

Git		
Stup	committing changes.	Branch
set a name that is identifiable for credit when review version history <code>git config --global user.name "[firstname lastname]"</code> set your email <code>git config --global user.email "[valid-email]"</code> set automatic command line coloring for Git <code>git config --global color.ui auto</code>	show modified files in working directory, staged for your next commit <code>git status</code> add a file as it looks now to your next commit (stage) <code>git add [file]</code> unstage a file while retaining the changes in working directory <code>git reset [file]</code> diff of what is changed but not staged <code>git diff</code> diff of what is staged but not yet committed <code>git diff --staged</code> commit your staged content as a new commit snapshot <code>git commit -m "descriptive messag"</code>	see exciting branches: <code>git branch</code> Create a new branch: <code>git branch [branch-name]</code> <code>git push -u origin [branch-name]</code> Switch Branches: <code>git checkout [branch-name]</code> Merge a branch into the current branch: <code>git merge [branch-name]</code> Delete a branch: <code>git branch -d [branch-name]</code>
Start		Tag
<b>1.already have files in your local machine</b> <code>cd &lt;file_path&gt;</code> # Initialize a new Git repository <code>git init</code> # Add all files to staging <code>git add .</code> # Commit the changes <code>git commit -m "Initial commit"</code> Create a new repository on GitHub # Add the remote origin <code>git remote add origin &lt;repository URL&gt;</code> # Push changes to the remote repository <code>git push -u origin master</code>		simple reference to a specific <u>commit</u> , see exciting tag: <code>git tag</code> Create a new tag: <code>git tag [tag-name]</code> <code>git push origin --tags</code>
	Ctrl+Z Changes	conflict
	<u>Undo Uncommitted Changes:</u> Discard working directory changes: <code>git checkout -- [file]</code> Unstage a file: <code>git reset HEAD [file]</code> <u>Undo Committed Changes:</u> see different commit: <code>git log</code> Create a new commit that undoes the changes of a specified commit: <code>git revert [commit]</code> stage the changes without creating a new commit: <code>git -n revert [commit]</code> permanently delete your changes and commits after that <code>git reset --hard [commit]</code>	we try to Push Changes: <code>git push origin master #we get error about conflict</code> Pull Latest Changes: <code>git pull origin master</code> Resolve conflicts by editing files to remove conflict markers, this command will open merge tool: <code>git mergetool</code> Commit the Merge: <code>git add .</code> <code>git commit -m "Resolved merge conflicts"</code> Push Resolved Changes: <code>git push origin master</code>
HEAD		
<b>HEAD:</b> reference that points to the current branch's latest commit. To compare the latest commit (HEAD) with the commit before it: <code>git diff HEAD~1 HEAD</code>		