

🔑 Git 与 GitHub 入门实践 (/courses/1035)

GitHub 多人协作

知识点

- 忽略文件
- Fork 仓库
- 添加合作者
- 编写 issue

一、准备

本节将介绍 GitHub 多人协作与相关 Git 的操作，所有操作全部在浏览器页面上完成，内容相对较少。

建议大家准备两个浏览器和两个 GitHub 账号以便模拟场景。我的账号 Chuntianlaile 是一个用来测试的账号，假定这是项目组长的账号，Manchangdx 是组员的账号。

二、创建仓库

首先，在组长账号中创建一个仓库，名为 work，在创建仓库时，需要说明第一节中提到的两个下拉框：

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Create a new repository

A repository contains all the files for your project, including the revision history.

Owner



Chuntianlaile ▾

Repository name *

/ work ✓

Great repository names are short and memorable. Need inspiration? How about **urban-broccoli**.

Description (optional)

Git 多人协作测试



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None ▾

Add a license: None ▾



Create repository



左边的忽略文件下拉框：我们在写代码时，总会出现一些不需要上传到仓库的垃圾文件、缓存文件、备份文件、环境文件等等，可以创建一个忽略文件将这些不需要被上传到远程仓库的文件忽略掉。忽略文件的名字是 `.gitignore`，它被放置在仓库主目录下，将不需上传的文件的名字写入其中，Git 就会自动忽略它们。比如这个仓库是用来 Windows 开放的，就在下拉框中选择 Windows，如果这是一个保存 Java 项目的仓库，就选择 Java。这样，在仓库创建成功后，忽略文件就自动出现了，这个忽略文件中有对应的语言或工具中绝大部分通用的忽略规则。当然了，你也可以自己手动增删改。

如果在创建仓库时忘记了选择忽略文件，几个提交后突然想起来，怎么办？GitHub 上有人把忽略文件都做好了，打开链接 [github / gitignore](https://github.com/github/gitignore) (<https://github.com/github/gitignore>)，这个仓库里有很多忽略文件，选择你需要的放到自己的仓库即可。

右边的开源许可下拉框：关于开源许可证，不属于本课程所述范围，如有需要大家可以自行搜索。我们的仓库不需要选择这一项。选择这个之后，仓库中会出现相对应的图标，比如上面提到的忽略文件仓库：

The screenshot shows the GitHub repository page for 'gitignore' by 'github'. The repository name is 'Git 与 GitHub 入门实践 (/courses/1035)'. It has 2,729 watches, 78,281 stars, and 37,363 forks. The repository is described as 'A collection of useful .gitignore templates'. It has 3,070 commits, 6 branches, 0 releases, and 1,022 contributors. The license is CC0-1.0. The 'Clone or download' button is highlighted with a green circle.

在组长账号中创建好新仓库，如下图：

The screenshot shows the GitHub repository page for 'work' by 'Chuntianlaile'. The repository has 1 commit, 1 branch, 0 releases, and 1 contributor. The license is CC0-1.0. The repository contains a '.gitignore' file and a 'README.md' file. The 'Clone or download' button is highlighted with a green circle.

对上图右上角三个按钮进行说明：

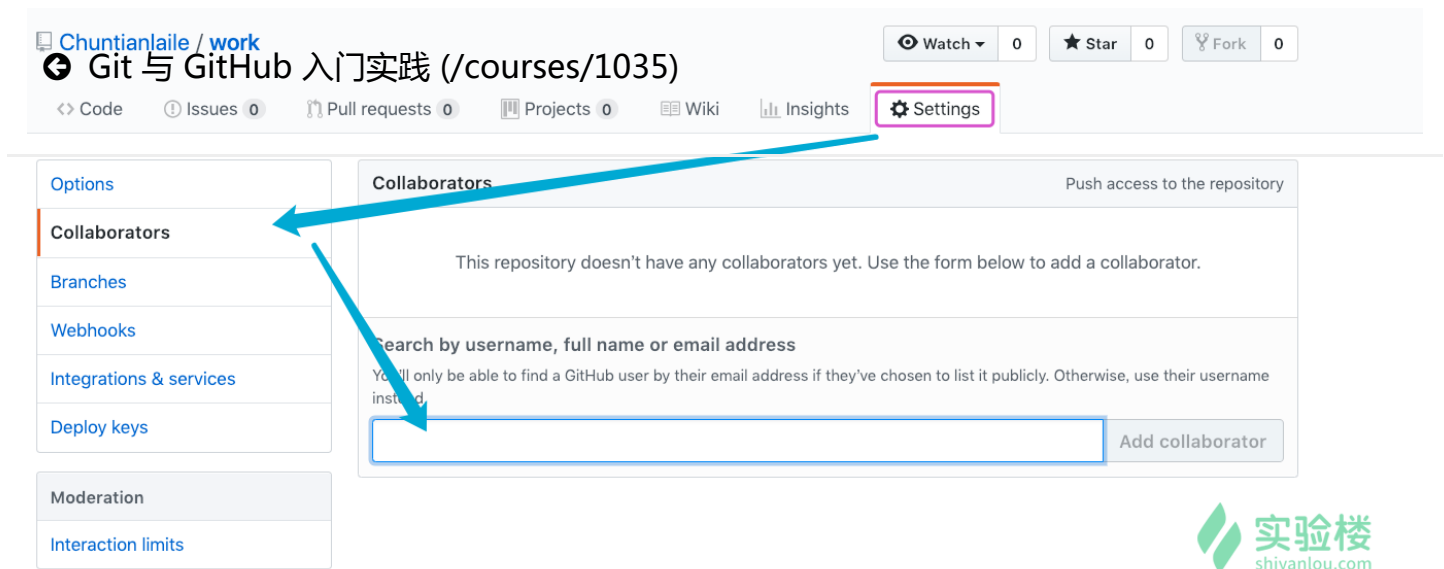
Watch：这是一个下拉按钮，可以选择对此仓库关注、不关注、忽略等。

Star：如果觉得这个仓库很好，就点击这个按钮送一颗星，在淘宝提供刷星业务之前，仓库获得的星越多表示该项目越优秀。

Fork：在别人的仓库中点此按钮会克隆一个完全一样的仓库到你自己的账号中，包括所有分支、提交等，但不会克隆 issue（本节后面会讲到），当此仓库发生版本变化，不会自动同步到你克隆的仓库里，反之亦然。

三、增加合作者

现在在组长账号中增加该仓库的合作者，也就是组员：



Chuntianlaile / work

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<> Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Options Collaborators Branches Webhooks Integrations & services Deploy keys

Moderation Interaction limits

Collaborators Push access to the repository

This repository doesn't have any collaborators yet. Use the form below to add a collaborator.

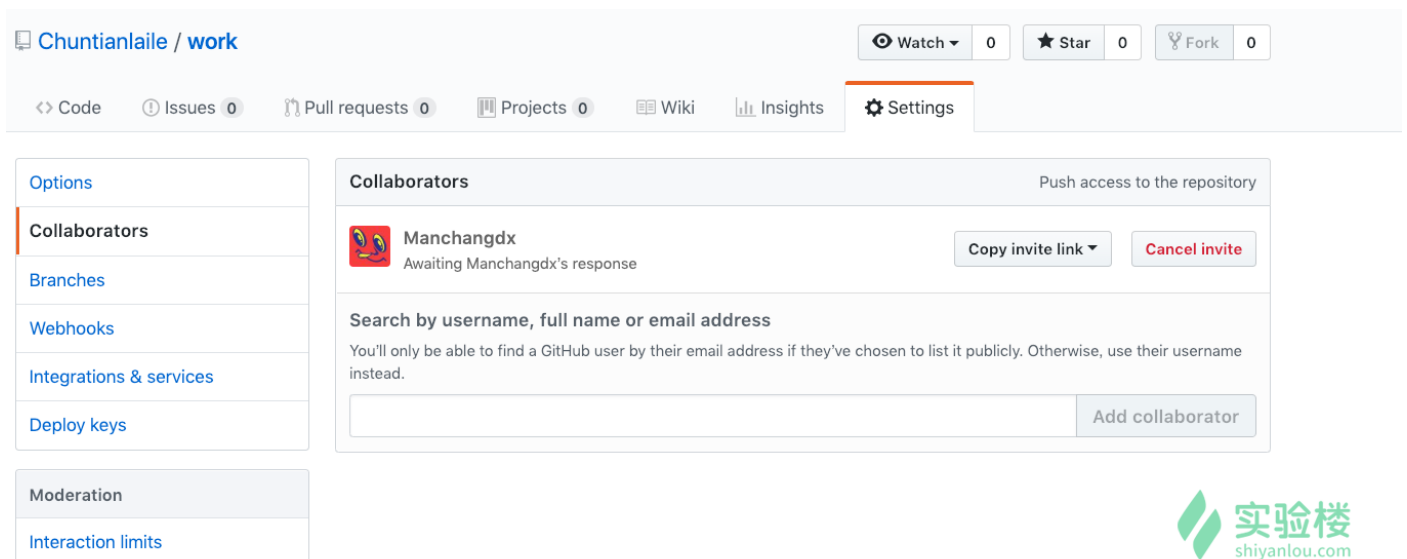
Search by username, full name or email address

You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.

Add collaborator



在浅蓝色输入框中写入组员 GitHub 账号的用户名，选择正确的用户，点击右侧按钮就会发送一封邀请邮件给组员：



Chuntianlaile / work


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<> Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Options Collaborators Branches Webhooks Integrations & services Deploy keys

Moderation Interaction limits

Collaborators Push access to the repository

 **Manchangdx**
Awaiting Manchangdx's response

Copy invite link Cancel invite

Search by username, full name or email address

You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.

Add collaborator



现在使用另一个浏览器登录组员的 GitHub 账号和邮箱，打开邮件：

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GitHub



+



@Chuntianlaile has invited you to collaborate on the
Chuntianlaile/work repository

You can [accept or decline](#) this invitation. You can also head over to <https://github.com/Chuntianlaile/work> to check out the repository or visit [@Chuntianlaile](#) to learn a bit more about them.

[View invitation](#)

Note: This invitation was intended for [1195581533@qq.com](#). If you were not expecting this invitation, you can ignore this email. If @Chuntianlaile is sending you too many emails, you can [block them](#) or [report abuse](#).

Getting a 404 error? Make sure you're signed in as @Manchangdx.

Button not working? Copy and paste this link into your browser:
<https://github.com/Chuntianlaile/work/invitations>



点击上图绿色按钮，跳转到下图：

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Chuntianlaile invited you to collaborate

Accept invitation

Decline

🔒 Owners of work will be able to see:

- Your public profile information
- Certain activity within this repository
- Country of request origin
- Your access level for this repository
- Your IP address

Is this user sending spam or malicious content?

[Block Chuntianlaile](#)

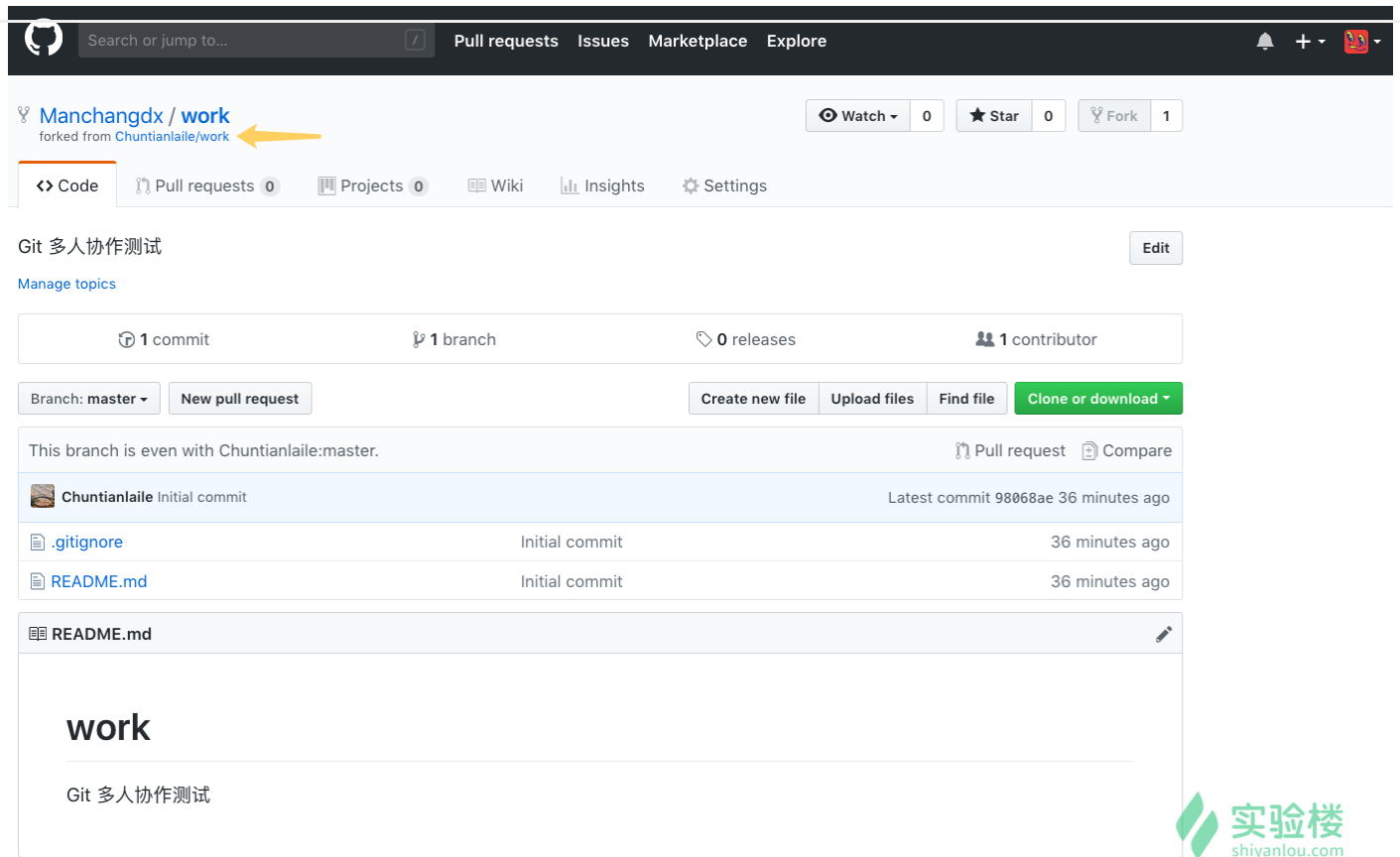


再次点击绿色按钮接受邀请，会跳转到组员访问组长仓库的页面：

The screenshot shows the GitHub repository page for 'Chuntianlaile / work'. At the top, a notification bar states 'You now have push access to the Chuntianlaile/work repository.' Below this, the repository name 'Chuntianlaile / work' is displayed, along with 'Watch' (0), 'Star' (0), and 'Fork' (0) buttons. The 'Fork' button is highlighted with a pink box. The repository has 1 commit, 1 branch, 0 releases, and 1 contributor. The 'Clone or download' button is green. The repository contains files: '.gitignore' (Initial commit, 33 minutes ago), 'README.md' (Initial commit, 33 minutes ago), and 'work' (Initial commit, 33 minutes ago). The 'work' file is selected, showing its content: 'Git 多人协作测试'.

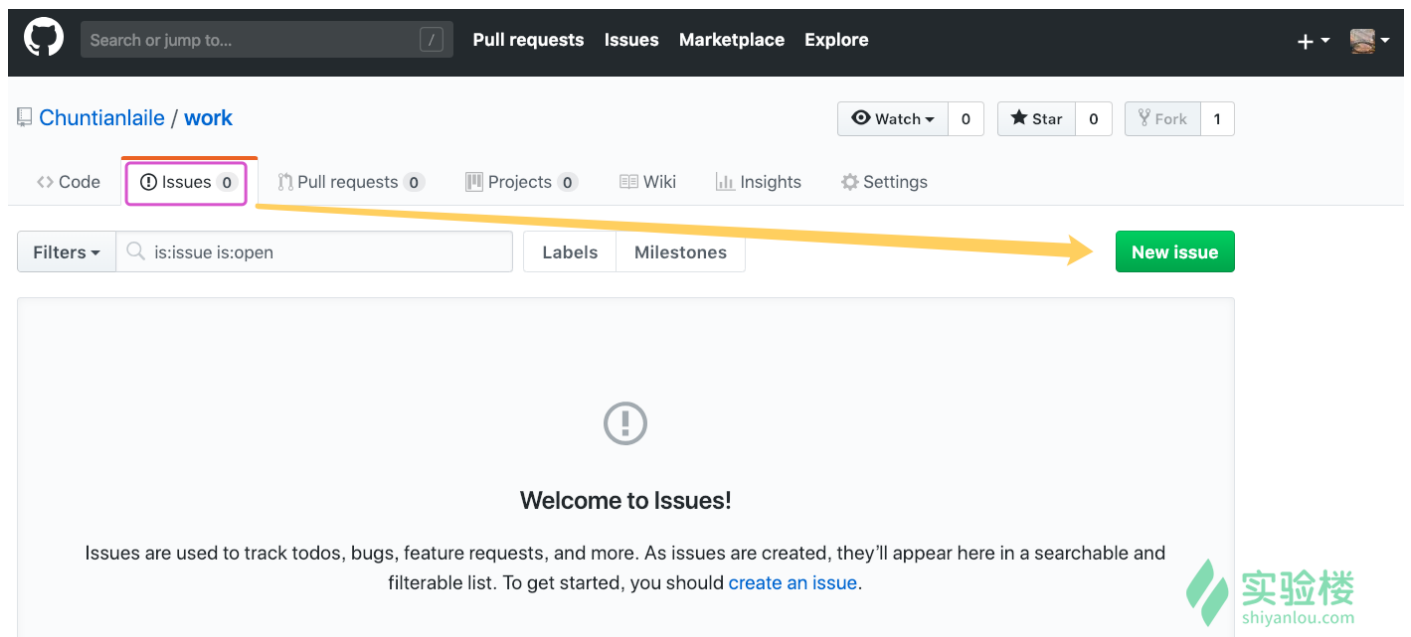


点击上图紫色框中的 Fork 按钮，克隆组长的仓库到组员的账号中，完成后自动跳转到下图页面，也就是组员的仓库页面：

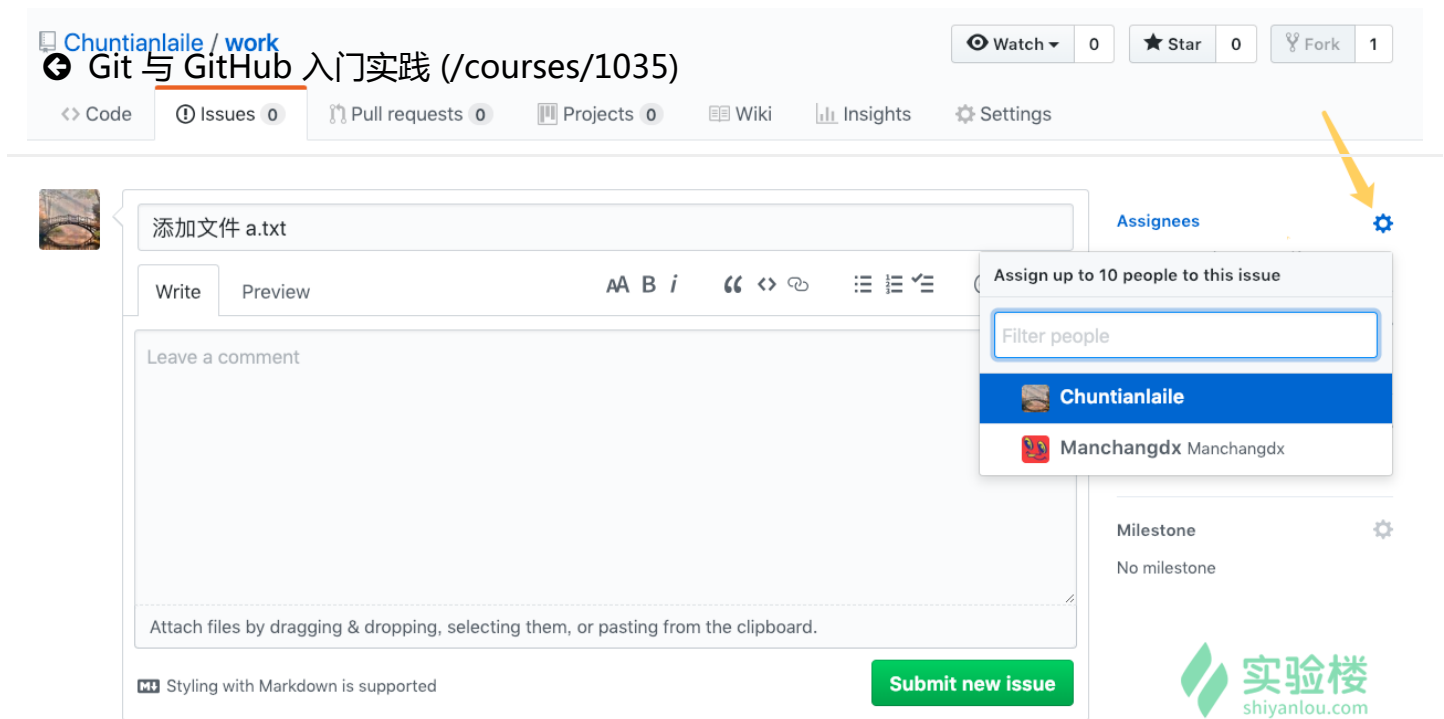


四、添加 issue

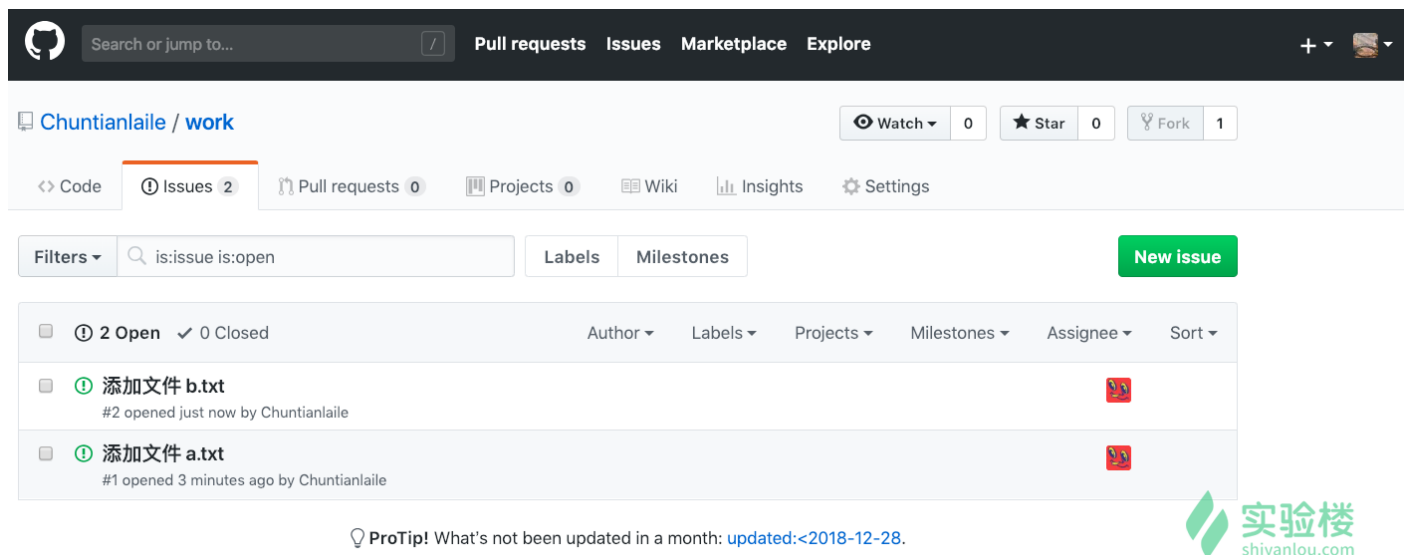
切换到组长的 GitHub 页面，在仓库中添加一些项目任务或待解决问题，这些任务就是 issue：



写好任务标题后，可以在右侧指派一位或多位项目参与者来完成，同样 GitHub 也会给被指派者发邮件的（可以在自己的 GitHub 账号上设置拒收哪类邮件）：



写好两个 issue，前面说过的，组长仓库里的 issue 不会出现在组员仓库中：



五、总结

本节实验全部在 GitHub 页面上完成，主要介绍以下内容：

- 忽略文件
- Fork 仓库
- 添加合作者
- 编写 issue

以上是 GitHub 上多人协作最基础的操作，当然还有其它丰富实用的功能可以按需使用。下一节将学习多人协作的 Git 操作部分。

**本课程内容，由作者授权实验楼发布，未经允许，禁止转载、下载及非法传播。*

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—— 上一节：[Git 分支操作 \(/courses/1035/labs/9816/document\)](/courses/1035/labs/9816/document) ——

下一节：[多人协作 Git 部分 \(/courses/1035/labs/9824/document\)](/courses/1035/labs/9824/document)