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# Githubの 使い方

+ windowsPowerSell

※Gitコマンド使用



# Gitをダウンロードしてね

– <https://proengineer.internous.co.jp/content/columnfeature/6893>



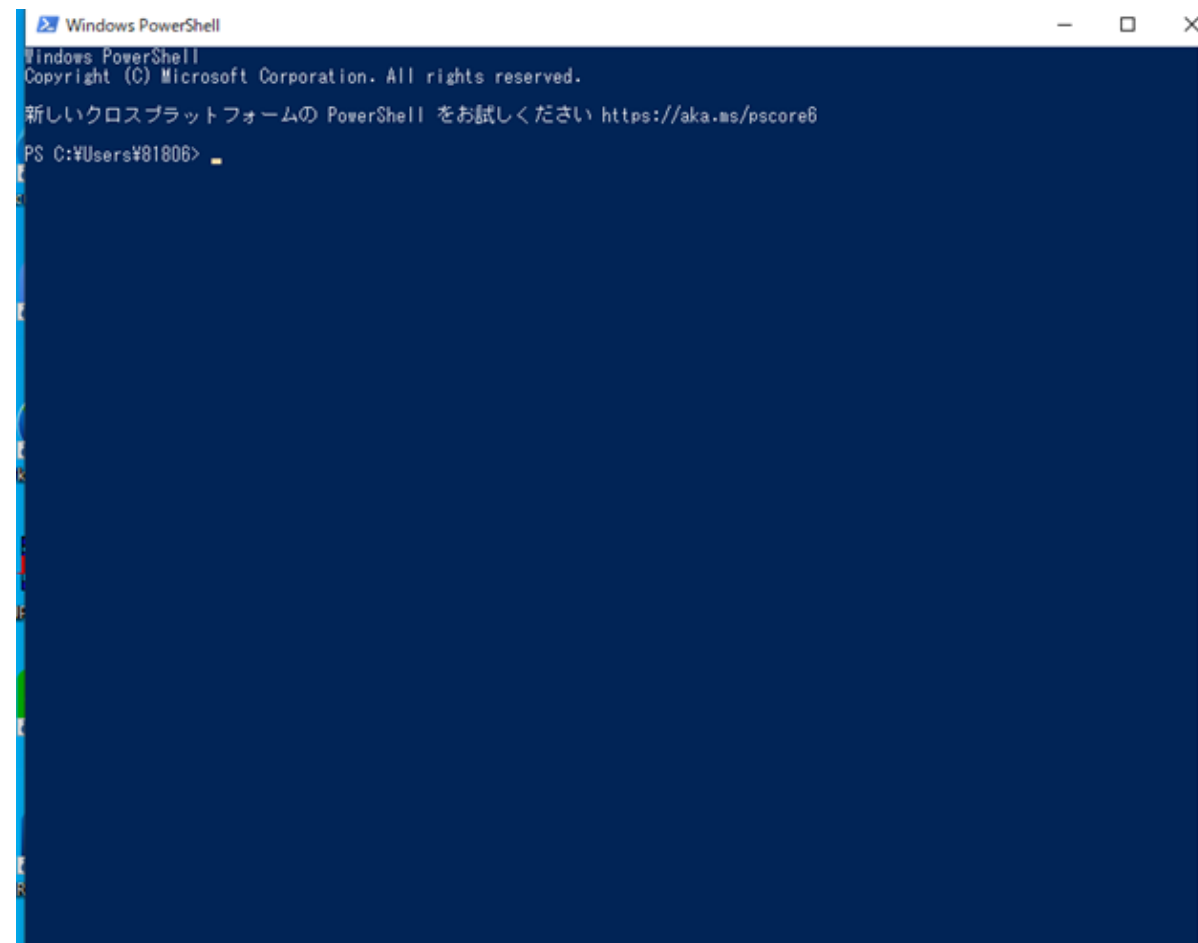
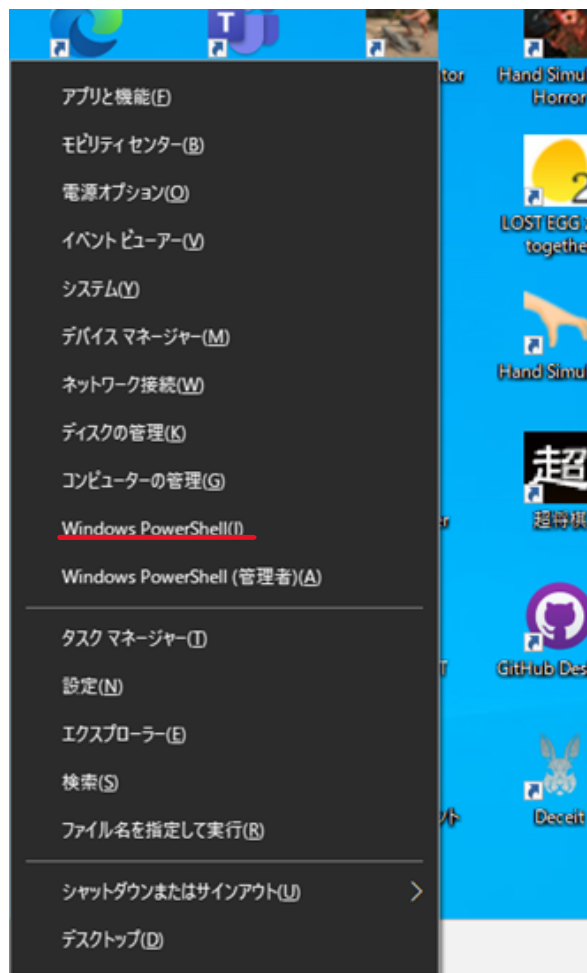
# Windows Powershellの使い方

Powershellの出し方

– Windowsキーとxを同時押し

– その後iを入力





スタートボタンを右クリックでもできるよ

# Windows Powershellの使い方

- ls :今いるディレクトリの中にあるディレクトリを参照
- cd <ディレクトリ名> :ディレクトリの移動 ※中にあるディレクトリにしか行けないので注意
- cd .. :ひとつ前のディレクトリに戻る

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

新しいクロスプラットフォームの PowerShell をお試しください https://aka.ms/pscore6

PS C:\Users\81806> ls

ディレクトリ: C:\Users\81806

Mode                LastWriteTime         Length Name
----                -
d-r---          2021/04/04          9:31        3D Objects
d-r---          2021/04/04          9:31        Contacts
d-r---          2022/04/21         21:49        Desktop
d-r---          2022/04/24         21:10        Documents
d-r---          2022/04/23         11:19        Downloads
d-r---          2021/04/04          9:31        Favorites
d-----          2022/04/22         14:44        github
d-r---          2021/04/04          9:31        Links
d-r---          2021/04/04         10:13        Music
dar--l          2021/08/09         21:37        OneDrive
d-r---          2022/01/11          7:40        Pictures
d-r---          2022/04/21         17:00        Saved Games
d-r---          2021/04/04          9:32        Searches
d-----          2021/11/05         20:57        source
d-r---          2021/05/21         16:29        Videos
-a----          2022/04/24         21:23        2000 .bash_history
-a----          2022/04/21         16:22        184 .gitconfig
-a----          2022/04/25         19:28        20 .lessht
-a----          2022/04/21         16:30        763 .viminfo

PS C:\Users\81806> cd documents
PS C:\Users\81806\documents>
```

今いる場所 →

# Windows Powershellの使い方

- mkdir <名前>:ディレクトリを作成

```
PS C:\Users\81806\documents\unitystudy> cd akol
PS C:\Users\81806\documents\unitystudy\akol> ls
PS C:\Users\81806\documents\unitystudy\akol> mkdir ken

ディレクトリ: C:\Users\81806\documents\unitystudy\akol

Mode                LastWriteTime         Length Name
----                -
d-----          2022/04/25      19:00             ken

PS C:\Users\81806\documents\unitystudy\akol> ls

ディレクトリ: C:\Users\81806\documents\unitystudy\akol

Mode                LastWriteTime         Length Name
----                -
d-----          2022/04/25      19:00             ken

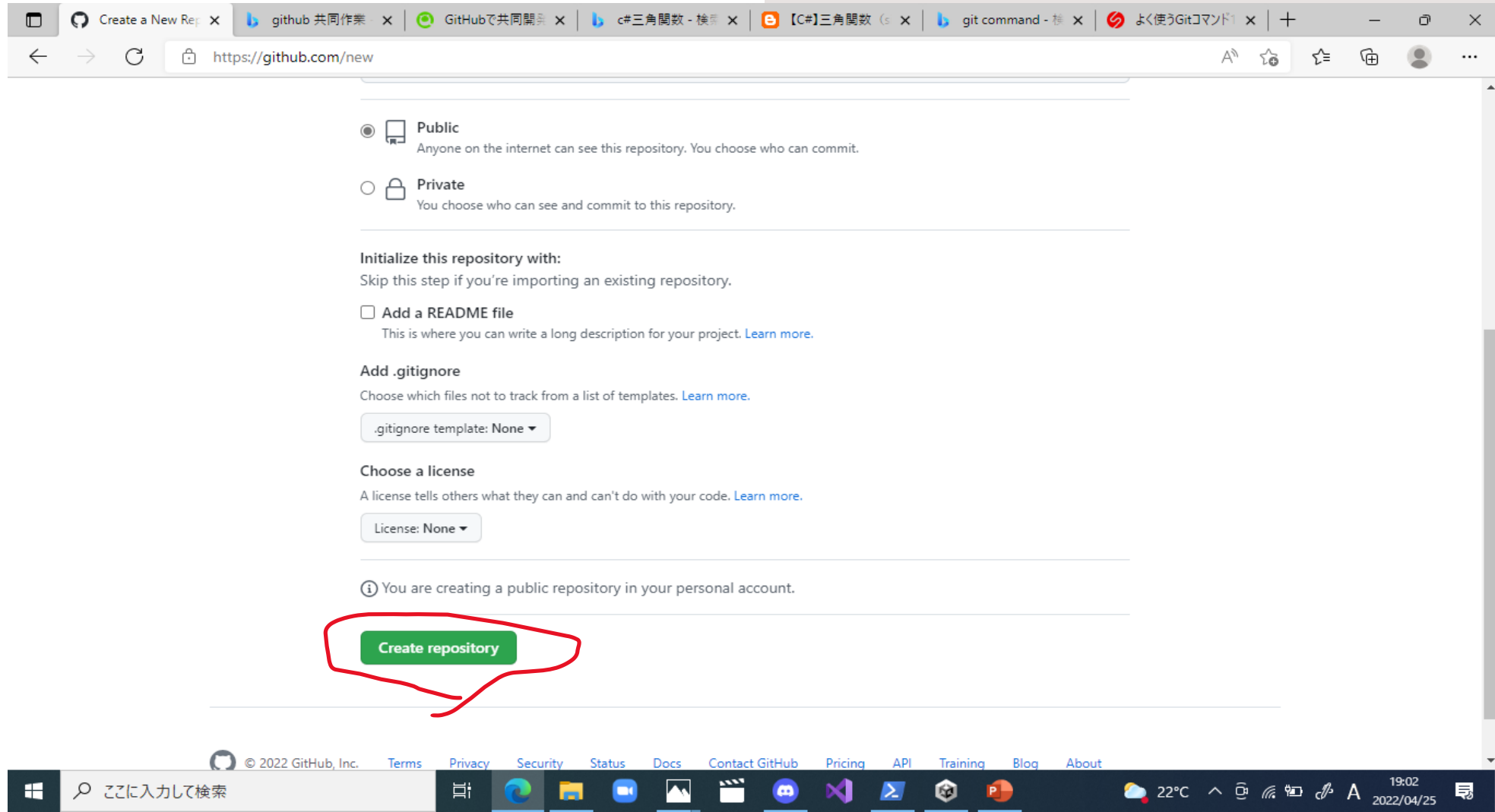
PS C:\Users\81806\documents\unitystudy\akol>
```

# Githubでリポジトリを作成

The screenshot shows the GitHub profile page for user 'tacos1402'. The browser's address bar displays 'https://github.com/tacos1402?tab=repositories'. The page header includes the GitHub logo, a search bar, and navigation links for 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. The user's profile section on the left shows a custom avatar, the username 'tacos1402', and buttons for 'Edit profile', '2 followers', '3 following', and 'Joined 4 days ago'. The main content area, under the 'Repositories' tab, lists three repositories: 'UnityLessonc-' (Private, C#, updated 13 minutes ago), 'teach' (Public, updated 21 hours ago), and 'UnityLesson' (Public, updated 2 days ago). A fourth repository, 'git\_practice' (Public, updated 3 days ago), is partially visible. In the repository list, there are filters for 'Find a repository...', 'Type', 'Language', and 'Sort', followed by a green 'New' button with a repository icon, which is circled in red. Each repository entry also includes a 'Star' button. The Windows taskbar at the bottom shows the system clock as 19:02 on 2022/04/25.

# Githubでリポジトリを作成

名前を決め下にドラッグ



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 ▼

*i* You are creating a public repository in your personal account.

Create repository



# Githubでリポジトリを作成

作成完了。ここでリンクをコピーしておく。

The screenshot shows the GitHub interface for a new repository named 'powerpoint' by user 'tacos1402'. The repository is public. The 'Quick setup' section is highlighted with a red circle, showing the 'HTTPS' option selected with the URL 'https://github.com/tacos1402/powerpoint.git'. Below this, there are instructions for creating a new repository or pushing an existing one from the command line, each with a copy icon.

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

Set up in Desktop or **HTTPS** SSH `https://github.com/tacos1402/powerpoint.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 "# powerpoint" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/tacos1402/powerpoint.git
git push -u origin main
```

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

```
git remote add origin https://github.com/tacos1402/powerpoint.git
```

# コマンドによるGithubの操作

※コマンドの先頭に git が必ず付く

– Init :ディレクトリを初期化

– remote :github上のリポジトリ  
と同期

addをset-urlにすることで別の  
リポジトリに移ることも可能

– add<ファイル名>:siteisita  
ファイルをローカルリポジトリ  
に追加  
後ろを.にすればファイルを一  
括追加できる

```
PS C:\Users\81806\documents\unitystudy\akol> git init
Initialized empty Git repository in C:/Users/81806/Documents/UnityStudy/akol/.git/
```

```
PS C:\Users\81806\documents\unitystudy\akol\ken> ls

ディレクトリ: C:\Users\81806\documents\unitystudy\akol\ken

Mode                LastWriteTime         Length Name
----                -
-a-----         2022/04/25   19:01             15 hello.txt

PS C:\Users\81806\documents\unitystudy\akol\ken> git remote add origin https://github.com/tacos1402/powerpoint.git
PS C:\Users\81806\documents\unitystudy\akol\ken> git add hello.txt
PS C:\Users\81806\documents\unitystudy\akol\ken> git add .
PS C:\Users\81806\documents\unitystudy\akol\ken> git status
On branch master
```

さっきコピーしたリンク  
右クリックすれば簡単にペーストできる



# コマンドによるGithubの操作

※コマンドの先頭に git が必ず付く

- status :状態を確認
- commit :さっきaddしたファイルをpushできるようにする  
-m “コメント”でコメントをつけられる(日本語可)
- push origin<branch名>:ブランチにコミットしたファイルを更新する  
パスワードはトークンを使う  
(下のリンクを参照)

<https://style.potepan.com/articles/34189.html>

```
PS C:\Users\81806\documents\unitystudy\akol\ken> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   hello.txt

PS C:\Users\81806\documents\unitystudy\akol\ken> git commit -m "add new file"
[master (root-commit) 5d0bd6d] add new file
1 file changed, 1 insertion(+)
create mode 100644 ken/hello.txt
```

編集集中のブランチ名  
pushではここを指定

```
PS C:\Users\81806\documents\unitystudy\akol\ken> git push origin master
Username for 'https://github.com': tacos1402
Password for 'https://tacos1402@github.com':
```

パスワードは入れても表示されないが入力はちゃんとされてるから大丈夫(コピペ推奨)



# Githubの確認

ファイルができてることがわかる。commit時のコメントも書かれている。

The screenshot shows the GitHub interface for a repository named 'tacos1402 / powerpoint'. The repository is public and has 0 stars, 1 watcher, and 0 forks. The main content area shows a commit by 'tacos1402' with the message 'add new file' and a commit hash of '5d0bd6d' from 3 minutes ago. A file named 'ken' is listed under this commit, with a yellow highlight on the 'add new file' button. A red line is drawn across the file list. Below the file list, there is a blue box with the text 'Help people interested in this repository understand your project by adding a README.' and a green 'Add a README' button. The right sidebar contains sections for 'About' (No description, website, or topics provided), 'Releases' (No releases published, Create a new release), and 'Packages' (No packages published, Publish your first package).

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

tacos1402 / powerpoint Public

Pin Unwatch 1 Fork 0 Star 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags

Go to file Add file Code

tacos1402 add new file 5d0bd6d 3 minutes ago 1 commit

ken add new file 3 minutes ago

Help people interested in this repository understand your project by adding a README. Add a README

About No description, website, or topics provided. 0 stars 1 watching 0 forks

Releases No releases published Create a new release

Packages No packages published Publish your first package

# コマンドによるGithubの操作

※コマンドの先頭に git が必ず付く

- branch :後ろに何もつけない場合ブランチ一覧を表示
- branch <branch名> :ブランチを作成
- branch -d <branch名> :ブランチ削除
- checkout <branch名>:指定したブランチに移動
- checkout -b <branch名> :ブランチを作成しつつそこに移動

```
PS C:\Users\81806\documents\unitystudy\akol\ken> git branch
* master
PS C:\Users\81806\documents\unitystudy\akol\ken> git branch sub1
PS C:\Users\81806\documents\unitystudy\akol\ken> git branch
* master
  sub1
PS C:\Users\81806\documents\unitystudy\akol\ken> git branch -d sub1
Deleted branch sub1 (was 5d0bd6d).
PS C:\Users\81806\documents\unitystudy\akol\ken> git branch
* master
```

\*は現在地を示す

```
PS C:\Users\81806\documents\unitystudy\akol\ken> git checkout -b sub1
Switched to a new branch 'sub1'
PS C:\Users\81806\documents\unitystudy\akol\ken> git checkout master
Switched to branch 'master'
PS C:\Users\81806\documents\unitystudy\akol\ken> git checkout sub1
Switched to branch 'sub1'
```



# コマンドによるGithubの操作

※コマンドの先頭に git が必ず付く

- ファイルを新しく作りsub1にpushしよう(手順は右)

```
PS C:\Users\81806\documents\unitystudy\akol\ken> ls
```

ディレクトリ: C:\Users\81806\documents\unitystudy\akol\ken

Mode	LastWriteTime	Length	Name
-a----	2022/04/25 19:11	9	good.txt
-a----	2022/04/25 19:01	15	hello.txt

```
PS C:\Users\81806\documents\unitystudy\akol\ken> git add good.txt
```

```
PS C:\Users\81806\documents\unitystudy\akol\ken> git commit -m "新しいファイルを追加"
[sub1 0aa79ff] 新しいファイルを追加
1 file changed, 1 insertion(+)
create mode 100644 ken/good.txt
PS C:\Users\81806\documents\unitystudy\akol\ken> git push origin sub1
```

```
PS C:\Users\81806\documents\unitystudy\akol\ken> git push origin sub1
Username for 'https://github.com': tacos1402
Password for 'https://tacos1402@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 360 bytes | 360.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'sub1' on GitHub by visiting:
remote:   https://github.com/tacos1402/powerpoint/pull/new/sub1
remote:
To https://github.com/tacos1402/powerpoint.git
 * [new branch]      sub1 -> sub1
PS C:\Users\81806\documents\unitystudy\akol\ken>
```



# Githubの確認

ブランチsub1ができてることがわかる。

The screenshot shows the GitHub interface for the repository 'tacos1402 / powerpoint'. The repository is public and has 0 stars, 1 watcher, and 0 forks. The 'sub1' branch is selected, showing it is 1 commit ahead of master. A recent commit by 'tacos1402' is visible, titled '新しいファイルを追加' (Add new file), with a commit hash of '0aa79ff' and a timestamp of '1 minute ago'. The commit message is '新しいファイルを追加' (Add new file). The file 'ken' is listed as part of this commit. A yellow banner at the top indicates that 'sub1' has recent pushes less than a minute ago, with a 'Compare & pull request' button. A blue banner at the bottom suggests adding a README to help people understand the project, with an 'Add a README' button. The right sidebar shows sections for 'About', 'Releases', and 'Packages', all of which are currently empty. The Windows taskbar is visible at the bottom, showing the time as 19:13 on 2022/04/25.

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

tacos1402 / powerpoint Public

Pin Unwatch 1 Fork 0 Star 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

sub1 had recent pushes less than a minute ago Compare & pull request

sub1 2 branches 0 tags Go to file Add file Code

This branch is 1 commit ahead of master. Contribute

tacos1402 新しいファイルを追加 0aa79ff 1 minute ago 2 commits

ken 新しいファイルを追加 1 minute ago

Help people interested in this repository understand your project by adding a README. Add a README

About No description, website, or topics provided. 0 stars 1 watching 0 forks

Releases No releases published Create a new release

Packages No packages published Publish your first package

# コマンドによるGithubの操作

※コマンドの先頭に git が必ず付く

- checkoutでmasterに戻りmergeしよう
- merge <branch名> :指定したブランチと今いるブランチを合わせる

```
PS C:\Users\81806\documents\unitystudy\akol\ken> git checkout master
Switched to branch 'master'
PS C:\Users\81806\documents\unitystudy\akol\ken> git merge sub1
Updating 5d0bd6d..0aa79ff
Fast-forward
 ken/good.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 ken/good.txt
```





# Githubの確認

プルリクエストをしよう

The screenshot shows the GitHub web interface for the repository 'tacos1402/powerpoint'. The browser's address bar displays 'https://github.com/tacos1402/powerpoint'. The repository page includes a search bar, navigation tabs (Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, Settings), and a header with repository details (Public, Pin, Unwatch, Fork, Star). A yellow banner at the top indicates 'sub1 had recent pushes less than a minute ago'. A red circle highlights the 'Compare & pull request' button. Below this, a dropdown menu for 'Switch branches/tags' is open, showing 'master' as the selected branch and 'sub1' as an available branch. The main content area shows a commit history table with columns for commit hash, time, and commit message. A blue banner at the bottom encourages adding a README. The right sidebar contains sections for 'About', 'Releases', and 'Packages'. The Windows taskbar at the bottom shows the system clock as 19:13 on 2022/04/25.

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

tacos1402 / powerpoint Public

Pin Unwatch 1 Fork 0 Star 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

sub1 had recent pushes less than a minute ago

Compare & pull request

master 1 branch 0 tags

Go to file Add file Code

Find or create a branch...

Switch branches/tags

Branches Tags

✓ master default

sub1

View all branches

5d0bd6d 8 minutes ago 1 commit

add new file 8 minutes ago

add new file

Understand your project by adding a README. Add a README

About

No description, website, or topics provided.

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

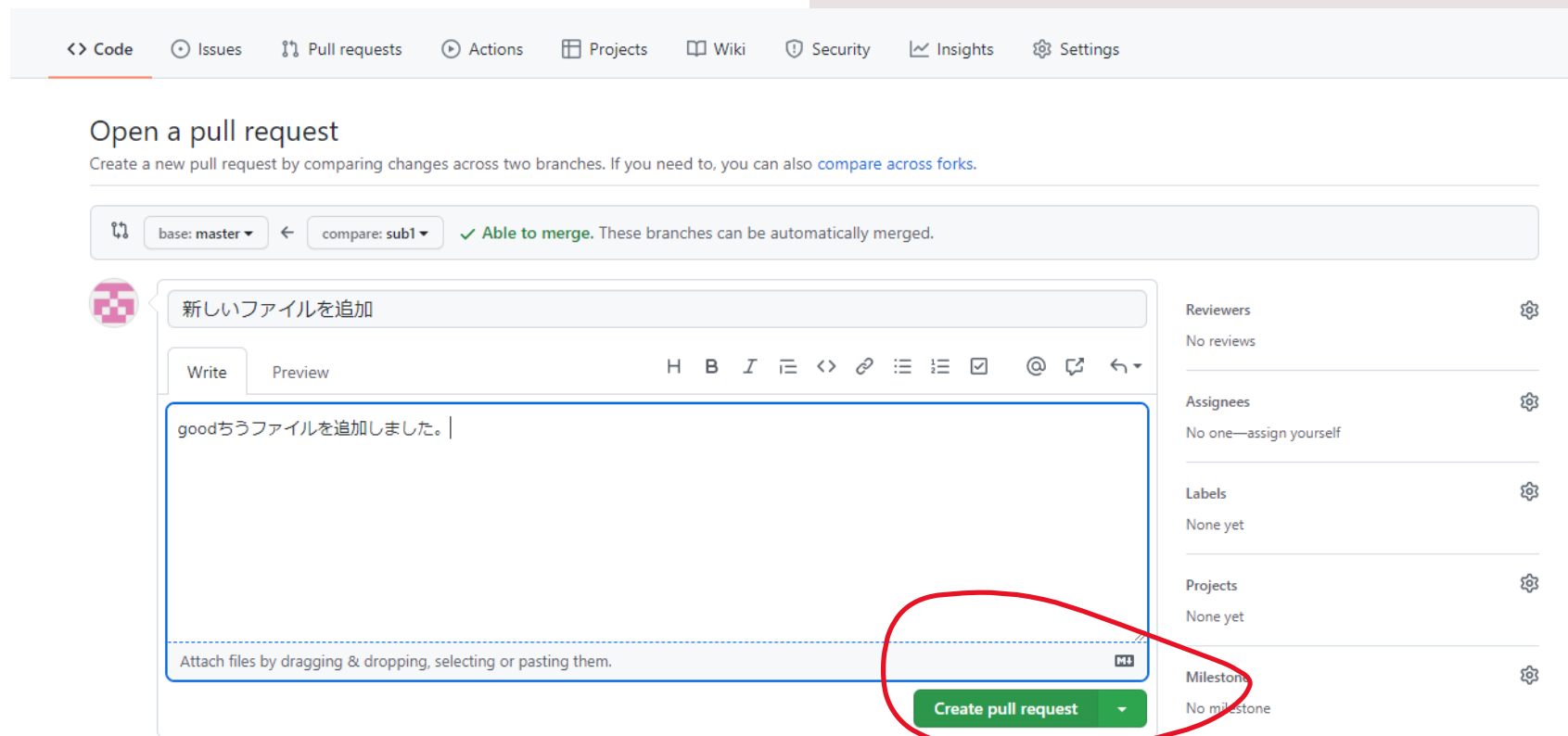
https://github.com/tacos1402/powerpoint/tree/sub1

ここに入力して検索

22°C 19:13 2022/04/25

# Githubの確認

今回のPullの説明を書いてリクエストを作る



Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: master ← compare: sub1 ✓ Able to merge. These branches can be automatically merged.

新しいファイルを追加

Write Preview

goodちうファイルを追加しました。 |

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

Reviewers  
No reviews

Assignees  
No one—assign yourself

Labels  
None yet

Projects  
None yet

Milestones  
No milestone

# Githubの確認

ここ南海カオス

新しいファイルを追加 #1


The screenshot shows a GitHub pull request interface. At the top, it says 'tacos1402 wants to merge 1 commit into master from sub1'. Below this, there's a tab bar with 'Conversation' (0), 'Commits' (1), 'Checks' (0), and 'Files changed' (1). The 'Conversation' tab is active, showing a comment from 'tacos1402' saying 'good ちうファイルを追加しました。'. Below the comment, there's a commit titled '新しいファイルを追加' with hash '0aa79ff'. A message below the commit says 'Add more commits by pushing to the sub1 branch on tacos1402/powerpoint.'.

On the right side, there are sections for 'Reviewers' (No reviews), 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), and 'Milestone' (No milestone). At the bottom right, it says 'Development' and 'Successfully merging this pull request may close these'.

At the bottom, there's a 'Write' and 'Preview' section with a rich text editor. A red circle highlights the 'Merge pull request' button in the 'Write' section.

# Githubの確認

マージできた！

 **tacos1402 / powerpoint** Public

[Pin](#) [Unwatch 1](#) [Fork 0](#) [Star 0](#)

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)


## 新しいファイルを追加 #1

[Edit](#) [Code](#)



[Merged](#) tacos1402 merged 1 commit into `master` from `sub1` now


[Conversation 0](#) [Commits 1](#) [Checks 0](#) [Files changed 1](#)


+1 -0

 **tacos1402** commented 21 seconds ago Owner ...

goodちうファイルを追加しました。

  新しいファイルを追加 0aa79ff

 **tacos1402** merged commit 668752b into `master` now [Revert](#)

 Pull request successfully merged and closed [Delete branch](#)

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

None yet

Projects



# Githubの確認

マージできた

The screenshot shows the GitHub interface for the repository 'tacos1402 / powerpoint'. The repository is public and has 1 unwatch, 0 forks, and 0 stars. The navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The current view is the 'master' branch, showing a file list with 'good.txt' and 'hello.txt'. The commit history shows a recent commit by 'tacos1402' with the message '新しいファイルを追加' (Add new file).

tacos1402 / powerpoint Public

Pin Unwatch 1 Fork 0 Star 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master powerpoint / ken / Go to file Add file ...

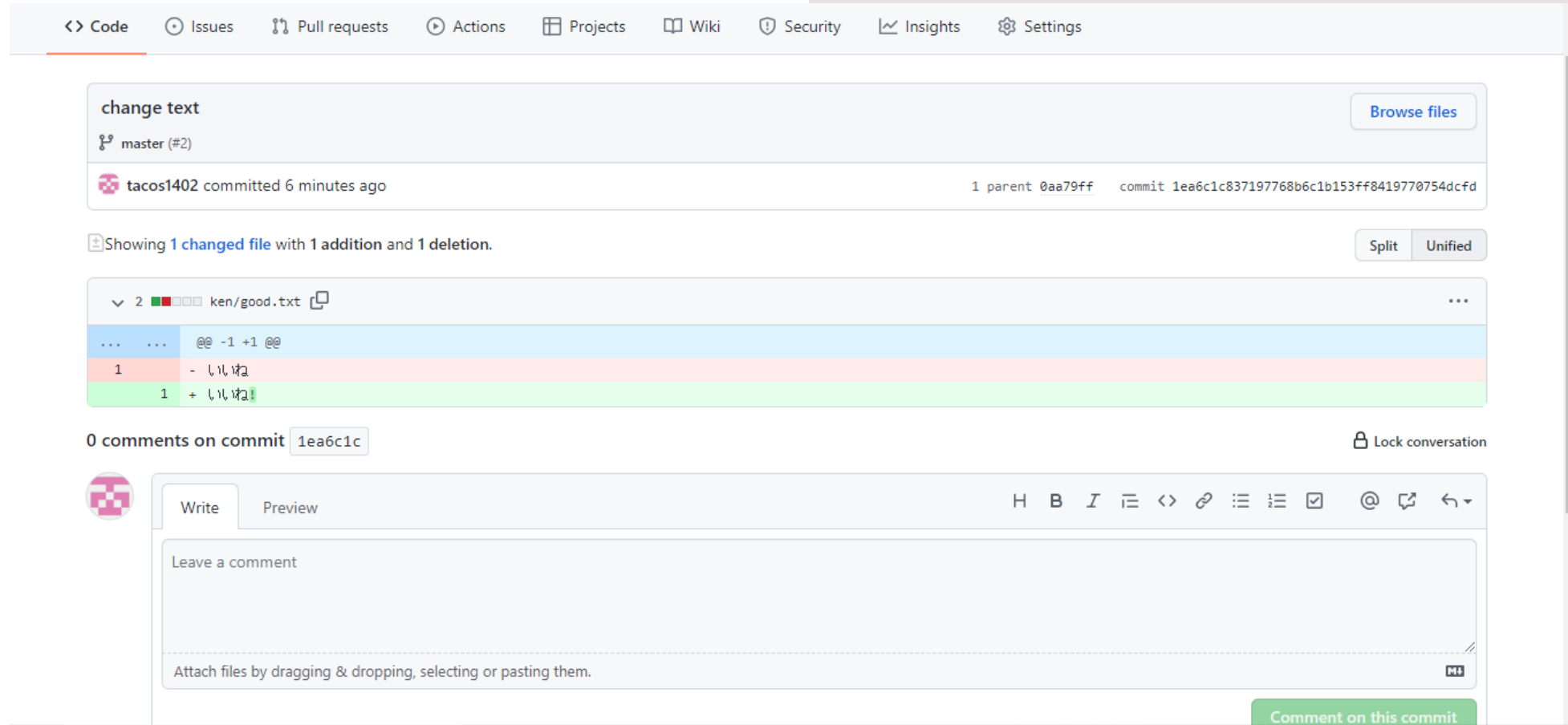
tacos1402 新しいファイルを追加 0aa79ff 3 minutes ago History

..

good.txt	新しいファイルを追加	3 minutes ago
hello.txt	add new file	10 minutes ago

# Githubの確認

ファイルを編集してマージするとファイルの変更履歴が見れる  
疲れたから途中のスライド割愛



The screenshot displays a GitHub commit interface. At the top, navigation tabs include Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The commit message is "change text" on the master branch (#2), committed by tacos1402 6 minutes ago. The commit hash is 1ea6c1c837197768b6c1b153ff8419770754dcfd, with parent 0aa79ff. A diff for 'ken/good.txt' shows a change from "@@ -1 +1 @@" to "- いいね" and "+ いいね!". Below the diff, there are 0 comments on the commit. A comment box at the bottom allows users to leave a comment or attach files.

change text [Browse files](#)

master (#2)

tacos1402 committed 6 minutes ago 1 parent 0aa79ff commit 1ea6c1c837197768b6c1b153ff8419770754dcfd

Showing 1 changed file with 1 addition and 1 deletion. [Split](#) [Unified](#)

2 ken/good.txt

```
... @@ -1 +1 @@
1 - いいね
1 + いいね!
```

0 comments on commit 1ea6c1c [Lock conversation](#)

Write Preview [H](#) [B](#) [I](#) [≡](#) [<>](#) [🔗](#) [≡](#) [≡](#) [☑](#) [@](#) [🔗](#) [↶](#)

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

[Comment on this commit](#)

