Setting Up Git and GitHub with SSH on a New Mac

1. Install Git

Open Terminal and run:

```
git --version
```

If Git is not installed, follow the prompts to install Xcode Command Line Tools.

2. Create a GitHub Account

Go to https://github.com and sign up if you don't have an account.

3. Generate a New SSH Key

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```

- Replace with your GitHub email.
- Press Enter to accept the default location.
- Enter a passphrase (optional) or press Enter for none.

4. Start the SSH Agent and Add Your Key

```
eval "$(ssh-agent -s)"
ssh-add ~/.ssh/id_ed25519
```

5. Add Your SSH Key to GitHub

- Copy your public key:

```
pbcopy < ~/.ssh/id_ed25519.pub
```

- Go to https://github.com/settings/keys
- Click "New SSH key", paste the key, give it a name, and save.

6. Test Your SSH Connection

```
ssh -T git@github.com
```

- Type "yes" if prompted.
- You should see a welcome message.

7. Clone a Repo or Set Up a New One

- To clone:

```
git clone git@github.com:username/repo.git
```

- To create a new repo:
  - On GitHub, click "New repository" and follow the instructions.
  - Initialize your local folder:

```
git init
git remote add origin git@github.com:username/repo.git
```

8. Make Changes, Stage, Commit, and Push

- Edit or add files.
- Stage:

```
git add .
```

- Commit:

```
git commit -m "Your message"
```

- Push:

```
git push origin main
```

  (or `master` if your branch is named that)

You're all set!