminals with green  
font colors!"
```

- John Nunemaker

GIT

The Git flow:

1. Create a branch
2. Add commits
3. Open a pull request
4. Discuss and review code
5. Merge
6. Deploy:



Linux basic terminal navigation



Basic Terminal Navigation

```
ls -a = list all files and folders
ls <folderName> = list files in folder
ls -lh = Detailed list, Human readable
ls -l *.jpg = list jpeg files only
ls -lh <fileName> = Result for file only

cd <folderName> = change directory
    if folder name has spaces use " "
cd / = go to root
cd .. = go up one folder, tip: ../../../

du -h: Disk usage of folders, human readable
du -ah: " " " files & folders, Human readable
du -sh: only show disc usage of folders

pwd = print working directory
```

URL : [https://learncodethehardway.org/unix/bash cheat sheet.pdf](https://learncodethehardway.org/unix/bash%20cheat%20sheet.pdf)

Windows CMD commands for navigation



Command	Description
cd	Change directory
dir	List directory content
find	Find files
start	start an own window to execute a program or command

URL: https://www.thomas-krenn.com/en/wiki/Cmd_commands_under_Windows

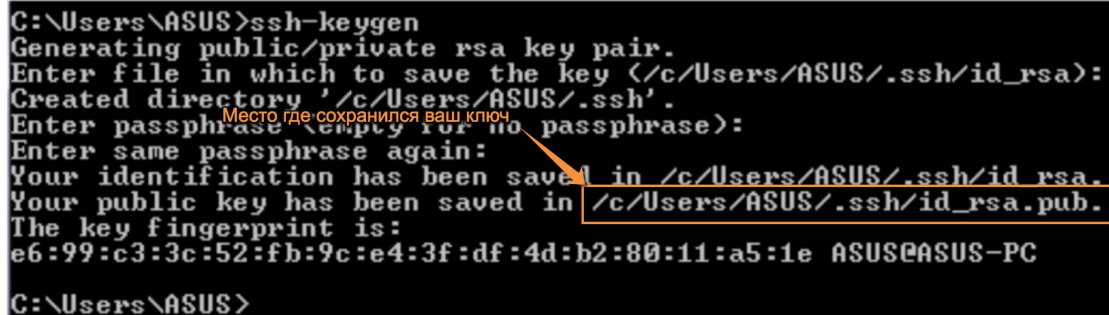
Домашнее задание



1. Установить GIT: <https://gist.github.com/derhuerst/1b15ff4652a867391f03>
2. Создать репозиторий из WEB interface с именем lesson-3:
<https://guides.github.com/activities/hello-world/>
3. Сгенерировать SSH Public Key (Linux, OSx, Windows):
<https://confluence.atlassian.com/bitbucketserver/creating-ssh-keys-776639788.html>
4. Добавить сгенерированный SSH Public Key в GIT repository (для копирования ключа на Windows смотрите следующий слайд:

<https://help.github.com/articles/adding-a-new-ssh-key-to-your-github-account/>

Копирование РВА ключа на Windows



```
C:\Users\ASUS>ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (</c/Users/ASUS/.ssh/id_rsa>):
Created directory '/c/Users/ASUS/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/ASUS/.ssh/id_rsa.
Your public key has been saved in /c/Users/ASUS/.ssh/id_rsa.pub.
The key fingerprint is:
e6:99:c3:3c:52:fb:9c:e4:3f:df:4d:b2:80:11:a5:1e ASUS@ASUS-PC

C:\Users\ASUS>
```

Примечание: Для того чтобы скопировать сгенерированный ключ на Windows:

1. Переходим в папке где лежит ключ используя cd и dir команды
2. Открываем файл в notepad:

```
start notepad "myfile.txt"
```

3. Копируем содержимое файла

Домашнее задание

1. Скачиваем репозиторий в нужную папку (url может скопировать в папку **Clone with SSH**):

```
git clone git@github.com:<your_git_account>/<repo>
```

2. Переходим в папку с только что скачанный репозиторию:

```
cd <repo>
```

3. Добавляем файлы из домашнего задания:

```
git add .
```

4. Выполняем сохранение наших изменений в локальный репозиторий:

```
git commit -m "SU-003 Add initial version of home work"
```

5. Заливаем изменения в удаленный репозиторий:

```
git push origin master
```