# Git

## Patrick Bucher

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Git Basics	
Create a new Git repository (move into its directory first):	
git init	
Show a repository's state:	
git status	
Add a file to the repository:	
git add [file]	
Commit changes to a repository (with a message):	
git commit -m "[message]"	
Cloning an existing Git repository from GitHub:	
git clone https://github.com/[username]/[repository].git	
List a repository's files:	
git ls-files	
Show revisions of a file:	

```
git blame [file]
```

Show the repository's history of commits (also in one line and with statistics):

```
git log
git log --oneline
git log --stat
```

#### Configuration (git config)

Set global configuration (name and email):

```
git config --global [option] [value]
git config --global user.name "Patrick Bucher"
git confif --global user.email "patrick.bucher@stud.hslu.ch"
Show all configuration:
git config --list
Show a specific configuration item (name and email):
git config [option]
git config user.name
```

## Help (git help)

git config user.email

Show the help page (most important commands):

```
git help
```

Show all commands (with pager):

```
git -p help -a
```

Show all available guides:

```
git help -g
```

Getting help on a specific command or read a guide (help itself, the glossary and the tutorial guide):

```
git help [command/subject]
git help help
```

```
git help glossary
git help tutorial
```

#### **Miscellaneous**

```
Starting Git GUI (the package tk is required under Linux):
git gui
Starting Git GUI to commit changes (citool):
git citool
Starting the Git log viewer (gitk):
gitk
```

#### **Switches**

Display the installed version of git:

```
git --version
Use a pager (usually less) for the output:
git -p [command]
git --paginate [command]
```