



主讲教师：传智.花荣

传智播客 PHP 学院 <http://php.itcast.cn> 发布

# 1. 了解 Git 和 Github

## 1.1 什么是 Git

Git 是一个免费、开源的版本控制软件

## 1.2 什么是版本控制系统

版本控制是一种记录一个或若干个文件内容变化，以便将来查阅特定版本修订情况得系统。

➤ 系统具体功能

记录文件的所有历史变化

随时可恢复到任何一个历史状态

多人协作开发或修改

错误恢复

## 1.3 什么是 Github

Github 是全球最大的社交编程及代码托管网站（<https://github.com/>）。

Github 可以托管各种 git 库，并提供一个 web 界面（用户名.github.io/仓库名）

## 1.4 Github 和 Git 是什么关系

Git 是版本控制软件

Github 是项目代码托管的平台，借助 git 来管理项目代码

## 1.5 为什么学习 github

学习优秀的开源项目

关注行业前辈了解最新的行业动态

如：

PHP 鸟哥，前新浪总架构师 <https://github.com/laruence>

国内最流行的 PHP 开发框架（thinkphp）：<https://github.com/top-think/thinkphp>

全球最流行的 PHP 框架（laravel）：<https://github.com/laravel/laravel>

PHP 编码规范（FIG-PHP）：<https://www.gitbook.com/book/jifei/php-fig-standards/details>

## 2. 使用 Github

### 2.1 目的

借助 github 托管项目代码

### 2.2 基本概念

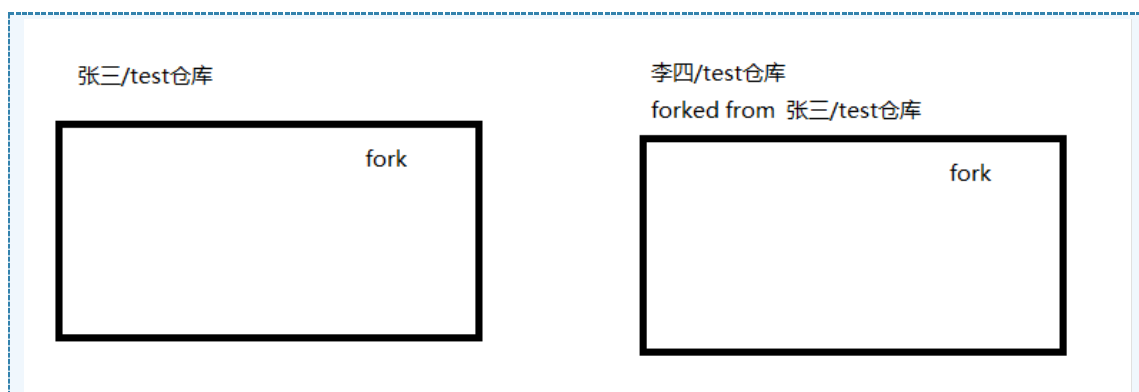
#### 仓库（Repository）

仓库用来存放项目代码，每个项目对应一个仓库，多个开源项目则有多个仓库

#### 收藏（Star）

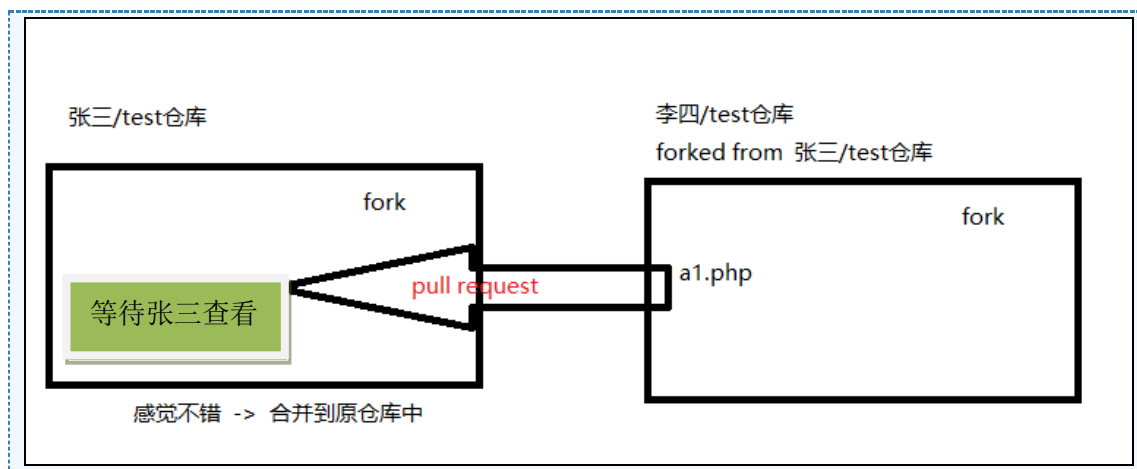
收藏项目，方便下次查看

#### 复制克隆项目（Fork）



**脚下留心：**该 fork 的项目是独立存在的

## 发起请求（Pull Request）



## 关注（Watch）

关注项目，当项目更新可以接收到通知

## 事务卡片（Issue）

发现代码 BUG，但是目前没有成型代码，需要讨论时用；

## Github 主页

账号创建成功或点击网址导航栏 github 图标都可进入 github 主页：该页左侧主要显示用户动态以及关注用户或关注仓库的动态；右侧显示所有的 git 库

## 仓库主页

仓库主页主要显示项目的信息，如：项目代码，版本，收藏/关注/fork 情况等

## 个人主页

个人信息：头像，个人简介，关注我的人，我关注的人，我关注的 git 库，我的开源项目，我贡献的开源项目等信息

## 2.3 注册 github 账号

### 官方网址

github.com

GitHub, Inc. [US] https://github.com

Index of / 度 tools PHP 未来 company 架构师 linux freestyle php扩展 js ios rubik svn 名人访谈 1 佛 itcast

Personal Open source Business Explore Pricing Blog Support Search GitHub Sign in Sign up

登录状态 -> 点击 -> 进入github主页  
未登录状态 -> 点击 -> 进入github网站首页

How people build software

Millions of developers use GitHub to build personal projects, support their businesses, and work together on open source technologies.

Pick a username  
Your email address  
Create a password  
Use at least one letter, one numeral, and seven characters.  
Sign up for GitHub  
By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We'll occasionally send you account related emails.

Hub, Inc. [US] https://github.com/join?source=header-home

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Step 1: Set up a personal account Step 2: Choose your plan Step 3: Tailor your experience

Create your personal account

Username  
itcastphpgit2 ✓  
This will be your username — you can enter your organization's username next.

Email Address  
2860799935@qq.com ✓  
You will occasionally receive account related emails. We promise not to share your email with anyone.

Password  
..... ✓  
Use at least one lowercase letter, one numeral, and seven characters.

You'll love GitHub  
填写用户名  
Unlimited collaborators  
Unlimited public repositories  
填写邮箱（非常重要，需要接受邮件）  
Great communication  
Frictionless development  
Open source community

填写密码

By clicking on "Create an account" below, you are agreeing to the [Terms of Service](#) and the [Privacy Policy](#). 创建github账号

Create an account

Hub, Inc. [US]

https://github.com/join/plan

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Search GitHub Pull requests Issues Gist + -

# Welcome to GitHub

You've taken your first step into a larger world, @itcastphpgit2.

✓ Completed  
Set up a personal account

Step 2:  
Choose your plan

⚙ Step 3:  
Tailor your experience

选择你的计划

Choose your personal plan

☒ Unlimited public repositories for free.

☐ Unlimited private repositories for \$7/month.

Don't worry, you can cancel or upgrade at any time.

☐ Help me set up an organization next  
Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees.  
[Learn more about organizations.](#)

Continue

免费无线使用公开的仓库（任何人都可以访问和fork该仓库项目）

Both plans include:

✓ Collaborative code review

✓ Issue tracking

✓ Open source community

✓ Unlimited public repositories

✓ Join any organization

私有的，收费需要美元

默认继续下一步

Hub, Inc. [US]

https://github.com/join/customize

度 tools PHP 未来 company 架构师 linux freestyle php扩展 js ios rubik svn 名人访谈 1 佛 itcast

Completed Set up a personal account Step 2: Choose your plan Step 3: Tailor your experience

How would you describe your level of programming experience?

☐ Very experienced

☐ Somewhat experienced

☐ Totally new to programming

What do you plan to use GitHub for? (check all that apply)

☐ Project Management

☐ Research

☐ Design

☐ Development

☐ School projects

☐ Other (please specify)

Which is closest to how you would describe yourself?

☐ I'm a professional

☐ I'm a hobbyist

☐ I'm a student

☐ Other (please specify)

What are you interested in?

e.g. tutorials, android, ruby, web-development, machine-learning, open-source

Submit

skip this step

跳过这一步



## 脚下留心

- 1、因为 github 在国外服务器所以访问较慢或者无法访问，需要翻墙（Shadowsocks）
- 2、私有仓库只能自己或者指定的朋友才有权限操作（私有仓库是收费的）
- 3、新注册的用户必须验证邮箱后才可以创建 git 库仓库（）

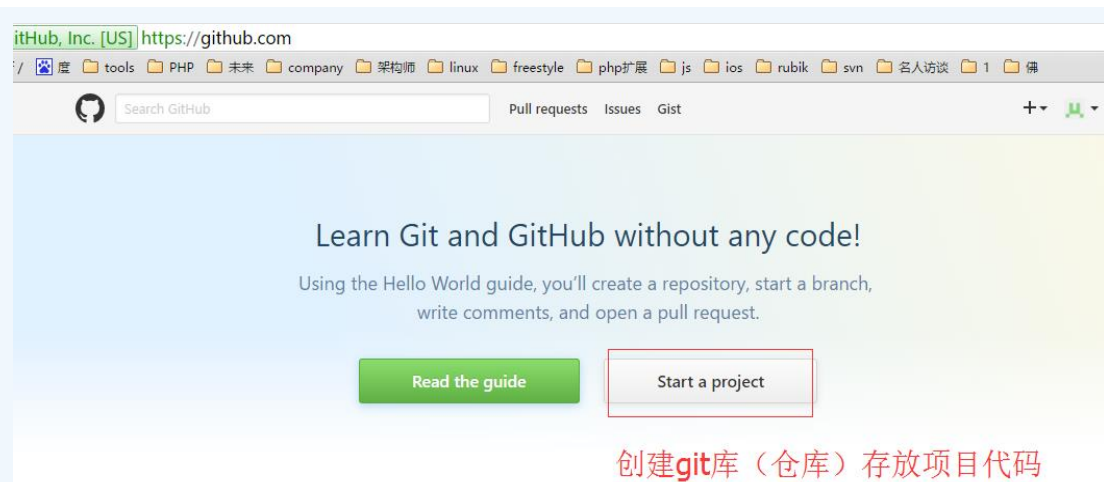
## 2.4 创建仓库/创建新项目

### 说明

一个 git 库（仓库）对应一个开源项目  
通过 git 管理 git 库

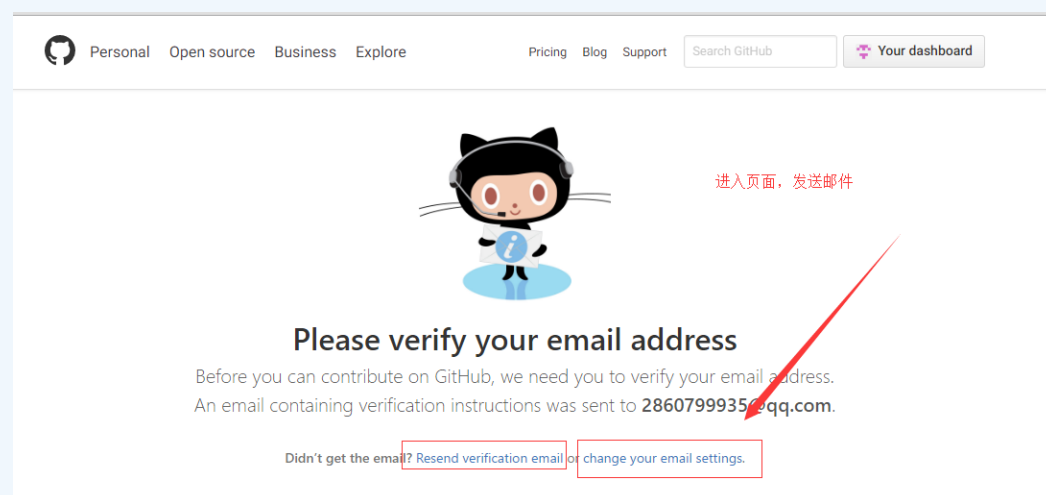
### 创建仓库

- 1) 点击【Start a project】创建一个仓库

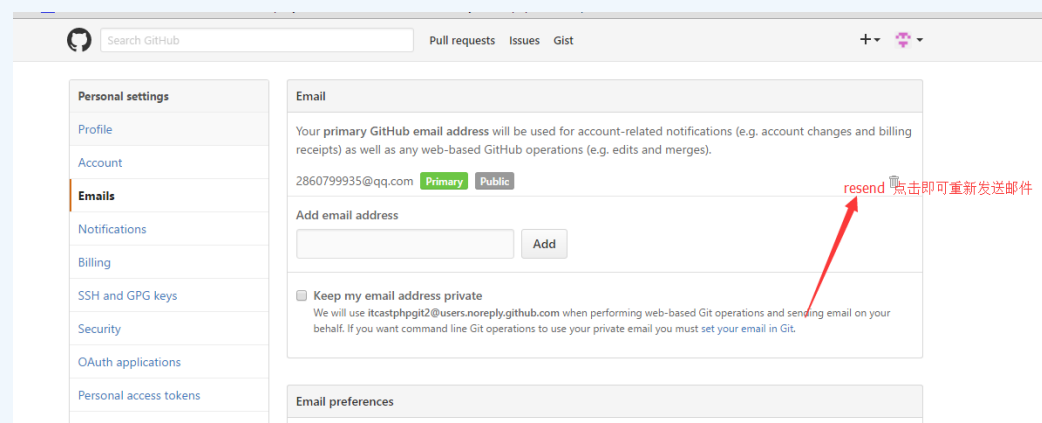


2) 问题：点击【Start a project】创建一个仓库，后出现该页面

2) 原因：未验证邮箱，点击下图框框中的链接进行验证



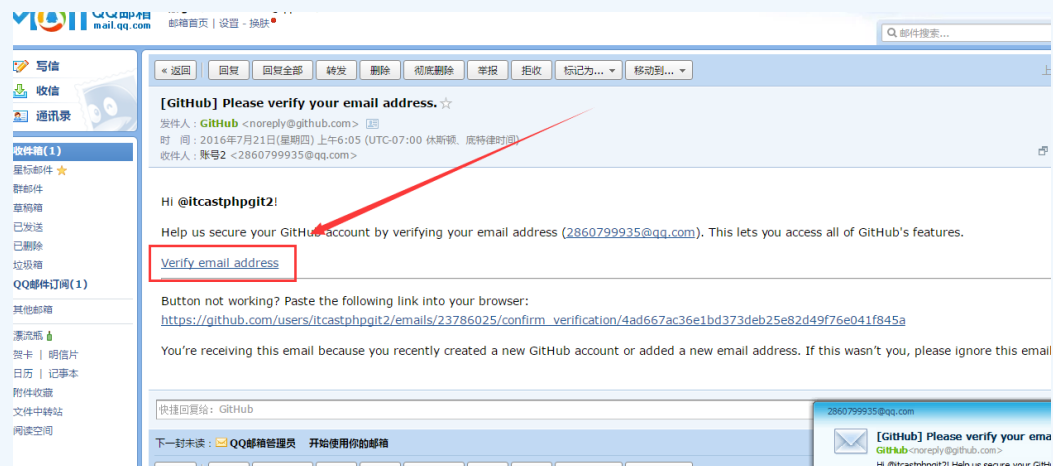
3) 点击【resend】发送邮件验证邮箱





#### 4) 点击【verify email address】验证邮箱

说明：验证成功后会自动跳转 github 主页，重新点击【Start a project】即可创建仓库



#### 5) 验证邮箱后，点击【Start a project】进入下图界面

### Create a new repository

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

Owner  
itcastphpgit2

Repository name  
test

Great repository names are short and memorable. Need inspiration? How about **legendary-spork**.

Description (optional)  
项目描述

☒ 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

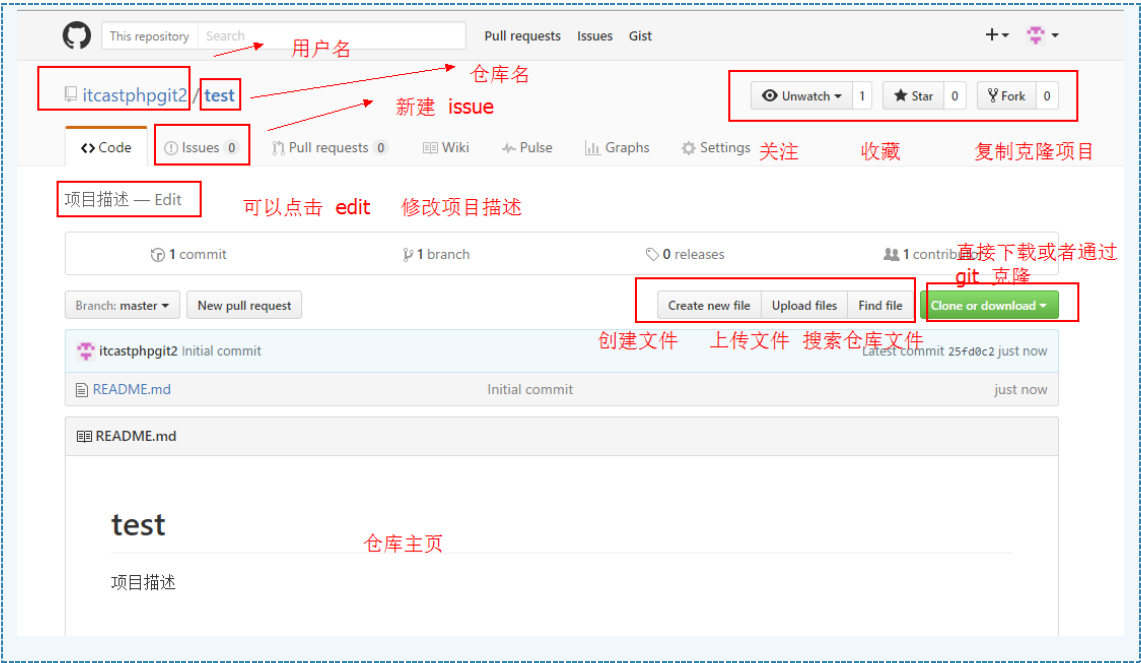
仓库名称，一般情况及时项目名

项目描述

在仓库下多一个 **readme** 的说明文件，来详细描述项目

创建仓库

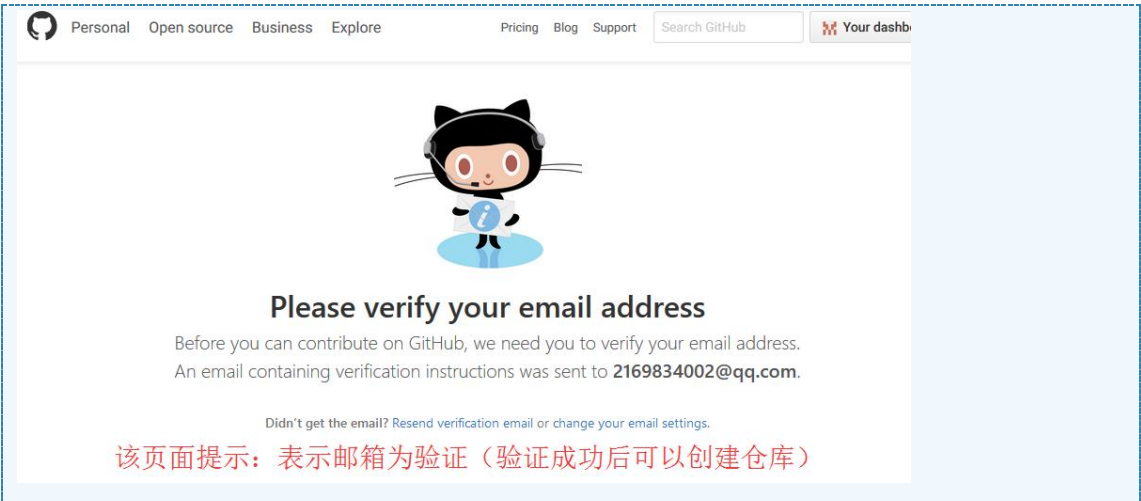
# 仓库主页说明



## 脚下留心

qq 邮箱需要设置白名单才可以收到邮件

## { 未验证邮箱提示页面



## { 设置 QQ 邮箱白名单

- 1、打开 QQ 邮箱、点击【设置】
- 2、点击【反垃圾】
- 3、点击【设置域名白名单】
- 4、在新页面的 input 框中输入【github.com】添加即可

邮箱 q.com 账号 2<2860799935@qq.com> ▾  
邮箱首页 | 设置 | 换肤

邮箱设置

常规 帐户 换肤 收信规则 **反垃圾** 文件夹和标签 其他邮箱 我的订阅 信纸 体验室

黑名单

设置邮件地址黑名单  
(如果你不希望收到某人的邮件, 你可以把他的邮件地址加入到黑名单。)

设置域名黑名单  
(例: 在域名黑名单中设置"example.com", 拒收来自该站点的邮件。)

白名单

设置邮件地址白名单  
(来自邮件地址白名单中联系人的邮件, 仅受用户自定义规则影响, 确保你能收到他的邮件。)

设置域名白名单  
(例: 在域名白名单中设置"tencent.com", 来自该站点的邮件仅受用户自定义规则影响, 确保你收到"@tencent.com"的邮件。)

com 邮箱首页 | 设置 - 换肤

邮箱设置

常规 帐户 换肤 收信规则 **反垃圾** 文件夹和标签 其他邮箱 我的订阅 信纸

设置域名白名单 | 返回"反垃圾"设置

github.com 添加到域名白名单 在列表中查找

删除 清空全部域名白名单

域名

github.com

(来自域名白名单中的邮件会避开反垃圾检查, 可能会导致垃圾邮件增多, 请慎重设置。什么是域名白名单?)

## 2.5 仓库管理

### 新建文件

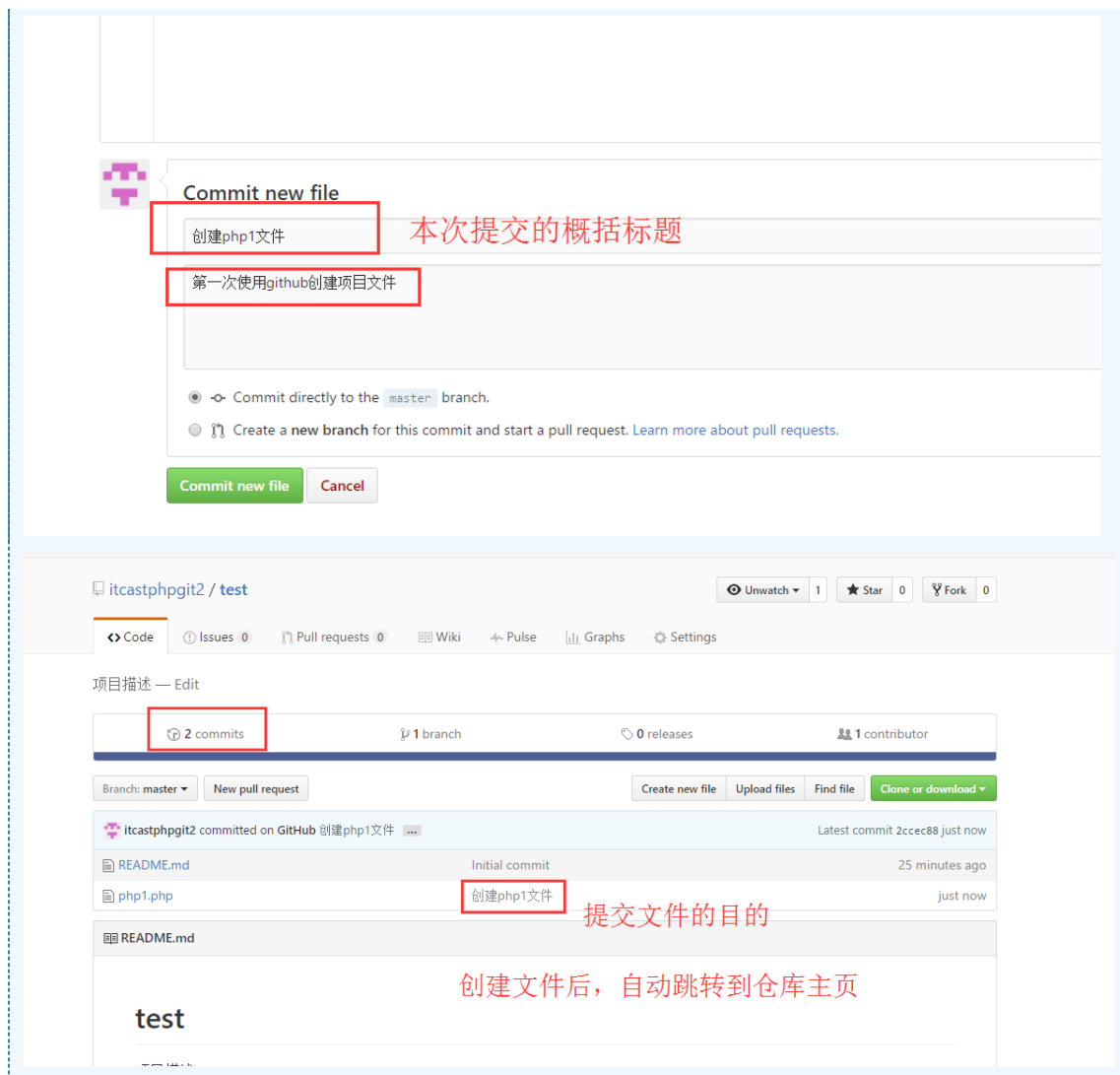
仓库主页，点击【create new file】创建仓库文件

点击创建文件

填写文件名

填写文件内容

下面表单需要填写每次提交的目的，原因：为了方便其他开发者知道本次添加或修改的原因



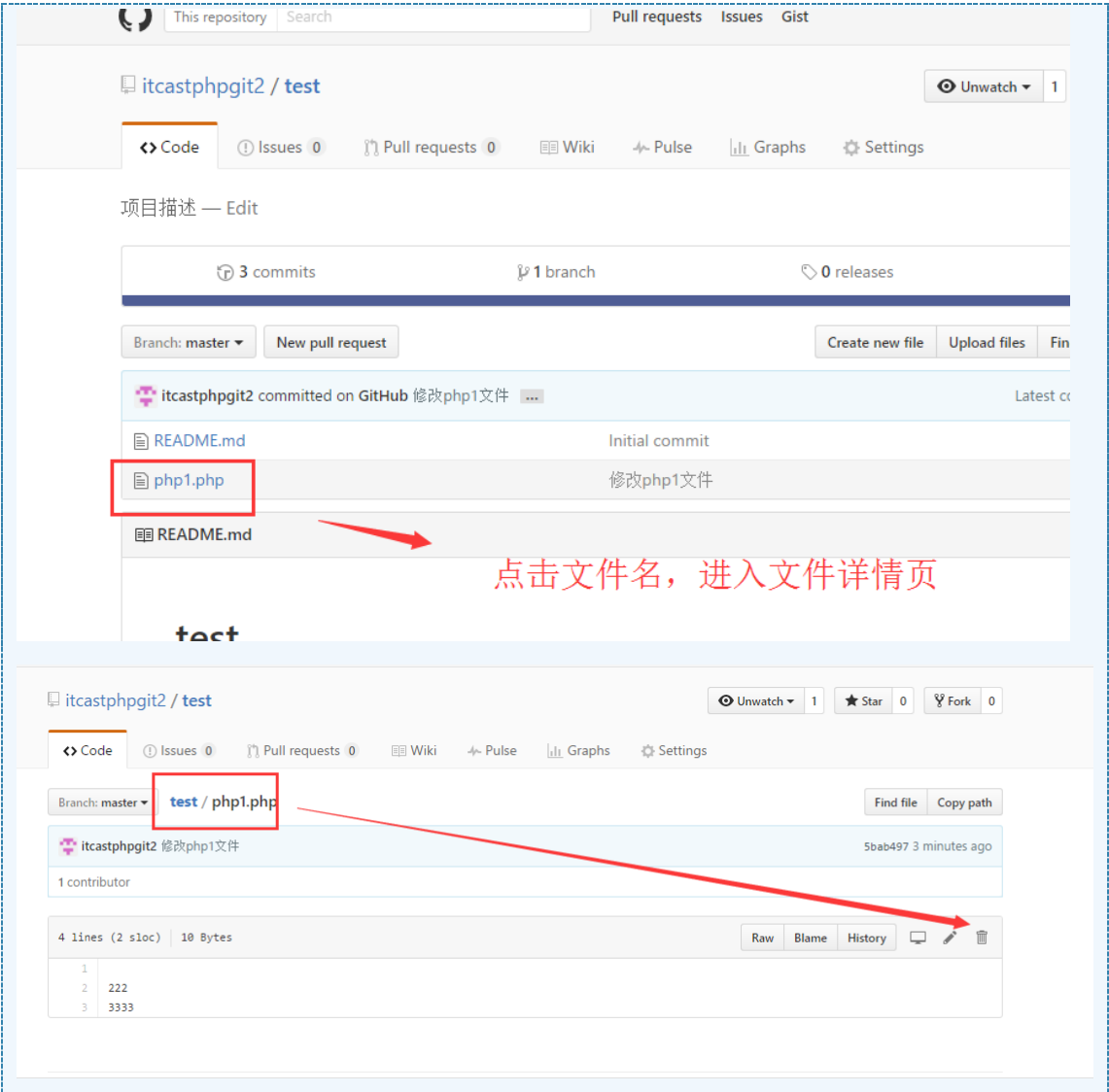
## 编辑文件

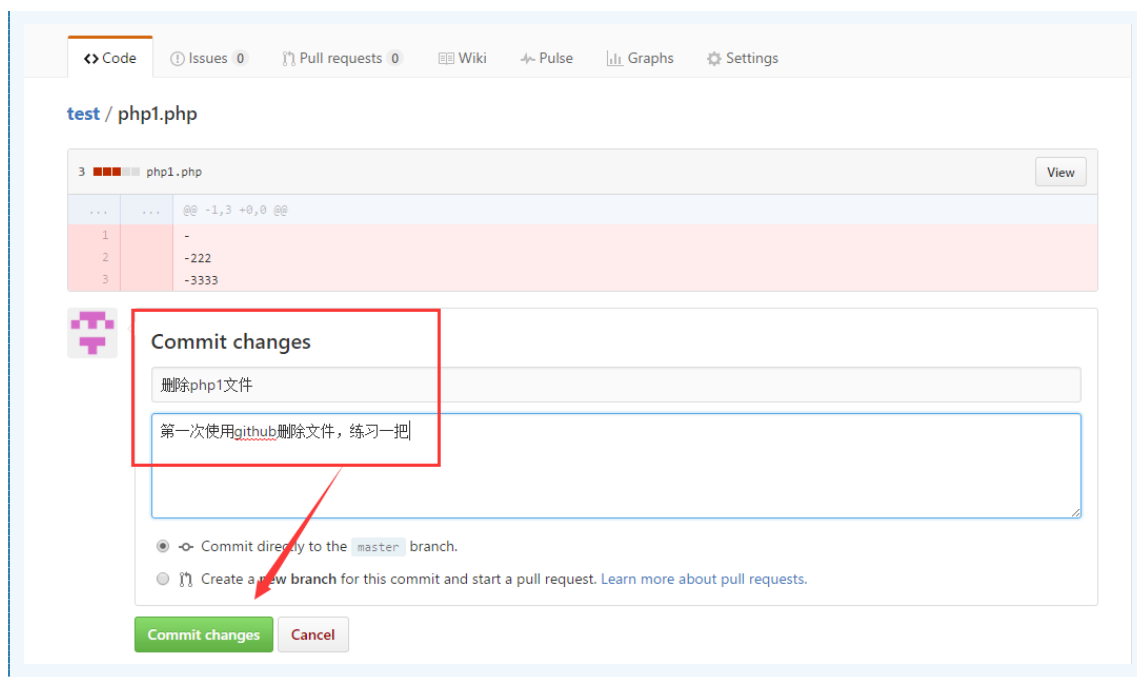


The screenshot illustrates the process of modifying a file in a GitHub repository. It is divided into three main sections:

- Top Section (File Overview):** Shows the repository `itcastphpgit2 / test`. The file `test / php1.php` is selected. A red box highlights the file path, with a red arrow pointing to the edit icon (pencil) in the file toolbar. A red annotation "修改/编辑 该文件" (Modify/Edit this file) points to the edit icon.
- Middle Section (File Editor):** Shows the file content in the editor. The file name `php1.php` is entered in the input field, highlighted by a red box with the annotation "填写文件名" (Enter filename). The editor shows three lines of code: `1 111`, `2 222`, and `3 3333`. A red box highlights the editor area with the annotation "修改文件内容" (Modify file content).
- Bottom Section (Commit Changes):** Shows the "Commit changes" dialog. The commit message "第一次使用github修改文件，练习一把" (First time using github to modify files, practice a bit) is entered. A red arrow points to the "Commit directly to the master branch" radio button, which is selected. The "Commit changes" button is highlighted in green.

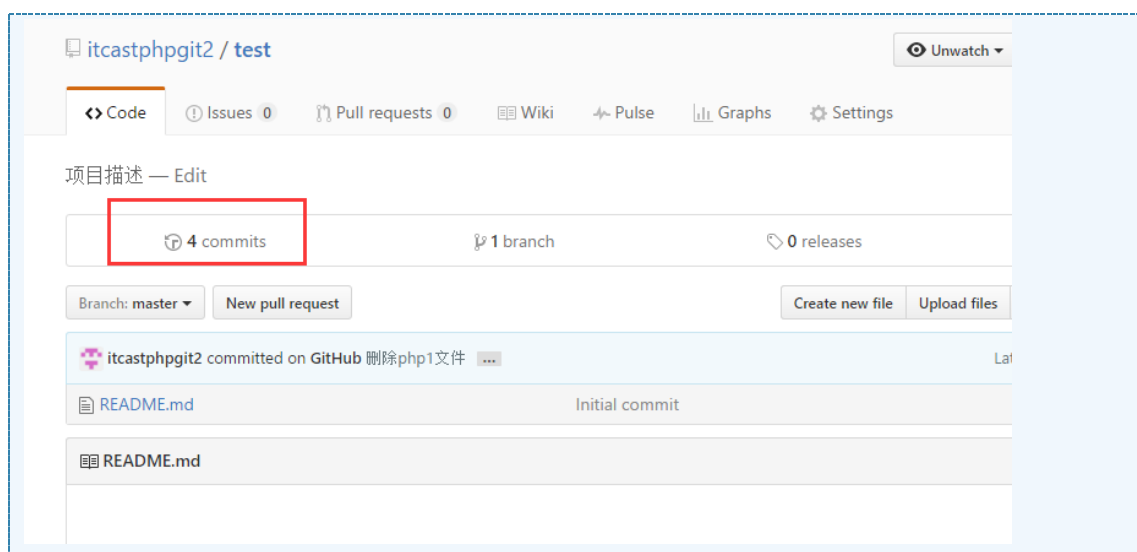
# 删除文件





思考被删除文件如何查看信息

答案：点击 commits 按钮查看





## 上传文件

itcastphpgit2 / test

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Wiki Pulse Graphs Settings

项目描述 — Edit

4 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

itcastphpgit2 committed on GitHub 删除php1文件 Latest commit cbd5c2b a minute ago

README.md Initial commit 37 minutes ago

README.md

test

Drag additional files here to add them to your repository

Or choose your files

可以点击选择上传文件或将文件拖动到该区域上传 (注：一次可以上传多个文件)

logo.png

Commit changes

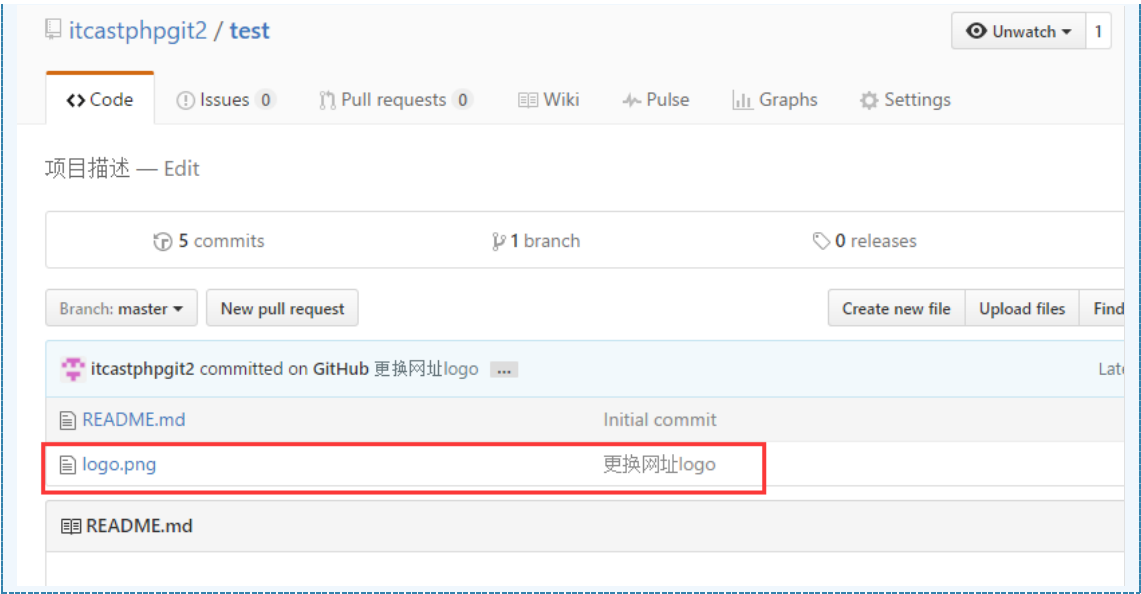
更换网址logo

第一次使用github上传文件

Commit directly to the master branch.

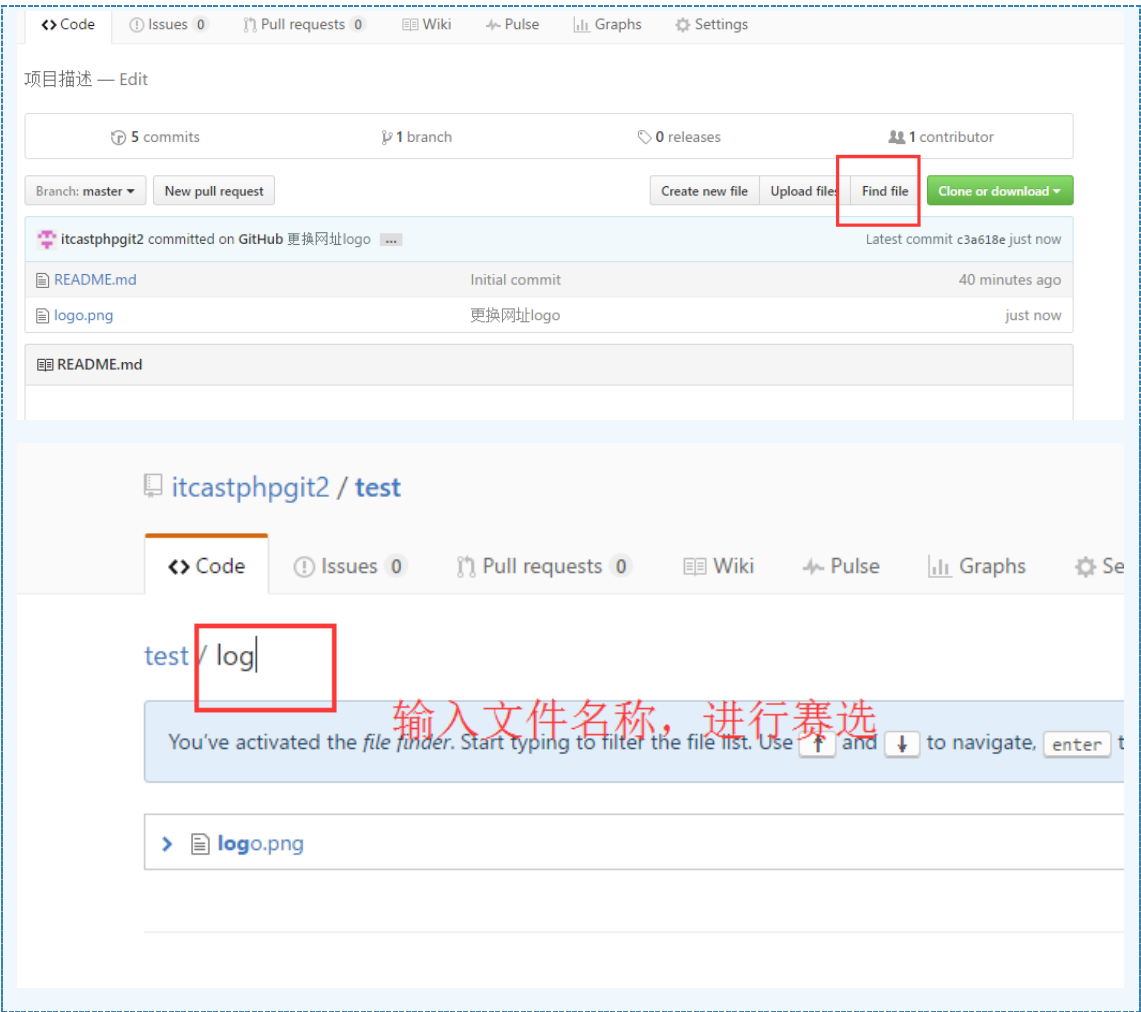
Create a new branch for this commit and start a pull request. Learn more about pull requests.

Commit changes Cancel

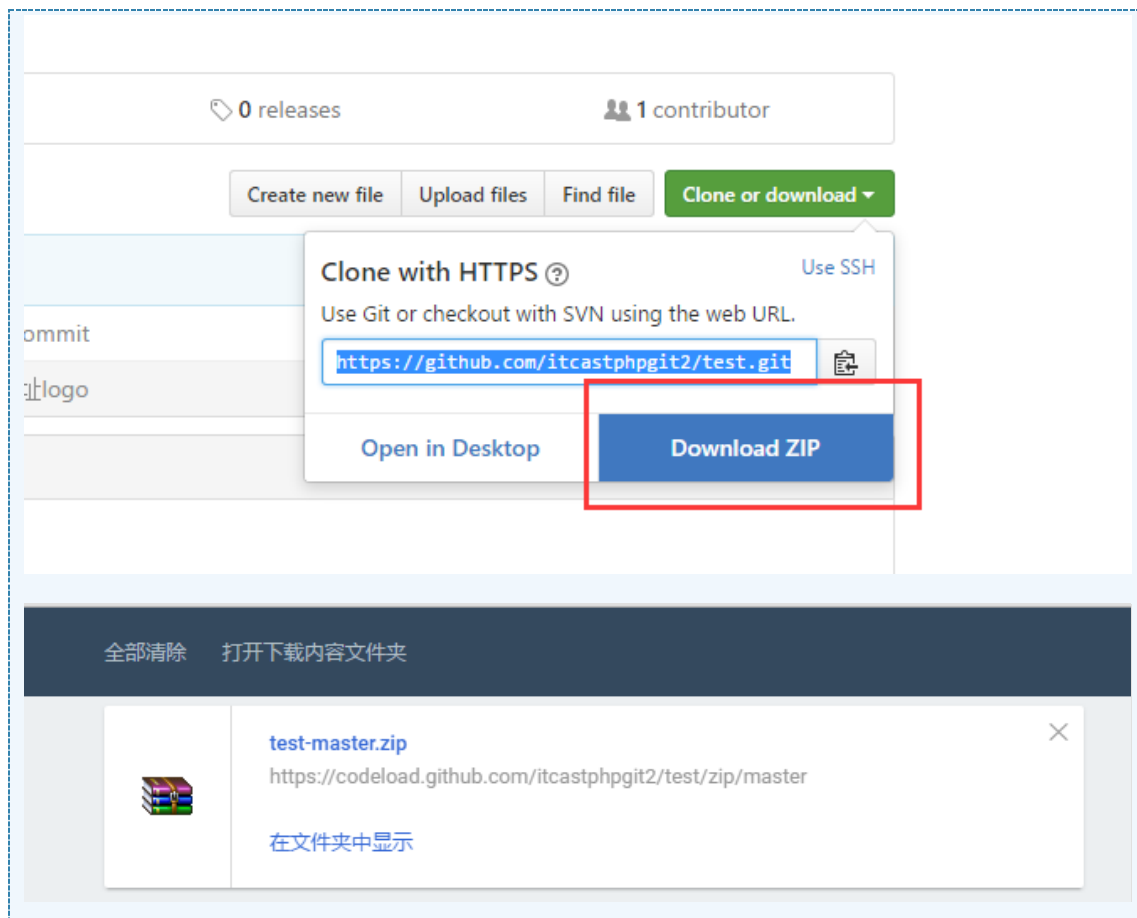


## 搜索仓库文件

多学一招：快捷键（t）



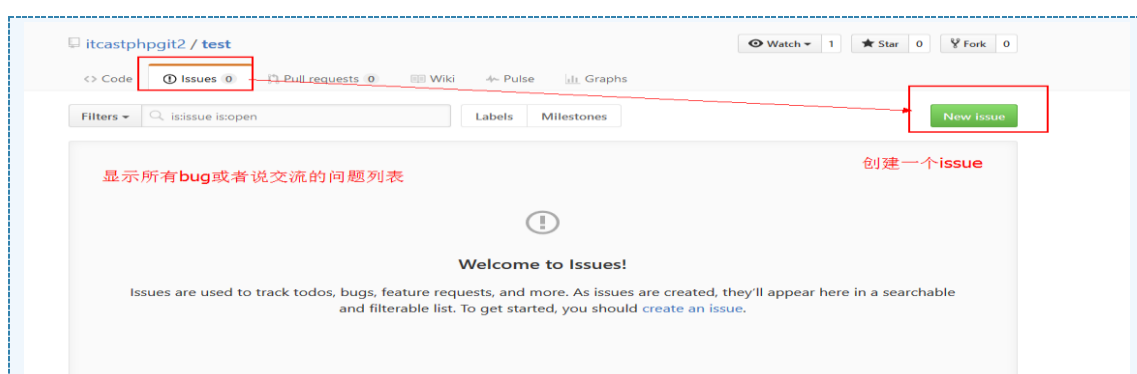
## 下载/检出项目



## 2.6 Github Issues

**作用:** 发现代码 BUG，但是目前没有成型代码，需要讨论时用；或者使用开源项目出现问题时使用

**情景:** 张三发现李四开源 git 库，则提交了一个 issue；李四隔天登录在 github 主页看到通知并和张三交流，最后关闭 issue



The screenshot shows the GitHub interface for the repository `itcastphpgit2 / test`. The top navigation bar includes links for Code, Issues (1), Pull requests (0), Wiki, Pulse, and Graphs. The main content area displays the 'Issues' tab with a search bar and a list of issues. A red box highlights the issue titled '发现一个xxx bug' (Found a xxx bug) created by `itcastphpgit1` 21 seconds ago. The issue description is '发现一个xxx bug' (Found a xxx bug). A red arrow points to the 'Close issue' button at the bottom of the issue page, with the text '再关闭该issue' (Close this issue again). Another red arrow points to the 'Comment' button, with the text '先回复谢谢' (Reply first, thank you).

发现一个xxx bug

git1 改 git2 提叫一个 issue

git2 在 github主页

21 seconds ago  
itcastphpgit1 opened issue itcastphpgit2/test#1  
发现一个xxx bug

ProTip! Edit your feed by updating the users you follow and repositories you watch.

Subscribe to your news feed

Learn Git and GitHub without any code!

Using the Hello World guide, you'll create a repository, start a branch, write comments, and open a pull request.

Read the guide Start a project

Issues 1 Pull requests 0 Wiki Pulse Graphs Settings

发现一个xxx bug #1

Open itcastphpgit1 opened this issue 2 minutes ago · 1 comment

itcastphpgit1 commented 2 minutes ago  
具体bug描述

itcastphpgit2 commented just now  
Thanks

Owner + @

Labels  
None yet

Milestone  
No milestone

Assignees  
No one—assign yourself

2 participants

Notifications  
Unsubscribe

You're receiving notifications because you commented.

Lock conversation

Write Preview

Leave a comment

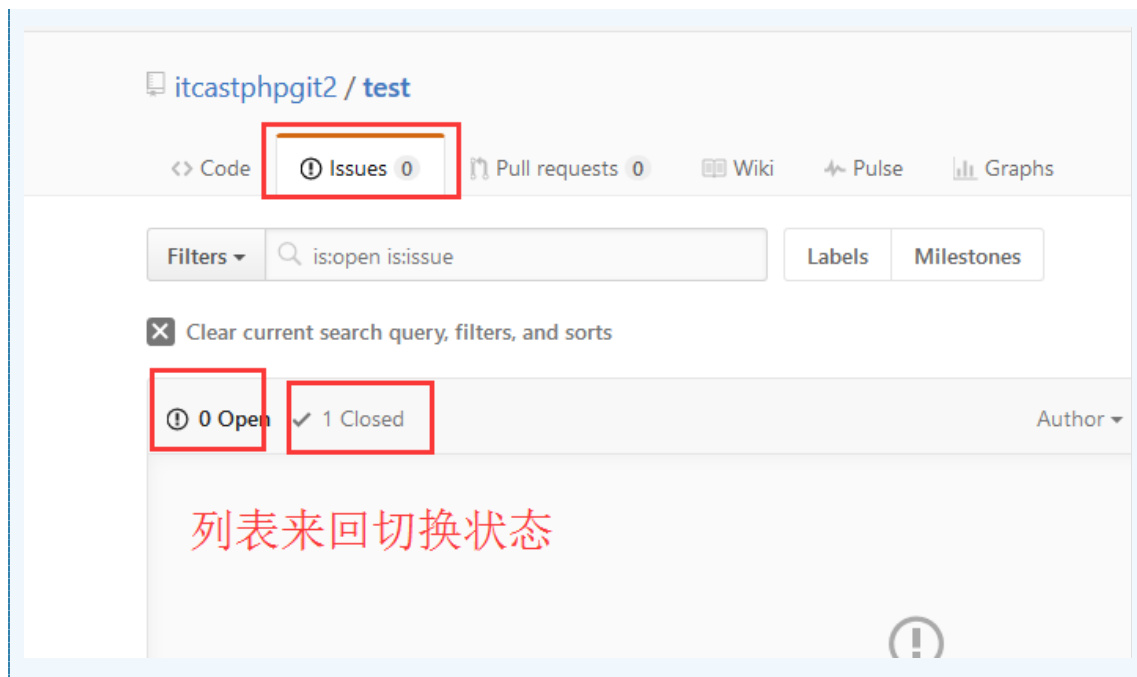
Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Styling with Markdown is supported

Close issue Comment

再关闭该issue

先回复谢谢

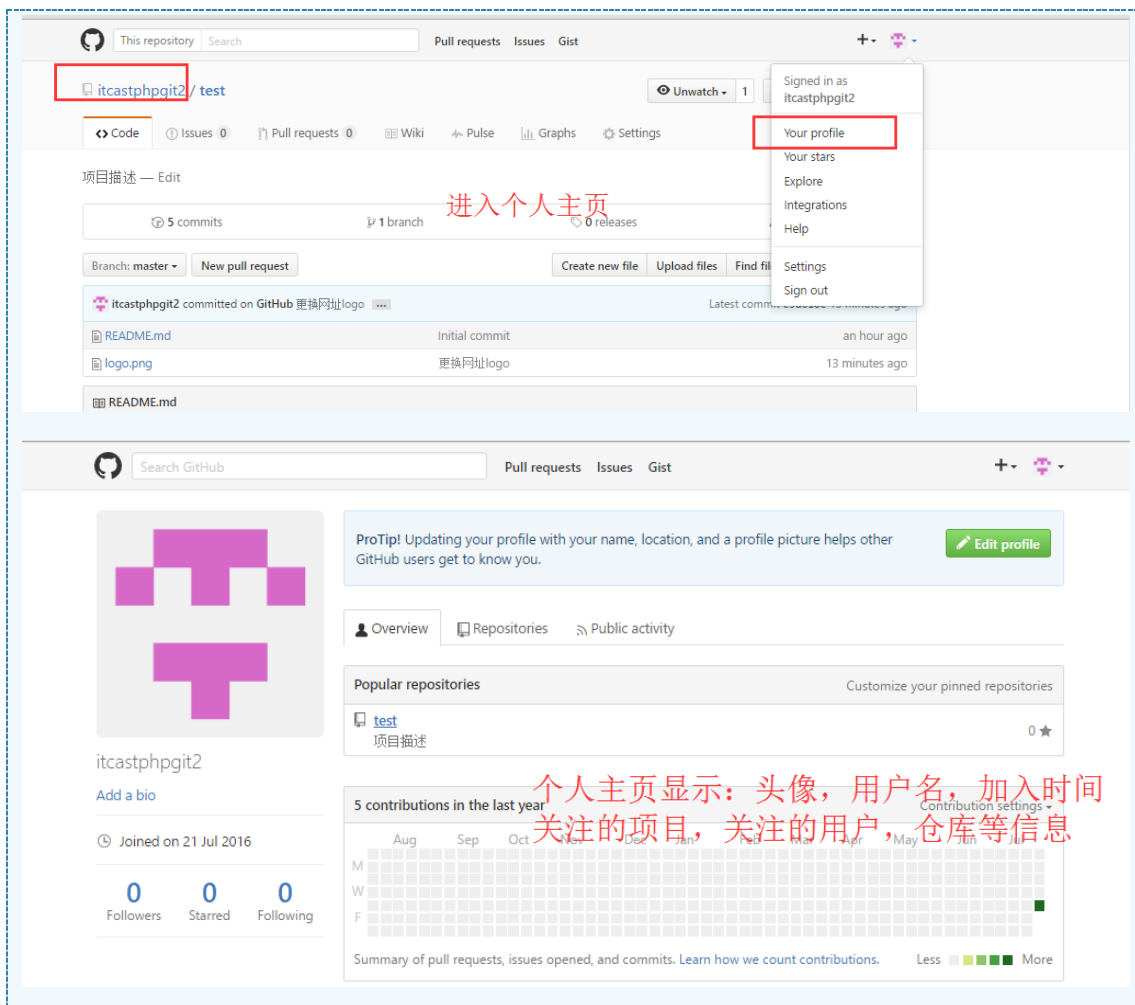


## 2.6 基本概念（实战操作）

### Github 主页



## 个人主页

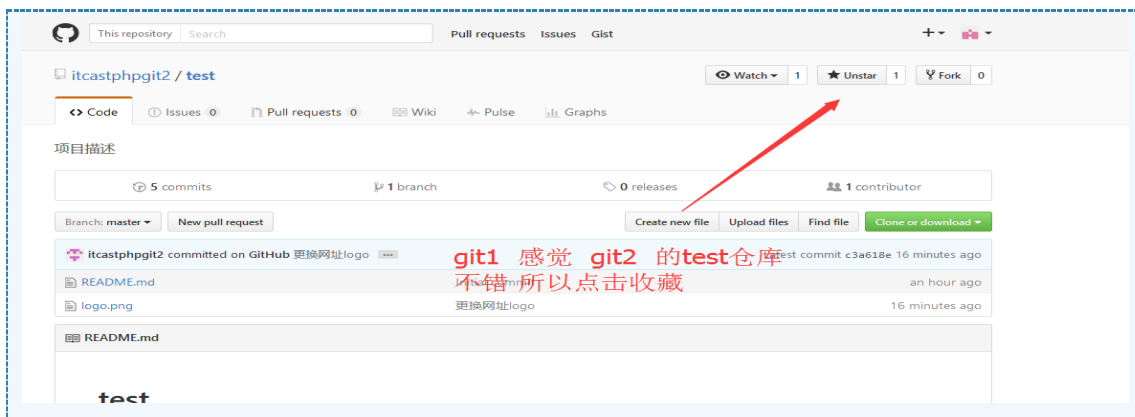


## 收藏 (Star)

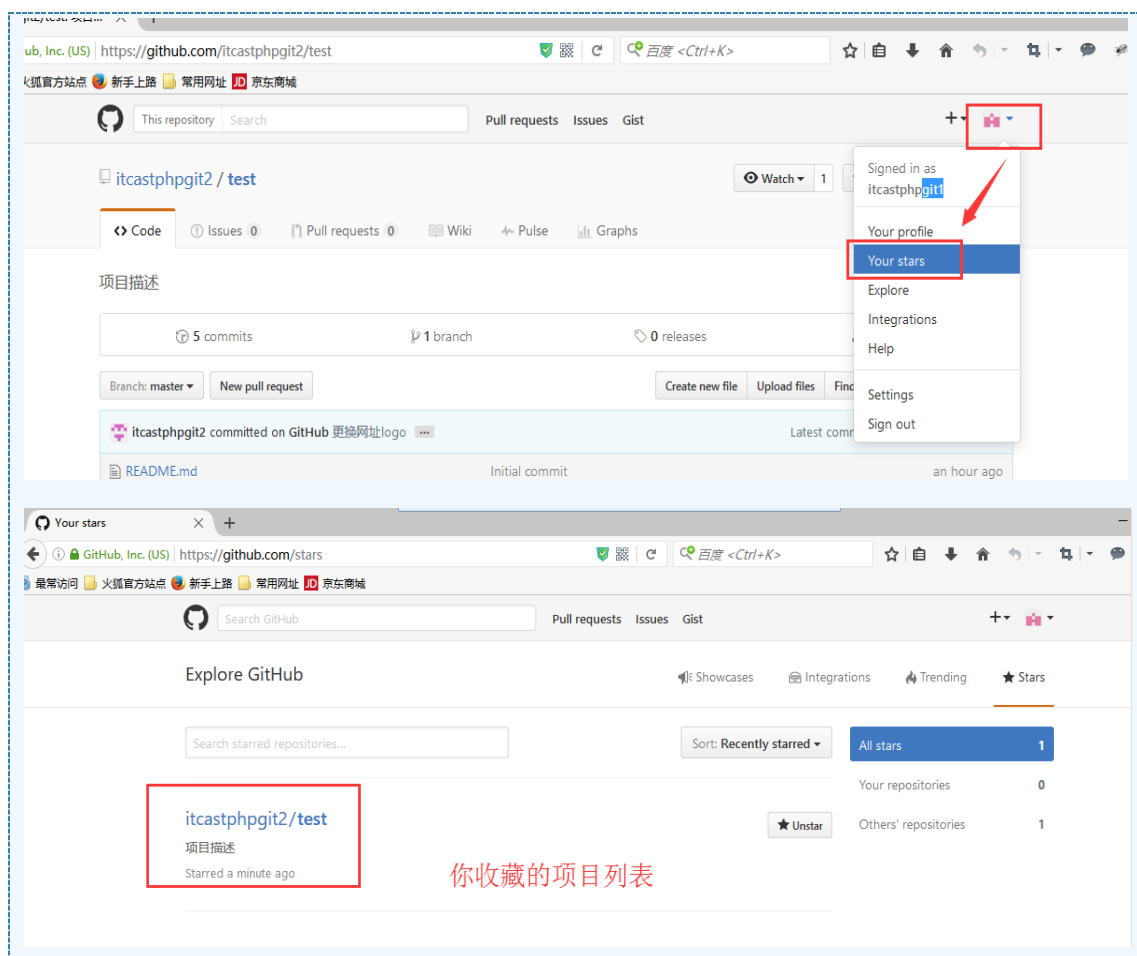
### 【如何收藏】

**操作:** 打开对应项目主页, 点击右上角 star 按钮即可收藏

**情景:** 张三无意访问到李四的开源项目感觉不错并进行收藏

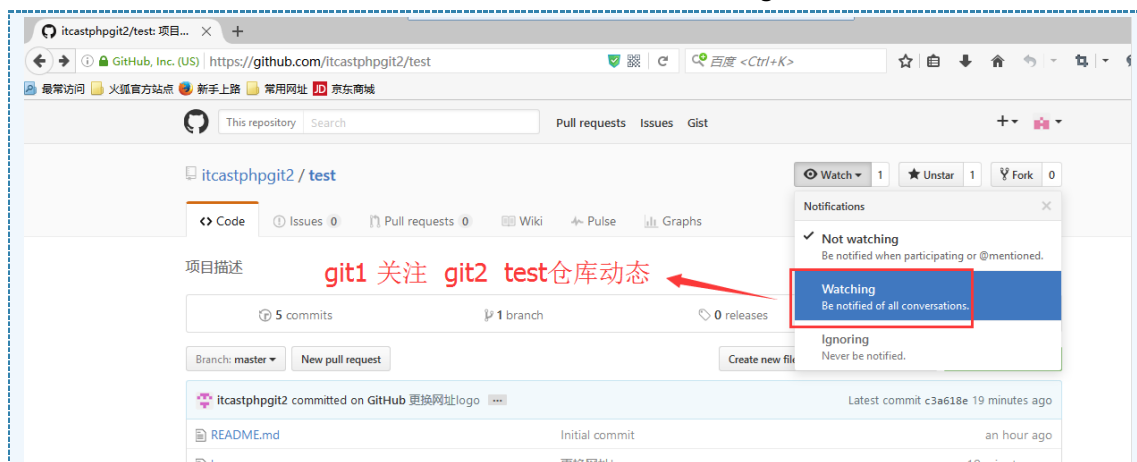


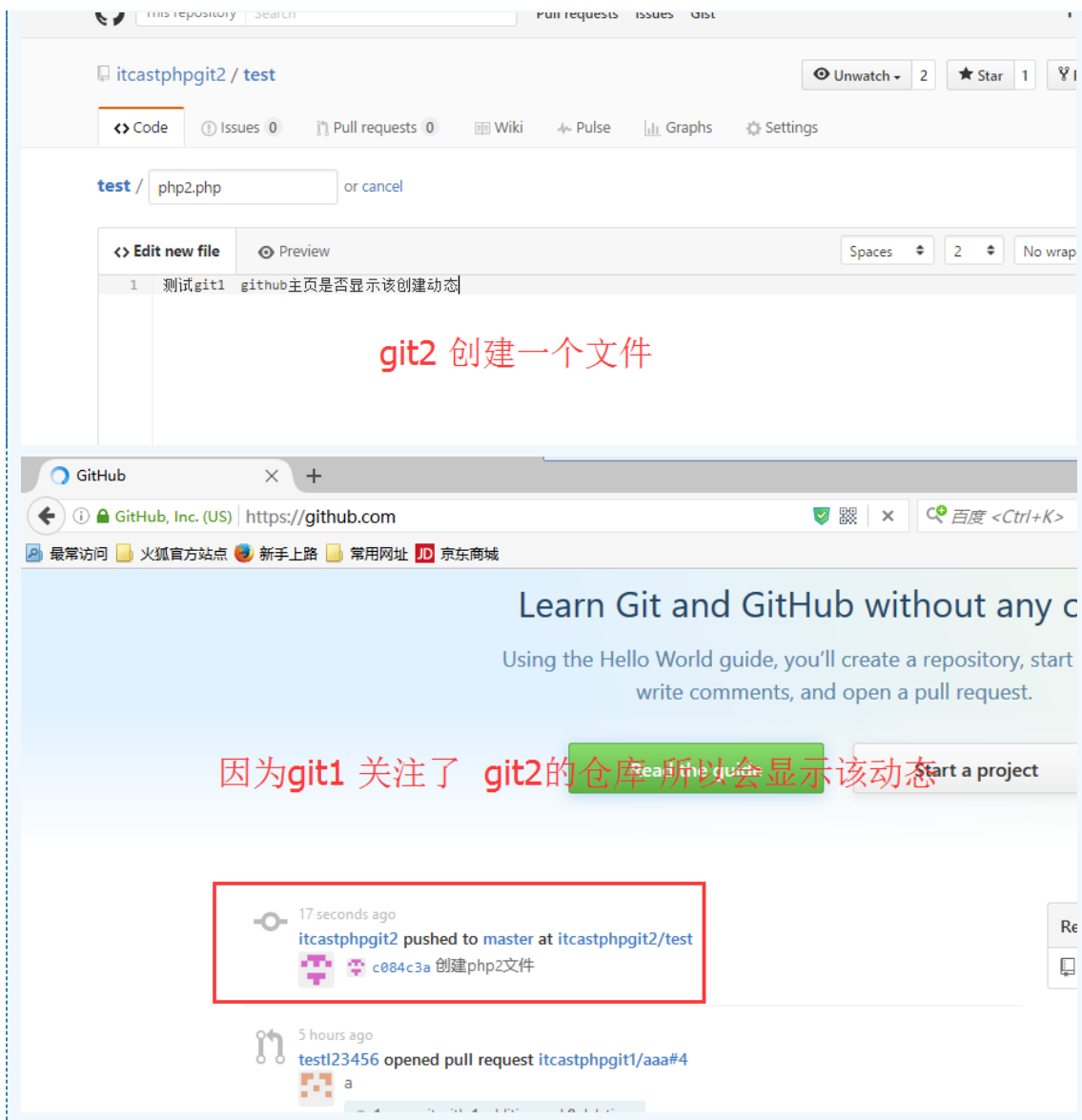
## 【如何查看自己得收藏】



## 关注（Watch）

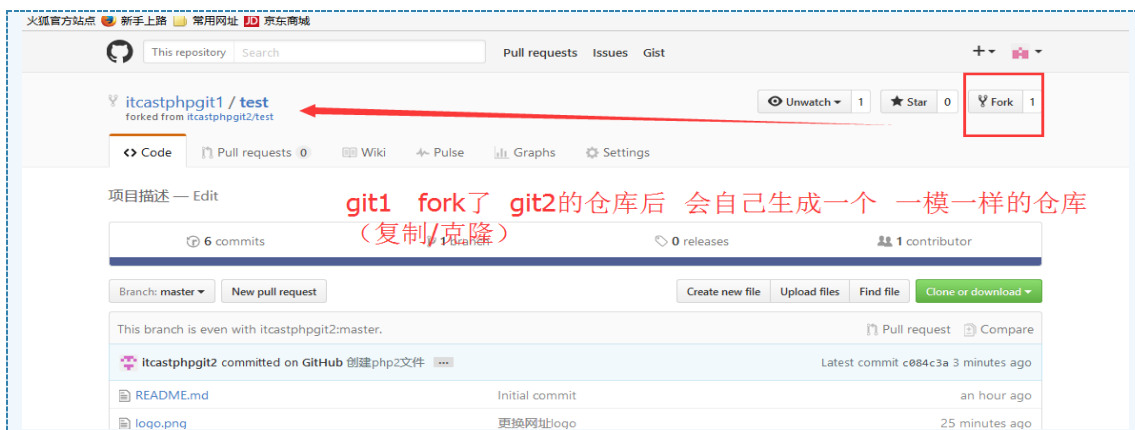
情景：张三关注了李四的项目，李四添加项目文件，张三的 github 主页会有怎样的展示？





## 复制克隆项目（Fork）

情景：张三 fork 了李四的项目，相当于张三复制了李四的项目，所以自己也单独有了一个一样名称的仓库（注：该仓库会声明来自于李四，但是独立存在）





{ 验证：fork 后的仓库是否单独存在

The image shows two screenshots of GitHub repository pages. The top screenshot is for the repository 'itcastphpgit1 / test', which is a fork of 'itcastphpgit2/test'. It shows 7 commits and 1 branch. A red box highlights the repository name, and a red arrow points to the file 'test3.php' in the commit history. The bottom screenshot is for the repository 'itcastphpgit2 / test', which is the original repository. It shows 6 commits and 1 branch. A red box highlights the repository name. A red text overlay on the bottom screenshot reads: '没有test3.php 文件，则验证fork后 仓库是独立存在的' (If the test3.php file is not present, then the forked repository is verified to exist independently).

itcastphpgit1 / test  
forked from itcastphpgit2/test

Code Pull requests 0 Wiki Pulse Graphs Settings

项目描述 — Edit

7 commits 1 branch 0 releases

Branch: master New pull request Create new branch

This branch is 1 commit ahead of itcastphpgit2:master.

itcastphpgit1 committed on GitHub 创建test3文件 ...

- README.md Initial commit
- logo.png 更换网址logo
- php2.php 创建php2文件
- test3.php 创建test3文件

README.md

itcastphpgit2/test: 项目 X

GitHub, Inc. [US] https://github.com/itcastphpgit2/test/

应用 Index of / 度 tools PHP 未来 company 架构师 linux freestyle php扩展

This repository Search Pull requests Issues GitHub

itcastphpgit2 / test

Code Issues 0 Pull requests 0 Wiki Pulse Graphs

项目描述 — Edit

6 commits 1 branch

Branch: master New pull request Create new branch

itcastphpgit2 committed on GitHub 创建php2文件 ...

- README.md Initial commit
- logo.png 更换网址logo
- php2.php 创建php2文件

README.md

没有test3.php 文件，则验证fork后 仓库是独立存在的

# 发起请求（Pull Request）

情景：张三修改了 fork 的项目中的文件，希望更新到原来的仓库，这时候他要新建一个 pull request

## 1) Git1 发起一个更新请求

itcastphpgit1 / test

forked from itcastphpgit2/test

Unwatch 1

Star 0

Fork 1

Code

Pull requests 0

Wiki

Pulse

Graphs

Settings

项目描述 — Edit

7 commits

1 branch

0 releases

1 contributor

Branch: master

New pull request

发起请求

Create new file

Upload files

Find file

Clone or download

This branch is 1 commit ahead of itcastphpgit2:master.

itcastphpgit1 committed on GitHub 创建test3文件

Latest commit b0581a9 a minute ago

README.md

Initial commit

an hour ago

logo.png

更换网址logo

29 minutes ago

php2.php

创建php2文件

8 minutes ago

test3.php

创建test3文件

a minute ago

README.md

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base fork: itcastphpgit2/test

base: master

head fork: itcastphpgit1/test

compare: master

✓ Able to merge.

These branches can be automatically merged.

Create pull request

创建一个 pull request

Discuss and review the changes in this comparison with others.

1 commit

1 file changed

0 commit comments

1 contributor

Commits on Jul 21, 2016

itcastphpgit1 创建test3文件

详细修改信息

b0581a9

Showing 1 changed file with 1 addition and 0 deletions.

Unified

Split

1

test3.php

@@ -0,0 +1 @@

1

+测试git1创建文件

git2

对应仓库是否有该文件

View

The image shows two screenshots of the GitHub website. The top screenshot is the 'Open a pull request' page for the repository 'itcastphpgit2/test'. It shows the 'base fork: itcastphpgit2/test', 'base: master', and 'head fork: itcastphpgit1/test' with 'compare: master'. A green message states 'Able to merge. These branches can be automatically merged.' Below this is a form titled '新增功能完善原项目' (New feature improves original project) with a 'Write' tab selected. The form contains the text '测试git1创建文件 git2 对应仓库是否有该文件' and a 'Create pull request' button. A red arrow points from the title to the button. The bottom screenshot is the GitHub homepage, showing the 'Learn Git and GitHub without any code!' banner with a 'Read the guide' button. Below the banner, a red box highlights a notification: 'itcastphpgit1 opened pull request itcastphpgit2/test#2 新增功能完善原项目' with '1 commit with 1 addition and 0 deletions'. The notification also shows 'itcastphpgit1 forked itcastphpgit2/test to itcastphpgit1/test 8 minutes ago' and 'itcastphpgit1 starred itcastphpgit2/test 17 minutes ago'.

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base fork: itcastphpgit2/test base: master head fork: itcastphpgit1/test compare: master

✓ Able to merge. These branches can be automatically merged.

新增功能完善原项目

Write Preview AA B i

测试git1创建文件 git2 对应仓库是否有该文件

Attach files by dragging & dropping or [selecting them](#).

Styling with Markdown is supported

Create pull request

GitHub

Learn Git and GitHub without any code!

Using the Hello World guide, you'll create a repository, start a branch, write comments, and open a pull request.

git2 在github主页 查看

Read the guide Start a project

38 seconds ago

itcastphpgit1 opened pull request itcastphpgit2/test#2

新增功能完善原项目

1 commit with 1 addition and 0 deletions

itcastphpgit1 forked itcastphpgit2/test to itcastphpgit1/test 8 minutes ago

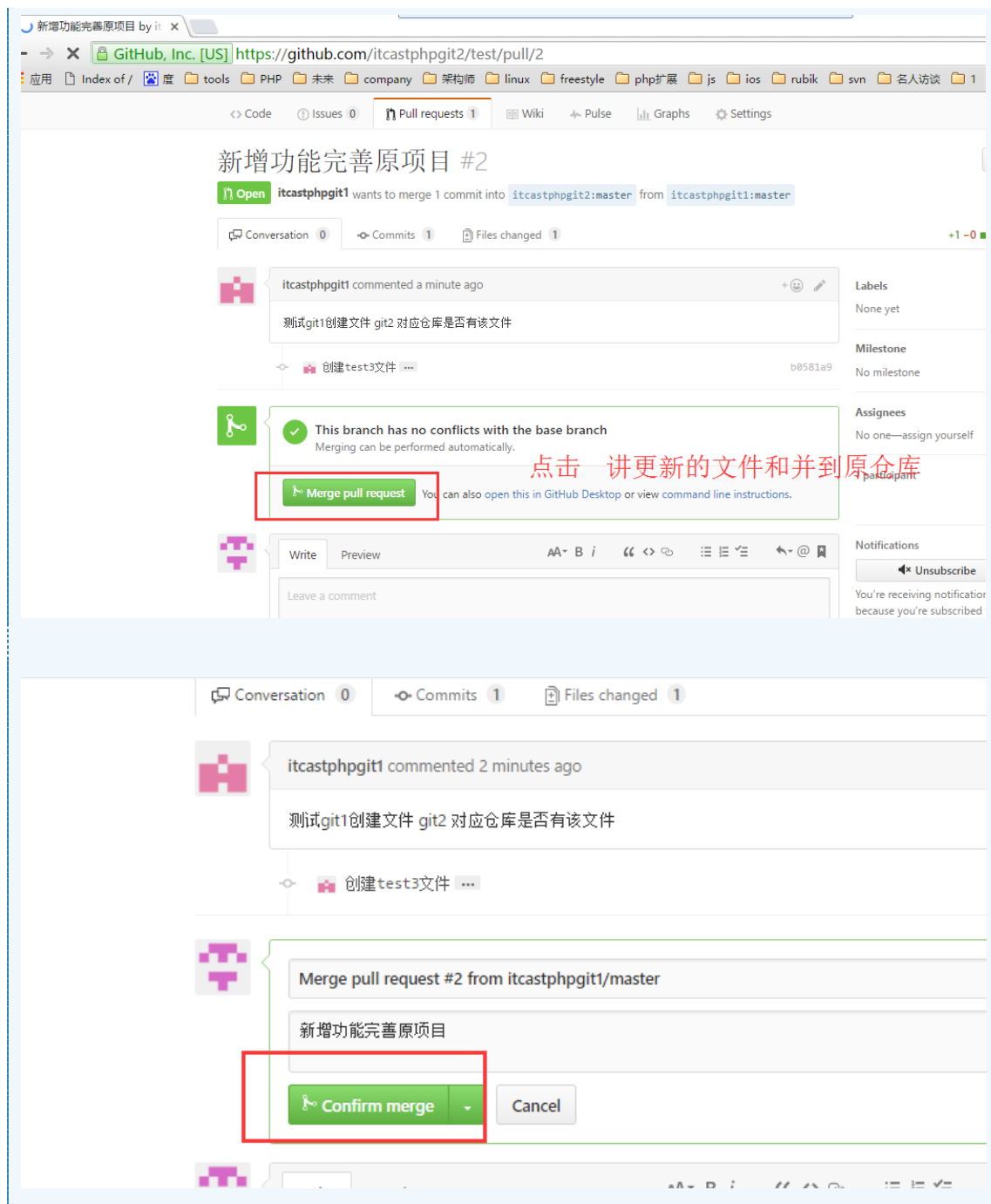
itcastphpgit1 starred itcastphpgit2/test 17 minutes ago

Your repository

Find a repository

All Public

test



## 2.7 开源项目贡献流程

### 1) 新建 Issue

提交使用问题或者建议或者想法

### 2) Pull Request

步骤:

- 1、fork 项目
- 2、修改自己仓库的项目代码
- 3、新建 pull request
- 4、等待作者操作审核

## 3. Git 安装和使用

### 目的

通过 git 管理 github 托管项目代码

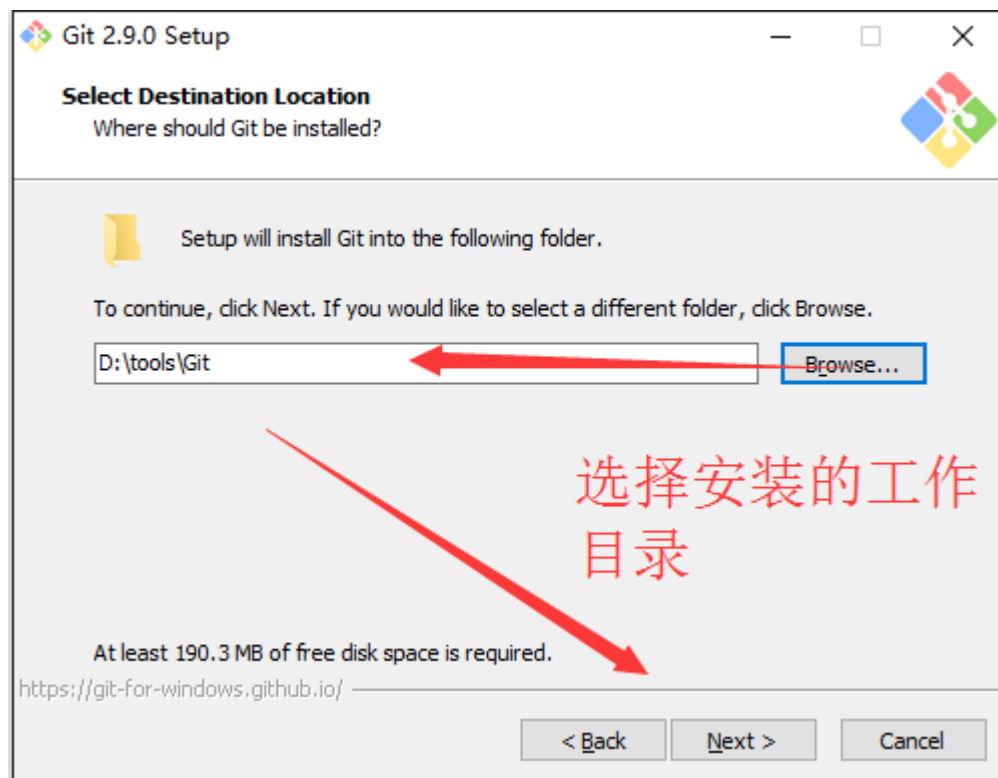
## 下载安装

1) Git 官网下载: <https://www.git-scm.com/download/win>

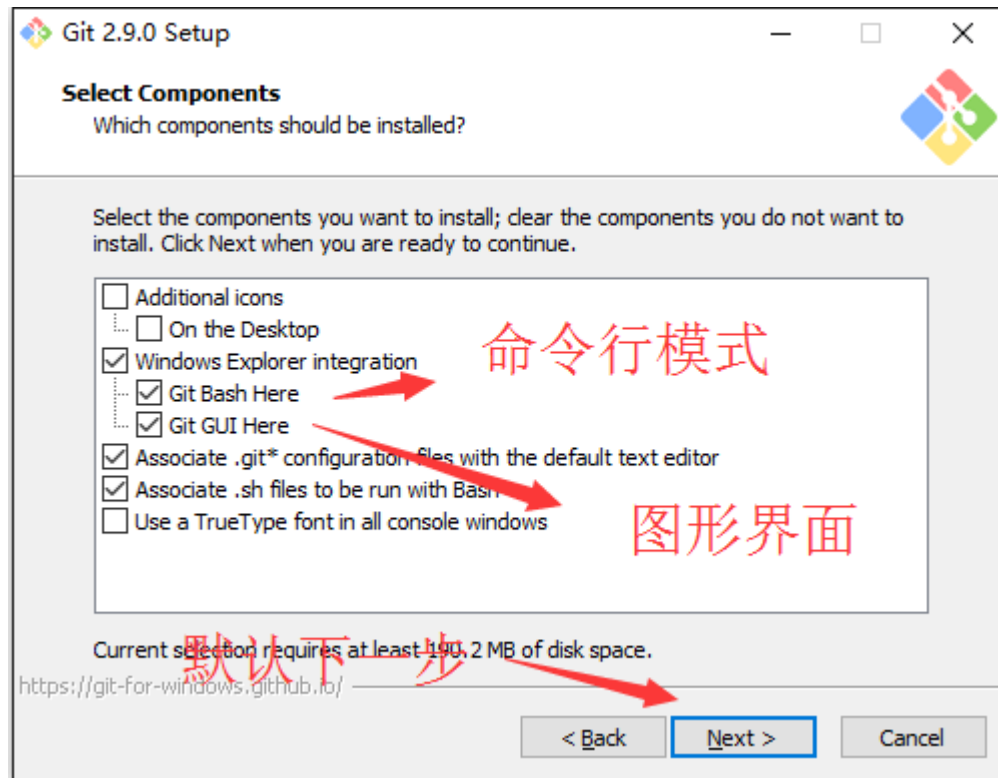
2) 双击安装



### 3) 选择安装的工作目录

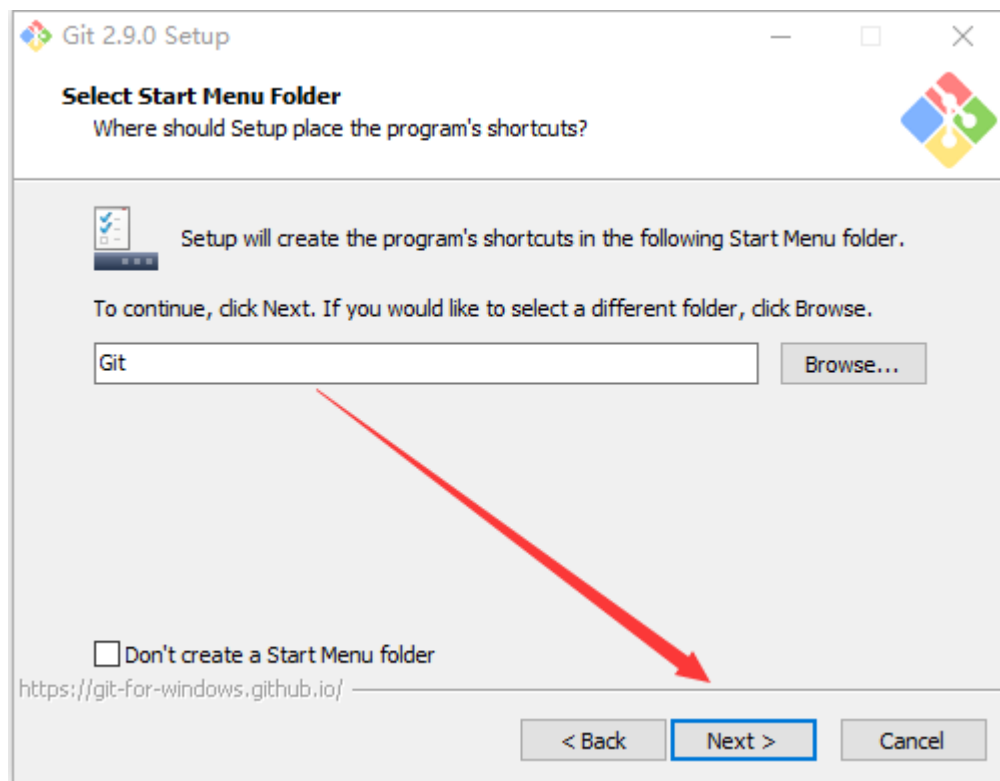


## 4) 选择组件

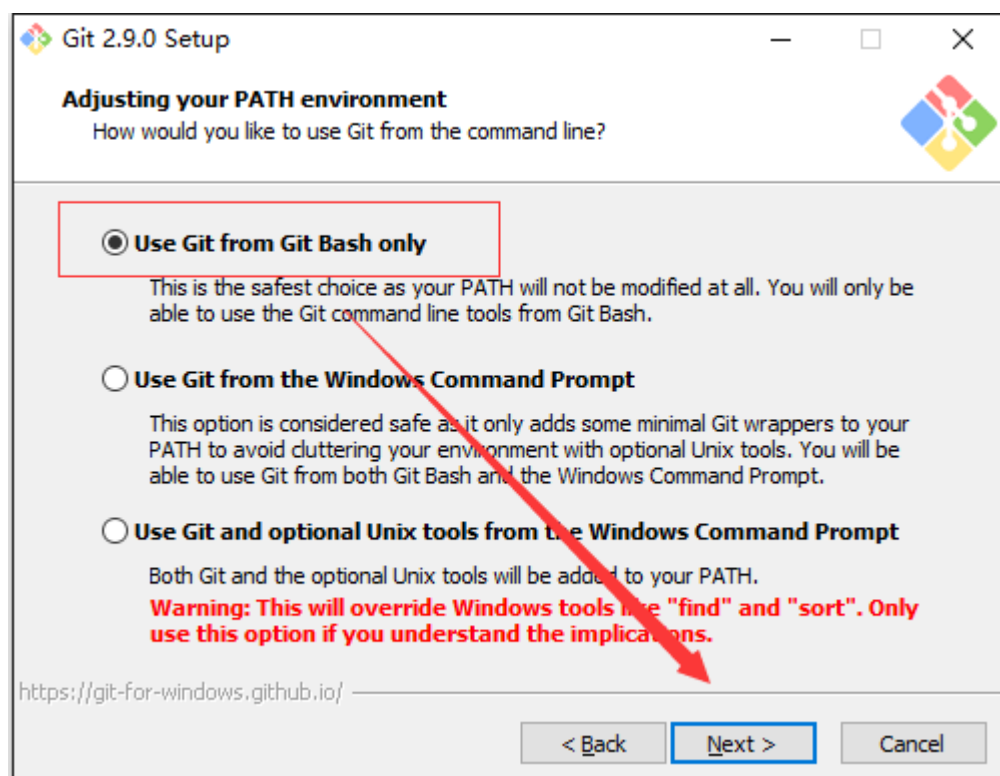




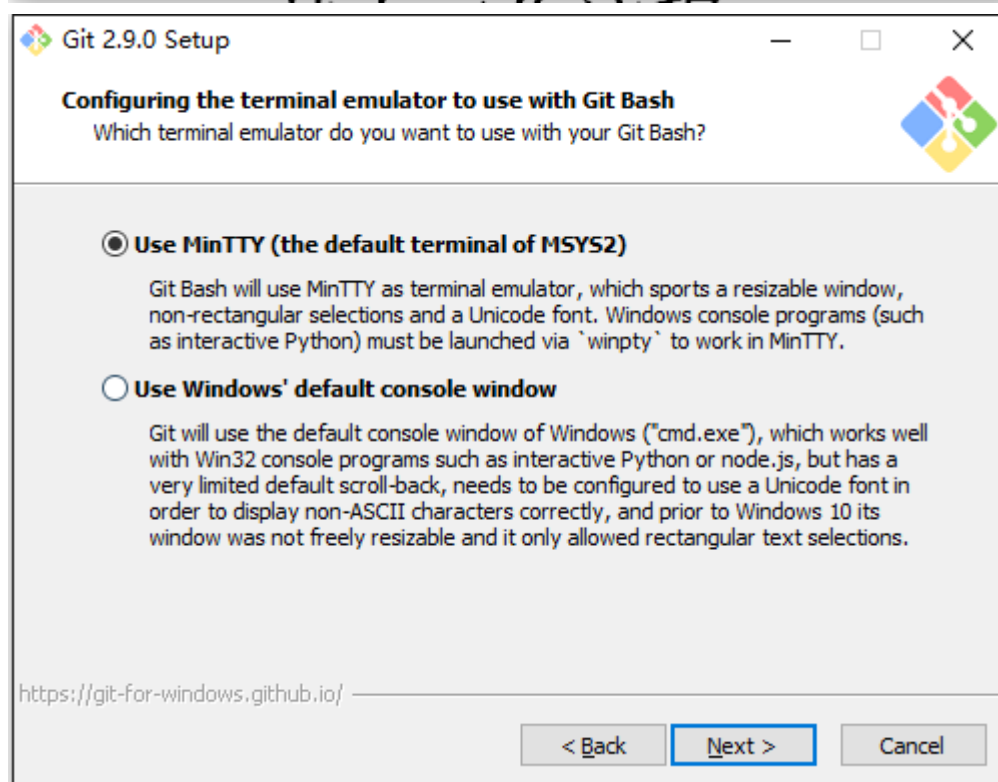
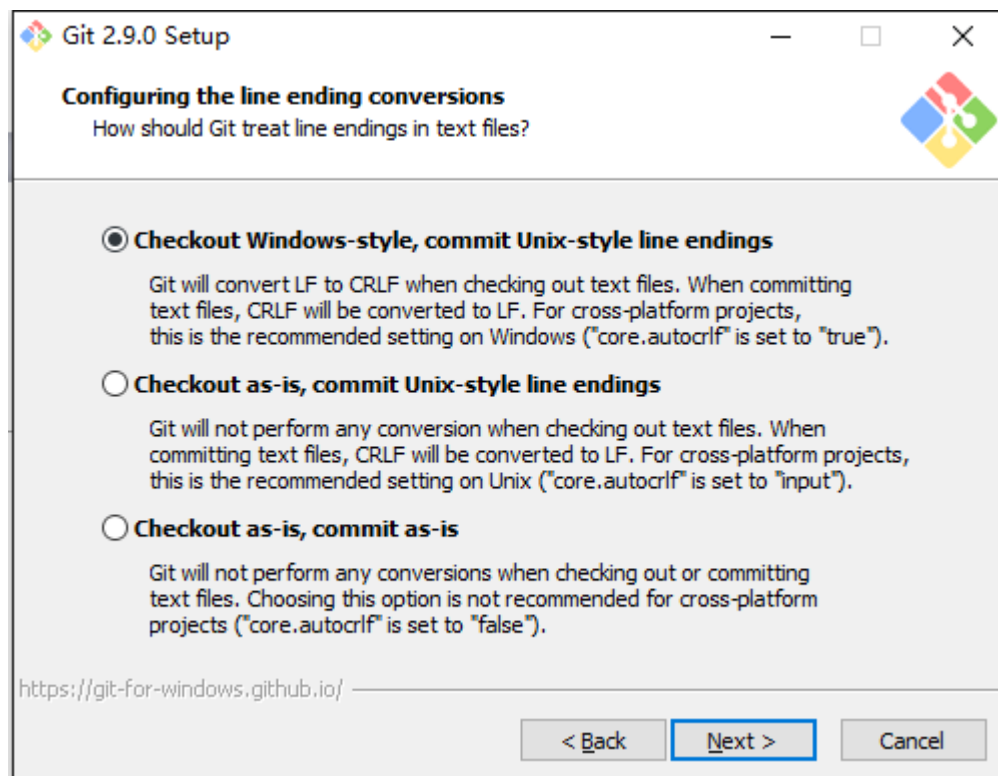
## 5) 开始菜单目录名设置

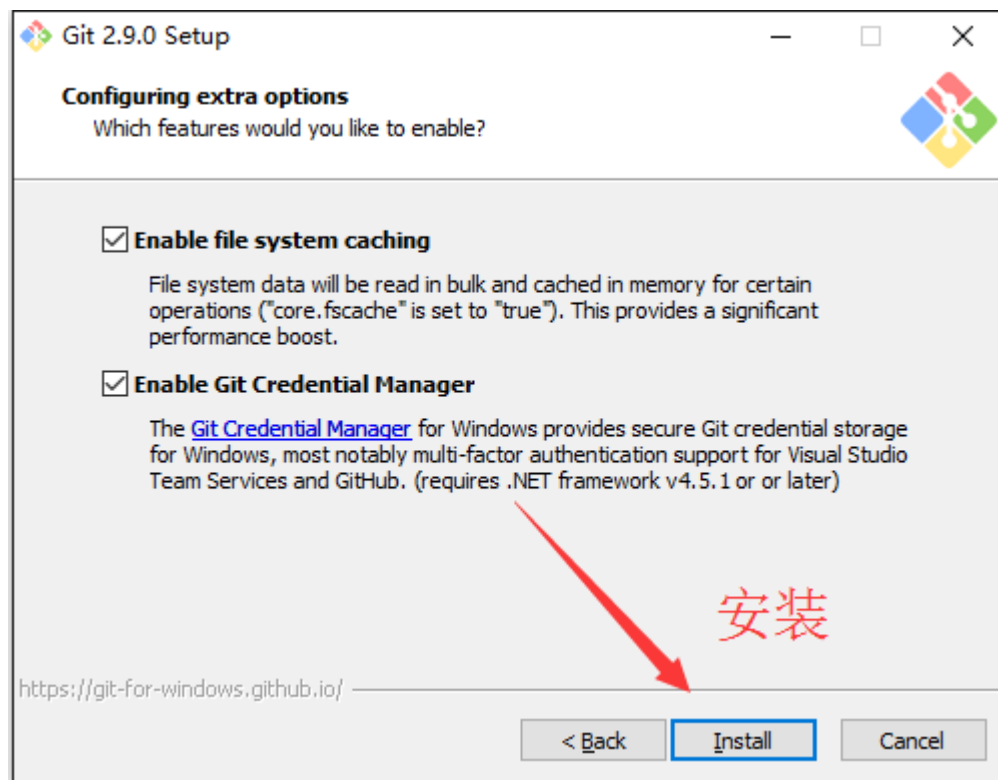


## 6) 选择使用命令行环境

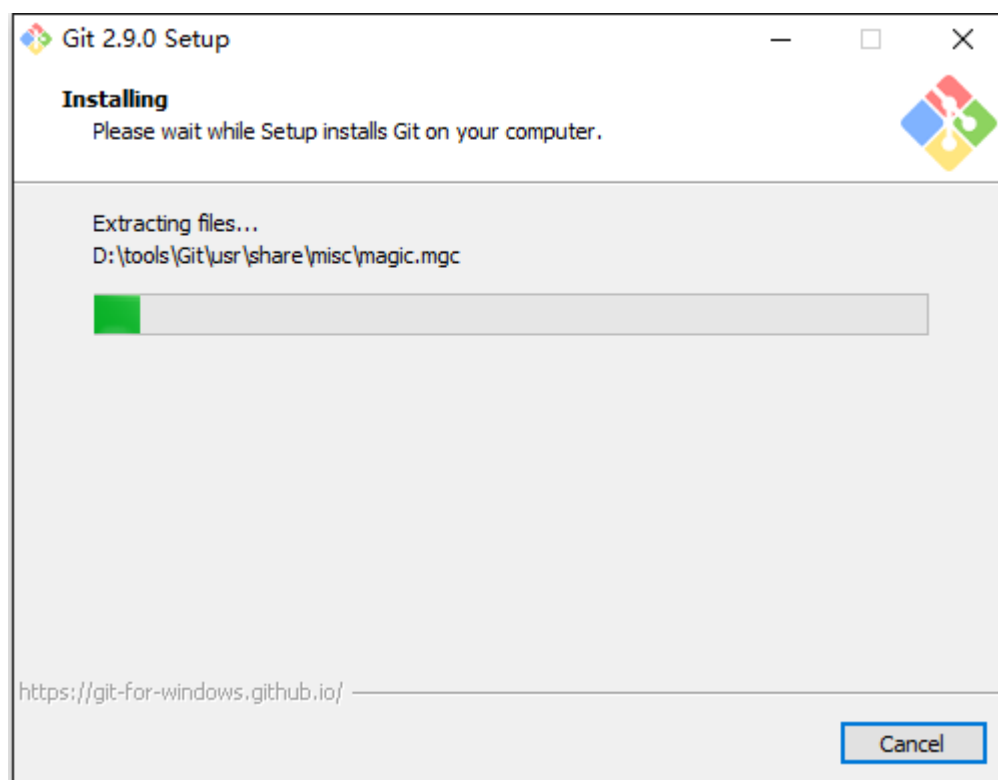


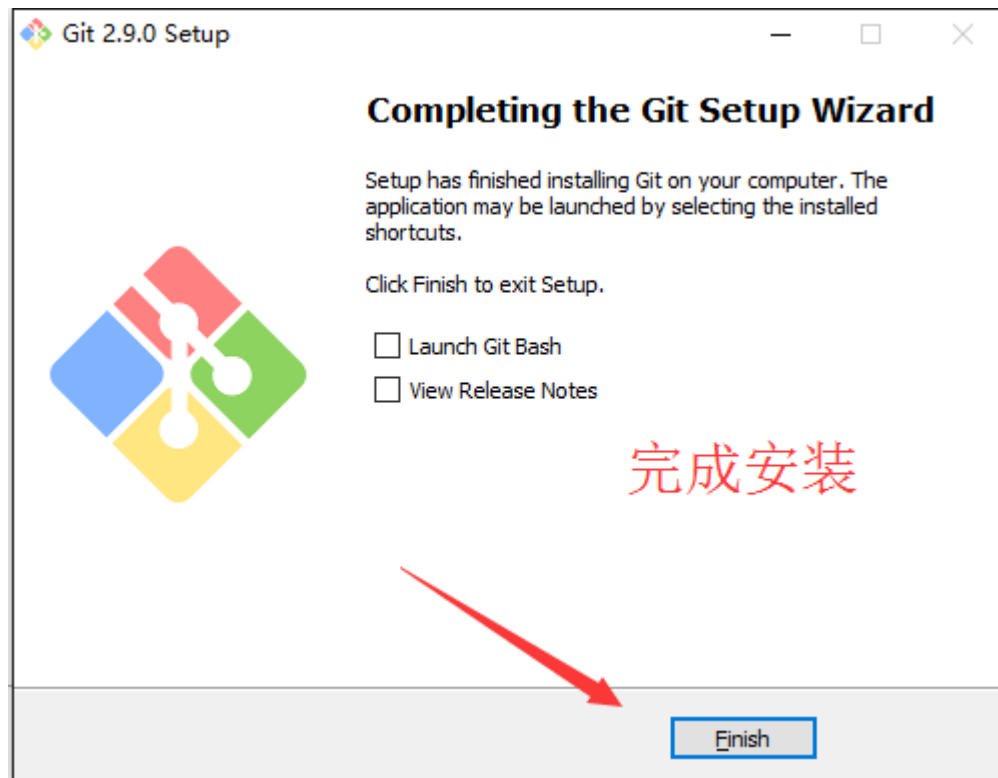
## 7) 以下三步默认，直接点击 next





## 8) 等待安装





## 9) 检验是否安装成功



## 4. Git 基本工作流程

### Git 工作区域



### 向仓库中添加文件流程



## 5. Git 初始化及仓库创建和操作

### 基本信息设置

#### 1. 设置用户名

```
git config --global user.name 'itcastphpgit1'
```

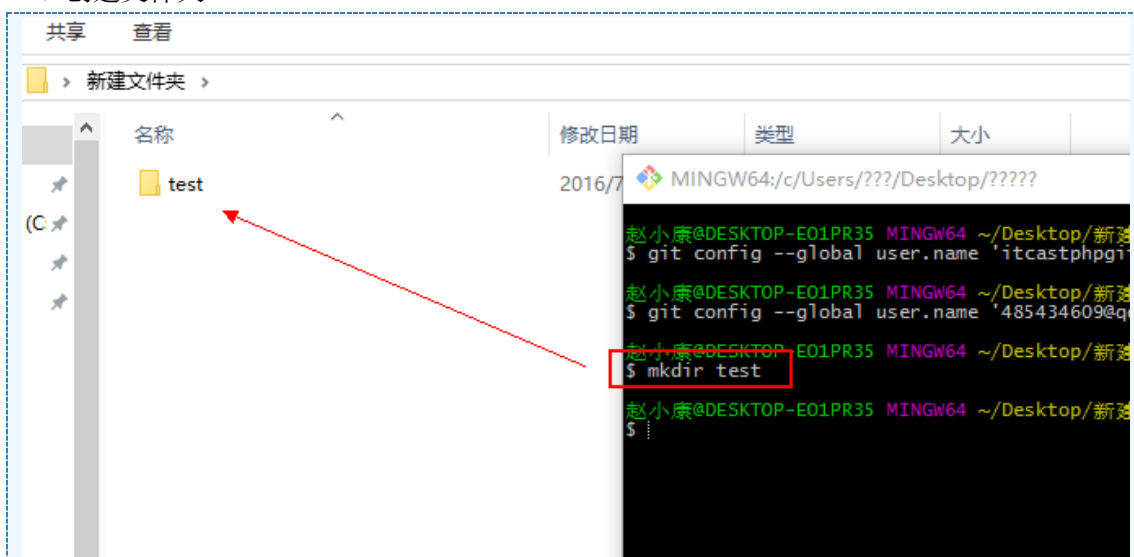
#### 2. 设置用户名邮箱

```
git config --global user.email '485434609@qq.com'
```

脚下留心：该设置在 github 仓库主页显示谁提交了该文件

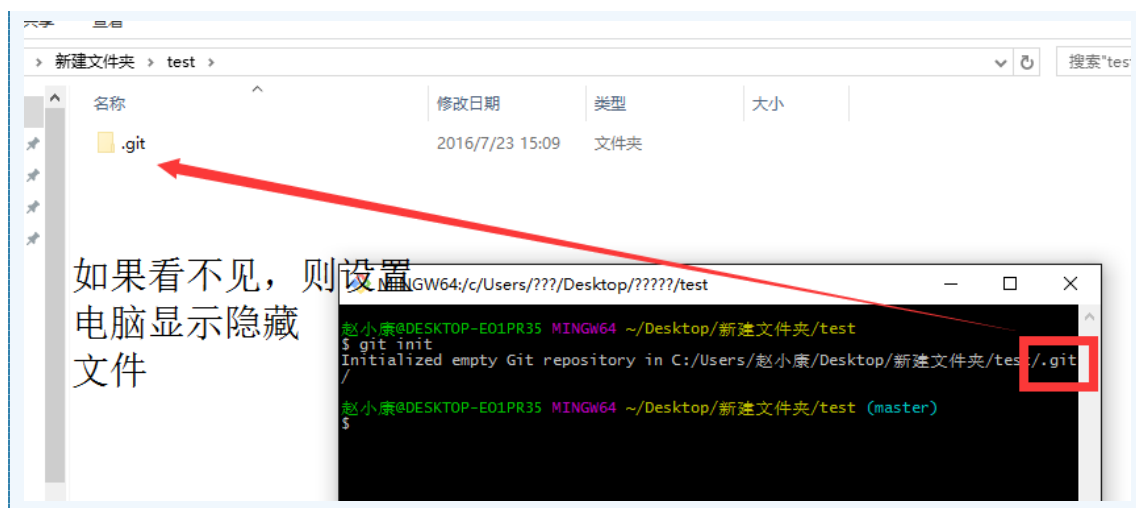
### 初始化一个新的 Git 仓库

#### 1、创建文件夹

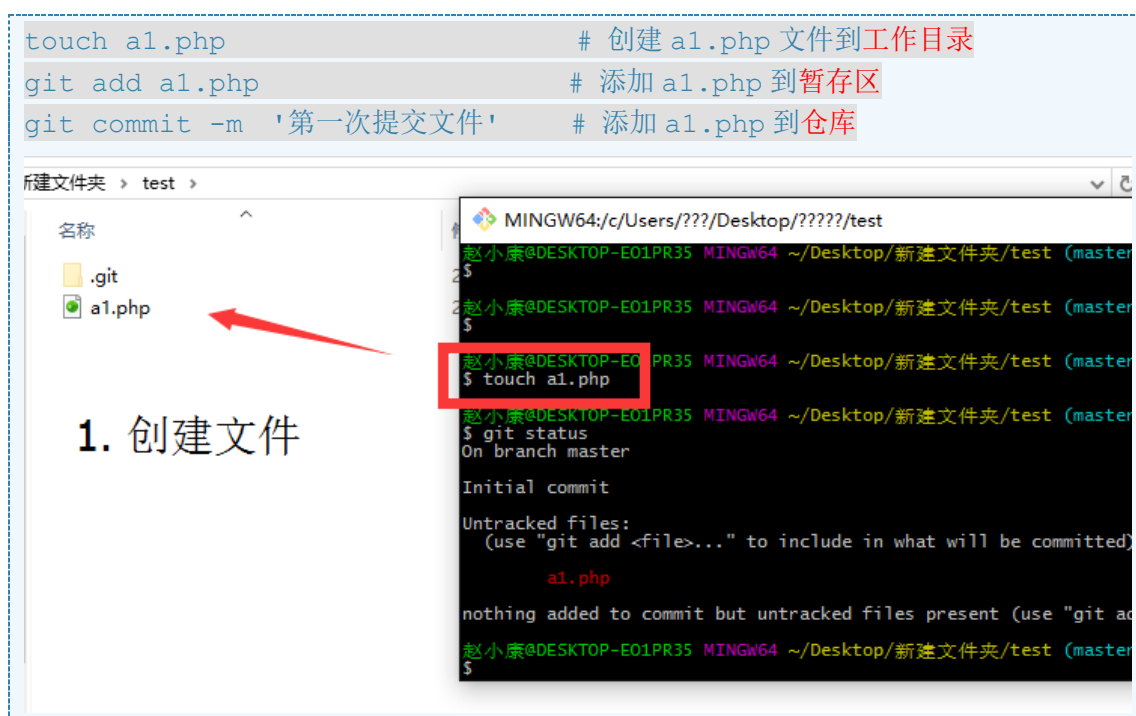


#### 2、在文件内初始化 git（创建 git 仓库）

```
cd test  
git init
```



## 向仓库添加文件





## 2. 添加到暂存区

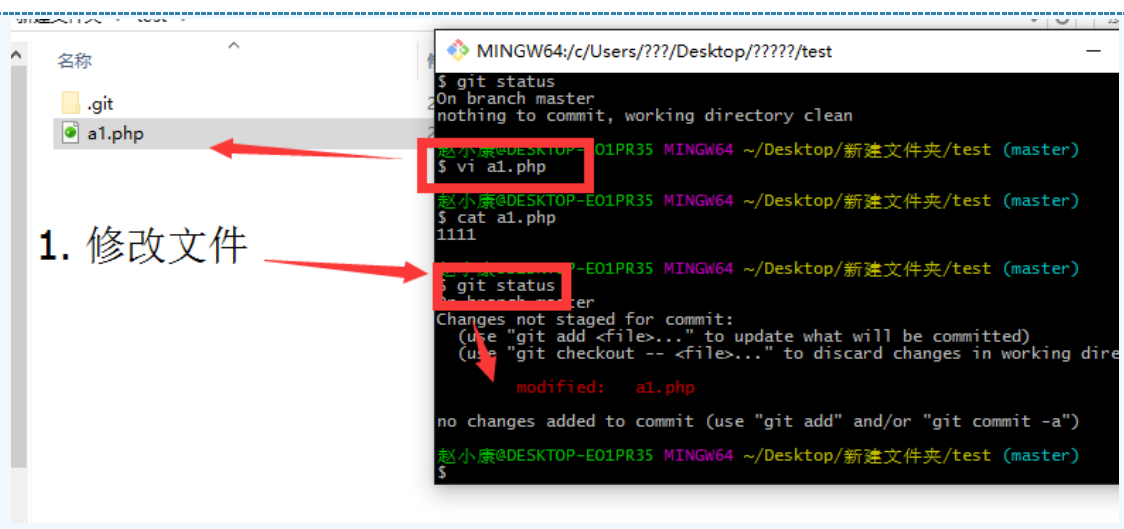
```
a1.php
nothing added to commit but untracked files present (use "git add" to track)
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git add a1.php
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git status
On branch master
Initial commit
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   a1.php
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$
```

## 3. 将文件从暂存区提交到仓库

```
On branch master
Initial commit
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   a1.php
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git commit -m 'add a1.php'
[master (root-commit) 099ef24] add a1.php
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 a1.php
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git status
On branch master
nothing to commit, working directory clean
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$
```

## 修改仓库文件

### 1. 修改文件



```
MINGW64/c/Users/???/Desktop/????/test
$ git status
On branch master
nothing to commit, working directory clean
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ vi a1.php
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ cat a1.php
1111
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
    modified:   a1.php
no changes added to commit (use "git add" and/or "git commit -a")
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$
```

```
$
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git add a1.php
warning: LF will be replaced by CRLF in a1.php.
The file will have its original line endings in your working directory
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git status
warning: LF will be replaced by CRLF in a1.php.
The file will have its original line endings in your working directory
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   a1.php
```

## 2. 添加到暂存区

```
(use "git reset HEAD <file>..." to unstage)

        modified:   a1.php

赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git commit -m '第一次通过git修改文件并提交到仓库'
[master eb68346] 第一次通过git修改文件并提交到仓库
warning: LF will be replaced by CRLF in a1.php.
The file will have its original line endings in your working directory
1 file changed, 1 insertion(+)
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git status
On branch master
nothing to commit, working directory clean
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$
```

## 删除仓库文件

	名称	修改日期	类型	大小
	.git			
第一步				
第二步				
第三步				

```
$ git status
On branch master
nothing to commit, working directory clean

赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ rm -rf a1.php

赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git rm a1.php
rm 'a1.php'

赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git commit -m '第一次通过git删除仓库文件'
[master eb68346] 第一次通过git删除仓库文件
1 file changed, 1 deletion(-)
delete mode 100644 a1.php

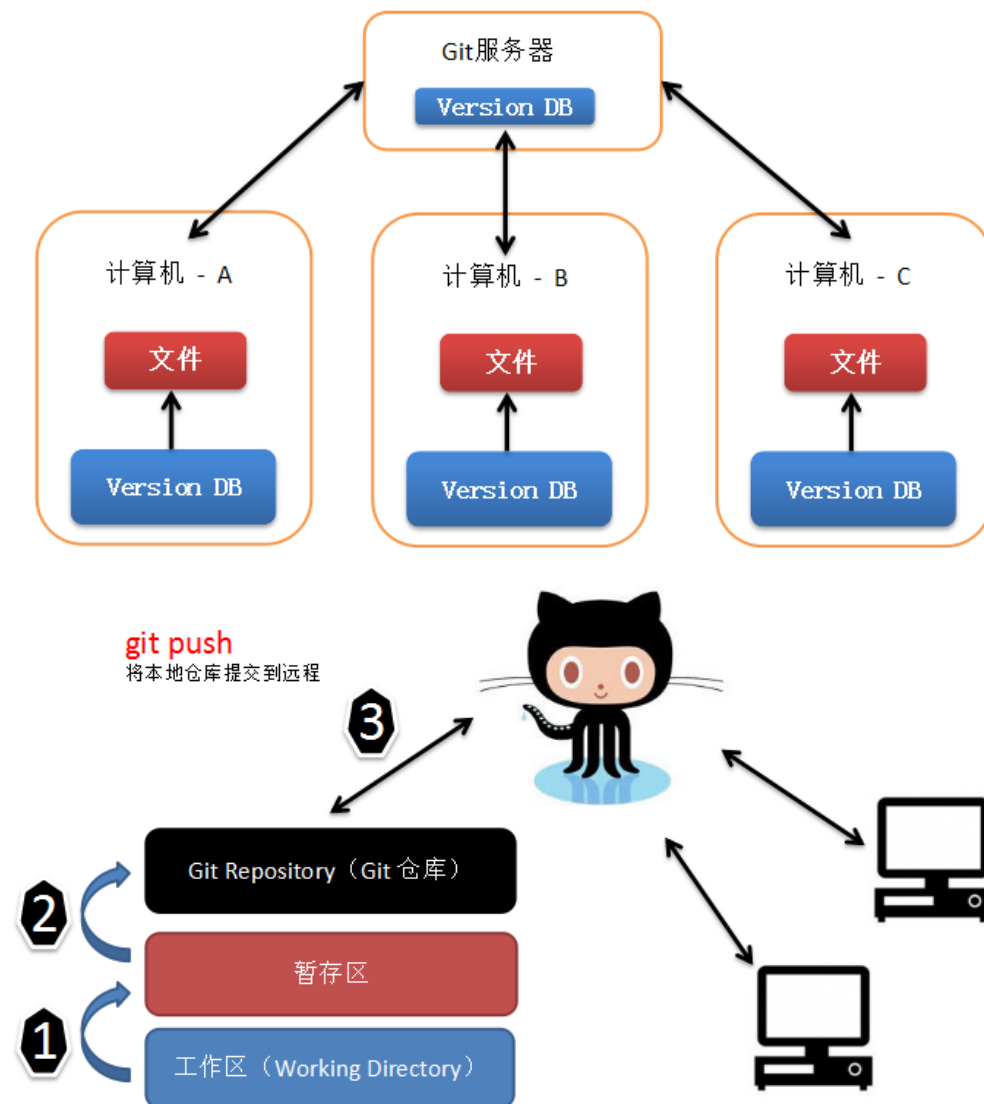
赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$ git status
On branch master
nothing to commit, working directory clean

赵小康@DESKTOP-E01PR35 MINGW64 ~/Desktop/新建文件夹/test (master)
$
```

## 6. Git 管理远程仓库

### 使用远程仓库的目的

作用：备份，实现代码共享集中化管理

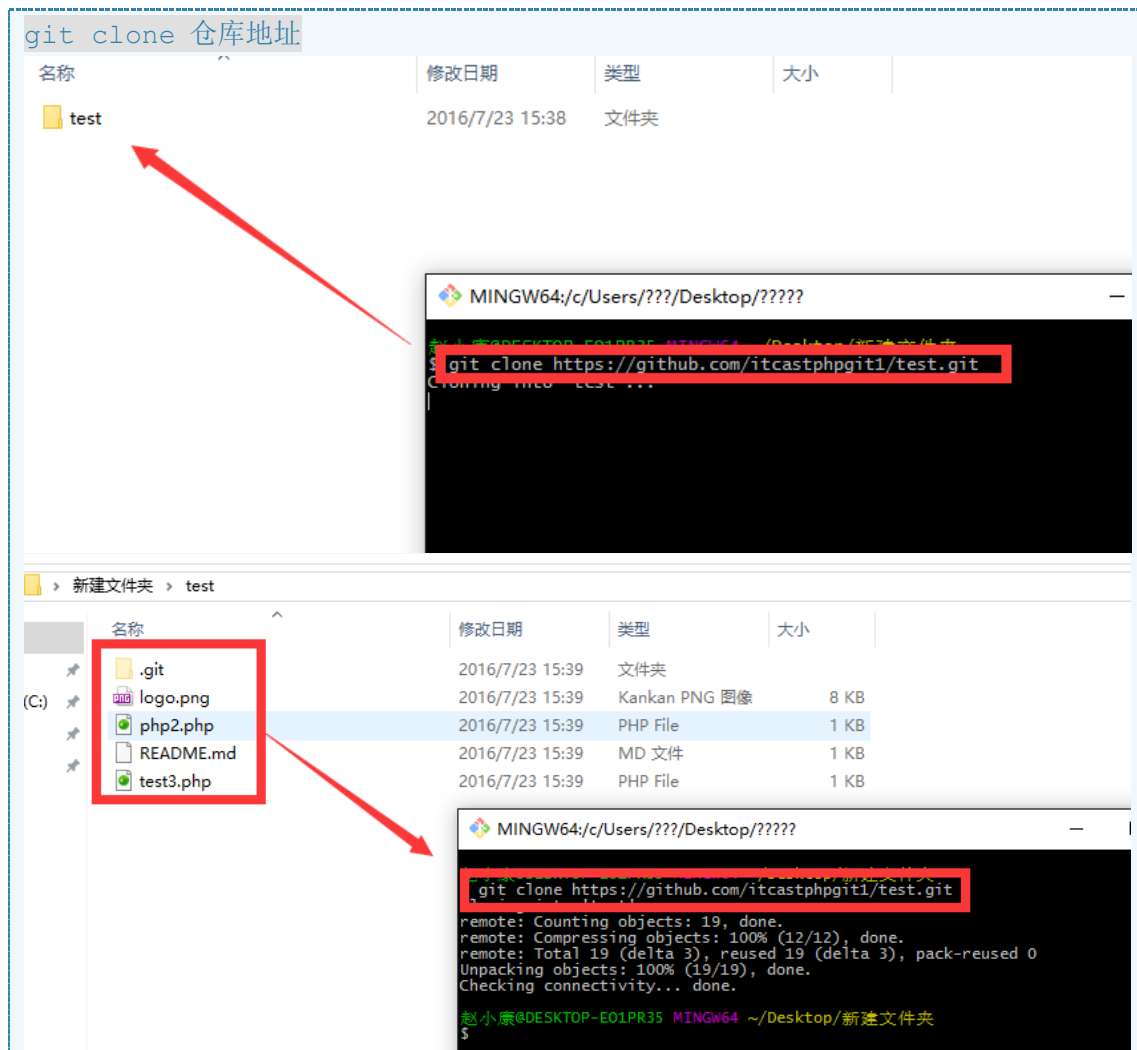


### Git 克隆操作

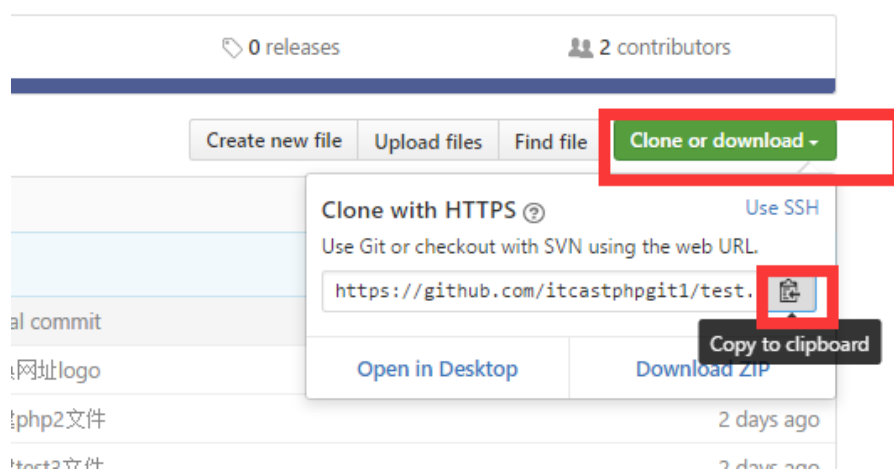
#### 目的

将远程仓库（github 对应的项目）复制到本地

## 代码



多学一招：仓库地址由来



## 将本地仓库同步到 git 远程仓库中

The screenshot shows a GitHub repository page for 'itcastphpgit1 / test' and a terminal window with the following content:

```
MINGW64/c/Users/???/Desktop/????/test
$ ls
a1.php  logo.png  php2.php  README.md  test3.php
$ touch a2.php
$ git add a2.php
$ git commit -m '第三次通过git 提交到仓库'
[master 1e3532d] 第三次通过git 提交到仓库
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 a2.php
$ git push
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 306 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
To https://github.com/itcastphpgit1/test.git
3182d0d..1e3532d master -> master
```

Annotations on the screenshot:

1. 创建文件 (Create file)
2. 添加到暂存区 (Add to staging area)
3. 添加到本地仓库 (Add to local repository)
4. 添加到远程仓库 (Add to remote repository)

{ 思考：为什么无法同步

或没有权限

The requested URL returned error: 403 Forbidden while accessing

答案：私有项目，没有权限，输入用户名密码，或者远程地址采用这种类型：

```
vi .git/config
```

```
# 将
```

```
[remote "origin"]
```

```
url = https://github.com/用户名/仓库名.git
```

```
修改为：
```

```
[remote "origin"]
```

```
url = https://用户名:密码@github.com/用户名/仓库名.git
```

## 6. Github Pages 搭建网站

### 个人站点

### 访问

<https://用户名.github.io>

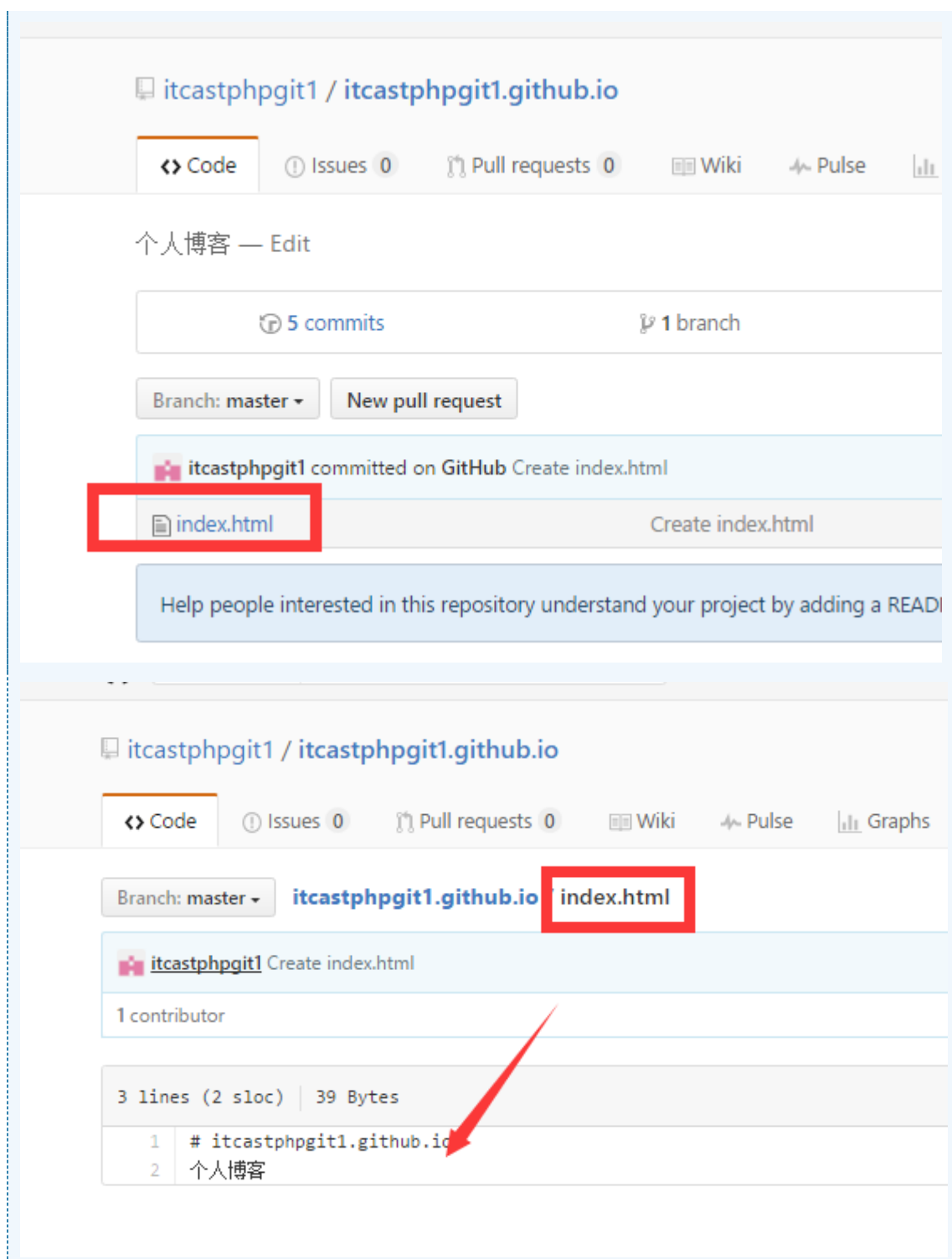
### 搭建步骤

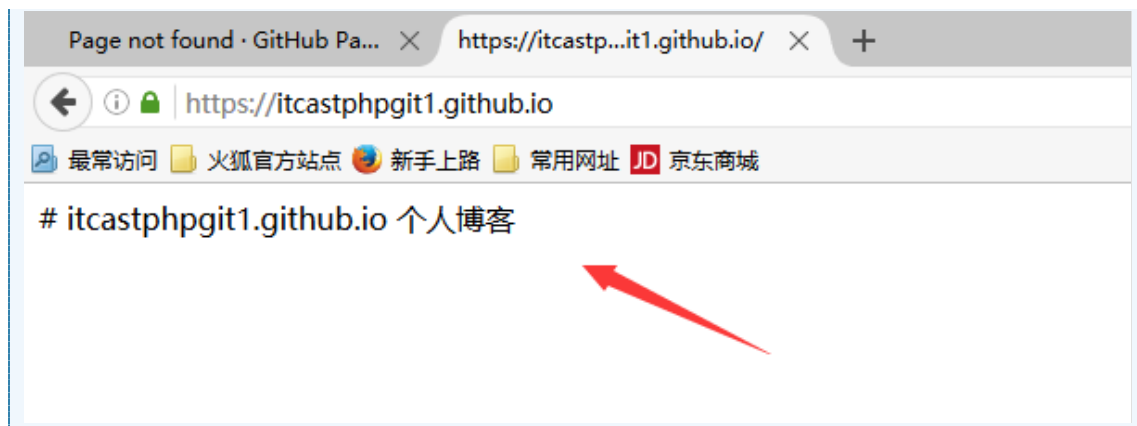
- 1) 创建个人站点 -> 新建仓库（注：仓库名必须是【用户名.github.io】）
- 2) 在仓库下新建 index.html 的文件即可

The screenshot shows the GitHub 'Create a new repository' page. The following elements are highlighted with red boxes:

- Repository name:** A text input field containing 'itcastphpgit1.github.io' with a green checkmark icon to its right.
- Description (optional):** A text input field containing '个人博客'.
- Public:** A radio button selected next to the 'Public' label, indicating the repository's visibility.
- Initialize this repository with a README:** A checkbox checked next to the label.

Below these fields, there are two dropdown menus: 'Add .gitignore: None' and 'Add a license: None'. At the bottom, there is a green 'Create repository' button.





## 脚下留心

- 1、github pages 仅支持静态网页
- 2、仓库里面是.html 文件
- 3、个人主页也可以设置主题

## Project Pages 项目站点

### 访问

<https://用户名.github.io/>仓库名

### 原理

gh-pages 用于构建和发布

### 搭建步骤

- 1) 进入项目主页，点击 settings
- 2) 在 settings 页面，点击【Launch automatic page generator】来自动生成主题页面
- 3) 新建站点基础信息设置
- 4) 选择主题
- 5) 生成网页