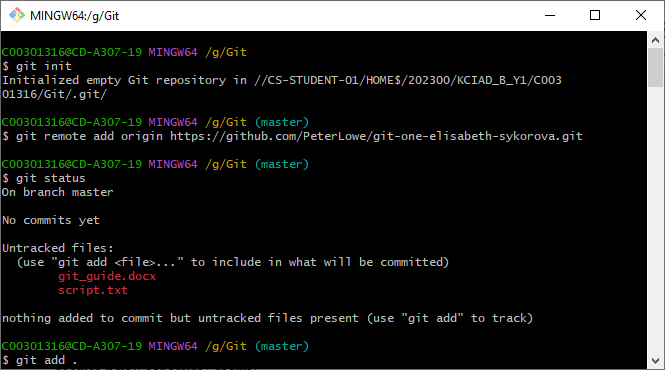
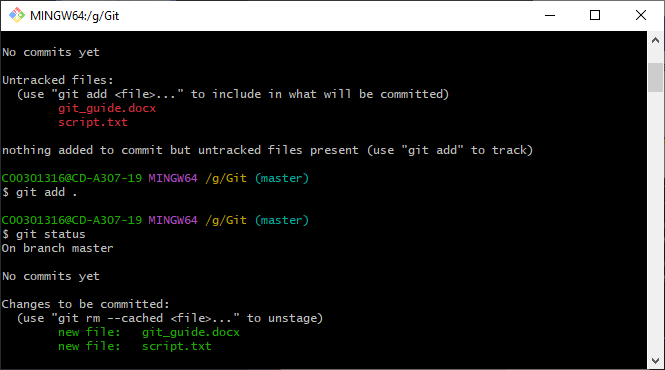
# Git Guide

By Elisabeth Sykorova

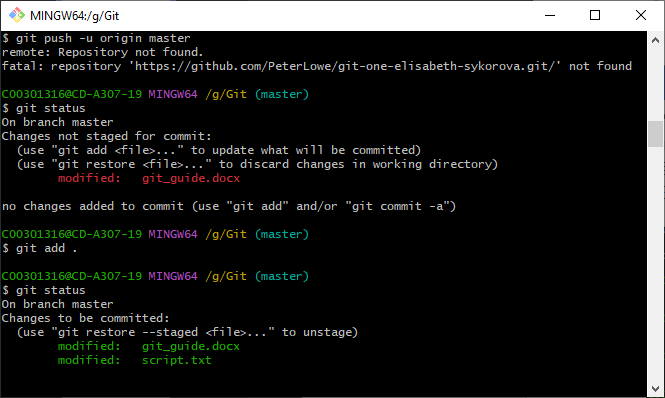
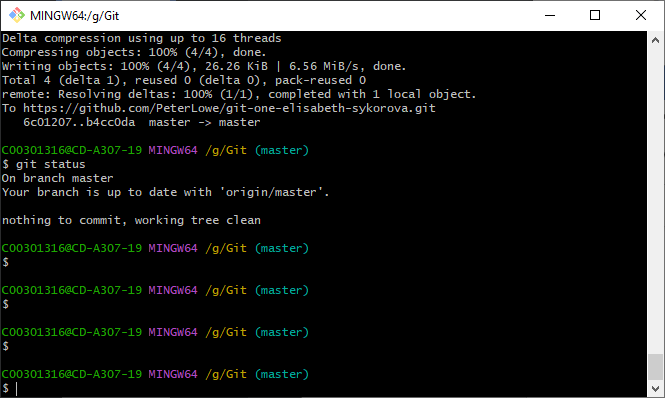
## Init

* Creates a new repository locally
* Format: git init

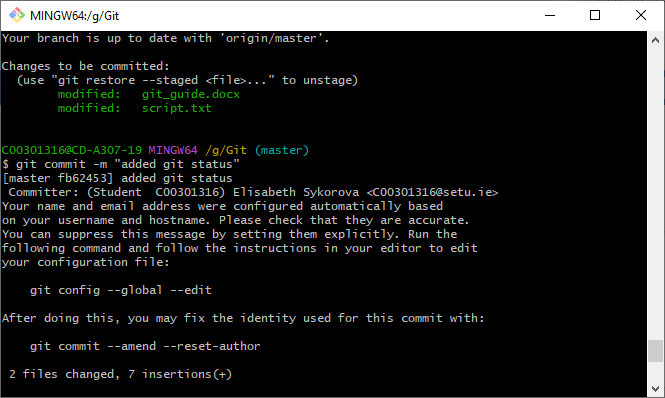
## Add

* Adds all new files (also edited files)
* Format: git add .
* To add specific files -> git add filename/pattern

## Status

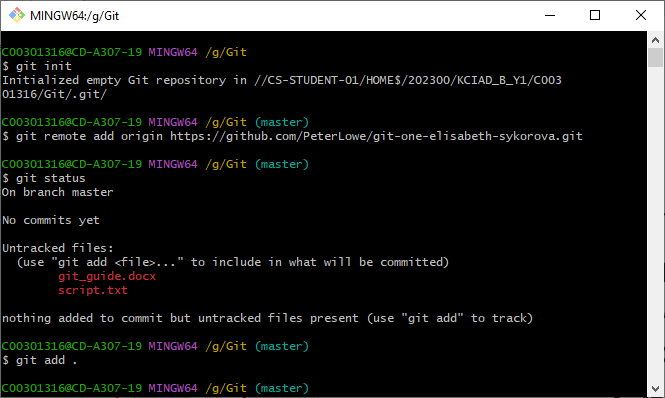
* Lists files modified in the working area, added files in staging area and current branch
* Format: git status

## Commit

* Records changes to the repository (=snapshot/backup) 
* Format: git commit -m “comment”
* To enter editor mode for multiline comments -> git commit

## Remote

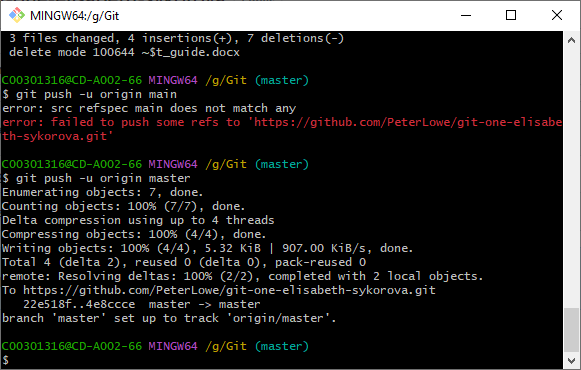
* Manages set of tracked repositories, used to clone repositories



* Format: git remote …
* Different uses -> add, rename, remove,..

## Push

* Used to update remote node with current node



* Format: git push -u origin master (depending on what the branch name changes to)

## Branch

* Used to create a new branch in the local repository that can be worked on separately from the main branch and later merged.

A screenshot of a computer program

Description automatically generated

* Format: git branch new\_branch\_name
* To list all branches in repository: git branch -a/-l/-r

## Checkout

* Makes chosen node the current HEAD

A screenshot of a computer screen

Description automatically generated

A computer screen shot of a program

Description automatically generated

* Format: git checkout branch\_name

## Merge

* Used to merge target branch into current branch. To update main branch you have to first switch into it.

A computer screen shot of a program

Description automatically generated

* Format: git merge branch\_name (of a branch that is the further one)
* To merge head with master -> git merge master

## Log

* Shows the history of commits in the terminal, can be altered using special arguments.

A screenshot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

* Format: git log
* Controlled by <space> or arrows to scroll, <q> to quit
* Altered files and the number of changed lines -> git log --stat
* Drawn branch paths -> git log --graph