

# Terminal commands written in L<sup>A</sup>T<sub>E</sub>X

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## Add new console, classlibrary, xunit, solution

```
dotnet new console
dotnet new classlib
dotnet new xunit
dotnet new sln
```

## Add i.e. solution with name

```
dotnet new sln --name mySolution
```

## List all files in solution

```
dotnet sln list
```

## Adds one or more project to the solution file

```
dotnet sln mySolution.sln add projectpath/myProj
```

## Read file, listen, create file

```
cat
echo
touch
```

## Create new .git repository

```
git init
```

## Create a new repository on the command line

```
echo "# mygitrepository" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:fruniia/mygitrepository.git
git push -u origin main
```

## Push an existing repository from the command line

```
git remote add origin git@github.com:fruniia/mygitrepository.git
git branch -M main
git push -u origin main
```

## Commands in git

status	show status of working directory
-s	short version
add	adds file(s) to the staging area
commit	adds a commit to git
-m	message
log	shows previous commits in branch
--all	
--decorate	
--oneline	
--graph	
show	take a closer look at commit
diff	shows changes between your working directory and index/staging area

## Branching in git

branch	show and create branches
-d <branch name>	delete branch
checkout	move HEAD to another branch or commit
-b <branch name>	create new branch and change to that branch
	does not change working directory
merge	bring changes from one branch into another

## Remote in git

clone	clone a repo to a local .git repo
remote	show, create and change linked repos
push	send local changes to remote
pull	get changes from remote
fetch	update local info about remote

## Undo in git

When working in a shared repo it is important that the commit history doesn't change, instead of removing the previous commit add the undos into a new commit.

checkout	get a commit, undo all changes in workspace
revert	create a new commit which undos all changes
reset	remove files from staging or remove a LOCAL commit
--soft	
--mixed	
--hard	
commit --amend	replaces the last commit with your new, improved commit