

Getting Started with GitHub and GitHub Pages











Library



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Questions asked via the chat box will be read by the facilitator without identifying you. Note that you may be identifiable when asking a question during the session in an audio or visual format.





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Please refer to our code of conduct webpage for more information:

scds.ca/events/code-of-conduct/





Learning Objectives

By the end of this workshop, you will be able to:

- Create a GitHub repository (from scratch and by cloning/forking an existing one)
- Create, edit, and manage versions of files in a GitHub repository
- Describe the basics of versioning and versioning software; communicate their value
- Explain the differences between git and GitHub, and detail how they work together
- Use GitHub Desktop and git to sync files between your desktop/laptop and GitHub
- Use Markdown to format text in a simple yet effective manner
- Use GitHub Pages to create simple static web pages using jekyll
- Identify where you can find more information to experiment and learn on your own





What you need to know

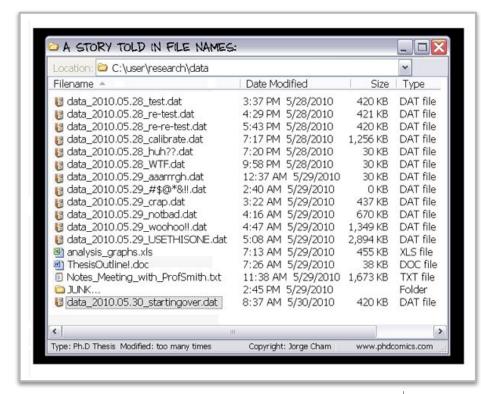
Version Control
git
GitHub
Markdown
GitHub Desktop
GitHub Pages





You can track versions manually! BUT, it's prone to errors:

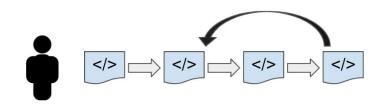
- Writing to the wrong file/folder
- Overwritten files
- Misnamed (or poorly named) files
- "I just keep forgetting to do it"
- "Which old version is the correct one?"





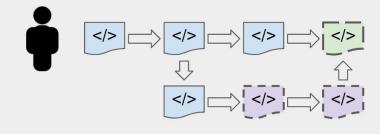


Version control systems allow you to...



Manage versions of files

Revert to previous ones, if necessary



Create 'branches' to develop/test new versions without breaking what already exists

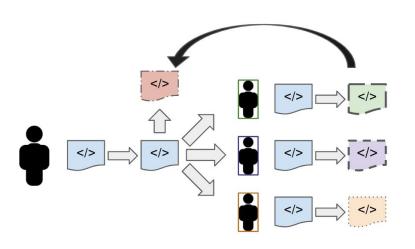
Merge changes back to the main branch when ready





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And if that version control system is web-based, you can also ...



Disseminate & share your files

Enable others to modify / contribute to your work

Manage contributions; decide what gets merged

Merge changes & control development



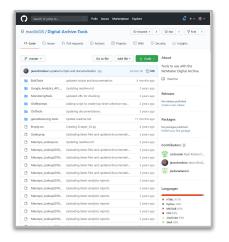


git is a free and open source distributed version control system to handle everything from small to very large projects with speed and efficiency.



```
odeujj@LT-10146-L MINGW64 /c/Local/Digital-Archive-Tools (master)
 git pull origin master
 rom https://github.com/maclibGIS/Digital-Archive-Tools
                  master
 dating cda4736..2d39cba
ast-forward
BulkTools/DA bulk downloader.asv
                                       107
BulkTools/DA bulk downloader.m
BulkTools/DA_dc_to_csv.m
                                       BulkTools/DA georef prep.m
                                       64 +++++++++++++
BulkTools/DA list map collections.asv
BulkTools/old DA bulk downloader.m
                                       8 ++
BulkTools/omeka-import-instructions.md
BulkTools/run DA bulk downloader.m
                                        47 ++++++
BulkTools/run DA dc to csv.m
9 files changed, 471 insertions(+), 157 deletions(-)
create mode 100644 BulkTools/DA_bulk_downloader.asv
create mode 100644 BulkTools/DA_dc_to_csv.m
create mode 100644 BulkTools/DA_georef_prep.m
delete mode 100644 BulkTools/DA_list_map_collections.asv
create mode 100644 BulkTools/old DA bulk downloader.m
create mode 100644 BulkTools/omeka-import-instructions.md
create mode 100644 BulkTools/run_DA_dc_to_csv.m
 odeuii@LT-10146-L MINGW64 /c/Local/Digital-Archive-Tools (master)
```

GitHub is a web-based hosting service for version control using git. It offers all of the distributed version control and source code management functionality of git as well as additional features.



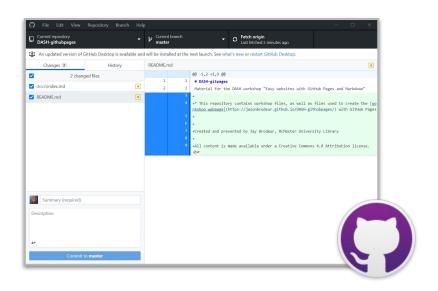






GitHub Desktop is a desktop application for local version control and interaction with GitHub using a GUI.

(it does the work of git without the command-line stuff)







Why use distributed version control?

Distributed version control software allows you (and your collaborators) to:

- Track, compare, and revert changes
- Enable and manage collaborative development
- Share open materials and gather feedback
- Backup your work to an external repository

Use it to manage:

- Software / code e.g. Openrefine: https://github.com/OpenRefine/OpenRefine
- Data e.g. OpenIndexMaps: https://github.com/OpenIndexMaps
- Books e.g. Git from the Bottom Up: https://github.com/jwiegley/git-from-the-bottom-up
- Websites e.g. This workshop's website: https://scds.github.io/github-pages/

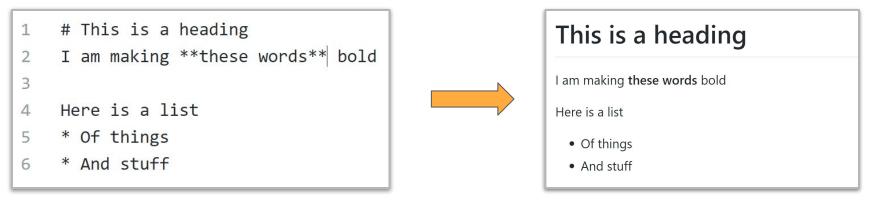




Markdown in GitHub



- A very lightweight markup language used by GitHub (and Reddit, and Trello)
- Improves formatting while leaving the plain document readable.
- Mostly just regular text with a few non-alphabetic characters thrown in

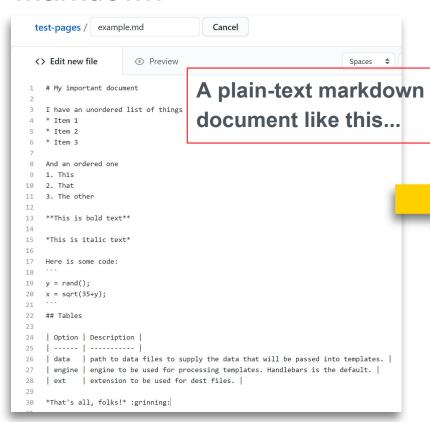


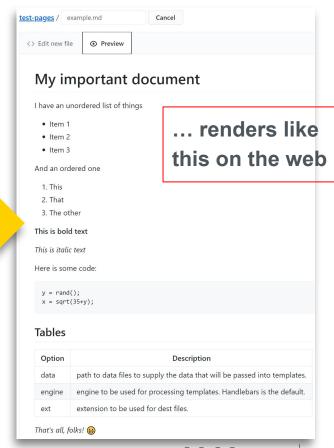
Markdown

Rendered text

Learn more: https://guides.github.com/features/mastering-markdown/

Markdown





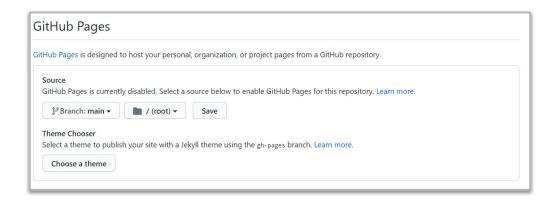




GitHub Pages

"GitHub Pages is a static site hosting service that takes HTML, CSS, and JavaScript files straight from a repository on GitHub, optionally runs the files through a build process, and publishes a website."

GitHub pages also allows you to create webpages from markdown files, using a built-in software called <u>jekyll</u>.



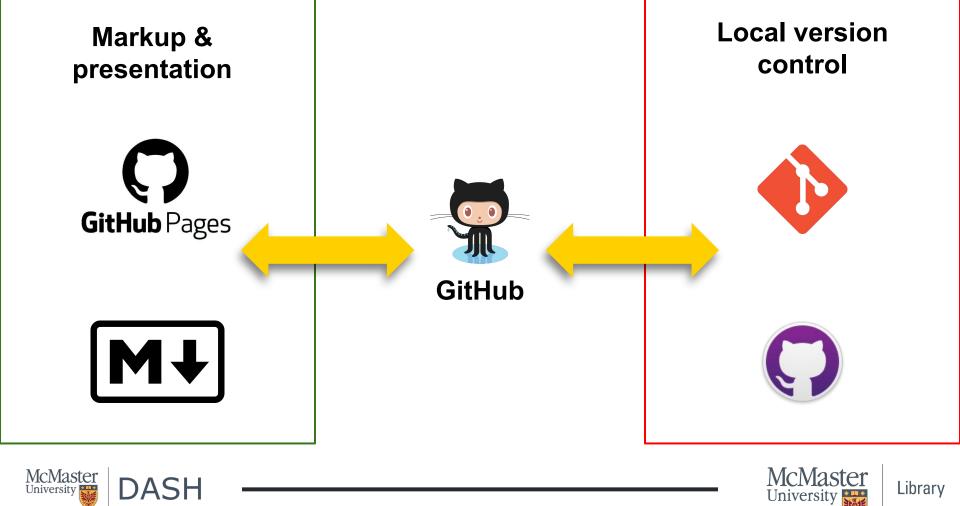












Let's get started!

Go to the workshop website: scds.github.io/github-pages

Follow along with Jay as he works through the exercises OR

Work through the steps on your own (video + instructions provided)

Jay will pause between 2:10-2:20 for questions



