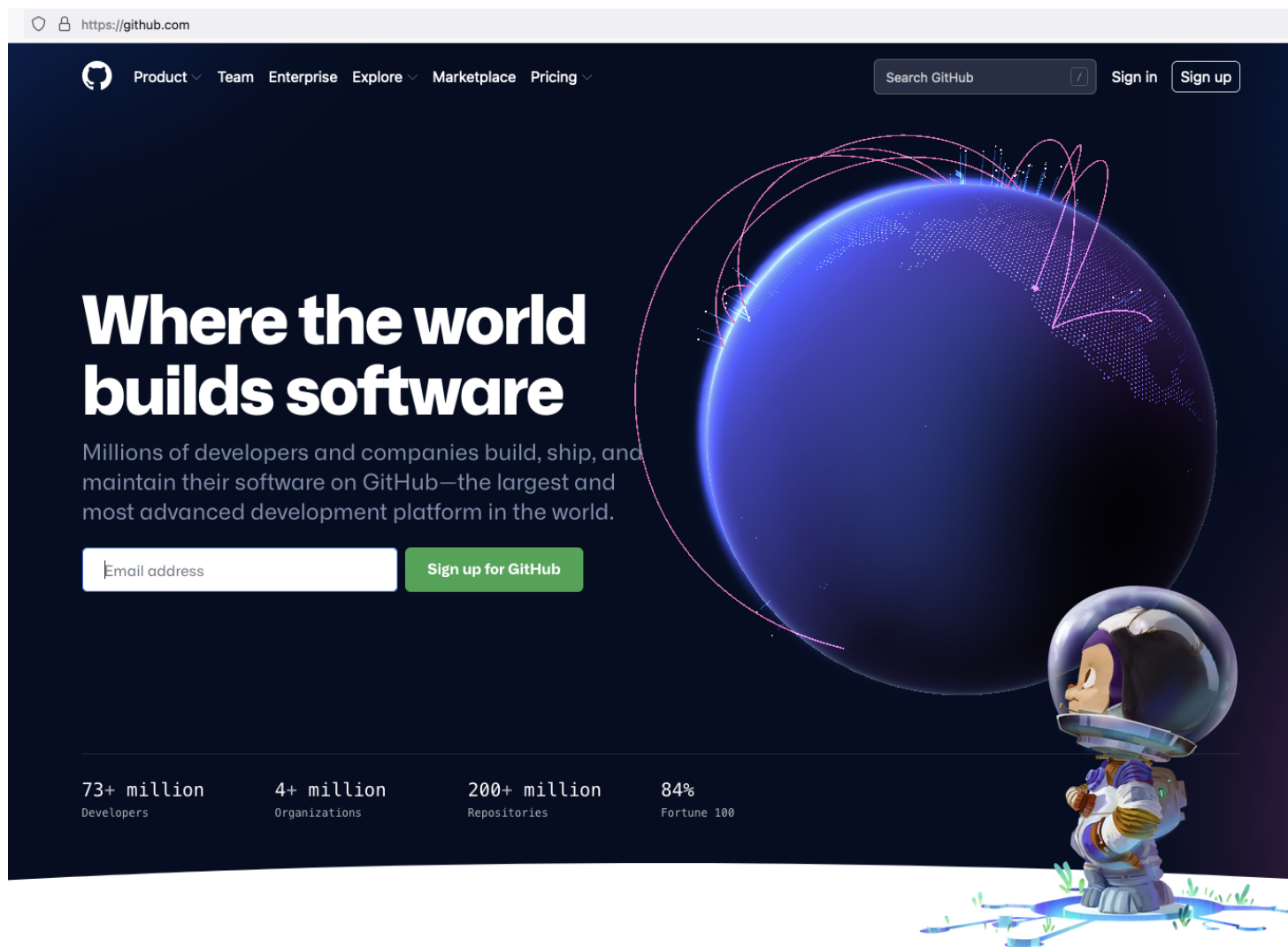


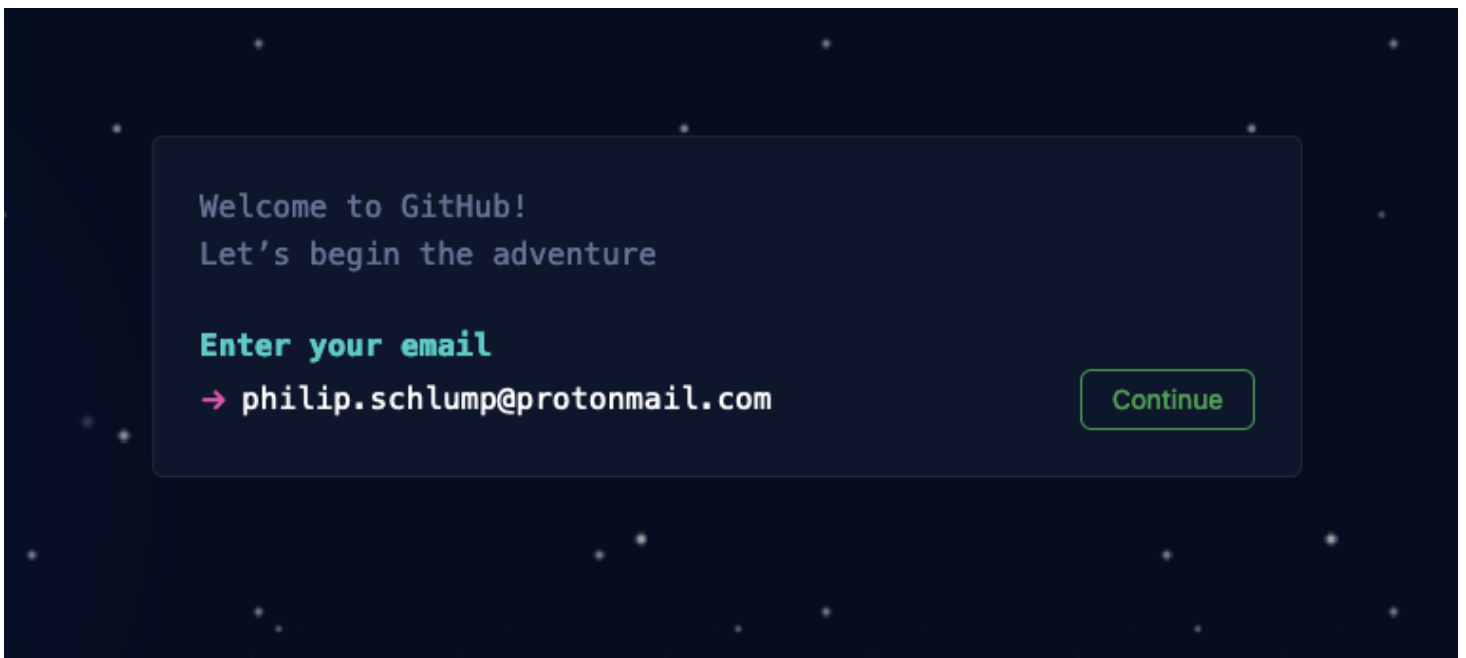
# Lecture 27 - github.com with some code

## Setup Github.com

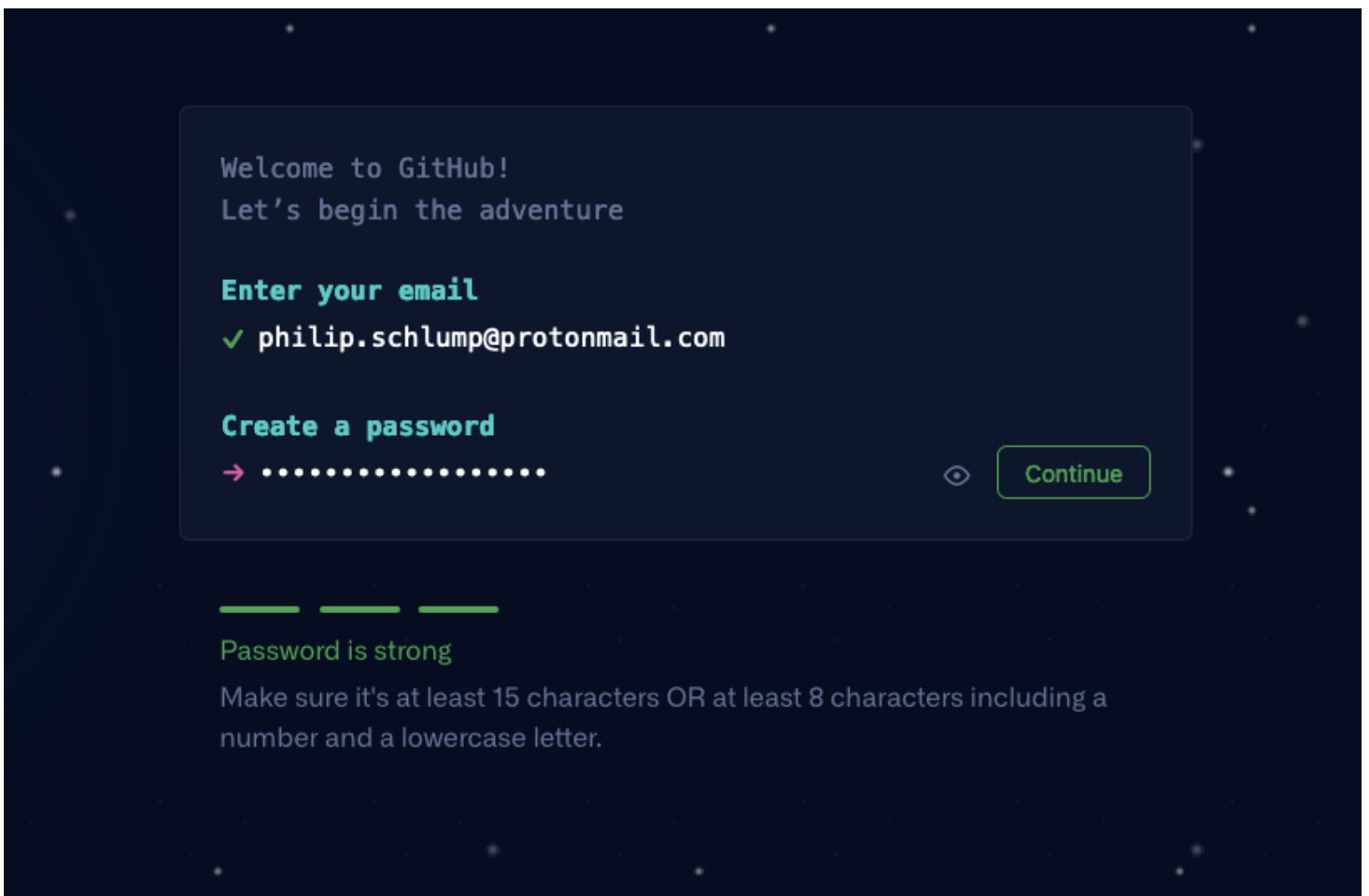
Go to <https://github.com>



Step 000. Click on the button to create an account. The Green One that says Sign up for GitHub



Step 001. You should get a prompt that looks kind of like a terminal prompt. That is the little red arrow. Enter your email address. Click Continue on the bottom right.



Step 002. A password. If you are using a password manager then generate a random password and use that. If not then use random.org, <https://www.random.org/strings/> to generate a password. You will need to save the generated password in a file - you won't remember a random password. When you use it later use cut/paste it from the file. **Make backups of the file! Print it out. Save it in your sock drawer! ALL computers eventually crash - files get deleted. Save it because if you loose it you will not get it back.** Change the number, check the boxes for Numeric, Upper lower case and click the button at the bottom. It should look like:

The screenshot shows a web browser window with the address bar displaying "random.org/strings/". The page has a light blue header with the title "RANDOM.ORG Uses Cookies". Below this, a message states: "We use cookies to remember your preferences and to analyze our traffic. We do not carry ads and will never sell your data to third parties." There are three checkboxes: "Necessary" (checked), "Preferences", and "Statistics". Below these are links to "Cookie Policy" and "Privacy Dashboard". At the bottom of the header are two buttons: "Allow Selected" and "Allow All".

The main content area has a paragraph: "This form allows you to generate random text strings. The randomness comes from atmospheric noise, which for many purposes is better than the pseudo-random number algorithms typically used in computer programs."

**Part 1: The Strings**

Generate  random strings (maximum 10,000).

Each string should be  characters long (maximum 20).

Which characters are allowed to occur in the strings?

- ☒ Numeric digits (0-9)
- ☒ Uppercase letters (A-Z)
- ☒ Lowercase letters (a-z)

Do you want each string to be unique?

- ☒ Each string should be unique (like raffle tickets)
- ☐ Identical strings are allowed (like dice rolls)

**Part 2: Go!**

Be patient! It may take a little while to generate your strings...

There are three buttons: "Get Strings", "Reset Form", and "Switch to Advanced Mode".

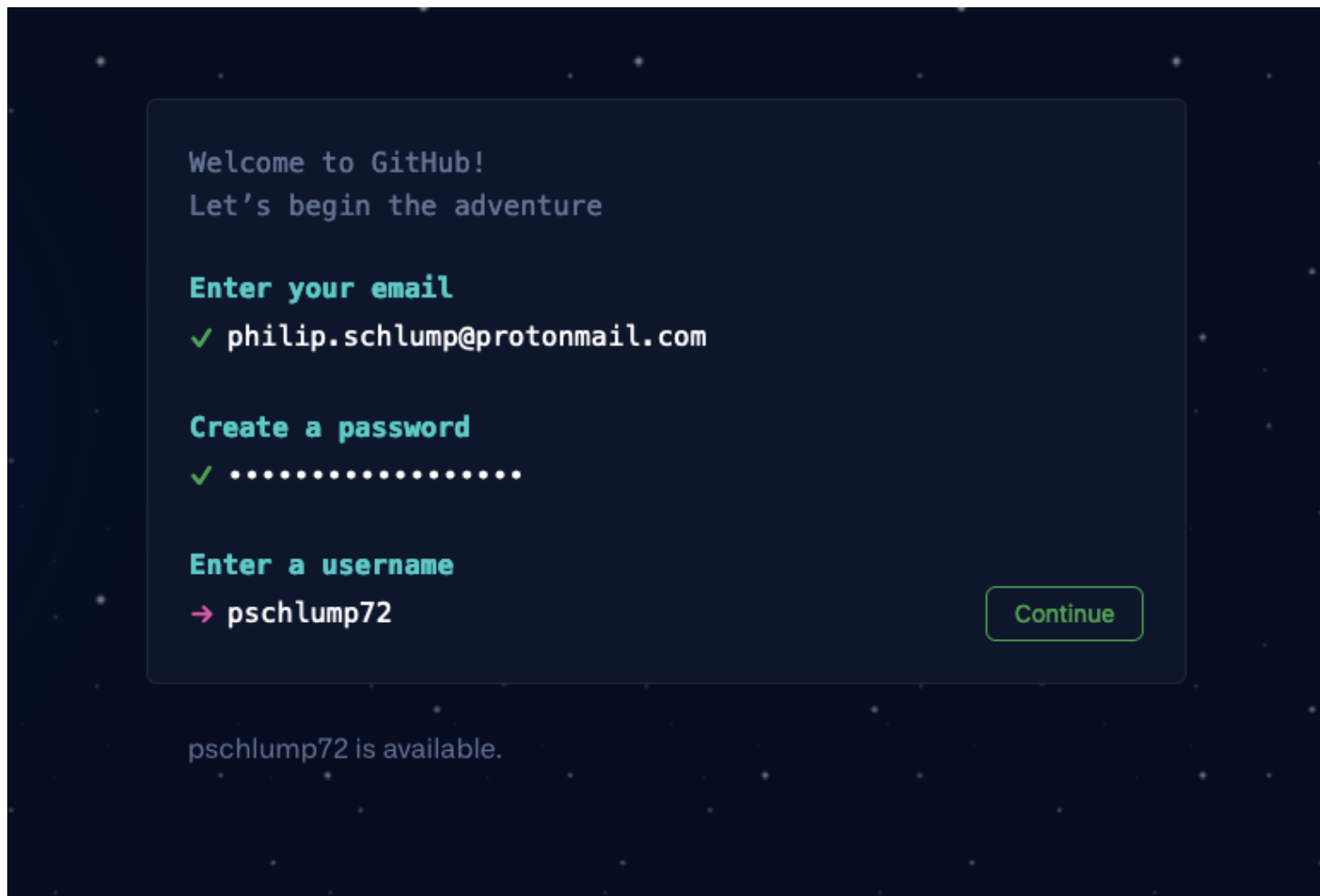
Need more strings than this form supports? Check out our [File Generation Service](#).

---

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[Terms and Conditions](#)  
[About Us](#)

Now you should have a password to enter like, HVo9BcyMloHD04J

Click `Continue` and give yourself a username that you like.



Step 003. Solve a puzzle - so that only humans and machine learning programs in python can login.

Welcome to GitHub!  
Let's begin the adventure

**Enter your email**

✓ philip.schlump@protonmail.com

**Create a password**

✓ .....

**Enter a username**

✓ pschlump72

**Would you like to receive product updates and  
announcements via email?**

**Type "y" for yes or "n" for no**

✓ n

**Verify your account**

Please solve this puzzle to verify that you are  
human

Click "Start puzzle" to continue

Start puzzle





Step 004. Get a checkbox and ... Yes click the big button at the bottom, Create account .

Welcome to GitHub!  
Let's begin the adventure

**Enter your email**

✓ philip.schlump@protonmail.com

**Create a password**

✓ .....

**Enter a username**

✓ pschlump72

**Would you like to receive product updates and  
announcements via email?**

**Type "y" for yes or "n" for no**

✓ n

**Verify your account**



Create account





Step 005. Now off to your email.... Have to confirm the email.



Here's your GitHub launch code, @pschlump72!

Continue signing up for GitHub by entering the code below:

**68731384**

Open GitHub

Once completed, you can start using all of GitHub's features to explore, build, and share projects.

Not able to enter the code? Paste the following link into your browser:  
[https://github.com/users/pschlump72/emails/201193274/confirm\\_verification/68731384?via\\_launch\\_code\\_email=true](https://github.com/users/pschlump72/emails/201193274/confirm_verification/68731384?via_launch_code_email=true)

---

[Email preferences](#) · [Terms](#) · [Privacy](#) · [Sign in to GitHub](#)

You're receiving this email because you recently created a new GitHub account. If this wasn't you, please ignore this email.

GitHub, Inc. · 88 Colin P Kelly Jr Street · San Francisco, CA 94107

Step 006. You should get an email that looks like this. The number is a one time password. The way that these work is it generates a secret, takes the secret - then uses the secret to generate a password that lasts for a little while and sends that to you. You enter the number and that confirms to the system that the email address was real and you are can login to it.

**How many team members will be working with you?**

This will help us guide you to the tools that are best suited for your projects.

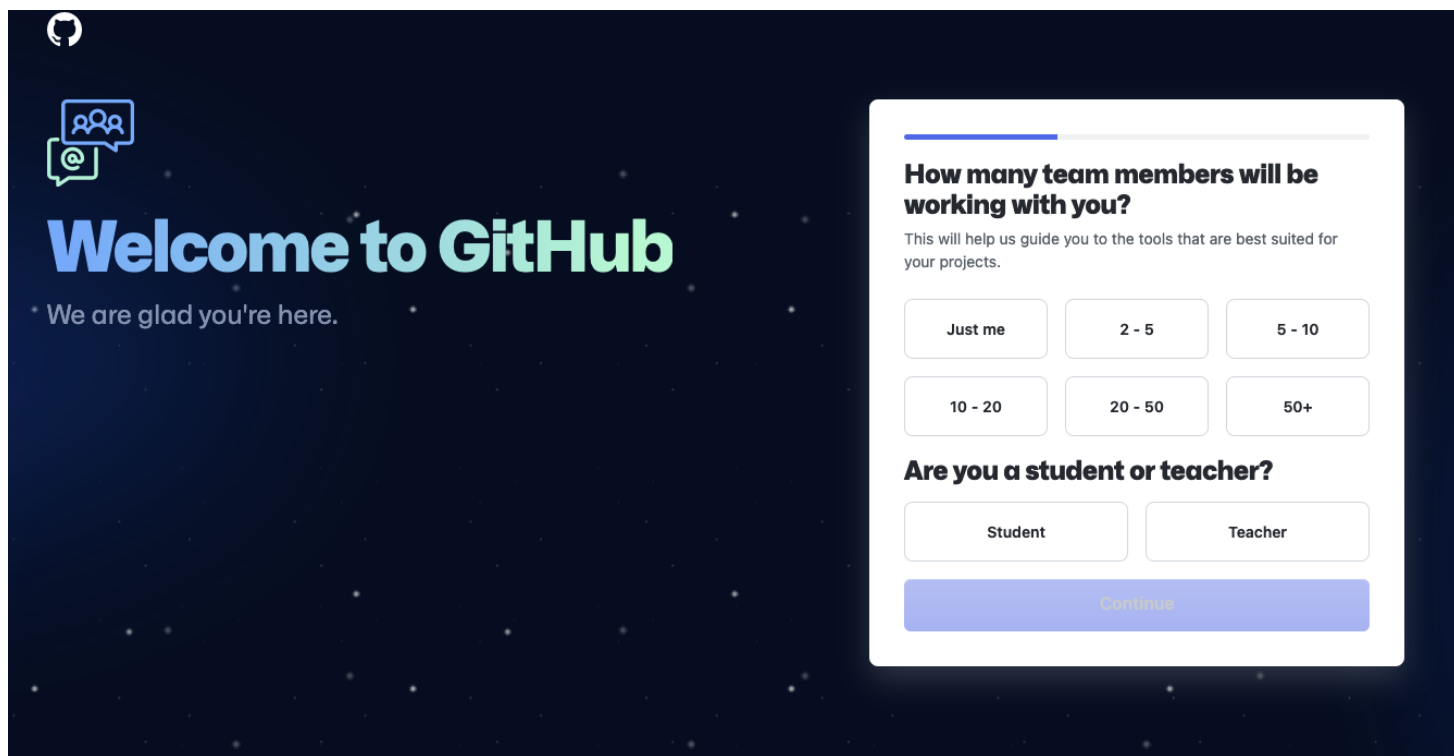
Just me	2 - 5	5 - 10
10 - 20	20 - 50	50+

**Are you a student or teacher?**

Student	Teacher
---------	---------

Continue

Step 007. Answer some questions.



**Welcome to GitHub**

We are glad you're here.

**How many team members will be working with you?**

This will help us guide you to the tools that are best suited for your projects.

☐ Just me ☐ 2 - 5 ☐ 5 - 10

☐ 10 - 20 ☐ 20 - 50 ☐ 50+

**Are you a student or teacher?**

☐ Student ☐ Teacher

[Continue](#)

Step 008. Click on the green button on the left, Create repository .

The screenshot shows the GitHub homepage. At the top is a dark navigation bar with the GitHub logo, a search bar, and links for Pull requests, Issues, Marketplace, and Explore. On the left sidebar, there's a 'Create your first project' section with a green 'Create repository' button and a blue 'Import repository' button. Below it is a 'Recent activity' section. The main content area features a light green banner for 'Learn Git and GitHub without any code!' with buttons for 'Read the guide' and 'Start a project'. Below this is a 'Following' tab and a 'For you (Beta)' tab. The 'For you' tab is active, showing an 'Introduce yourself' section with a template for a README file. The template includes a list of items to add to the README, such as a bio, interests, skills, and contact information. Below this is a 'Discover interesting projects and people to populate your personal news feed.' section with a blue 'Explore GitHub' button. At the bottom, there's a footer with the GitHub logo, copyright information, and links for Blog, About, Shop, Contact GitHub, Pricing, API, Training, Status, Security, Terms, Privacy, and Docs.

Create your first project  
Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it.  
[Create repository](#) [Import repository](#)

Recent activity  
When you take actions across GitHub, we'll provide links to that activity here.

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](#)

Following For you (Beta)

Introduce yourself  
The easiest way to introduce yourself on GitHub is by creating a README in a repository about you! You can start here:

pschlump72 / README.md

```
1 - 🐼 Hi, I'm @pschlump72
2 - 📖 I'm interested in ...
3 - 🚀 I'm currently learning ...
4 - 🤝 I'm looking to collaborate on ...
5 - 💬 How to reach me ...
6
```

[Dismiss this](#) [Continue](#)

Discover interesting projects and people to populate your personal news feed.  
Your news feed helps you keep up with recent activity on repositories you [watch](#) or [star](#) and people you [follow](#).  
[Explore GitHub](#)

ProTip! The feed shows you events from people you [follow](#) and repositories you [watch](#) or [star](#).  
Subscribe to your news feed

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Privacy  
Docs

Step 009. Give it a name. You can make it public for this class. Click on the `Create repository` button at the bottom of the page.

[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)


## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

---

Owner \*

Repository name \*

 pschlump72 ▾


/


✓

Great repository names are lab12 is available. able. Need inspiration? How about **cautious-fiesta?**

Description (optional)

---

☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**  
You choose who can see and commit to this repository.

---

**Initialize this repository with:**  
Skip this step if you're importing an existing repository.

☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)


**Add .gitignore**  
Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: None ▾

**Choose a license**  
A license tells others what they can and can't do with your code. [Learn more.](#)

License: None ▾

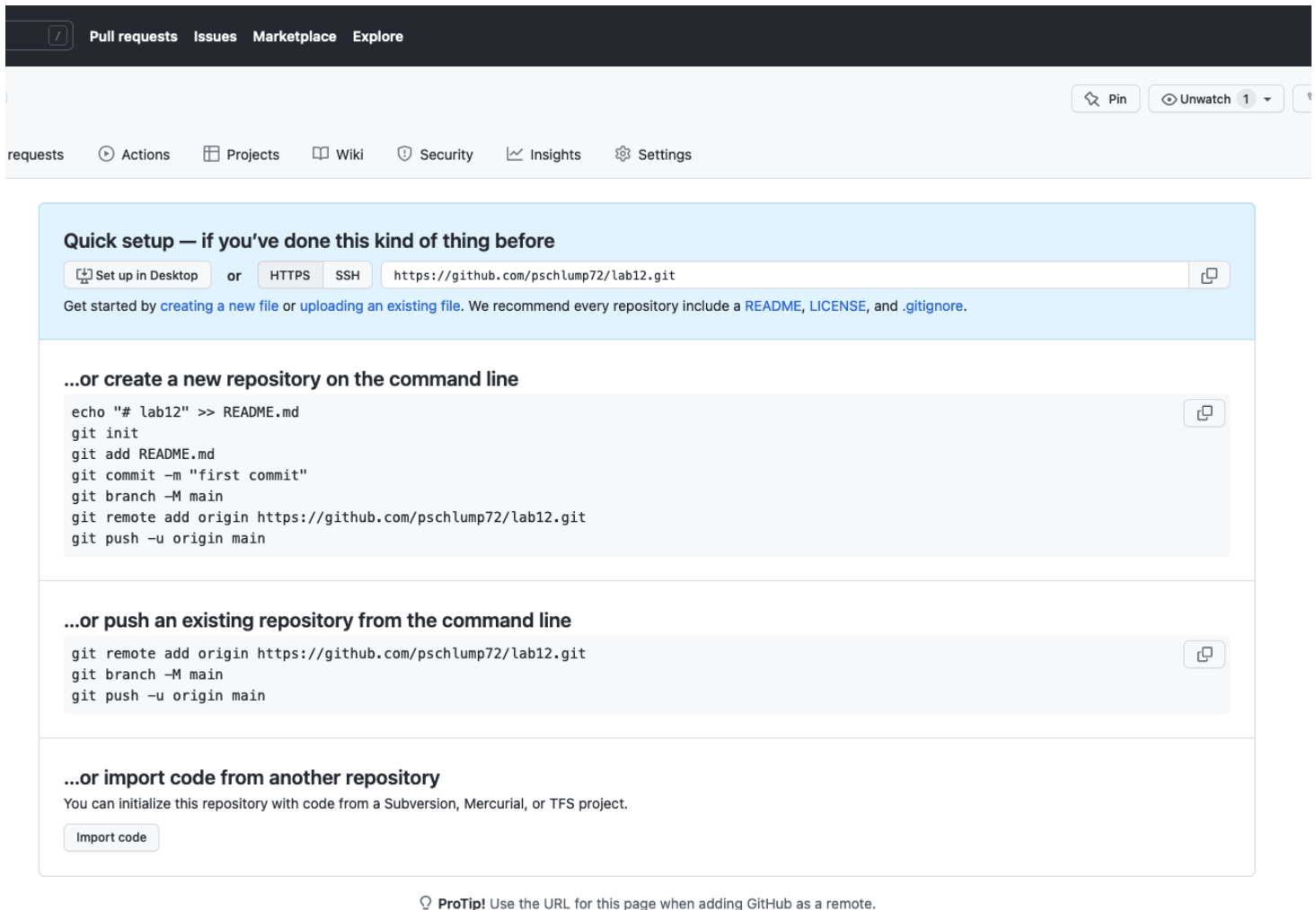
---

 You are creating a public repository in your personal account.

---

[Create repository](#)

Step 010. You should get a screen that looks like this. Copy the commands in the first block that says, ... or create a new repository on the command line .



The screenshot shows the GitHub 'Quick setup' page. At the top, there's a navigation bar with 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. Below that, a secondary bar has 'requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The main content area is titled 'Quick setup — if you've done this kind of thing before'. It offers two main paths: 'Set up in Desktop' or 'HTTPS' / 'SSH'. The 'SSH' path is selected, showing the URL 'https://github.com/pschlump72/lab12.git'. Below this, it says 'Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.' The next section is '...or create a new repository on the command line', which contains a code block with the following commands: 



```
echo "# lab12" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/pschlump72/lab12.git
git push -u origin main
```

 The following section is '...or push an existing repository from the command line', with the commands: 

```
git remote add origin https://github.com/pschlump72/lab12.git
git branch -M main
git push -u origin main
```

 The final section is '...or import code from another repository', with the text 'You can initialize this repository with code from a Subversion, Mercurial, or TFS project.' and an 'Import code' button. At the bottom, there's a 'ProTip!' icon and text: 'Use the URL for this page when adding GitHub as a remote.'

**Quick setup — if you've done this kind of thing before**

 Set up in Desktop or **HTTPS** **SSH** `https://github.com/pschlump72/lab12.git` 

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

**...or create a new repository on the command line**

```
echo "# lab12" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/pschlump72/lab12.git
git push -u origin main
```


**...or push an existing repository from the command line**

```
git remote add origin https://github.com/pschlump72/lab12.git
git branch -M main
git push -u origin main
```

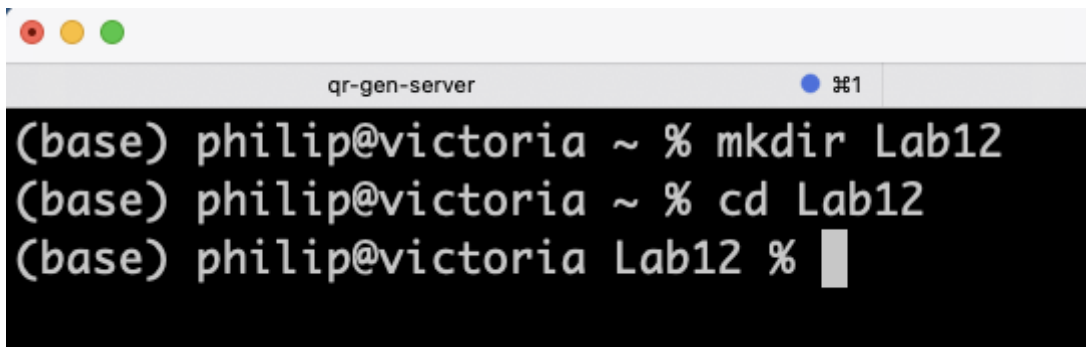
**...or import code from another repository**

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

[Import code](#)

 **ProTip!** Use the URL for this page when adding GitHub as a remote.

Step 011. Go and create a directory on your system. This is using PowerShell on Windows or Terminal on Mac.



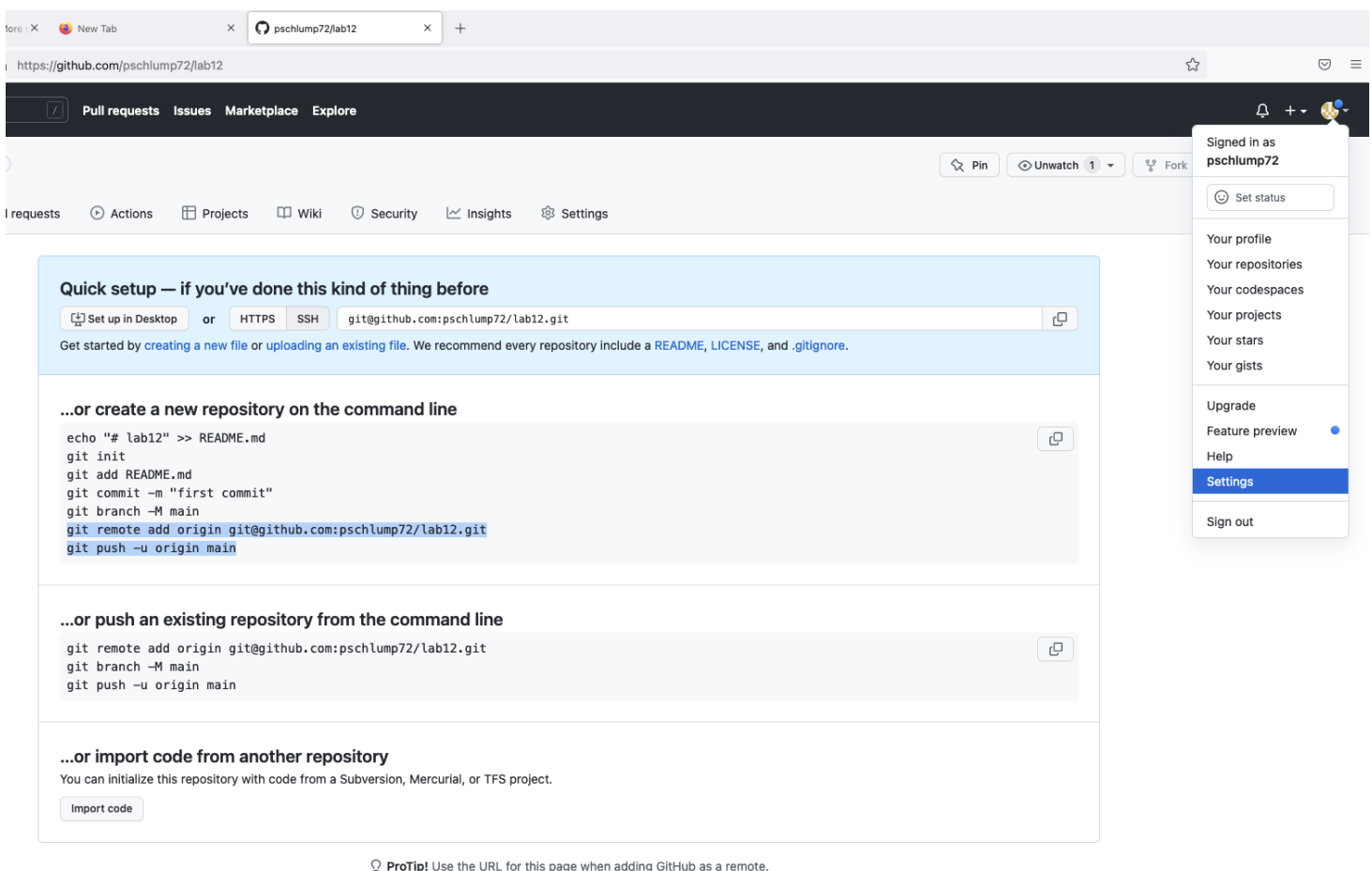
```
(base) philip@victoria ~ % mkdir Lab12
(base) philip@victoria ~ % cd Lab12
(base) philip@victoria Lab12 %
```

Step 012. Run the commands from Step 010. Some of you may get an error on the last command. If it prompts you for a username and the password to login this is good. If you just get an error then - Step 013 to 018 are for you. They are on how to create a personal access token to login with. Generally if you have not used github.com before you will not need to create a personal access token. If you are already a user and you are creating a new account - then you will need to configure github.com to know which account and what security to use.

You will want to configure your system to know your username and account information for github.com. To do this:

```
$ git config --global user.name "Philip Schlump"
$ git config --global user.email "philip.schlump@protonmail.com"
```

You will want to use your name and email for this.



The screenshot shows the GitHub web interface for a repository named 'pschlump72/lab12'. The 'Quick setup' section is highlighted, providing instructions for creating a new repository on the command line. The instructions include creating a README file, initializing git, adding the README, committing, creating a main branch, adding the remote origin, and pushing the code. A 'ProTip!' at the bottom suggests using the URL for adding GitHub as a remote.

```
Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH git@github.com:pschlump72/lab12.git

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

echo "# lab12" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:pschlump72/lab12.git
git push -u origin main

...or push an existing repository from the command line

git remote add origin git@github.com:pschlump72/lab12.git
git branch -M main
git push -u origin main

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code
```

ProTip! Use the URL for this page when adding GitHub as a remote.

Step 013. Click on the little round image on the top right, there is a dropdown that should show

Your gists

Upgrade

Feature preview

Settings

Sign Out

Pick on Settings. In the previous screen capture I have the drop down open.



<https://github.com/settings/profile>[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)**pschlump72**

Your personal account

[Go to your personal profile](#)**Public profile**

- Account
- Appearance
- Accessibility
- Notifications

**Access**

- Billing and plans
- Emails
- Password and authentication
- SSH and GPG keys
- Organizations
- Moderation

**Code, planning, and automation**

- Repositories
- Packages
- Pages
- Saved replies

**Security**

- Code security and analysis

**Integrations**

- Applications
- Scheduled reminders

**Archives**

- Security log
- Sponsorship log

**<> Developer settings****Public profile****Name**

Your name may appear around GitHub where you contribute or are mentioned. You can remove it at any time.

**Public email**

You have set your email address to private. To toggle email privacy, go to [email settings](#) and uncheck "Keep my email address private."

**Bio**

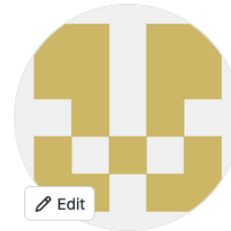
You can @mention other users and organizations to link to them.

**URL****Twitter username****Company**

You can @mention your company's GitHub organization to link it.

**Location**

All of the fields on this page are optional and can be deleted at any time, and by filling them out, you're giving us consent to share this data wherever your user profile appears. Please see our [privacy statement](#) to learn more about how we use this information.

[Update profile](#)**Profile picture**[Edit](#)**Contributions & Activity**☐ **Make profile private and hide activity**

Enabling this will hide your contributions and activity from your GitHub profile and from social features like followers, stars, feeds, leaderboards and releases.

☐ **Include private contributions on my profile**


Get credit for all your work by showing the number of contributions to private repositories on your profile without any repository or organization information. [Learn how we count contributions](#).

[Update preferences](#)© 2022 GitHub, Inc. [Terms](#) [Privacy](#) [Security](#) [Status](#) [Docs](#) [Contact GitHub](#) [Pricing](#) [API](#) [Training](#) [Blog](#) [About](#)

Step 014. This brings up your Profile page. Click on <> Developer setting on the menu on the left at the very bottom.

<https://github.com/settings/profile>

[Pull requests](#)
[Issues](#)
[Marketplace](#)
[Explore](#)


**pschlump72**  
 Your personal account

[Go to your personal profile](#)

Public profile

Account

Appearance

Accessibility

Notifications

Access

Billing and plans

Emails

Password and authentication

SSH and GPG keys

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Moderation

Code, planning, and automation

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Code security and analysis

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Security log

Sponsorship log

<> Developer settings

## Public profile

Name

Your name may appear around GitHub where you contribute or are mentioned. You can remove it at any time.

Public email

Select a verified email to display

You have set your email address to private. To toggle email privacy, go to [email settings](#) and uncheck "Keep my email address private."

Bio

Tell us a little bit about yourself

You can @mention other users and organizations to link to them.

URL

Twitter username

Company


You can @mention your company's GitHub organization to link it.

Location

All of the fields on this page are optional and can be deleted at any time, and by filling them out, you're giving us consent to share this data wherever your user profile appears. Please see our [privacy statement](#) to learn more about how we use this information.

Update profile

Profile picture



Edit

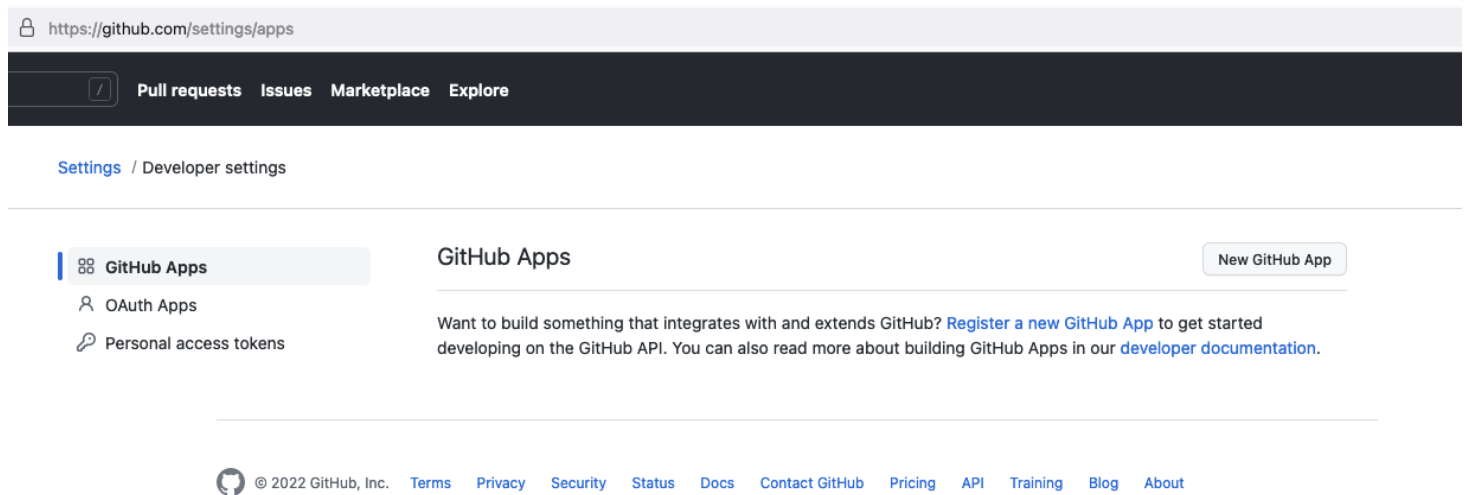
## Contributions & Activity

☐ **Make profile private and hide activity**  
 Enabling this will hide your contributions and activity from your GitHub profile and from social features like followers, stars, feeds, leaderboards and releases.

☐ **Include private contributions on my profile**  
 Get credit for all your work by showing the number of contributions to private repositories on your profile without any repository or organization information. [Learn how we count contributions.](#)

Update preferences

Step 015. You should get a menu with 3 items, "Github Apps", "OAuth Apps", "Personal Access Tokens" on the left. You want the last one, "Personal access tokens" click on that.



The screenshot shows the GitHub web interface. At the top, the address bar displays `https://github.com/settings/apps`. Below the address bar is a dark navigation bar with links: Pull requests, Issues, Marketplace, and Explore. The main content area has a breadcrumb trail: Settings / Developer settings. On the left sidebar, under the 'Developer settings' section, there are three options: GitHub Apps (selected), OAuth Apps, and Personal access tokens. The main content area is titled 'GitHub Apps' and features a 'New GitHub App' button. Below the title, a message states: 'Want to build something that integrates with and extends GitHub? Register a new GitHub App to get started developing on the GitHub API. You can also read more about building GitHub Apps in our developer documentation.'

https://github.com/settings/apps

Pull requests Issues Marketplace Explore

Settings / Developer settings

GitHub Apps

New GitHub App

Want to build something that integrates with and extends GitHub? Register a new GitHub App to get started developing on the GitHub API. You can also read more about building GitHub Apps in our developer documentation.

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Step 016. You should see this page - click on the white button on the right, Generate new token .

The screenshot shows a web browser with three tabs: 'More', 'New Tab', and 'Personal access tokens'. The address bar displays 'https://github.com/settings/tokens'. The GitHub navigation bar is visible with links for 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. Below the navigation bar, the page title is 'Settings / Developer settings'. On the left sidebar, there are three options: 'GitHub Apps', 'OAuth Apps', and 'Personal access tokens', with the latter being selected. The main content area is titled 'Personal access tokens' and features a 'Generate new token' button. Below the title, there is a paragraph explaining that personal access tokens function like ordinary OAuth access tokens and can be used instead of a password for Git over HTTPS, or to authenticate to the API over Basic Authentication. At the bottom of the page, the GitHub logo and copyright information '© 2022 GitHub, Inc.' are displayed, along with various links such as 'Terms', 'Privacy', 'Security', 'Status', 'Docs', 'Contact GitHub', 'Pricing', 'API', 'Training', 'Blog', and 'About'.

More X New Tab X Personal access tokens X +

https://github.com/settings/tokens

Pull requests Issues Marketplace Explore

Settings / Developer settings

GitHub Apps

OAuth Apps

Personal access tokens

## Personal access tokens

Generate new token

Need an API token for scripts or testing? [Generate a personal access token](#) for quick access to the [GitHub API](#).

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

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Step 017. You should see a form that has a huge number of checkboxes – and a “Note” field. Fill in the note with a title for this token and pick an expiration date. I usually make my tokens last for a year. I check all the boxes that are not indented as shown.

## New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

### Note

DemoToken

What's this token for?

### Expiration \*

No expiration  The token will never expire!

GitHub strongly recommends that you set an expiration date for your token to help keep your information secure. [Learn more](#)

### Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).

<input checked="" type="checkbox"/> <b>repo</b>	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input checked="" type="checkbox"/> <b>workflow</b>	Update GitHub Action workflows
<input checked="" type="checkbox"/> <b>write:packages</b>	Upload packages to GitHub Package Registry
<input checked="" type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input checked="" type="checkbox"/> <b>delete:packages</b>	Delete packages from GitHub Package Registry
<input checked="" type="checkbox"/> <b>admin:org</b>	Full control of orgs and teams, read and write org projects
<input checked="" type="checkbox"/> write:org	Read and write org and team membership, read and write org projects
<input checked="" type="checkbox"/> read:org	Read org and team membership, read org projects
<input checked="" type="checkbox"/> <b>admin:public_key</b>	Full control of user public keys
<input checked="" type="checkbox"/> write:public_key	Write user public keys
<input checked="" type="checkbox"/> read:public_key	Read user public keys
<input checked="" type="checkbox"/> <b>admin:repo_hook</b>	Full control of repository hooks
<input checked="" type="checkbox"/> write:repo_hook	Write repository hooks
<input checked="" type="checkbox"/> read:repo_hook	Read repository hooks
<input checked="" type="checkbox"/> <b>admin:org_hook</b>	Full control of organization hooks

<input checked="" type="checkbox"/> <b>admin:org_hooks</b>	Full control of organization hooks
<input checked="" type="checkbox"/> <b>gist</b>	Create gists
<input checked="" type="checkbox"/> <b>notifications</b>	Access notifications
<input checked="" type="checkbox"/> <b>user</b>	Update ALL user data
<input checked="" type="checkbox"/> read:user	Read ALL user profile data
<input checked="" type="checkbox"/> user:email	Access user email addresses (read-only)
<input checked="" type="checkbox"/> user:follow	Follow and unfollow users
<input checked="" type="checkbox"/> <b>delete_repo</b>	Delete repositories
<input checked="" type="checkbox"/> <b>write:discussion</b>	Read and write team discussions
<input checked="" type="checkbox"/> read:discussion	Read team discussions
<input checked="" type="checkbox"/> <b>admin:enterprise</b>	Full control of enterprises
<input checked="" type="checkbox"/> manage_runners:enterprise	Manage enterprise runners and runner-groups
<input checked="" type="checkbox"/> manage_billing:enterprise	Read and write enterprise billing data
<input checked="" type="checkbox"/> read:enterprise	Read enterprise profile data
<input checked="" type="checkbox"/> <b>admin:pgp_key</b>	Full control of public user GPG keys ( <a href="#">Developer Preview</a> )
<input checked="" type="checkbox"/> write:pgp_key	Write public user GPG keys
<input checked="" type="checkbox"/> read:pgp_key	Read public user GPG keys

[Generate token](#)[Cancel](#)

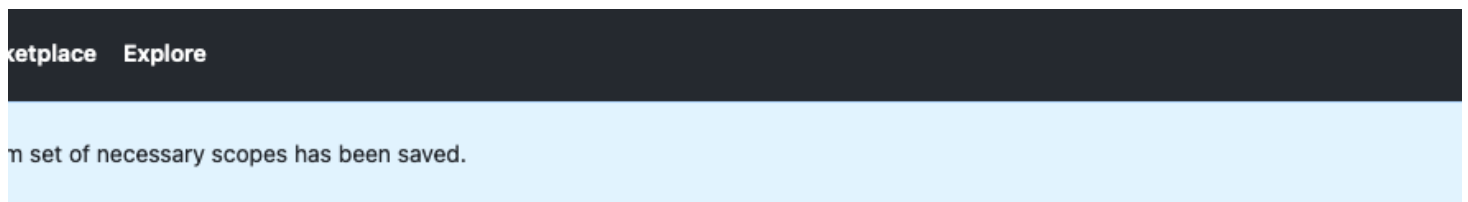
Step 018. You get a token in the light green box. Copy the token. Github will not have a copy of the token and it can not show it to you again. If you loose it you will need to create a new token. ( This is not the token that I use - I deleted this one and created a different one for this demo ) Put the token in a file that is *not* in your repository. Usually it is a good idea to put the token with it's expiration date into the same file that you saved your random login password in.

To use the token you have to save it in the configuration for this repository. I did the folowing

```
$ git remote remove origin  
$ git remote add origin https://ghp_B6900zDLyKPMv3VLJYbF3Mz2jBPSoa4gwhHY@github.com/pschlump72/Lab12  
$ git push -u origin main
```

The command with the token is `git remote add origin https://[token]@github.com/[user]/[repository]` with the appropriate stuff substituted in.

This is saved in a configuration file in `.git/config` . You can edit the file and see what is in it. Careful to not change it!



## Personal access tokens

[Generate new token](#)[Revoke all](#)

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your personal access token now. You won't be able to see it again!

✓ ghp\_WZXr7PtjKtUjHWUv9PwM30FrD5ex0o0uSVp4 

[Delete](#)

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Step 019. Now click on the "octa-cat" on the top left side to get back to the main github.com page. On the left you should see a list of your new repository - I named my Lab12, click on that.

The screenshot shows the GitHub homepage for user pschlump72. The left sidebar contains the 'Recent Repositories' section with a 'New' button and a search bar, and the 'Recent activity' section. The main content area features a 'Learn Git and GitHub without any code!' banner, a 'Following' tab, an 'Introduce yourself' section with a README template, and a 'Discover interesting projects and people to populate your personal news feed.' section.

Search or jump to... Pull requests Issues Marketplace Explore

**Recent Repositories** New

Find a repository...

pschlump72/lab12

**Recent activity**

When you take actions across GitHub, we'll provide links to that activity here.

**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](#)

**Following** **For you** Beta

**Introduce yourself**

The easiest way to introduce yourself on GitHub is by creating a README in a repository about you! You can start here:

```
pschlump72 / README.md
```

```
1 - 🙋 Hi, I'm @pschlump72
2 - 🤖 I'm interested in ...
3 - 🌱 I'm currently learning ...
4 - 💡 I'm looking to collaborate on ...
5 - 📫 How to reach me ...
6
```

[Dismiss this](#) [Continue](#)


**Discover interesting projects and people to populate your personal news feed.**

Your news feed helps you keep up with recent activity on repositories you [watch](#) or [star](#) and people you [follow](#).

[Explore GitHub](#)



Step 020. You should see the nearly empty readme.md file.



Pull requests

Issues

Marketplace

Explore

pschlump72 / lab12

Public

Pin

Unwatch 1

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

main


1 branch

0 tags

Go to file

Add file

Code



pschlump first commit

f080834 26 minutes ago 1 commit

README.md

first commit

26 minutes ago

README.md

lab12

About

No description, website, or topics provided.

Readme

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Step 021. Go and edit the file.

```
# lab12 - Create Github.com Repository
```

Step 022. Add the modifications

```
(base) philip@victoria Lab12 %  
(base) philip@victoria Lab12 % git add -A README.md  
(base) philip@victoria Lab12 % git commit -m "Demo of Change"  
[main ddf835b] Demo of Change  
1 file changed, 2 insertions(+), 1 deletion(-)  
(base) philip@victoria Lab12 % git push  
Enumerating objects: 5, done.  
Counting objects: 100% (5/5), done.  
Writing objects: 100% (3/3), 296 bytes | 296.00 KiB/s, done.  
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
remote: This repository moved. Please use the new location:  
remote: https://github.com/pschlump72/lab12.git  
To https://github.com/pschlump72/Lab12  
f080834..ddf835b main -> main  
(base) philip@victoria Lab12 %
```

## Step 023. Save them to github.com

The screenshot shows the GitHub interface for a repository named 'lab12' by user 'pschlump72'. The repository is public and has a README file. The README content is 'lab12 - Create Github.com Repository'. The repository has 1 branch (main) and 0 tags. The commit history shows a single commit 'ddf835b' from 1 minute ago with 2 commits in total. The right sidebar shows the repository's statistics: 0 stars, 1 watching, and 0 forks. The 'About' section is empty. The 'Releases' section shows no releases published. The 'Packages' section shows no packages published. The 'Contributors' section lists two contributors: 'pschlump' (Philip Schlump) and 'pschlump72'.

Search or jump to... Pull requests Issues Marketplace Explore

pschlump72 / lab12 Public

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

About

No description, website, or topics provided.

Readme

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Contributors 2

pschlump Philip Schlump

pschlump72

Yea! You are now a git user that can modify stuff and share it and save it.

## Create our Python Project Code

---

First let's get the display class working. The code is: [https://github.com/Univ-Wyo-Education/S22-1010/blob/main/class/lect/Lect-27/ins\\_hm/display/display.py](https://github.com/Univ-Wyo-Education/S22-1010/blob/main/class/lect/Lect-27/ins_hm/display/display.py)

Create a directory in our project called 'display' and one called 'words'.

```
$ cd Lab12          # if you are not already there
$ mkdir display
$ mkdir words
$ cd display
$ pwd
```

Use VSCode - navigate to the "display" directory and cut/paste the code for it into a file called display.py. Save it and then we can test it.

Run the code. Enter some numbers between 0 and 7 and see that it shows the correct output.

At the command line add your file to the repository.

```
$ git add display.py
$ git commit -m "Shows the ASCII art image"
$ git push
```

Go and edit the code and put a comment in it - explain what it is doing.

Now we will push the changes up.

```
$ git add display.py
$ git commit -m "Added Comment"
$ git push
```

You should be able to see the log on the changes that you have made.

```
$ git log
```

and go to <https://github.com> and look at your directory and changes online.

## Add the "words" code.

---

Get to the correct directory.

```
$ cd ../words
$ pwd
```

Do a similar process to create the pick\_word.py file, it is on github.com at: [https://github.com/Univ-Wyo-Education/S22-1010/blob/main/class/lect/Lect-27/ins\\_hm/words/pick\\_word.py](https://github.com/Univ-Wyo-Education/S22-1010/blob/main/class/lect/Lect-27/ins_hm/words/pick_word.py)

It is missing some code in the 'guessLetter' method/function a line 647. The code is to record a picked letter. We will add the code in a second.

First create and push up the file. Navigate to the correct directory in VSCode. Create the file so that it is in the ./words directory. The file needs to be named pick\_word.py . If you do a ls command you should see

```
$ ls
pick_word.py
$ ls ../display
display.py
$ ls ..
README.md
display
words
```

Let's save the file to github.com, then we will add the missing code and push it up a 2nd time.

```
$ git add pick_word.py
$ git commit -m "initial code with some missing"
$ git push
```

Let's add the missing code to

In VSCode change the function

```
def guessLetter ( self, letter ) :
    return False
```

To look like this. The function is near line 647

```
def guessLetter ( self, letter ) :
    if letter not in self.letters_picked:
        self.letters_picked = self.letters_picked + letter
    if letter in self.word:
        self.n_success += 1
    else:
        self.n_incorrect_letters += 1
    if self.n_incorrect_letters > 8:
        return True
    return False
```

## Checkin the result

---

Test the code interactively by running it.

Now save the changes

```
$ git add pick_word.py
$ git commit -m "Fixed guessLetter to save a guess"
$ git push
```

You should now see both sets of code on you <https://github.com> site.

## The main program.

---

A similar process. [https://github.com/Univ-Wyo-Education/S22-1010/blob/main/class/lect/Lect-27/ins\\_hm/hangman.py](https://github.com/Univ-Wyo-Education/S22-1010/blob/main/class/lect/Lect-27/ins_hm/hangman.py)

Copy the code.

Go up 1 level and edit in VSCode to create the file.

```
$ cd ..  
$ ls  
README.md  
display  
hangman.py  
words
```

You should be able to run the hangman.py code now.

Give it a test.

now add it to the repository.

```
$ git add hangman.py  
$ git commit -m "Main program added"  
$ git push
```

## Capture Screen - to turn in for Lab

---

Yes just do a screen capture of your [https://github.com/\[User\]/Lab12](https://github.com/[User]/Lab12) and turn that in. (Use your username in the URL)