



# Easy websites with GitHub Pages and Markdown

DASH Workshop Series  
Jay Brodeur  
13-February, 2020



**DASH**

# Learning Objectives

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**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 version control files in a GitHub repository
- Use Markdown to format text in a simple yet effective manner
- Use GitHub Pages to create simple static web pages using jekyll
- Describe the basics of versioning and versioning software; communicate their value
- Explain the differences between git and GitHub, and detail how they work together
- Identify where you can find more information to experiment and learn on your own

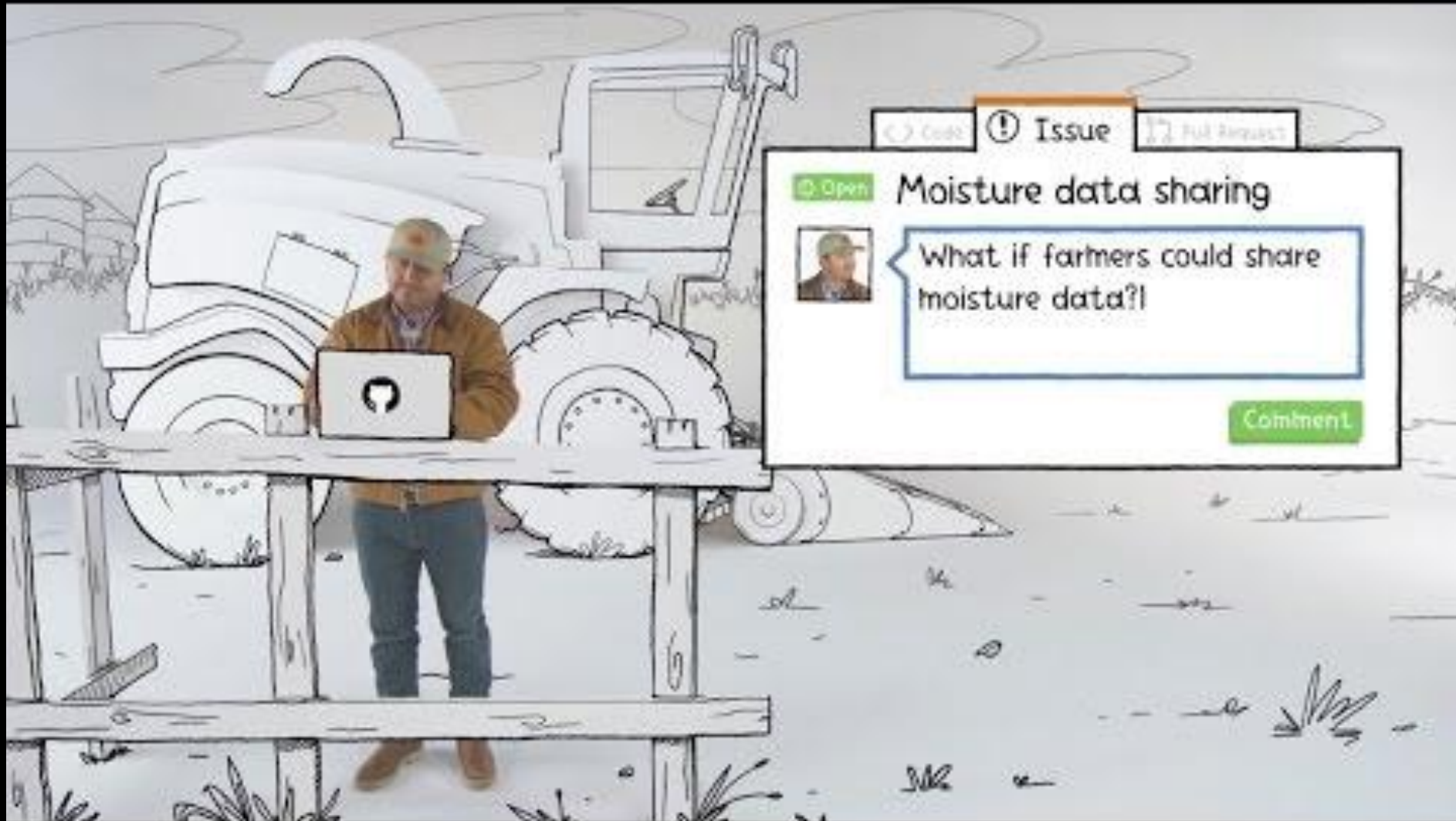
# Lesson 1: GitHub Pages | Learning Markdown

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## Objectives:

- Create a GitHub repository
- Add some content using Markdown
- Turn that content into a static webpage using GitHub Pages & jekyll
- Customize the web pages
- Experiment with embedded html code

What you need to know



<https://youtu.be/w3jLJU7DT5E>

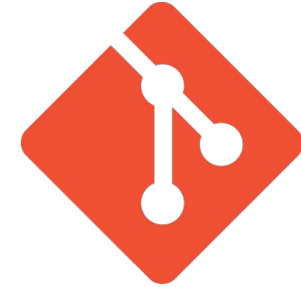
# git, Github, GitHub Desktop

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

**GitHub** is a web-based hosting service for version control using git. It is mostly used for computer code. It offers all of the distributed version control and source code management functionality of git as well as adding its own features.

**GitHub Desktop** is an application that allows you to interact with GitHub (and git, if installed) using a desktop GUI.



# Why use distributed version control?

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**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>
- Documentation — e.g. DCN data curation primers: <https://github.com/DataCurationNetwork/data-primers>
- Books — e.g. Git from the Bottom Up: <https://github.com/jwiegley/git-from-the-bottom-up>
- Websites — e.g. CDCE webpage (using GitHub Pages): <https://github.com/data-curation>

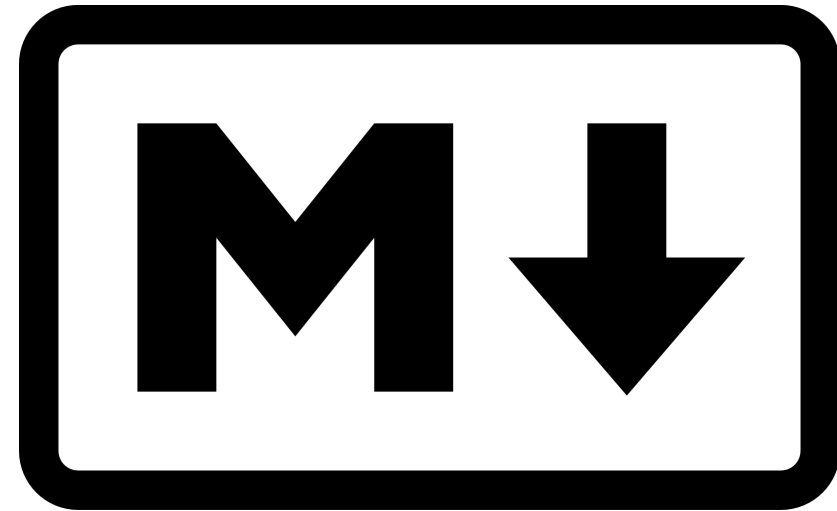
# Markdown

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**Markdown** is a way to style text on the web. You control the display of the document; formatting words as bold or italic, adding images, and creating lists are just a few of the things we can do with Markdown. Mostly, Markdown is just regular text with a few non-alphabetic characters thrown in, like # or \*.

<https://guides.github.com/features/mastering-markdown/>

Github uses Markdown to improve formatting of documents, while leaving the plain document readable.





# jeekyll

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From [jeekyllrb.com](http://jeekyllrb.com)

*“Jekyll is a static site generator. You give it text written in your favorite markup language and it uses layouts to create a static website. You can tweak how you want the site URLs to look, what data gets displayed on the site, and more.”*



Transform your plain text into  
static websites and blogs.

# Why / When Static Web pages?

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- Simplicity
- No database
- No CMS
- Fast
- Minimal
- Design control
- Security
- Convenient hosting

# Let's get started!

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Follow along with Jay.

Full instructions at:

<https://jasonbrodeur.github.io/DASH-githubpages/>

(Navigate to lesson 1)

# Lesson 2: Digging into versioning with GitHub Desktop

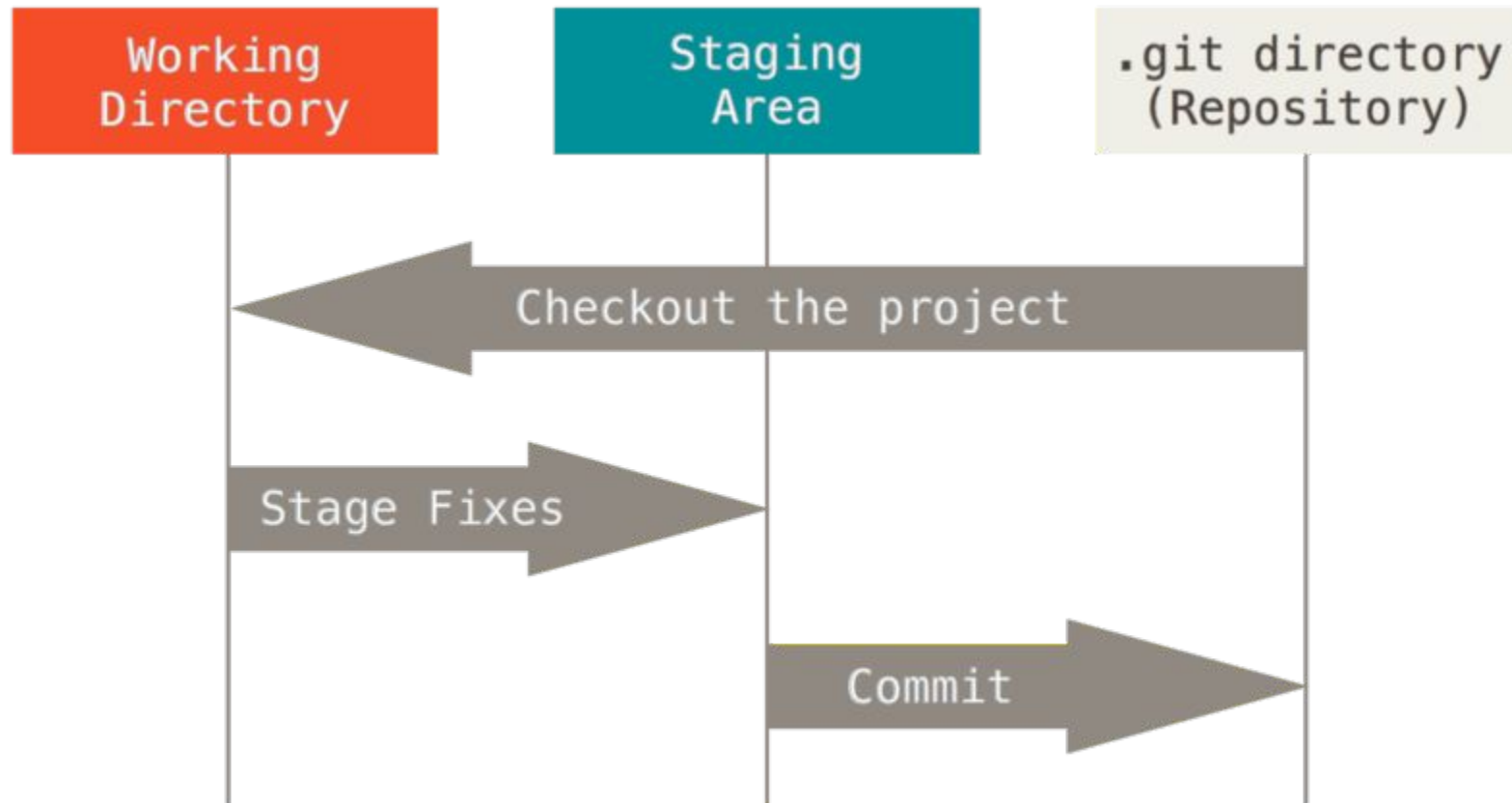
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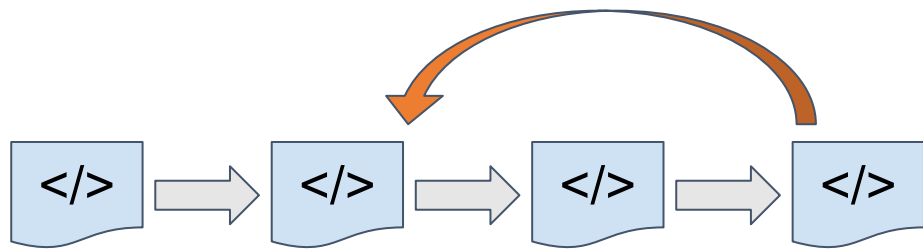
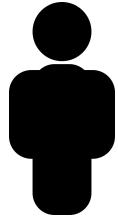
## Objectives:

- Install git and GitHub Desktop software
- ***Clone*** your GitHub repository to your local machine
- Use GitHub Desktop to control versions on local changes
- Push changes back to GitHub (and pull new changes back down)
- Fork a repository

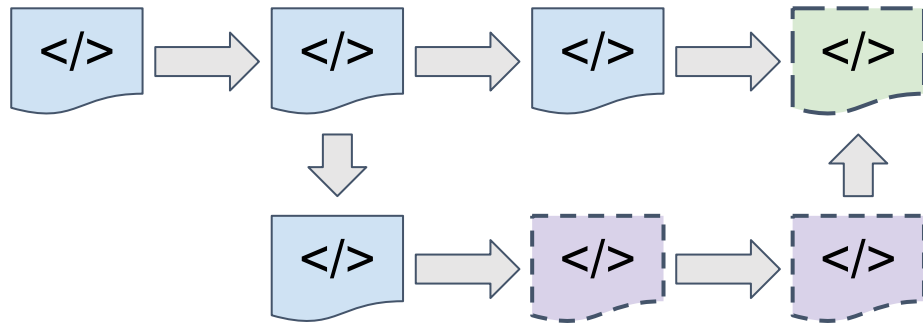
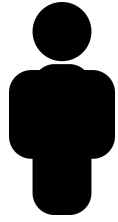
What you need to know

# How git works

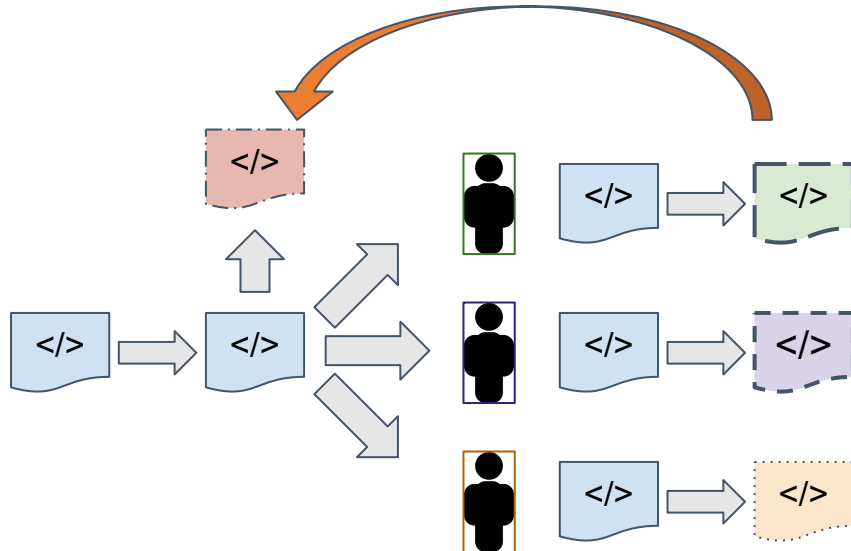




**Manage versions, revert to previous ones**



**Branch versions  
Merge changes**



**Disseminate & share  
Enable modification  
Manage contributions  
Merge changes & manage development**

# Let's get started!

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Follow along with Jay.

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(Navigate to lesson 2)



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### Level

### Software

### Custom Tags

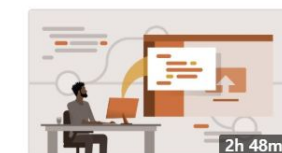
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