

Git Commands and Troubleshooting Reference

1. Initial Error

Command Run:

```
npm create vite@latst
```

Error Message:

```
npm ERR! code ETARGET
npm ERR! notarget No matching version found for create-vite@latst.
```

Cause:

- Typo in the command: `vite@latst` should be `vite@latest`.

Solution:

 Run the corrected command:

```
npm create vite@latest
```

2. Recent Commit Not Visible on GitHub

Observation:

- After committing changes in VS Code, the recent commit was not visible on GitHub.

Diagnosis Steps:

1. Verified commit history using:
`git log`

Output confirmed recent commits were made locally.

2. Checked branch status:
`git status`

Solution:

 Pushed the local branch to the remote repository:

```
git push
```

3. Upstream Branch Missing

Command Run:

git status

Error Message:

Your branch is based on 'origin/main', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)

Cause:

- The upstream branch `origin/main` was either deleted or not correctly linked.

Solution:

1. Unset the broken upstream link:
git branch --unset-upstream
2. Re-establish the upstream branch:
git branch --set-upstream-to=origin/main main
If the branch didn't exist, it was created and linked using:
git push -u origin main

4. Untracked File Appears

Command Run:

git status

Error Message:

Untracked files:
tatus

Solution:

1. Verified the file's existence:
ls -a
 2. If the file wasn't needed, removed it:
git clean -f
-

5. Cleaning Repository: Unreachable Loose Objects

Command Run:

git fetch

Warning Message:

There are too many unreachable loose objects; run 'git prune' to remove them.

Solution:

1. Removed unreachable loose objects:
git prune
 2. Optimized the repository:
git gc
-

6. Final Steps for Pushing Changes

Command Run:

git push -u origin main

Output:

Enumerating objects: 40, done.
Counting objects: 100% (40/40), done.
Delta compression using up to 12 threads
...
branch 'main' set up to track 'origin/main'.

Verification:

1. Checked branch status:
git status

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

2. Confirmed changes on GitHub.

Commands Summary

| Command | Purpose |
|--|--|
| <code>git log</code> | View commit history. |
| <code>git status</code> | Check the current branch status. |
| <code>git branch --unset-upstream</code> | Remove the upstream link for the branch. |
| <code>git branch --set-upstream-to</code> | Re-establish the upstream branch link. |
| <code>git push -u origin <branch></code> | Push local branch to remote and set it as the default upstream branch. |
| <code>git fetch</code> | Fetch updates from the remote repository. |
| <code>git prune</code> | Remove unreachable loose objects from the repository. |
| <code>git gc</code> | Optimize the repository by packing and compressing loose objects. |
| <code>ls -a</code> | List all files in the current directory, including hidden ones. |
| <code>git clean -f</code> | Remove untracked files from the working directory. |

This document provides a complete reference to the issues encountered, their solutions, and commands used during troubleshooting.