branch and merge commands

HP@trinity MINGW64 ~/project1 (new)

$ git checkout main

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

HP@trinity MINGW64 ~/project1 (main)

$ git log

commit e66f0db491b049447dafc532b5d41de850e7e88d (HEAD -> main, origin/main, origin/HEAD)

Author: TRIDENT <giritrishul51@gmail.com>

Date: Mon May 17 20:35:55 2021 +0530

file1 added

commit 3913b5d345a23fc32540a027dcbe702c573f2d59

Author: Trishul29 <84308762+Trishul29@users.noreply.github.com>

Date: Mon May 17 18:54:40 2021 +0530

Initial commit

HP@trinity MINGW64 ~/project1 (main)

$ git branch

\* main

new

HP@trinity MINGW64 ~/project1 (main)

$ git merge new

Updating e66f0db..35a7d11

Fast-forward

file1.txt | 2 ++

1 file changed, 2 insertions(+)

HP@trinity MINGW64 ~/project1 (main)

$ git commit -m'added'

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

HP@trinity MINGW64 ~/project1 (main)

$ git status

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

HP@trinity MINGW64 ~/project1 (main)

$ git push

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 349 bytes | 349.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To <https://github.com/Trishul29/project1.git>

e66f0db..35a7d11 main -> main

HP@trinity MINGW64 ~/project1 (main)

$ git checkout new

Switched to branch 'new'

HP@trinity MINGW64 ~/project1 (new)

$ git push

fatal: The current branch new has no upstream branch.

To push the current branch and set the remote as upstream, use

git push --set-upstream origin new

HP@trinity MINGW64 ~/project1 (new)

$ git push --set-upstream origin new

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'new' on GitHub by visiting:

remote: <https://github.com/Trishul29/project1/pull/new/new>

remote:

To <https://github.com/Trishul29/project1.git>

\* [new branch] new -> new

Branch 'new' set up to track remote branch 'new' from 'origin'.

HP@trinity MINGW64 ~/project1 (new)

$

HP@trinity MINGW64 ~/project1 (new)

$ git branch dummy

HP@trinity MINGW64 ~/project1 (new)

$ git branch

dummy

main

\* new

HP@trinity MINGW64 ~/project1 (new)

$ git checkout dummy

Switched to branch 'dummy'

HP@trinity MINGW64 ~/project1 (dummy)

$ git branch -d dummy

error: Cannot delete branch 'dummy' checked out at 'C:/Users/HP/project1'

HP@trinity MINGW64 ~/project1 (dummy)

$ git branch

\* dummy

main

new

HP@trinity MINGW64 ~/project1 (dummy)

$ git checkout new

Switched to branch 'new'

Your branch is up to date with 'origin/new'.

HP@trinity MINGW64 ~/project1 (new)

$ git branch -d dummy

Deleted branch dummy (was 35a7d11).

HP@trinity MINGW64 ~/project1 (new)

$ git branch

main

\* new

HP@trinity MINGW64 ~/project1 (new)

$ git checkout main

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

HP@trinity MINGW64 ~/project1 (main)

$

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A1:

HP@trinity MINGW64 ~

$ mkdir project\_dir

HP@trinity MINGW64 ~

$ cd project\_dir

HP@trinity MINGW64 ~/project\_dir

$ git init

Initialized empty Git repository in C:/Users/HP/project\_dir/.git/

HP@trinity MINGW64 ~/project\_dir (master)

$ touch index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

index.html

nothing added to commit but untracked files present (use "git add" to track)

HP@trinity MINGW64 ~/project\_dir (master)

$ git add index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit -m'index.html file added'

[master (root-commit) 04858fc] index.html file added

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ touch info.txt

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

info.txt

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

HP@trinity MINGW64 ~/project\_dir (master)

$ touch .gitignore

HP@trinity MINGW64 ~/project\_dir (master)

$ .txt

bash: .txt: command not found

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

info.txt

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

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

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

HP@trinity MINGW64 ~/project\_dir (master)

$ git add .gitignore

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit-m'gitignire added'

git: 'commit-mgitignire added' is not a git command. See 'git --help'.

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit -m'gitignire added'

[master 1450dae] gitignire added

1 file changed, 1 insertion(+)

create mode 100644 .gitignore

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

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

HP@trinity MINGW64 ~/project\_dir (master)

$ git add index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit -m'index file added again'

[master ff9a79b] index file added again

1 file changed, 3 insertions(+)

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/project\_dir (master)

$ git log

commit ff9a79ba80d79664fc8655f8f537f30825ae4609 (HEAD -> master)

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 14:26:45 2021 +0530

index file added again

commit 1450daee5db865ee46b08ba297fee165ed7a783f

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 14:25:16 2021 +0530

gitignire added

commit 04858fc4aa36f98632bb147d7a7e948d8b8fdaac

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 14:12:02 2021 +0530

index.html file added

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

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

HP@trinity MINGW64 ~/project\_dir (master)

$ git add index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit -m'index file modified for 3rd time'

[master d8f4c76] index file modified for 3rd time

1 file changed, 3 insertions(+), 1 deletion(-)

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit --amend

[master 378fbf8] index file modified for 3rd time reverting changes

Date: Tue May 18 14:30:05 2021 +0530

1 file changed, 3 insertions(+), 1 deletion(-)

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

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

HP@trinity MINGW64 ~/project\_dir (master)

$ git add index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git restore --staged index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

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

HP@trinity MINGW64 ~/project\_dir (master)

$ git restore --staged index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: index.html

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

HP@trinity MINGW64 ~/project\_dir (master)

$ git rm --cached index.html

rm 'index.html'

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

deleted: index.html

Untracked files:

(use "git add <file>..." to include in what will be committed)

index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git rm --cached index.html

fatal: pathspec 'index.html' did not match any files

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit -m'unstaged index.html'

[master 6caa2f5] unstaged index.html

1 file changed, 5 deletions(-)

delete mode 100644 index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

index.html

nothing added to commit but untracked files present (use "git add" to track)

HP@trinity MINGW64 ~/project\_dir (master)

$ git add index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit -m'again added index.html'

[master d6a3dcd] again added index.html

1 file changed, 5 insertions(+)

create mode 100644 index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git status

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit --amend -m 'my add'

[master 422da3a] my add

Date: Tue May 18 14:45:04 2021 +0530

1 file changed, 5 insertions(+)

create mode 100644 index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git add index.html

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit -m 'my add'

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/project\_dir (master)

$ git commit --amend

[master 3de8d66] my add

Date: Tue May 18 14:45:04 2021 +0530

1 file changed, 5 insertions(+)

create mode 100644 index.html

HP@trinity MINGW64 ~/project\_dir (master)

$

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A2

HP@trinity MINGW64 ~

$ mkdir assignments

HP@trinity MINGW64 ~

$ cd assignments

HP@trinity MINGW64 ~/assignments

$ git init

Initialized empty Git repository in C:/Users/HP/assignments/.git/

HP@trinity MINGW64 ~/assignments (master)

$ touch readme.txt

HP@trinity MINGW64 ~/assignments (master)

$ git status

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

readme.txt

nothing added to commit but untracked files present (use "git add" to track)

HP@trinity MINGW64 ~/assignments (master)

$ git add .

HP@trinity MINGW64 ~/assignments (master)

$ git commit -m'readme.txt added'

[master (root-commit) f26183c] readme.txt added

1 file changed, 1 insertion(+)

create mode 100644 readme.txt

HP@trinity MINGW64 ~/assignments (master)

$ git branch

\* master

HP@trinity MINGW64 ~/assignments (master)

$ git branch html-assignments

HP@trinity MINGW64 ~/assignments (master)

$ git checkout

HP@trinity MINGW64 ~/assignments (master)

$ git checkout html-assignments

Switched to branch 'html-assignments'

HP@trinity MINGW64 ~/assignments (html-assignments)

$ git status

On branch html-assignments

Untracked files:

(use "git add <file>..." to include in what will be committed)

mypage.html

nothing added to commit but untracked files present (use "git add" to track)

HP@trinity MINGW64 ~/assignments (html-assignments)

$ git add ..

fatal: ..: '..' is outside repository at 'C:/Users/HP/assignments'

HP@trinity MINGW64 ~/assignments (html-assignments)

$ git add mypage.html

HP@trinity MINGW64 ~/assignments (html-assignments)

$ git commit -m "mypage.html added in html-assignment branch"

[html-assignments 68705f7] mypage.html added in html-assignment branch

1 file changed, 2 insertions(+)

create mode 100644 mypage.html

HP@trinity MINGW64 ~/assignments (html-assignments)

$ git status

On branch html-assignments

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: mypage.html

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

HP@trinity MINGW64 ~/assignments (html-assignments)

$ git add mypage.html

HP@trinity MINGW64 ~/assignments (html-assignments)

$ git commit -m "mypage.html added using changes in html-assignment branch"

[html-assignments f932672] mypage.html added using changes in html-assignment branch

1 file changed, 1 insertion(+), 1 deletion(-)

HP@trinity MINGW64 ~/assignments (html-assignments)

$ git checkout master

Switched to branch 'master'

HP@trinity MINGW64 ~/assignments (master)

$ git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: readme.txt

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

HP@trinity MINGW64 ~/assignments (master)

$ git add readme.txt

HP@trinity MINGW64 ~/assignments (master)

$ git commit -m "readme.txt added using changes in master branch"

[master 3625fa6] readme.txt added using changes in master branch

1 file changed, 1 insertion(+), 1 deletion(-)

HP@trinity MINGW64 ~/assignments (master)

$ git status

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/assignments (master)

$ git master

git: 'master' is not a git command. See 'git --help'.

The most similar command is

restore

HP@trinity MINGW64 ~/assignments (master)

$ git status

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/assignments (master)

$ git branch html-assignments

fatal: A branch named 'html-assignments' already exists.

HP@trinity MINGW64 ~/assignments (master)

$ git merge html-assignments

Merge made by the 'recursive' strategy.

mypage.html | 2 ++

1 file changed, 2 insertions(+)

create mode 100644 mypage.html

HP@trinity MINGW64 ~/assignments (master)

$ git log

commit 26f21d98c8e4f834acf15420a40cc20594bd0998 (HEAD -> master)

Merge: 3625fa6 f932672

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:14:54 2021 +0530

Merge branch 'html-assignments'

merge changes to master branch

commit 3625fa6c320d37c61ced510b0321a0f473ab1164

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:12:57 2021 +0530

readme.txt added using changes in master branch

commit f932672b6da12dc79ef66d45d57083ea7c7a3b89 (html-assignments)

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:10:45 2021 +0530

mypage.html added using changes in html-assignment branch

commit 68705f7297a7d5fa75a62648cc8133add4113298

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:09:29 2021 +0530

mypage.html added in html-assignment branch

commit f26183c24243063b98c9a3267e85e834227f5245

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:03:33 2021 +0530

readme.txt added

HP@trinity MINGW64 ~/assignments (master)

$

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A3

HP@trinity MINGW64 ~/assignments (master)

$ git branch

html-assignments

\* master

HP@trinity MINGW64 ~/assignments (master)

$ git branch css-assignments

HP@trinity MINGW64 ~/assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git status

On branch css-assignments

Untracked files:

(use "git add <file>..." to include in what will be committed)

StyleSheet.css

nothing added to commit but untracked files present (use "git add" to track)

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git add StyleSheet.css

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git commit -m 'css file added'

[css-assignments 14a8b2f] css file added

1 file changed, 36 insertions(+)

create mode 100644 StyleSheet.css

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git status

On branch css-assignments

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: readme.txt

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

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git add ..

fatal: ..: '..' is outside repository at 'C:/Users/HP/assignments'

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git add readme.txt

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git commit -m 'changes made in readme.txt sing css-assgn branch'

[css-assignments db03779] changes made in readme.txt sing css-assgn branch

1 file changed, 1 insertion(+), 1 deletion(-)

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git checkout master

Switched to branch 'master'

HP@trinity MINGW64 ~/assignments (master)

$ git add ..

fatal: ..: '..' is outside repository at 'C:/Users/HP/assignments'

HP@trinity MINGW64 ~/assignments (master)

$ git add readme.txt

HP@trinity MINGW64 ~/assignments (master)

$ git commit -m 'changes made in readme.txt in master branch'

[master 147f390] changes made in readme.txt in master branch

1 file changed, 1 insertion(+), 1 deletion(-)

HP@trinity MINGW64 ~/assignments (master)

Switched to branch 'css-assignments'

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git checkout css-assignments

Already on 'css-assignments'

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git checkout css-assignments

Already on 'css-assignments'

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git checkout css-assignmentsgit status

error: pathspec 'css-assignmentsgit' did not match any file(s) known to git

error: pathspec 'status' did not match any file(s) known to git

HP@trinity MINGW64 ~/assignments (css-assignments)

$

HP@trinity MINGW64 ~/assignments (css-assignments)

$

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git checkout css-assignments

Already on 'css-assignments'

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git checkout css-assignmentsgit status

error: pathspec 'css-assignmentsgit' did not match any file(s) known to git

error: pathspec 'status' did not match any file(s) known to git

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git status

On branch css-assignments

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: StyleSheet.css

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

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git add StyleSheet.css

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git commit -m 'changes made in header color to orange and width to 200 in css-assignment branch'

[css-assignments cadb623] changes made in header color to orange and width to 200 in css-assignment branch

1 file changed, 2 insertions(+), 2 deletions(-)

HP@trinity MINGW64 ~/assignments (css-assignments)

$ git checkout master

Switched to branch 'master'

HP@trinity MINGW64 ~/assignments (master)

$ git status

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/assignments (master)

$ git merge css-assignments

Auto-merging readme.txt

CONFLICT (content): Merge conflict in readme.txt

Automatic merge failed; fix conflicts and then commit the result.

HP@trinity MINGW64 ~/assignments (master|MERGING)

$ git status

On branch master

You have unmerged paths.

(fix conflicts and run "git commit")

(use "git merge --abort" to abort the merge)

Changes to be committed:

new file: StyleSheet.css

Unmerged paths:

(use "git add <file>..." to mark resolution)

both modified: readme.txt

HP@trinity MINGW64 ~/assignments (master|MERGING)

$ git log

commit 147f390b18d19ceb04d58732eab1284c026eb01d (HEAD -> master)

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:34:25 2021 +0530

changes made in readme.txt in master branch

commit 26f21d98c8e4f834acf15420a40cc20594bd0998

Merge: 3625fa6 f932672

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:14:54 2021 +0530

Merge branch 'html-assignments'

merge changes to master branch

commit 3625fa6c320d37c61ced510b0321a0f473ab1164

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:12:57 2021 +0530

readme.txt added using changes in master branch

commit f932672b6da12dc79ef66d45d57083ea7c7a3b89 (html-assignments)

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:10:45 2021 +0530

mypage.html added using changes in html-assignment branch

commit 68705f7297a7d5fa75a62648cc8133add4113298

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:09:29 2021 +0530

mypage.html added in html-assignment branch

commit f26183c24243063b98c9a3267e85e834227f5245

Author: TRIDENT <giritrishul51@gmail.com>

Date: Tue May 18 21:03:33 2021 +0530

readme.txt added

HP@trinity MINGW64 ~/assignments (master|MERGING)

$ git status

On branch master

You have unmerged paths.

(fix conflicts and run "git commit")

(use "git merge --abort" to abort the merge)

Changes to be committed:

new file: StyleSheet.css

Unmerged paths:

(use "git add <file>..." to mark resolution)

both modified: readme.txt

HP@trinity MINGW64 ~/assignments (master|MERGING)

$ git add readme.txt

HP@trinity MINGW64 ~/assignments (master|MERGING)

$ git commit -m 'changes made in readme on master branch'

[master bf59e8f] changes made in readme on master branch

HP@trinity MINGW64 ~/assignments (master)

$ git status

On branch master

nothing to commit, working tree clean

HP@trinity MINGW64 ~/assignments (master)

$ git branch

css-assignments

html-assignments

\* master

HP@trinity MINGW64 ~/assignments (master)

$ git branch -d css-assignment

error: branch 'css-assignment' not found.

HP@trinity MINGW64 ~/assignments (master)

$ git branch -d css-assignments

Deleted branch css-assignments (was cadb623).

HP@trinity MINGW64 ~/assignments (master)

$

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A4