第一次作业情况

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作业回顾

- 网络学堂提交 GitHub 用户名
- 作业1：Git 入门
  - clone, 修改文件, add, commit, push
- So easy!

情况：网络学堂

- 学生 57 人，共提交 58 人
  - 有一位同学~~跑路~~退课了
  - 有 1 位同学提交了错误的用户名，被改正了
  - 有 3 位同学没有接受作业创建仓库
    - Neville, YDK12, ignisfatuus28
    - 请及时与助教联系
- 小作业：两边布置
  - 务必注意 DDL，第二次起不接受任何例外情况
  - 如果有 DDL 变化会通过网络学堂/微信群通知

作业1：Self-Intro

- 情况：
- 黑盒测试：
  - 使用了与下发相同的 grader
  - 所有人均为满分（还会不满分吗？）
  - 注意：任何情况不允许修改 grader
- 白盒测试：
  - 第一次就不扣分了，但是……
  - 下面详细讲

代表性的 Commit Message

- xi**ip: `diyici`
- r**t: `xiugaile introduction`
- ho**ng: 頑張りましょう!
- Si**ao: `20190702`
- root: `lm`
- "這是我在2019年夏季學期的第一次也是人生第一次使用Git提交作業"
- "第一次作业，张**，`2017******`"
- "完成作业"

更糟糕的（真实）例子

- 学数数：1, 2, 3, 4, 5, 6, ...
- 滚键盘：Asd, dqw, dsas, asd
- 复读机：
  - Update, Update, Update, Update, ...
  - Fix bug, fix bug, fix bug...
- 偷懒：Upload via GitHub

Seems better?

Author		Commit	Message
	Harry Chen	c9fb98e	Add scrolling for UserScriptActivity, distinguish debug and release version
	zyx	550722c	fix transaction record
	zyx	12799c2	support cards issued by cqtk.com.cn
	Fan Dang	05f65aa	ADD PBOC Quasicredit
	Fan Dang	f3104b2	UPGRADE library versions ADD launcher icon
	z4yx	e0ff13f	change the font and size of EditText
	z4yx	95c8934	retrieve arguments by calling sc.args()
	z4yx	c9d19d3	jpg to png

Linux Torvalds' Oracle

```
A good commit message looks like this:

    Header line: explaining the commit in one line

    Body of commit message is a few lines of text, explaining things
    in more detail, possibly giving some background about the issue
    being fixed, etc etc.

    The body of the commit message can be several paragraphs, and
    please do proper word-wrap and keep columns shorter than about
    74 characters or so. That way "git log" will show things
    nicely even when it's indented.

    Reported-by: whoever-reported-it
    Signed-off-by: Your Name <youremail@yourhost.com>

where that header line really should be meaningful, and really should be
just one line.  That header line is what is shown by tools like gitk and
shortlog, and should summarize the change in one readable line of text,
independently of the longer explanation.
```

为什么要这么做？

- Message 是给人读的，但也需要自动化处理
- Header Line：改动的模块，改动概览
  - self-intro: add Python version info
- Message Body：改动理由，具体变动
  - Insert version of my Python to introduction.txt
  - To get the necessary points of my homework
- Foot：备注信息
  - Signed-off-by, Reported-by
  - 特殊：是否 revert 了某一个 commit

A Good Commit Header

- 简洁、清晰，没有通行的规范
- 一些推荐格式：
  - Scope: Verb Object (self-intro: add Python version)
  - Verb Description (Add Python version in self-intro)
  - Type: Scope Subject (feature: self-intro: Python version)
- 常用的一些动词
  - fix, add, implement, fix, refactor
  - "Update" is not good for code

何时 Commit?

- 当进行了一次比较完整的修改：
  - 添加某一特性
  - 修复某一特定问题
  - 重构一部分代码
- 及时 commit，不要怕多：
  - 能够以更细的粒度追踪更改与回滚
  - ~~显得非常勤奋~~
- 不要攒着 commit！
  - 10000++, 10000– 很糟糕

参考资料

- https://zhuanlan.zhihu.com/p/34223150
- http://www.ruanyifeng.com/blog/2016/01/commit_message_change_log.html
- https://chris.beams.io/posts/git-commit/