

Working with Git for SOAC 2023-2024

For each particular class, you will push your work on the common repository called SOAC 2023-2024. If you haven't set up Git yet locally, please go back to "Setup Git for SOAC 2023-2024".

1. How to create a new branch

Go on main branch:

```
git checkout main
```

```
git pull
```

```
git checkout -b your_new_branch
```

2. How to update your branch to be up-to-date with main branch:

If the branch was already created, but there are new changes on main branch that you need, you have to take the changes from main branch:

```
git checkout your_branch
```

```
git fetch
```

```
git rebase origin
```

Whenever you try to rebase, please check first to not have any unstaged changes, otherwise this won't work. (with git status command)

If you have any changes, you either commit them first (if you want to push them):

```
git commit -s
```

or you stash them (you save them):

```
git stash push
```

After you rebase, you can get back your stashed changes by using the command:

```
git stash pop
```

1. How to add a new commit

If you want to add a new commit, you use the following commands:

```
git status
```

```
git add file
```

```
git commit -s
```

```
git push
```

2. How to modify an already existing commit

If you have already committed some changes, but you remember you have to change, add or remove something, instead of adding the changes on different commits, you can always change the last commit that you have in the tree. For this, you have to follow almost the same procedure as for doing an initial commit:

```
git status
```

```
git add file
```

```
git commit --amend
```

```
git push
```

Before amending a commit, please ensure that the latest commit is the one you want to amend. For this, you can either check with git log command:

```
git log --oneline -5
```

or use gitk:
gitk