# lab0 实验文档

## 文档问题

两条命令的区别: git branch 只显示本地分支, 而git branch显示所有分支,包括本地分支和远程分支(remotes/...)

# 网页阅读问题

通过阅览Commit Message 规范, 我认识到:git提供了强大的版本控制,可以直接生成change log,同时 commit能够让使用者清晰了解commit类型和具体改动内容,有助于快速筛选出自己需要的版本。

通过阅览语义化版本,我认识到:语义化版本控制规范中,主版本号,次版本号,修订号各自的作用,在发布新版本时应该遵循的规范,以及作为发布者和使用者的一些良好实践。而Git版本控制则使我们在git commit的时候能清楚的标明我们所做的代码修改/补充是服务于哪一个大版本。

## 实验步骤

#### 1. git clone

```
fanti@TingShuo:~$ mkdir lab0
fanti@TingShuo:~$ cd lab0
fanti@TingShuo:~/lab0$ git clone git@github.com:ICS-25Fall-FDU/lab0-gitlab-Survivor613.git .
Cloning into '.'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 7 (delta 0), reused 0 (delta 0), pack-reused 4 (from 1)
Receiving objects: 100%_(7/7), done.
```

#### 2. 修改main分支并commit

```
PROBLEMS
            OUTPUT DEBUG CONSOLE TERMINAL
                                              PORTS
● fanti@TingShuo:~/lab0$ git status
 On branch main
 Your branch is up to date with 'origin/main'.
 Changes not staged for commit:
   (use "git add <file>..." to update what will be committed)
   (use "git restore <file>..." to discard changes in working directory)
         modified:
                     main.c
 no changes added to commit (use "git add" and/or "git commit -a")
fanti@TingShuo:~/lab0$ git add .
fanti@TingShuo:~/lab0$ git status
 On branch main
 Your branch is up to date with 'origin/main'.
 Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
         modified: main.c
fanti@TingShuo:~/lab0$ git commit -m "modification on main branch"
 [main c3e7805] modification on main branch
  1 file changed, 1 insertion(+), 1 deletion(-)
```

#### 3. 创建feature分支,修改并commit

```
PROBLEMS
            OUTPUT DEBUG CONSOLE
                                    TERMINAL
                                              PORTS
• fanti@TingShuo:~/lab0$ git branch feature
fanti@TingShuo:~/lab0$ git switch feature
 Switched to branch 'feature'
fanti@TingShuo:~/lab0$ git status
 On branch feature
 nothing to commit, working tree clean
• fanti@TingShuo:~/lab0$ git status
 On branch feature
 Changes not staged for commit:
   (use "git add <file>..." to update what will be committed)
   (use "git restore <file>..." to discard changes in working directory)
         modified:
                     main.c
 no changes added to commit (use "git add" and/or "git commit -a")
fanti@TingShuo:~/lab0$ git add .
• fanti@TingShuo:~/lab0$ git commit -m "modification on main feature"
 [feature 1bb3be5] modification on main feature
  1 file changed, 1 insertion(+), 1 deletion(-)
```

# 4.merge时出现冲突

```
| Compared | X | State | State
```

### 5.解决冲突 ( Accept Both Changes)

补充说明,由于整个git版本控制中包含试错环节,如果助教需要查看本项目历史版本信息,请以最新提交的commit为标准