



Remote Repos and Github



Remote repos - Set up and Push

- `$git remote add alias remote_url`
 - Link remote repo with yours
- `origin` - default alias for a cloned repo
- `$git push alias branch_name`
 - Push changes to your branch out
- `$git push alias l_b_n:r_b_n`
 - Where `l_b_n` is local branch name and `r_b_n` is remote branch name
 - If you want to push to a different remote branch

Remote repos - Fetch and Merge

- `$git fetch alias`
 - Synchronize your repo with remote repo
- `git fetch --all`
 - Synchronize with all remote repos
- `$git merge alias/branch_name`
 - Merge the latest changes from a remote branch into your local branch

Github

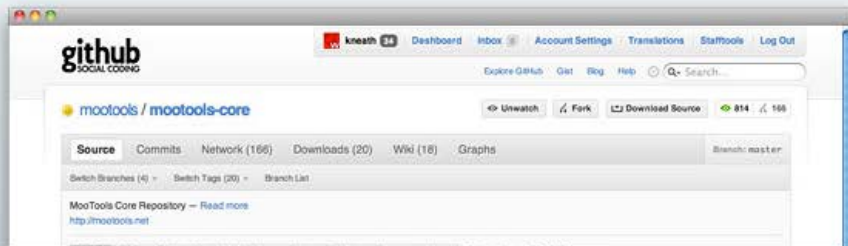
- Web-based hosting service for software projects that use Git
- Why use Github?
 - Community-oriented
 - Social networking functionality
 - Feeds, followers, watching projects...
 - Funky social networking graphs
 - Pull requests
 - Wiki, Issue tracking

Features

Project Management

Code Hosting

Community

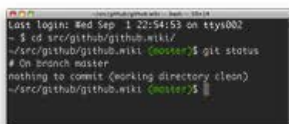


Every repository on GitHub comes with the tools needed to manage your project. Open to the community for public projects – secured for private projects.



Collaboration

manage large teams with ease



Git Powered Wikis

clone, push, branch and tag it



Integrated Issue Tracking

bug tracking tied to commits



Code Review

living discussions about code

Manage Teams with Organizations

Whether you're running an open source project or a Fortune 500 company, Organizations simplify team management.

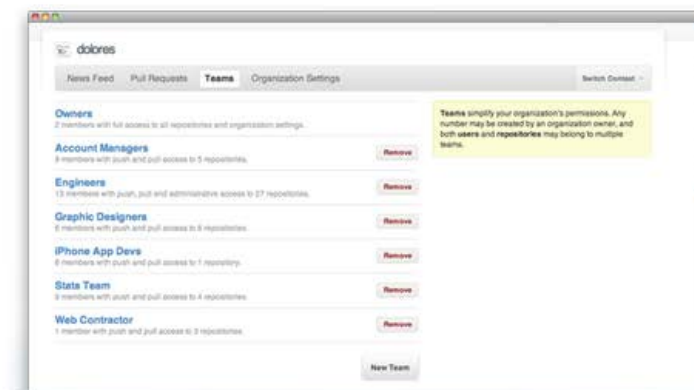
With **teams** you can give your developers as much or as little power as they need, from the ability to create projects on behalf of your organization to read-only access on existing projects.

Team permissions: Read-only, read-write, and admin-level access.

Best of all: create **as many** teams with as many members as you need. There are no limits on teams or their members.

Shared Administration

Organizations allow the people who oversee your group's billing information and the people who oversee team management to work together brilliantly using their existing, free GitHub accounts.



Teams control access to your organization's code, making it easy to add or remove people from many repositories at once.

Create a Github user account

[Pricing and Signup](#)[Explore GitHub](#)[Features](#)[Blog](#)[Login](#)

Plans & Pricing

Join today and collaborate with the smartest developers in the world.

\$0/mo

Free for open source

Unlimited public repositories and **unlimited** public collaborators

[Create a free account](#)

Micro

\$7/mo

5 Private Repositories
1 Private Collaborator

Unlimited public repositories

Unlimited public collaborators

[Create an account](#)

Small

\$12/mo

10 Private Repositories
5 Private Collaborators

Unlimited public repositories

Unlimited public collaborators

[Create an account](#)

Medium

\$22/mo

20 Private Repositories
10 Private Collaborators

Unlimited public repositories

Unlimited public collaborators

[Create an account](#)

Create a Github user account

Sign up for GitHub

[Log in to an existing account](#)

\$0/mo

You are signing up for the **free** planThe cost for this plan is **\$0 per month**. You can cancel, downgrade, or upgrade at any time.

Create your free personal account

Username

jhu-ror1

Your username, **not** your company's username.

Email Address

[redacted]@yahoo.com



We promise we won't share your email with anyone.

Password



Must contain one lowercase letter, one number, and be at least 7 characters long

Confirm Password

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

[Create an account](#)

facebook

EMI

YAHOO!

37signals



You're joining the smartest companies in the world

- ✓ Email support
- ✓ Upgrade, downgrade or cancel at any time
- ✓ Secure, reliable, always-available repository hosting

Class Github account

The screenshot shows the GitHub web interface. At the top, the navigation bar includes the GitHub logo, a search bar, and links for Explore, Gist, Blog, and Help. The user's profile is shown as 'kalmanh'. Below the navigation bar, a dropdown menu is open for the 'kalmanh' account. The menu is titled 'Switch account context' and lists three options: 'kalmanh' (checked), 'RubyOnRails-JHU-605-484', and 'Loyola-CS750' (highlighted in blue). Below these options are links for 'Manage Organizations' and '+ Create Organization'. A red arrow points to the 'Loyola-CS750' option. Another red arrow points to the 'kalmanh' profile picture in the top navigation bar. The background shows the main content area with tabs for Pull Requests, Issues, and Stars. A green banner for 'Introducing Octokit' is visible, along with a section titled 'Repositories you contribute to' showing 'RubyOnRails-J.../jhu-ror-2012'.

Search or type a command ? ⚙ Explore Gist Blog Help

kalmanh

ProTip™ You can create and checkout a branch in one command with `git checkout -b`.

News Feed

Switch account context

- ✓ kalmanh
- RubyOnRails-JHU-605-484
- ✓ Loyola-CS750

Manage Organizations

+ Create Organization

Pull Requests Issues Stars

Introducing Octokit
Official client libraries for the GitHub API

hide this broadcast View 93 new broadcasts

Repositories you contribute to

RubyOnRails-J.../jhu-ror-2012 0 ★

Class Github account



jhu-ror1

[Dashboard](#)[Inbox](#)[Account Settings](#)[Log Out](#)[Explore GitHub](#)[Gist](#)[Blog](#)[Help](#)

RubyOnRails-JHU-605-484

[News Feed](#)**News Feed**[Pull Requests](#)[Teams](#)**RubyOnRails-JHU-605-484** created repository **homeworks-team0** 4 minutes agoNew repository is at [RubyOnRails-JHU-605-484/homeworks-team0](#)**RubyOnRails-JHU-605-484** added **RubyOnRails-JHU-605-484/homeworks-team0** to **team0** 4 minutes ago**team0** grants 2 users push access to 1 repository**RubyOnRails-JHU-605-484** added **jhu-ror2** to **team0** 5 minutes ago**team0** grants 2 users push access to 1 repository


Repositories (1)

All Repositories[Public](#)[Private](#)[Sources](#)[Forks](#)**RubyOnRails-JHU-605-484/homeworks-team0**

Your private
repository

Before you can access your repo

- 2 ways to access your private repo
 1. (Either) Using the `git` protocol
(Often not available behind a corporate firewall!)



```
C:\Windows\system32\cmd.exe

C:\>publickey
Your public ssh key has been copied to your clipboard.

C:\>
```

github

Search...

Explore Gist Blog Help

kalmanh



kalmanh

Profile

Account Settings

Emails

Notification Center

Billing

Payment History

SSH Keys

Security History

Applications

Repositories

Organizations

PRIVATE REPOS 0 OF 0

RubyOnRails-JHU-605-484

Public Profile

Name

Kalman Hazins

Email (will be public)

kalmanh@gmail.com

URL

http://jhu-ror.herokuapp.com

Company

Johns Hopkins University

Location

Baltimore, MD

github

Search...

Explore Gist Blog Help

kalmanh



kalmanh

Profile

Account Settings

Emails

Notification Center

Billing

Payment History

SSH Keys

Need help? Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH Problems](#)

SSH Keys

Add SSH key

GitHub for Windows - KalmanHazins-HP (ea:d0:45:f4:d6:40:07:ce:13:3d:b1:6d:4d:4e:26:4a)

Delete

work_computer (58:ce:63:37:90:17:66:9e:28:a1:ad:be:60:e6:a2:49)

Delete

Before you can access your repo

2. (Or) Using https protocol

- No set up required
- Just use the correct URL and
- The password to your github account
- Available behind a firewall



jhu-ror1 Dashboard Inbox 0 Account Settings Log Out

Explore GitHub Gist Blog Help Search...

RubyOnRails-JHU-605-484 / homeworks-team0

This repository's default branch is empty! Watch 1 1

Source Commits Network Pull Requests (0) Fork Queue Issues (0) Wiki (0) Graphs Tree: master

SSH HTTP https://jhu-ror1@github.com/RubyOnRails-JHU-605 Read+Write access

Downloads

Global setup:

```
Set up git
git config --global user.name "Your Name"
git config --global user.email "jhu-ror1@jhu.edu"
Add your public key
```

Next steps:

```
mkdir homeworks-team0
cd homeworks-team0
git init
touch README
git add README
git commit -m 'first commit'
git remote add origin git@github.com:RubyOnRails-JHU-605-484/homeworks-team0.git
git push -u origin master
```

Existing Git Repo?

```
cd existing_git_repo
git remote add origin git@github.com:RubyOnRails-JHU-605-484/homeworks-team0.git
git push -u origin master
```

Use https: protocol
instead - much more
flexible!!!

2 biggest gotchas for SVN folks

1. Need to re-add tracked files after modifying (unless using `-a` flag when committing to skip the staging directory)
2. No `trunk/branches/tags` directory structure. Instead, you have one big tree and the `.git` directory (repo) “drives” what’s in your working directory