**List of Common GIT Commands**

**By Jeff Crockett for FRC Team 3793**

1. To use the git commands, it is recommended to cd to the path of the local repository root.

$ cd GitHub/<local repo name>

1. To add a new file or modified object for commit staging type:

$ git add <filename path from local repo root>

1. To commit the entire local repository:

$ git commit –m “<add your comments here>”

If you want to commit only one file name:

$ git commit –m “<add your comments here>” -- < filename path from local repo root> <file2> <file3> … <file n>

1. Look at detailed status:

$ git status

The output will look like:

C:\Users\Jeff\Documents\GitHub\FRC\_team3793>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: RobotJeff.yml

modified: RobotJeff/.classpath

modified: RobotJeff/src/org/usfirst/frc3793/RobotJeff/RobotMap.java

modified: RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/CloseClaw.java

modified: RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/LiftPulley.java

modified: RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/LowerPulley.java

modified: RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/MoveRobot.java

modified: RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/OpenClaw.java

modified: RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Drivetrain.java

Untracked files:

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

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RobotJeff/.classpath~

RobotJeff/.project~

RobotJeff/BSD\_License\_for\_WPILib\_code.txt~

RobotJeff/build.properties~

RobotJeff/build.xml~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/OI.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/Robot.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/RobotMap.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/AutonomousCommand.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/CloseClaw.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/LiftPulley.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/LowerPulley.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/MoveRobot.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/OpenClaw.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Claw.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Drivetrain.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Pulley.java~

RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Sensor.java~

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log.diff

~$mmon commands in gittool.docx

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

1. To see the short status:

$ git status –s

The output looks like this:

C:\Users\Jeff\Documents\GitHub\FRC\_team3793>git status -s

M RobotJeff.yml

M RobotJeff/.classpath

M RobotJeff/src/org/usfirst/frc3793/RobotJeff/RobotMap.java

M RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/CloseClaw.java

M RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/LiftPulley.java

M RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/LowerPulley.java

M RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/MoveRobot.java

M RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/OpenClaw.java

M RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Drivetrain.java

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?? RobotJeff/.classpath~

?? RobotJeff/.project~

?? RobotJeff/BSD\_License\_for\_WPILib\_code.txt~

?? RobotJeff/build.properties~

?? RobotJeff/build.xml~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/OI.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/Robot.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/RobotMap.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/AutonomousCommand.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/CloseClaw.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/LiftPulley.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/LowerPulley.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/MoveRobot.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/commands/OpenClaw.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Claw.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Drivetrain.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Pulley.java~

?? RobotJeff/src/org/usfirst/frc3793/RobotJeff/subsystems/Sensor.java~

?? common commands in gittool.docx

?? log.diff

?? ~$mmon commands in gittool.docx

1. To compare the differences of two commits per file, type:

$ git diff -- <file path from local repo root>

1. To look at the differences between two non-latest commits, type

$ git diff < commit sha1> <other commit sha1> -- <file pathname from local repo root>

To show all the changes of a commit type:

$ git show

1. To list sha1 commits of a file type:

$ git log -- <file path from repo root>

To undo a commit:

$ git revert

Another way to undo a commit:

$ git reset HEAD~1

This is the opposite as “git add”.

Do NOT do a git reset –hard or bye bye object.

To delete modified file staged for commit and replace with original contents, type:

$ git checkout --<file path from repo root>

1. To push a commit into the remote repository, type:

$ git push –v

If you need to delete a tracked file:

$ git rm <file path from local repo root>

1. Likewise the same holds true for rename a tracked file:

$ git mv <orig file> <new name of file>

Many of the essential basic git commands can be found on the GUI. The detailed guide for using git can be found at <http://git-scm.com>. Happy gitting.