

GitHub及Git搭建和使用

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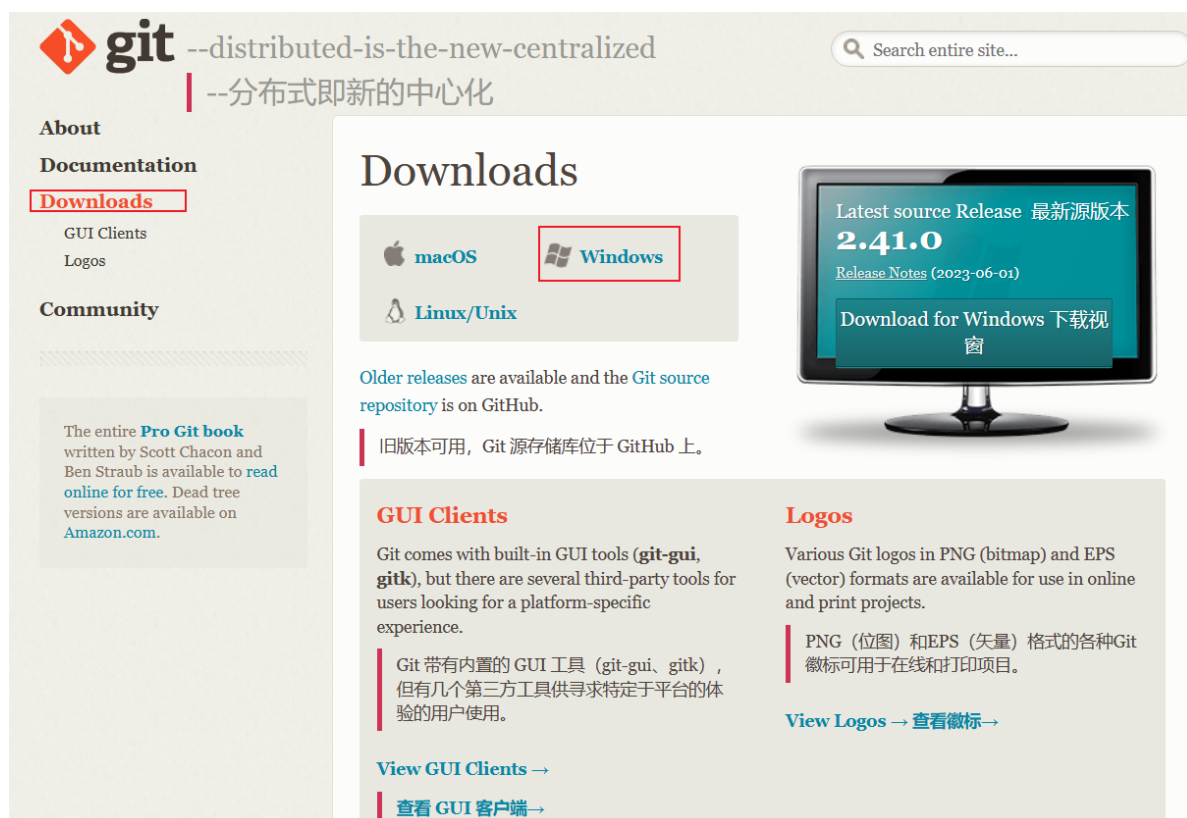
作者：郭毅鑫

1.注册GitHub账户

地址：<https://github.com/>

2.下载Git

地址：<https://git-scm.com/downloads>



git --distributed-is-the-new-centralized
--分布式即新的中心化

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The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads

Older releases are available and the [Git source repository](#) is on GitHub.

旧版本可用，Git 源存储库位于 GitHub 上。

GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.

Git 带有内置的 GUI 工具 (git-gui, gitk)，但有几个第三方工具供寻求特定于平台的体验的用户使用。

[View GUI Clients →](#)

[查看 GUI 客户端 →](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

PNG (位图) 和 EPS (矢量) 格式的各种 Git 徽标可用于在线和打印项目。

[View Logos → 查看徽标 →](#)

Latest source Release 最新源版本
2.41.0
[Release Notes \(2023-06-01\)](#)
[Download for Windows 下载视窗](#)

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Download for Windows 下载视窗

[Click here to download](#) the latest (2.41.0) 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **11 days ago**, on 2023-06-01.

单击此处下载最新的 (2.41.0) 64 位版本的 Git for Windows。这是最近维护的版本。它于 11 天前于 2023-06-01 发布。

Other Git for Windows downloads 其他 Git for Windows 下载

Standalone Installer 独立安装程序
32-bit Git for Windows Setup.

用于 Windows 安装程序的 32 位 Git。

64-bit Git for Windows Setup.

用于 Windows 安装程序的 64 位 Git。

Portable ("thumbdrive edition") 便携式 ("拇指驱动器版")
32-bit Git for Windows Portable.

32 位 Git for Windows Portable.

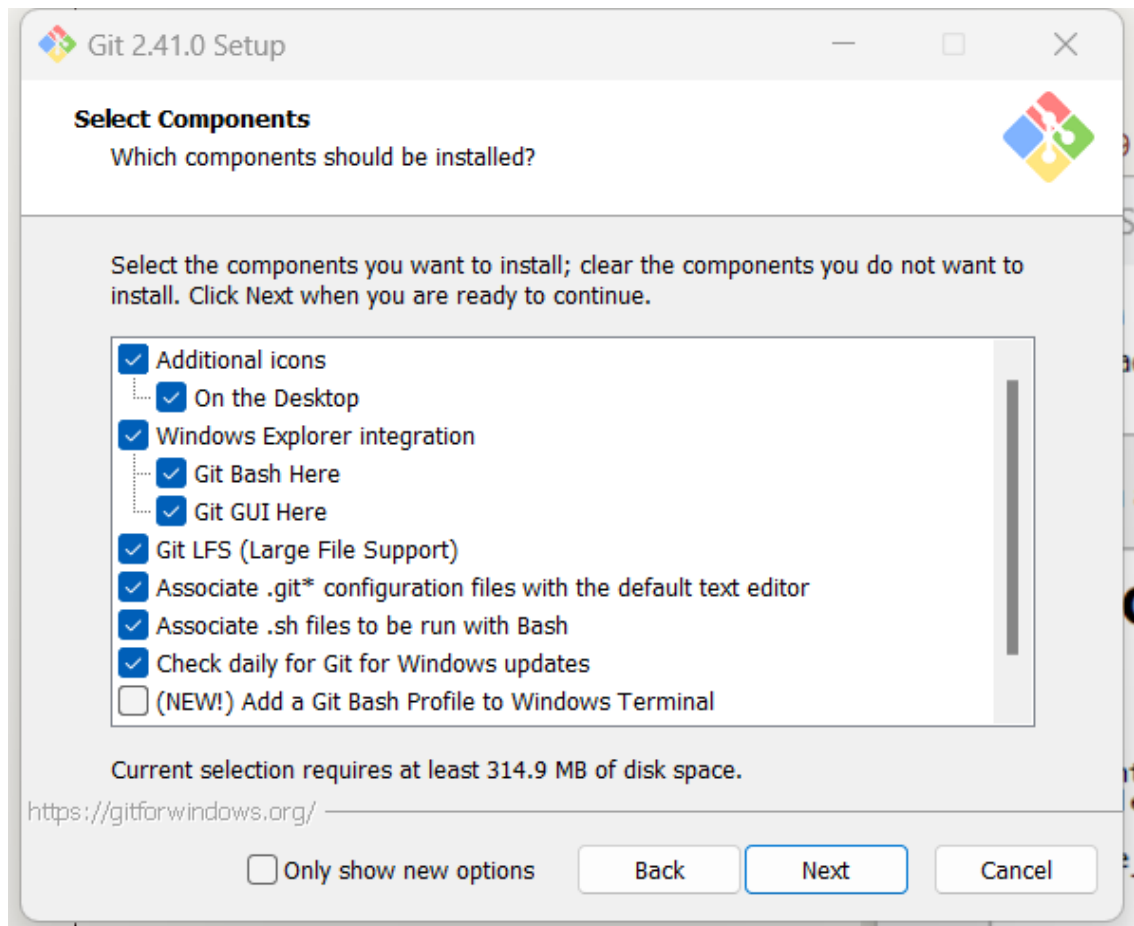
64-bit Git for Windows Portable.

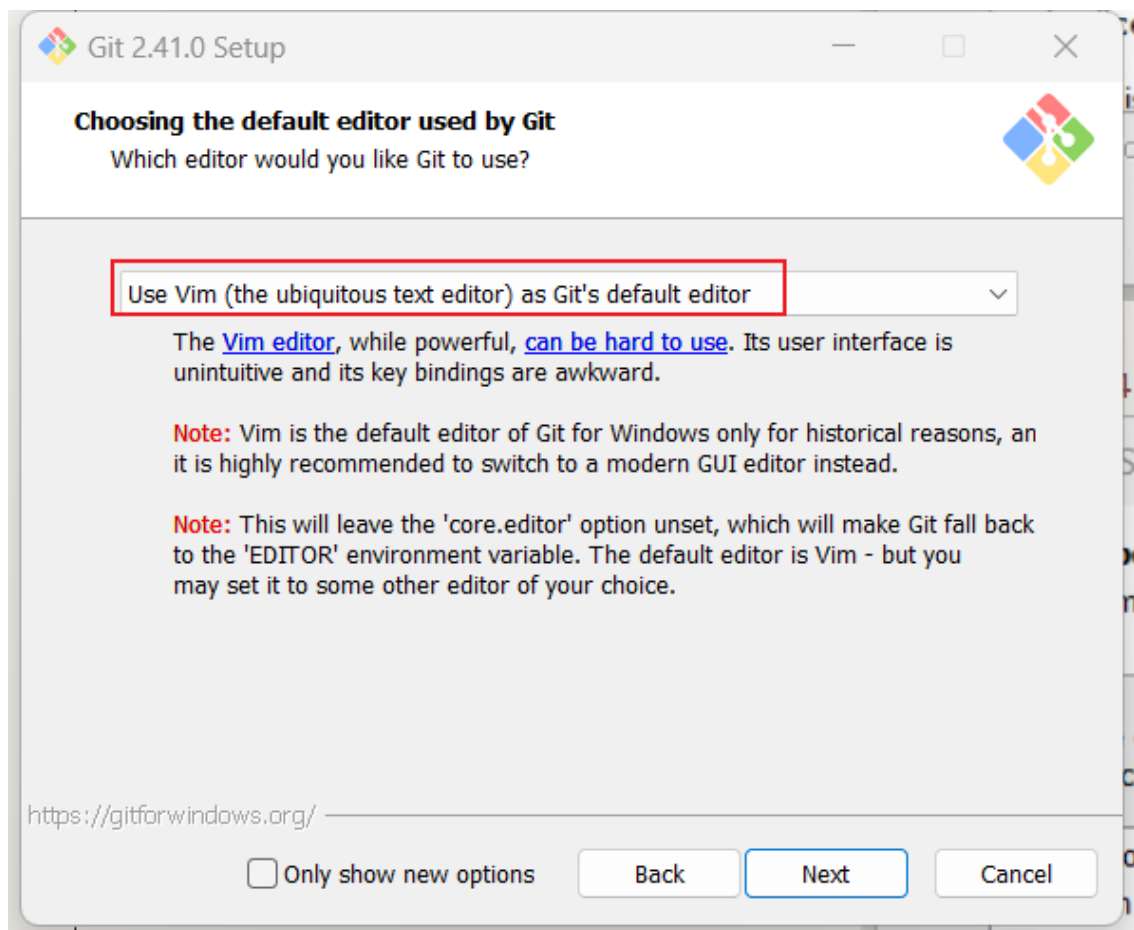
64 位 Git for Windows Portable.

Using winget tool 使用温格特工具
Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.

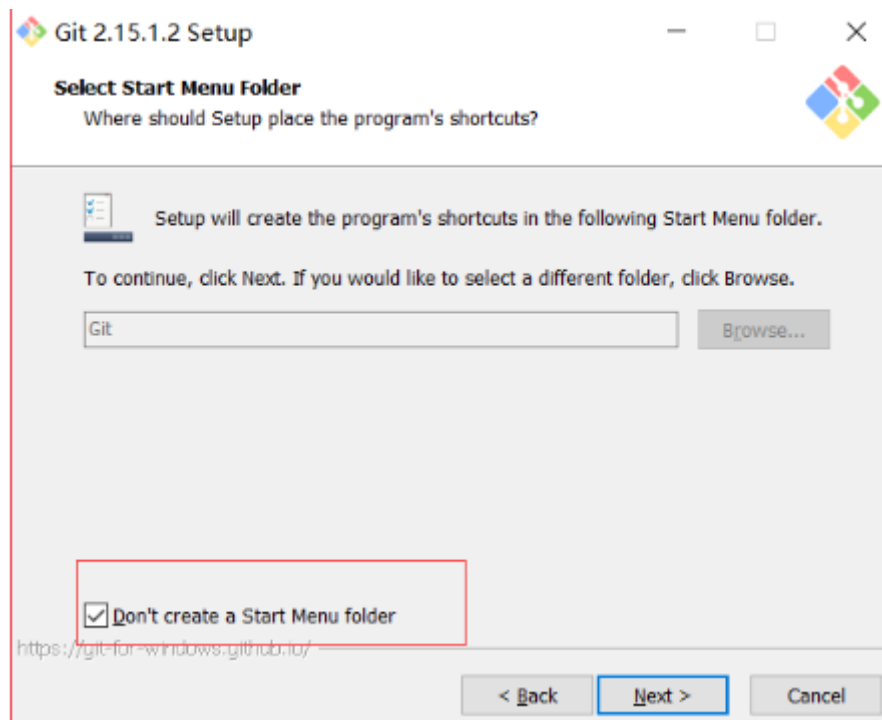
3.安装Git

1. 基本上都是默认配置，以下是需要关注得地方
2. 安装详细地址：[Git安装教程 \(windows\) - 战争热诚 - 博客园\(cnblogs.com\)](#)
3. 安装配置文件，自己需要的都选上



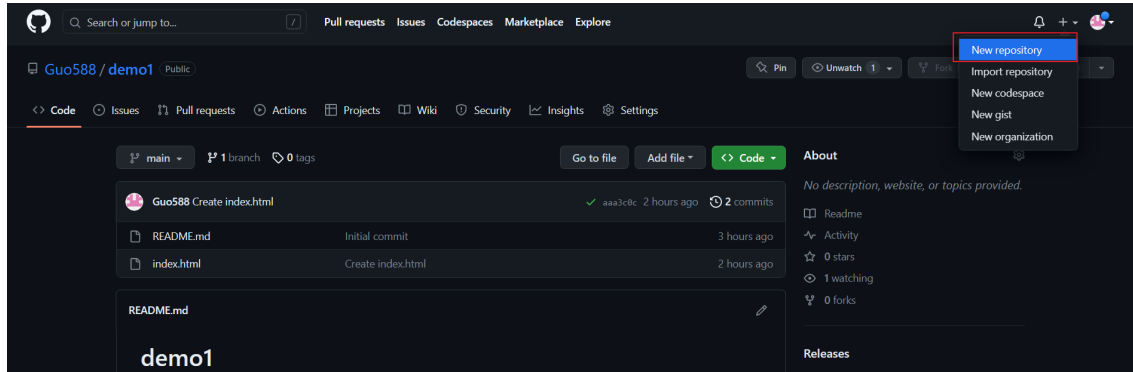


5. 不创建启动文件夹

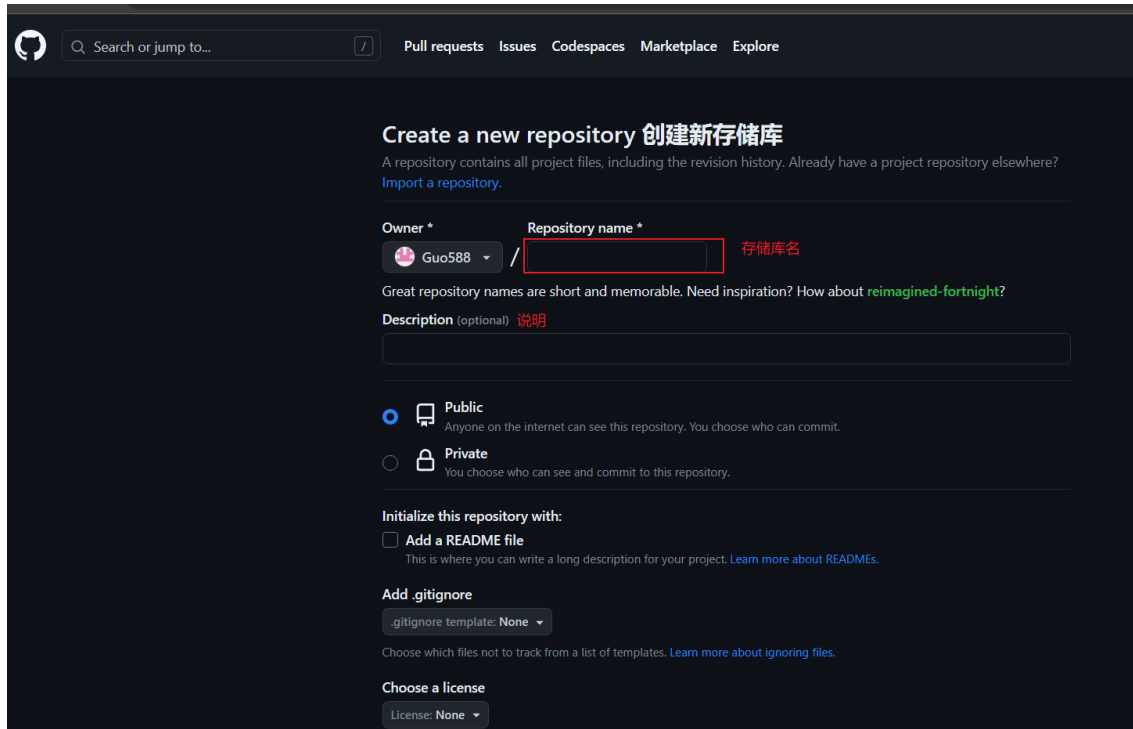


4. 创建GitHub仓库

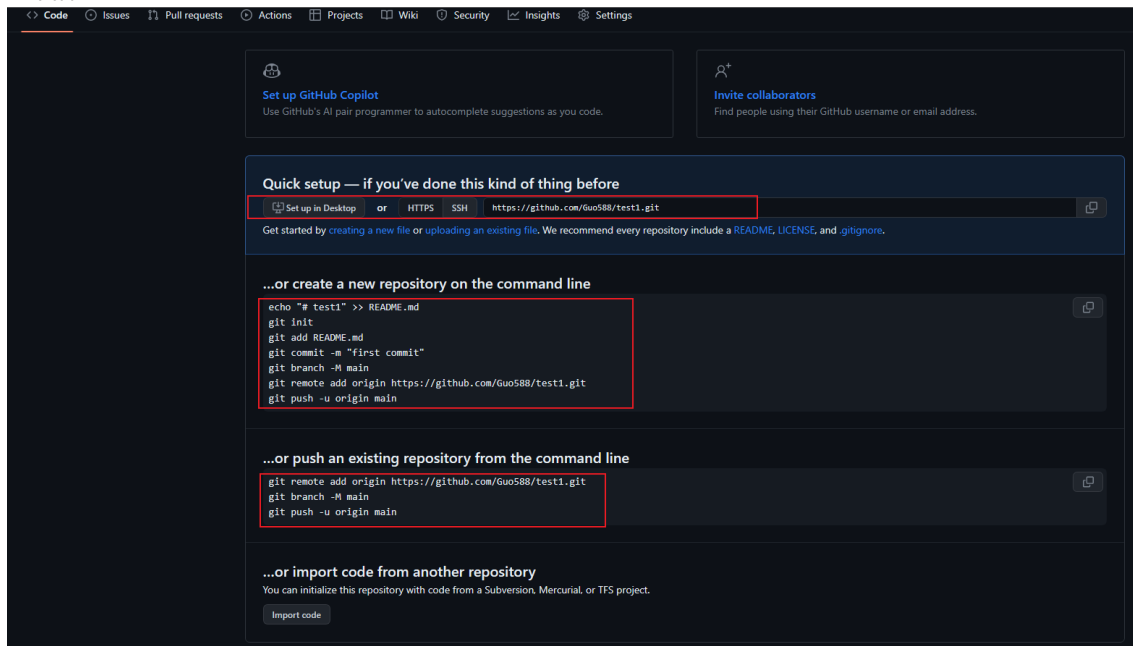
1. 新建存储库



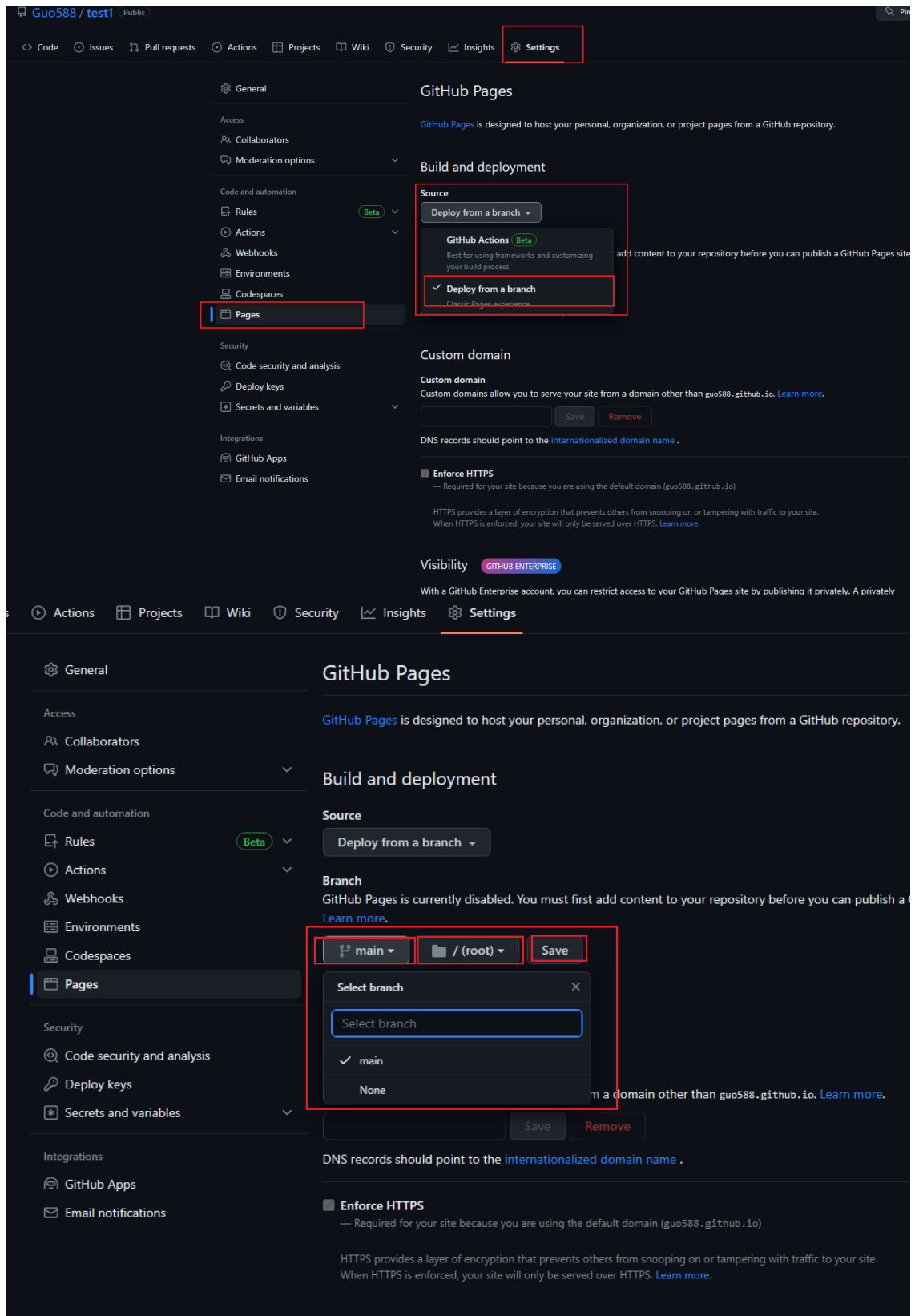
2. 填写信息(需要部署简易网站时可以填写: 用户名+.github.io;例如: Guo588.github.io; 具体配置请看第6小节), 后点击提交创建



3. 查看配置



4. 设置分支，然后点击save保存



5.使用Git，让本地上传到GitHub存储库

1. 打开此电脑，选择一个盘，比如 D 盘，右键空白处点击 git bash here（前提是git已经安装好）。



2. 输入如下命令，用来在 D 盘创建 demo1 文件夹，克隆test repository到 demo1 文件夹中。

```
fengxiong@shuaigefeng MINGW64 /d
$ mkdir demo1
fengxiong@shuaigefeng MINGW64 /d
$ cd demo1/
fengxiong@shuaigefeng MINGW64 /d/demo1
$ git clone https://github.com/cruxf/demo1.git
Cloning into 'demo1'...
remote: Counting objects: 15, done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 15 (delta 4), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (15/15), done.
fengxiong@shuaigefeng MINGW64 /d/demo1
$ |
```

创建子目录

克隆远程仓库到本地

3. 生成文件夹



4. 将自己的网页文件复制粘贴至 D 盘的 demo1- 文件中



5. 执行如下命令

```
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1 (master)
$ cd demo1/
进入文件夹

11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
(use "git add <file>..." to include in what will be committed)
test.html

nothing added to commit but untracked files present (use "git add" to track)

11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git add .
向仓库添加

11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ gti status
bash: gti: command not found

11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ 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)
new file: test.html
成功
```

6. 提交更改

```
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git commit -m "modify"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got '11979@DESKTOP-F9GM40B.(none)')

11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git pull
Already up to date.

11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git config --global user.email "1197999744@qq.com"
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git config --global user.name "Guo588"
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git commit -m "modify"
[main 08001a2] modify
1 file changed, 1 insertion(+)
create mode 100644 test.html
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ |
```

提交更改

第一次需要配置邮箱和用户

配置邮箱

配置用户

提交

7. 输入git push来发布本地提交

```
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git push
info: please complete authentication in your browser...
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 320 bytes | 160.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Guo588/demo1.git
aaa3c0c..08001a2  main -> main
```

会弹出确定框，确认就好

6.部署好后的使用流程

1. 将项目放进本地克隆仓库中，具体位置查看第5.4小节

2. 使用流程

```
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ 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:   test.html

no changes added to commit (use "git add" and/or "git commit -a")
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git add .
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ 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:   test.html

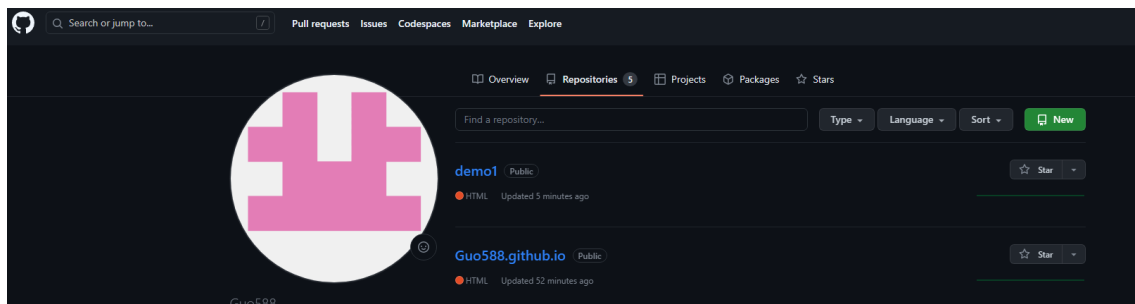
11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git commit -m "modify"
[main 37f0a3] modify
1 file changed, 1 insertion(+), 1 deletion(-)

11979@DESKTOP-F9GM40B MINGW64 /e/Date/Git_Date/demo1/demo1 (main)
$ git push
fatal: unable to access 'https://github.com/Guo588/demo1.git/': Failed to connect to github.com port 443 after 21107 ms: Couldn
```

上述最后一步是连接异常，多尝试几次提交就可以

7. 网站部署理解

- 创建存储库（如果是以用户为名创建的库，是为默认网址；其创建方式查看第4.2小节）
- 非用户名创建的库，需要在访问路径上加库的名
- 示例：



- 以上为第二个为非用户名创建的库
- 默认访问地址为

<https://guo588.github.io>

另一个库则为

<https://guo588.github.io/demo1>

当一个库内部有多个页面，而你也需要进入不同页面时可以添加上指定路径

<https://guo588.github.io/index.html>

或另一个页面

<https://guo588.github.io/index1.html>

- 非用户的库则需要再加上库的名字

<https://guo588.github.io/demo1/index.html>

8.Git中文件名乱码问题

1. 设置Git全局配置中的文件名编码

可以通过以下命令来设置Git全局配置中的文件名编码为UTF-8:

```
$ git config --global core.quotePath false
$ git config --global gui.encoding utf-8
$ git config --global i18n.commit.encoding utf-8
$ git config --global i18n.logoutputencoding utf-8
```