

# **LESGO code and Github**

Ghanesh Narasimhan

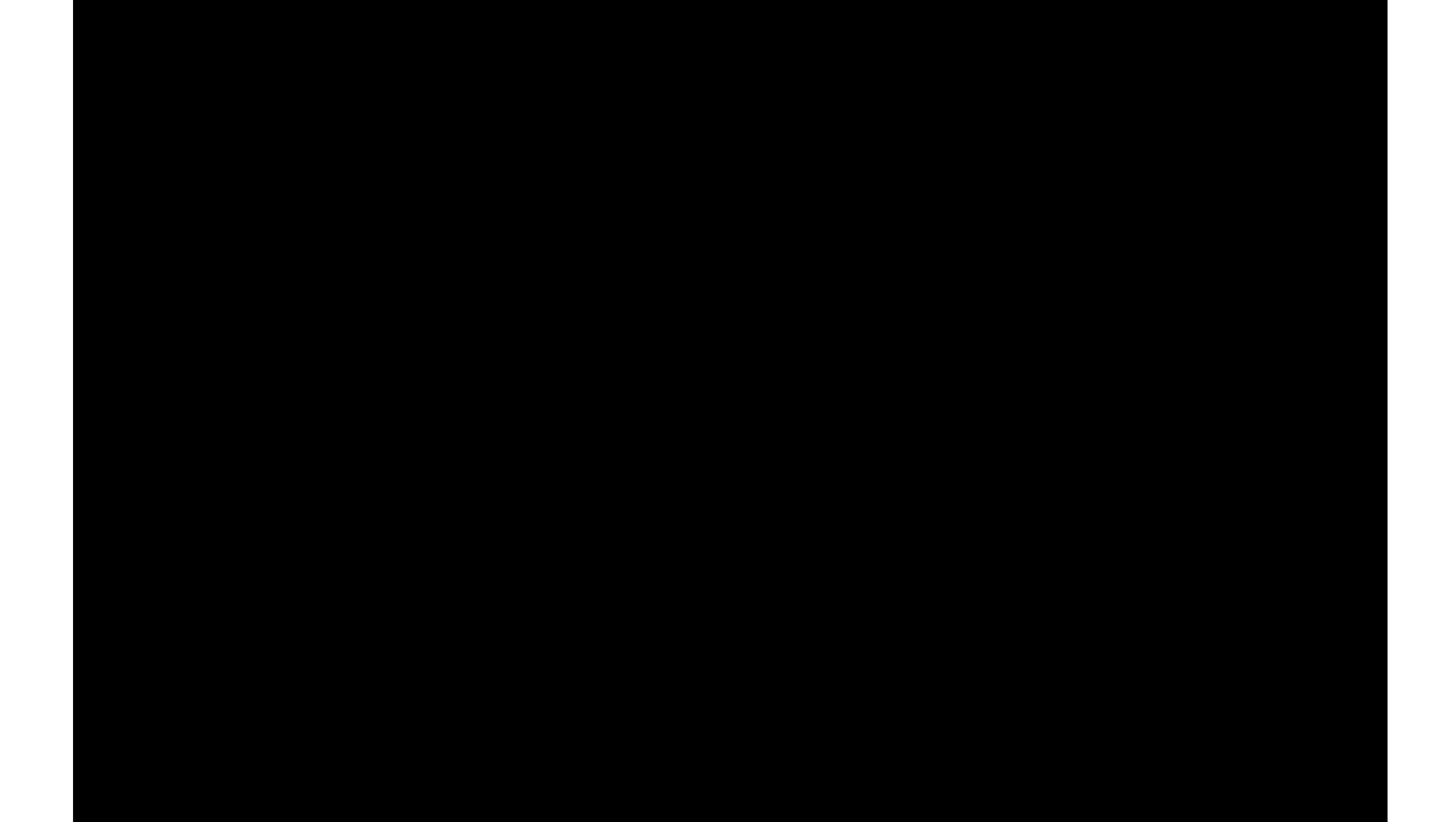
# Insert Web Page

This app allows you to insert secure web pages starting with https:// into the slide deck. Non-secure web pages are not supported for security reasons.

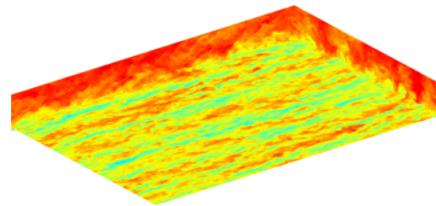
Please enter the URL below.

https:// lesgo.me.jhu.edu/

Note: Many popular websites allow secure access. Please click on the preview button to ensure the web page is accessible.



# LESGO

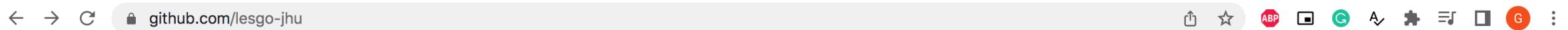


Download  
ZIP File

Download  
TAR Ball

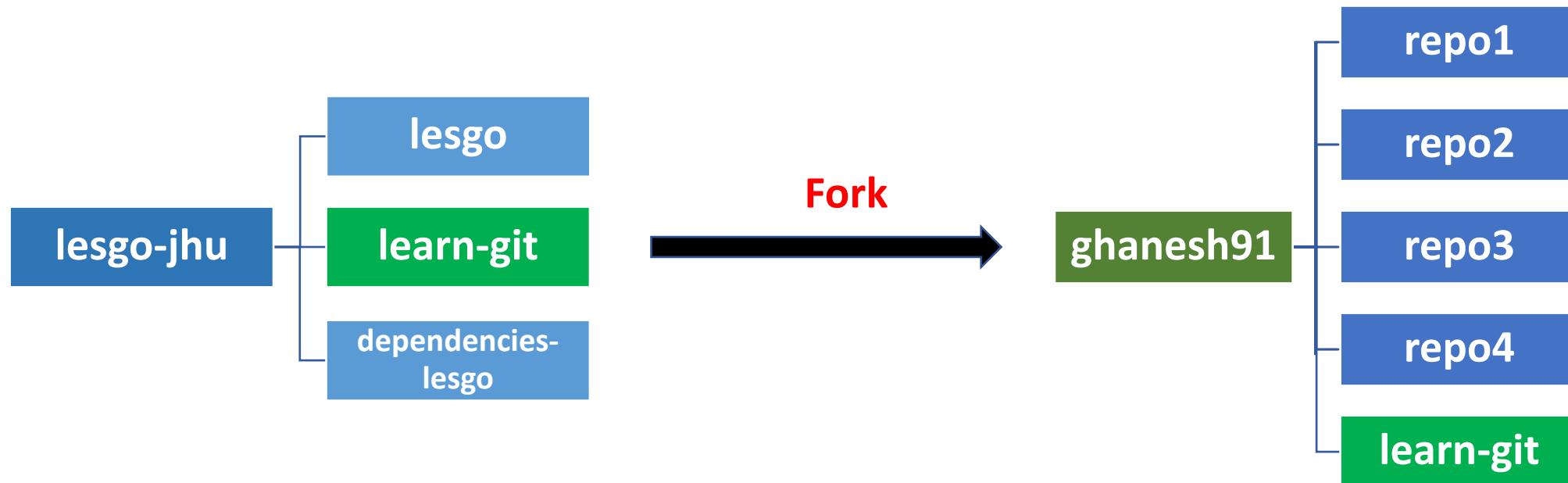
View On  
GitHub

LESGO is a parallel pseudo-spectral  
large-eddy simulation code.



<https://github.com/lesgo-jhu>

<https://github.com/ghanesh91>



# Forking

github.com/ghanesh91/learn-git

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

ghanesh91 / learn-git Public forked from lesgo-jhu/learn-git

Code Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags Go to file Add file Code

This branch is up to date with lesgo-jhu/learn-git:master. Contribute Fetch upstream

 crshapiro Merge pull request <a href="#">lesgo-jhu#6</a> from baminnick/master ...	5d8888b on Jan 31, 2019	11 commits
 hello	Merge pull request <a href="#">lesgo-jhu#6</a> from baminnick/master	3 years ago
 ltx	Add tutorial for using git.	3 years ago
 LICENSE	Initial commit	3 years ago
 README.md	Merge pull request <a href="#">lesgo-jhu#5</a> from gmstarke/master	3 years ago

About A demonstration repository for learning how to use git and github

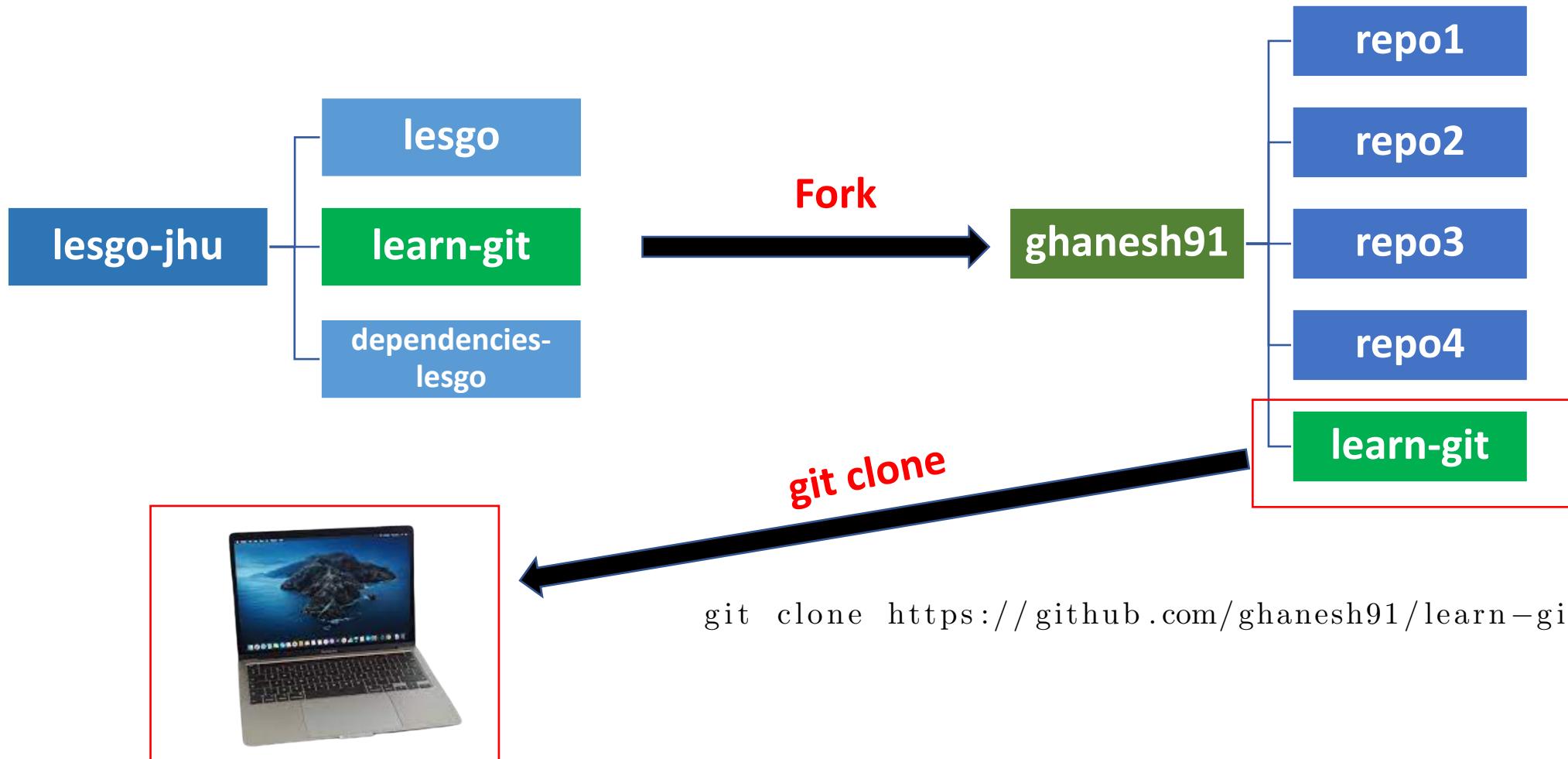
Readme GPL-3.0 License 0 stars 0 watching 8 forks

Releases

# git clone – copy file to local machine

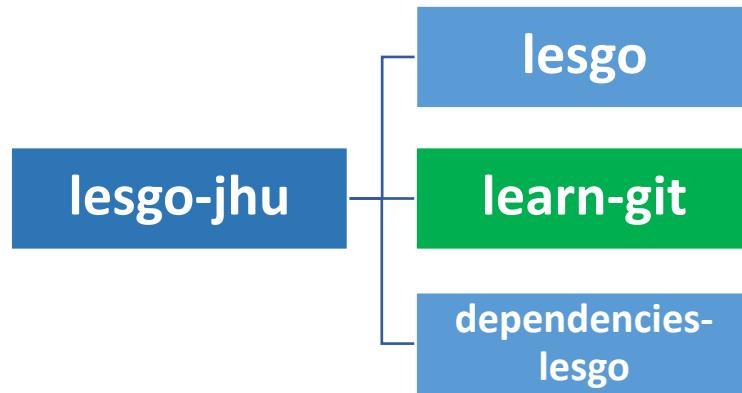
<https://github.com/lesgo-jhu>

<https://github.com/ghanesh91>

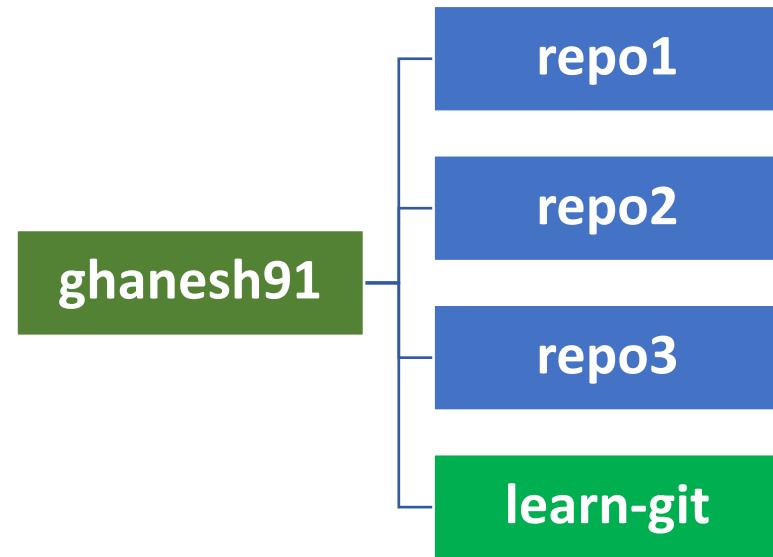


# local machine - ORIGIN and UPSTREAM

<https://github.com/lesgo-jhu/learn-git> (UPSTREAM)



<https://github.com/ghanesh91/learn-git> (ORIGIN)



```
git remote show origin
```

```
* remote origin
  Fetch URL: https://github.com/ghanesh91/learn-git
```

```
git remote add upstream https://github.com/lesgo-jhu/learn-git
git remote show upstream
```

```
* remote upstream
  Fetch URL: https://github.com/lesgo-jhu/learn-git
```



# Updating changes to a code – git status

<https://github.com/ghanesh91/learn-git>

README.md file

```
learn-git

A demonstration repository for learning how to use git and github

Hello World programs

Find a collection of Hello World programs in various langagues in hello/
• Fortran: gfortran hello.f90 -o hello
• C: gcc hello.c -o hello
• Python: python3 hello.py
• Matlab: hello.m
```

git status

Local machine

```
learn-git — vi README.md — 44×29
...U/LESGO/git_lesgo/learn-git — vi README.md + 

# learn-git
A demonstration repository for learning how
to use git and github

## Hello World programs
Find a collection of Hello World programs in
various langagues in hello/
* Fortran: gfortran hello.f90 -o hello
* C: gcc hello.c -o hello
* Python: python3 hello.py

* Matlab: hello.m
* added this line on local machine
```

```
(base) Ghaneshs-MacBook-Pro:learn-git ghanesh$ git status
On branch master
Your branch is up to date with 'origin/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:   README.md
```

```
no changes added to commit (use "git add" and/or "git commit -a")
```

# Updating changes to a code – git add

<https://github.com/ghanesh91/learn-git>

README.md file

The screenshot shows the GitHub README.md page for the 'learn-git' repository. The page title is 'learn-git'. Below it is a brief description: 'A demonstration repository for learning how to use git and github'. A section titled 'Hello World programs' contains a list of compilers and their command-line arguments to generate a 'hello' program: Fortran (gfortran hello.f90 -o hello), C (gcc hello.c -o hello), Python (python3 hello.py), and Matlab (hello.m). The entire content is enclosed in a light green border.

```
learn-git
A demonstration repository for learning how to use git and github
Hello World programs
Find a collection of Hello World programs in various langagues in hello/
• Fortran: gfortran hello.f90 -o hello
• C: gcc hello.c -o hello
• Python: python3 hello.py
• Matlab: hello.m
```

```
git add <file>
git status
```

Local machine

The screenshot shows a terminal window titled 'learn-git — vi README.md — 44x29'. It displays the same content as the GitHub README.md page, including the header, the 'Hello World programs' section, and the list of compilers. The last line of the file, 'added this line on local machine', is highlighted in blue, indicating it is a new or updated line.

```
# learn-git
A demonstration repository for learning how
to use git and github

## Hello World programs
Find a collection of Hello World programs in
various langagues in hello/
* Fortran: gfortran hello.f90 -o hello
* C: gcc hello.c -o hello
* Python: python3 hello.py

* Matlab: hello.m
* added this line on local machine
```

```
(base) Ghaneshs-MacBook-Pro:learn-git ghanesh$ git add README.md
(base) Ghaneshs-MacBook-Pro:learn-git ghanesh$ git status
On branch master
Your branch is up to date with 'origin/master'.

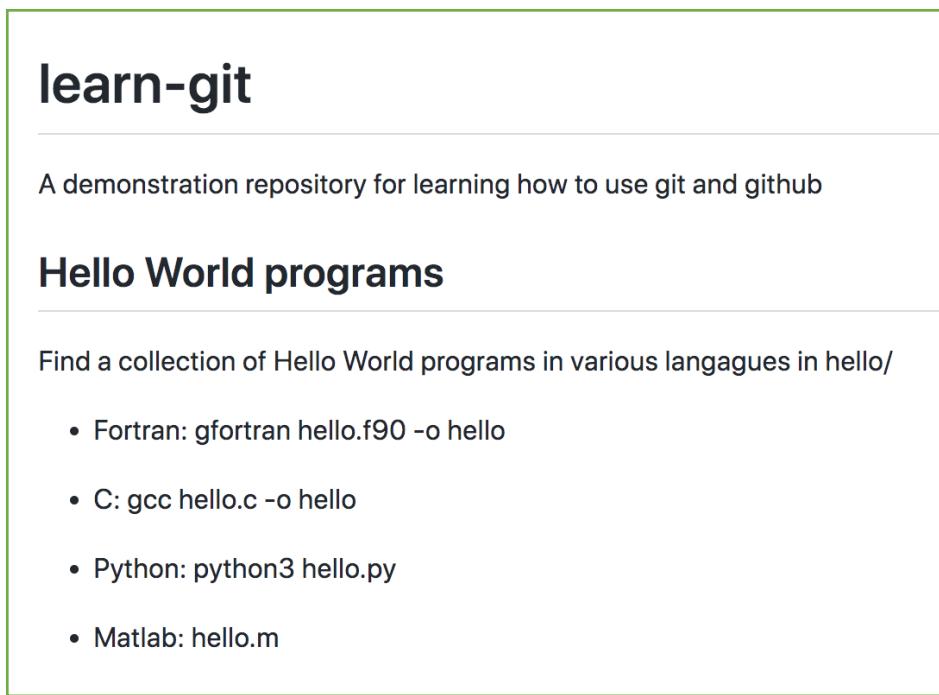
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   README.md
```

# Updating changes to a code – git commit

<https://github.com/ghanesh91/learn-git>

README.md file



The screenshot shows the GitHub README.md page for the 'learn-git' repository. The page title is 'learn-git'. Below it is a brief description: 'A demonstration repository for learning how to use git and github'. A section titled 'Hello World programs' contains a list of compilers and their command-line arguments to generate a 'Hello World' program in various languages: Fortran, C, Python, and Matlab.

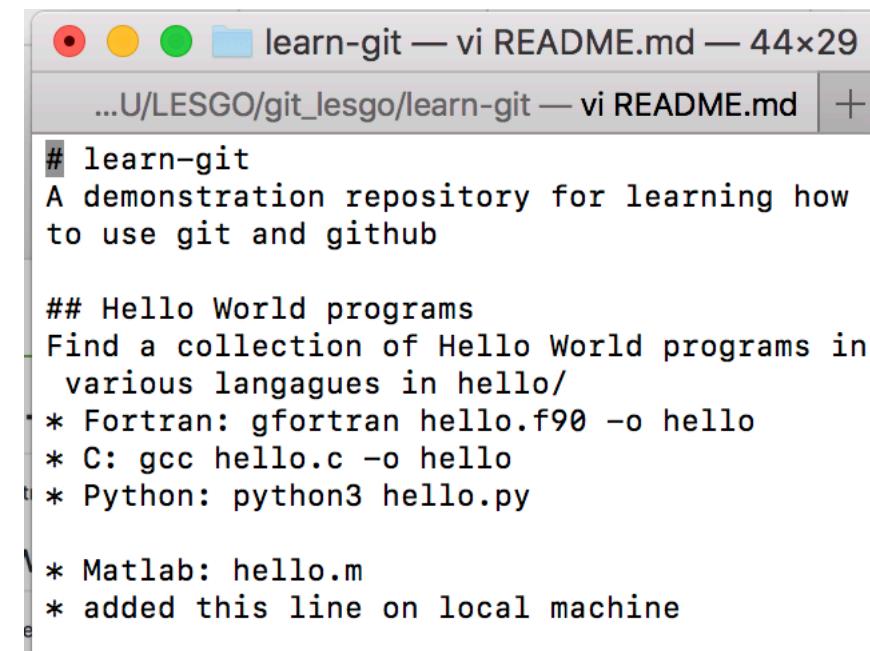
```
learn-git

A demonstration repository for learning how to use git and github

Hello World programs

Find a collection of Hello World programs in various langagues in hello/
• Fortran: gfortran hello.f90 -o hello
• C: gcc hello.c -o hello
• Python: python3 hello.py
• Matlab: hello.m
```

Local machine



The screenshot shows a terminal window titled 'learn-git — vi README.md — 44x29'. The window displays the same README content as the GitHub page, including the 'Hello World programs' section. At the bottom of the file, there is an additional line of text: '\* added this line on local machine'.

```
# learn-git
A demonstration repository for learning how
to use git and github

## Hello World programs
Find a collection of Hello World programs in
various langagues in hello/
* Fortran: gfortran hello.f90 -o hello
* C: gcc hello.c -o hello
* Python: python3 hello.py

* Matlab: hello.m
* added this line on local machine
```

git commit -m "message"

```
(base) Ghaneshs-MacBook-Pro:learn-git ghanesh$ git commit -m "updated README.md file"
[master c60d01f] updated README.md file
 1 file changed, 1 insertion(+)
```

# Updating changes to a code – git push

<https://github.com/ghanesh91/learn-git>

README.md file

The screenshot shows the GitHub README.md page for the 'learn-git' repository. The page title is 'learn-git'. Below it is a brief description: 'A demonstration repository for learning how to use git and github'. Under the heading 'Hello World programs', there is a section describing how to find Hello World programs in various languages. A bulleted list follows:

- Fortran: gfortran hello.f90 -o hello
- C: gcc hello.c -o hello
- Python: python3 hello.py
- Matlab: hello.m

A red box highlights the final item in the list: '• added this line on local machine'.

git push

Local machine

The screenshot shows a terminal window titled 'learn-git — vi README.md — 44x29'. The window displays the same README content as the GitHub page, including the 'Hello World programs' section. The terminal shows the command '# learn-git' followed by the repository description and the 'Hello World programs' section. The last line of the terminal output is 'e'.

```
(base) Ghaneshs-MacBook-Pro:learn-git ghanesh$ git push
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 410 bytes | 410.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/ghanesh91/learn-git
  5d8888b..c60d01f master -> master
```

# Updating changes to a code

github.com/ghanesh91/learn-git

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

ghanesh91 / learn-git Public forked from lesgo-jhu/learn-git

Code Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags Go to file Add file Code

This branch is 1 commit ahead of lesgo-jhu/learn-git:master. Contribute Fetch upstream

ghanesh91 updated README.md file c60d01f 36 minutes ago 12 commits

hello	Merge pull request lesgo-jhu#6 from baminnick/master	3 years ago
ltx	Add tutorial for using git.	3 years ago
LICENSE	Initial commit	3 years ago
README.md	updated README.md file	36 minutes ago

About A demonstration repository for learning how to use git and github

Readme GPL-3.0 License 0 stars 0 watching 8 forks

Releases

```
git status  
git add <file>  
git status  
git commit -m "message"  
git push
```

# Pull request – make changes in main repo

A screenshot of a web browser showing the GitHub pull requests page for the repository `ghanesh91/learn-git`. The URL in the address bar is `github.com/ghanesh91/learn-git/pulls`. The page title is "Pull request – make changes in main repo". The navigation bar includes links for "Pull requests", "Issues", "Marketplace", and "Explore". On the right side of the header are icons for "Pin", "Watch 0", "Fork 8", and "Star 0". Below the header, the repository name is shown as "ghanesh91 / learn-git (Public)" and it is noted as "forked from lesgo-jhu/learn-git". The main navigation tabs are "Code", "Pull requests" (which is selected), "Actions", "Projects", "Wiki", "Security", "Insights", and "Settings". A search bar contains the query "is:pr is:open". To the right of the search bar are buttons for "Labels 9", "Milestones 0", and a prominent green "New pull request" button, which is enclosed in a red rectangular box. The central content area features a large "Welcome to pull requests!" message with a small icon above it. Below the message, text explains that pull requests help collaborate on code and encourages creating a new pull request. At the bottom, a "ProTip!" section suggests excluding your own issues with the command `-author:ghanesh91`.

💡 **ProTip!** Exclude your own issues with `-author:ghanesh91`.

# Pull request – make changes in main repo

github.com/lesgo-jhu/learn-git/compare/master...ghanesh91:master

Search or jump to... Pull requests Issues Marketplace Explore Watch 5 Fork 8 Star 0

lesgo-jhu / learn-git Public

Code Issues Pull requests Actions Projects Wiki Security Insights

## 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 repository: lesgo-jhu/learn-git base: master ← head repository: ghanesh91/learn-git compare: master ✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

Create pull request

-o 2 commits 1 file changed 1 contributor

Commits on Mar 27, 2022

updated README.md file  
ghanesh91 committed 1 hour ago

Unverified c60d01f

Updated README.md file  
ghanesh91 committed 8 minutes ago

Unverified 8e6766c

Showing 1 changed file with 2 additions and 0 deletions.

Split Unified

# Pull request – make changes in main repo

The screenshot shows the GitHub repository page for 'lesgo-jhu / learn-git'. The 'Code' tab is selected. A prominent 'Open a pull request' button is at the top. Below it, a message says 'Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#)'. A status bar indicates 'base repository: lesgo-jhu/learn-git', 'base: master', 'head repository: ghanesh91/learn-git', and 'compare: master'. A green checkmark says 'Able to merge. These branches can be automatically merged.' On the left, there's a rich text editor for writing a pull request message, with a preview tab and a toolbar. A comment section is below it. On the right, there are 'Helpful resources' like 'GitHub Community Guidelines'. At the bottom, there's a checkbox for 'Allow edits by maintainers' and a large green 'Create pull request' button, which is highlighted with a red box.

# Pull request – make changes in main repo

github.com/lesgo-jhu/learn-git/pull/7

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

lesgo-jhu / learn-git Public Watch 5 Fork 8 Star 0

Code Issues Pull requests 1 Actions Projects Wiki Security Insights

## Updated README.md file #7

**Open** ghanesh91 wants to merge 2 commits into `lesgo-jhu:master` from `ghanesh91:master`

Conversation 0 Commits 2 Checks 0 Files changed 1 +2 -0

ghanesh91 commented now Member

No description provided.

ghanesh91 added 2 commits 1 hour ago

updated README.md file Unverified c60d01f  
Updated README.md file Unverified 8e6766c

Add more commits by pushing to the `master` branch on [ghanesh91/learn-git](#).

This branch has no conflicts with the base branch

Only those with [write access](#) to this repository can merge pull requests.

Reviewers  
No reviews  
Still in progress? Convert to draft

Assignees  
No one assigned

Labels  
None yet

Projects  
None yet

Milestone

## Final steps

Once the changes are approved by the admin, update **origin** to be in the same level as the **upstream**.

```
git fetch upstream  
git rebase upstream/master  
git push -f
```

### Other important features

**git branch** - <https://www.atlassian.com/git/tutorials/using-branches>

**git merge** - <https://www.atlassian.com/git/tutorials/using-branches/git-merge>

**git rebase** - <https://www.atlassian.com/git/tutorials/rewriting-history/git-rebase>

**rebase vs merge** - <https://www.youtube.com/watch?v=dO9BtPDIHJ8>