GIT trick for panicked contributors

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LET THIS BE INTERACTIVE
AND TELL US HOW YOU DEAL WITH GIT
REMOTE REJECTED!
Remote rejected!

- **Cause:** Changes in remote not in local
- **Solution:**
  - `git pull -r` (pull and rebase)
  - Push your patch
MERGE
CONFLICT
Merge conflict

- Your local copy conflict with remote copy on same lines/files
- "<<<<<<" means repository contents
- ">>>>>>" means your contents
- Delete or edit the correct contents
- Commit changes
- Push your patch
git pull -r
does not work
git pull -r does not work

- You have local modifications not committed
- Solution 1: Delete your local work if you think it is not necessary
  - git checkout -f or git reset --hard HEAD
  - git pull -r
- Solution 2: save temporary with stash
  - git stash
  - git pull -r
  - git stash pop
- Solution 3: Commit your changes if your work is done
  - git commit -m “message”
  - git pull -r
- Solution for panicked: copy all your modified files out of git and go to Solution 1. Copy your work back.
OTHER USEFUL GIT COMMANDS
Other useful commands

- git status
- git branch
- git gui
- git log
How to minimize headaches?

Use branches
Use branches!

- Do NOT HACK ON MASTER BRANCH
  - Much harder to revert
- USE A LOCAL BRANCH !!!
  - `git checkout -b MyBranch`
  - Then make you hack, commit, push.
  - If you want to desist, checkout your modified files and go back to master
  - Or commit your changes and go back to master
    - You can delete your flawed branch!
      - `git branch -D MyBranch`
A Picture!

Branching

My Branch

MASTER

Push to gerrit

Delete branch
Checking a patch by cherry picking

Branching

My Branch

Cherry-pick

TEST PATCH

Approve in gerrit

Delete branch
THANK YOU!