what / why version control? main types of version control git conceptually
git commands > sto
Git hub brief over year > status, diff, add, commit, pull, push moving Forward branching / merging - pul requests What / why version control 4 Forcy slave button - normal save overwrites file and Joes not track its history (can revert)
- can leave a message of every some
- athor of each save is tracked - reverting to non-larged

- backing out work you don't want

- Figure out, who last worked on problem Not on y used For code - legal documents - group planning

Man types of version control de centralized every computer has a Full repo only have to be conveited to push/pull Contralized d'sadvantages - requires correction to do any version controlling - every version control step has to occuss - it central repognes down you lose the - work on individual machines are copies and do not contain the fall work log What is a repo needs to be addressed before companison Git conceptually difference between some & commit - save is specific to tile and does not contain version history - connits are the essence of version history - commit is to version control as save is to individual Files

Git commands (statisfalt) add, commit, poshpoul)

order to present

full / push

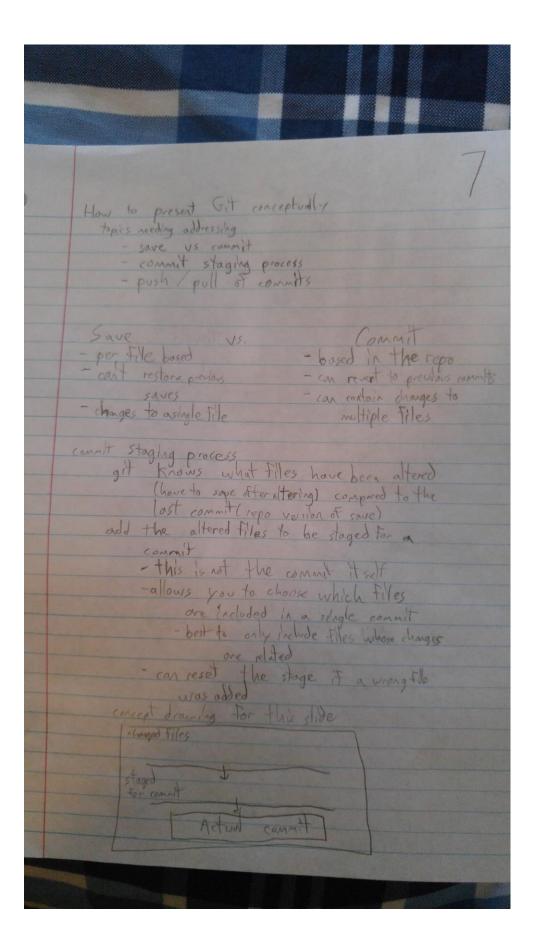
- add

- commit only commands that require - compares local reporto remote reporto - good to start work w/a pull - push can result in merge conflicts - get soits out and work let you push till you resolve conflict compares local work to last commit - tells what is staged for commit - tells what is staged for commit - tells how many commits have happened since last pach - add / reset - stages changed files for count reset semoves all staged Files so you con start over staging - commit - creates a commit of the staged Files to the local repo - don't forget to use a ressage - (how to escape vim it forgot -m)

what are the charges that however will show all files charges vicess passed a file rare than just that shows possible commands it holp < command will show more detailed into on that command slide showing which connads deal with which Fit hob brief overview gittub # git cloud service Free althou is a mobservice like a cloud service to a main repo, git is a set of verselencental free for public repos - lends really well to open source prejects

Moving Forward branching t merging an 6th hobe tooking topoll requests Slides outline draft 1 slide # Title slide Contests of presentation What/Why version control show save button - animate to show new sand vestion replace of vestion : show multiple save buttons - add nessage/notes for each save - add author name to each save - add arrow to previous save Main types of version control - centralized us decentralized - centralized diagram folder at top w/folders at bottom - animate connection breaking to certal repo - animate central repo crashing - decentralized diagram - animate connection breaking - animate central repo crashing Git conceptually tit commands - git clone - git push/pull - git status - git add/reset

	The second secon
	6
9	Slides out line draft 1 (cont.) (Fit commands (cont.)
17	
13	- git diff
14	-git help
15	- git rommands diagram
	- group commands bosed on which repo accessed - thighlight basic work flow commands
	Github brief overview
16	- Github intro slide
	- highlight Githob + Git
17	
18	Moving Forward
19	- Slide w/topics t appropriate links Conclusion Slide
	Slide count: 19+? (~22)
	Problems with/changes to slide outline draft 1
	- git conceptually slides not planned out
	- Main types of version control uses some version
	control terminology not yet discussed + add discussion of what is a repo to what/why
180	version control section
1	- Perhaps switch or combine Github brief overview
	slides
	- git commands have too many slides. May be
	combine related commands to single slides
1000	- left out slide covering extended uses of version control
	in the what /why version rontrol category
CONTRACTOR OF STREET	



How to present Git conceptually cont. - need to need to represent that repos can
be off by commits
no limit to this amount difference
push = update renote repository
w/your commits (wont include
altered files that werent included in a - pull = update local repo with the extra commits that the renote if both repos have commits on the same File have to pull before push - push can result in a merge conflict (two people changed the game like of code)
- git will highlight the conflict In the File and offer It has been manually tixed you can post will need to cover obtaining git commands

on mac if you use git command but don't

have git, it will show you how to

install get link for install instructions on windows (for command prompt) - high light that commandline commands add 5sh to moving tormard/future directions

	9
Slides Out-like Draft Z 1 Title slide 2 contents of Presentation	
3-9 Koep slides 3 ty	
6 - Repo us. File - what is a repo Main types of version control 7-9 Keep slides 5,6 + 7 from druft 1	
10 - save Us, commit 11 - commit staging process	
Git Commands	
14 - Git push/pull 15 = git status / add / reset	
16 - git commit 17 - git diff/help 18 - git commands diagram	
19 - combine slides 16 & 17 from draft 1 Moving Forward	
20 - Keep slide 18 From draft 1 21 Conclusion	
Add some where in git commands how to obtain git + add to first slide (slide 13 of draft 2)	
Combine title slide of contexts slide	

Git Presentation topics outline (based on sides autline2) slide 7 - Present myself and the presentation slibe 2 (contests slibe what /why version control - start with a brief overview of what version control actually is - cover some possible reasons why you would want to use it Main types of vestion control - cover the difference between the two Main types of version control - discuss why you might avant one overthe Git conceptually - go over how git actually works before learning how to make it do - base of under standing before learning commands - home works at higher level before diving into specifics Git Commands - how to actually accomplish the git concepts Githolo Brief overview - introduction to a topic often associated wight Mousing Forward some more advanced things to do assing git/github

Git pres topics outline (cont) slide 3 show some button - impart that the normal operation of saving overwaites previous version of the File no nother of pulling back previous versions of the file slide 4 multiple save buttons - when using version control and you save it's not a complete overwrite of the previous version = still have access to previous vusions when saving using version control you can add a message to the save so you can later remember what you changed w/ the save and why The save also remembers who did the saving and so people know who to contact if that portion stops worting This concept of version control through sauling isn't 100% how it works but is analogous V.C. is in good for reverting to non-bugged code it working on a commercial product - good for tracking when how a bug extend code, what that portion was supposed to address and how to fix the king and no longer want Extra uses of V.C. present other weas where Verson control wald be useful

Git Pres topics outline (cont.) lide 6 what is a Repo - A reposis a folder containing version history internation - contains files - contains a log of changes to the Repo has its own way of saving state separate from files (covered later) side 7 centralized us, decentralized - these are the main two categories in which version control tools fall - main difference is the location of the repo/how many repos - Example of centralized = SVN - Examples of de-certralized = git, mercurial (hg) slide 8 contralized diagram - one repo on a server - this one is a full repository containing toll version history thousand work stations have a copy of the repository - does not have fell version history any version control actions have to access the full remote repo - Draw bocks access renote repo con se slow - no comettan = no version controlling - only one copy of the full reps = Jongerous

Git Pres Outline (cont.)
slide 9 De contralized Diagram individual work stations & server all contain a copy of the full ropository w/full version history - don't technically need the server copy due to every one hasting a full don't have to have a connection to do most version control actions - Francetion breaks, can keep vession - if the server's copy of the repository is lost there are nottiple backups with full Version history - Claims of version control commands being faster because they don't all have to access the remote repository slide 10 save Vs. commit - save is to file as commit is to repository - saves affect a singlefile and cannot themselves be reverted - commits can include multiple tiles and can be reverted commits are like saving the state of the whole repository slide Il connit staging process start the process of creating a new commit after a files has been altered traved - need to add the files that you want in the commit to the stage - If a wrong file has been added the whole stage can be cleared

(fit pres topics Outline (cont.) slide 12 (cont.) merge conflict - git will block person Z's push and mark the conflicking spot - Once the file has corrected (even it that just includes removing the marks) the file can be committed & pushed slide 13 Git commands / git clone it not on mac/lihux & command is attempted it will show you how to obtain -apt-got - nlinux - x-code command live on mac link w/ Instructions forwindows don't want to Focus too much on acquiring git clone is how you make a new repository copy from another regoratory command setup & git clone < renote repolaration> It no new ocation specified it will put the new copy in whatever to der the terminal is cornertly in all other attroumands have to be used From SOMEWHERE inside the ropo slide 14 posh/pull - git push spushes changes to remote repo -get pull > pulls changes from remote repo - concepts previously discussed

slide 15 git status food / resot - status will show the difference in number Git pres topics outline ot commits between local & remote repo - which files have been altered - altered files staged for count or - add will add on altered file to the reset will clear the commit stage - rareful with additional arguerosents three commands help set the commit slide 16 gH commit - will make a count of the staged - add a nessage using -m - it forgot to use -m use iq to back out and try again - it puts you ina vineditorist you know how to use just write + quit ofter writing your message slide 17 git diff /help - diff like status but instead of showing which files are altered, will show the atual changes that had been made to the file - help to see a list of commands available of help a command to see even more detail about that command

Git pres topies Outline (cont.) slide 18 Git commands diagram - done, push pull interact w/ remote repository status, add, count, different interact w/ local repository - pull before starting works poslition Finding - normal workflow commands are status, add count, diff slide 19 Github overview - Githob & Git - Git hub is a conste sever provider for the - like a cloud service offers web page access to repo and easy ways to View it of interact using git - only have to pay it worting private repas - all other repos are public - naturally lends Itself to open source projects where people use git tods to help and contribute to each others projects - no size limit on repo slide 20 Moving Forward - branching + merging for advanced project control - Forking repos & pull requests on Github use ssh to communicate w/ Githup or remote repo in general - attach links

Gil pres topics at like (cont.) slide 21 conclusion

- went over how version control worts

and why it is useful

- what is the difference between the

two main types of version control

- how does git work conceptually?

- how to use common line to implement

Git concepts

- what is Github

- further directions for study