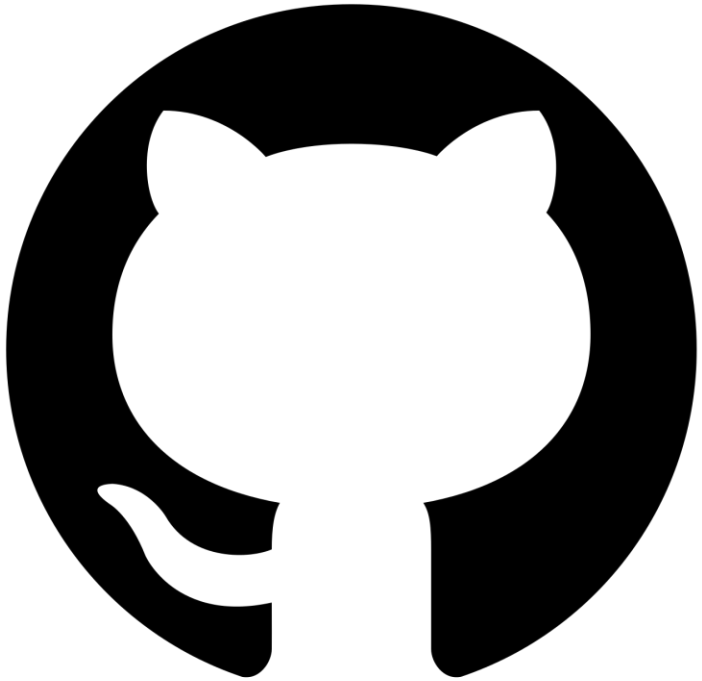


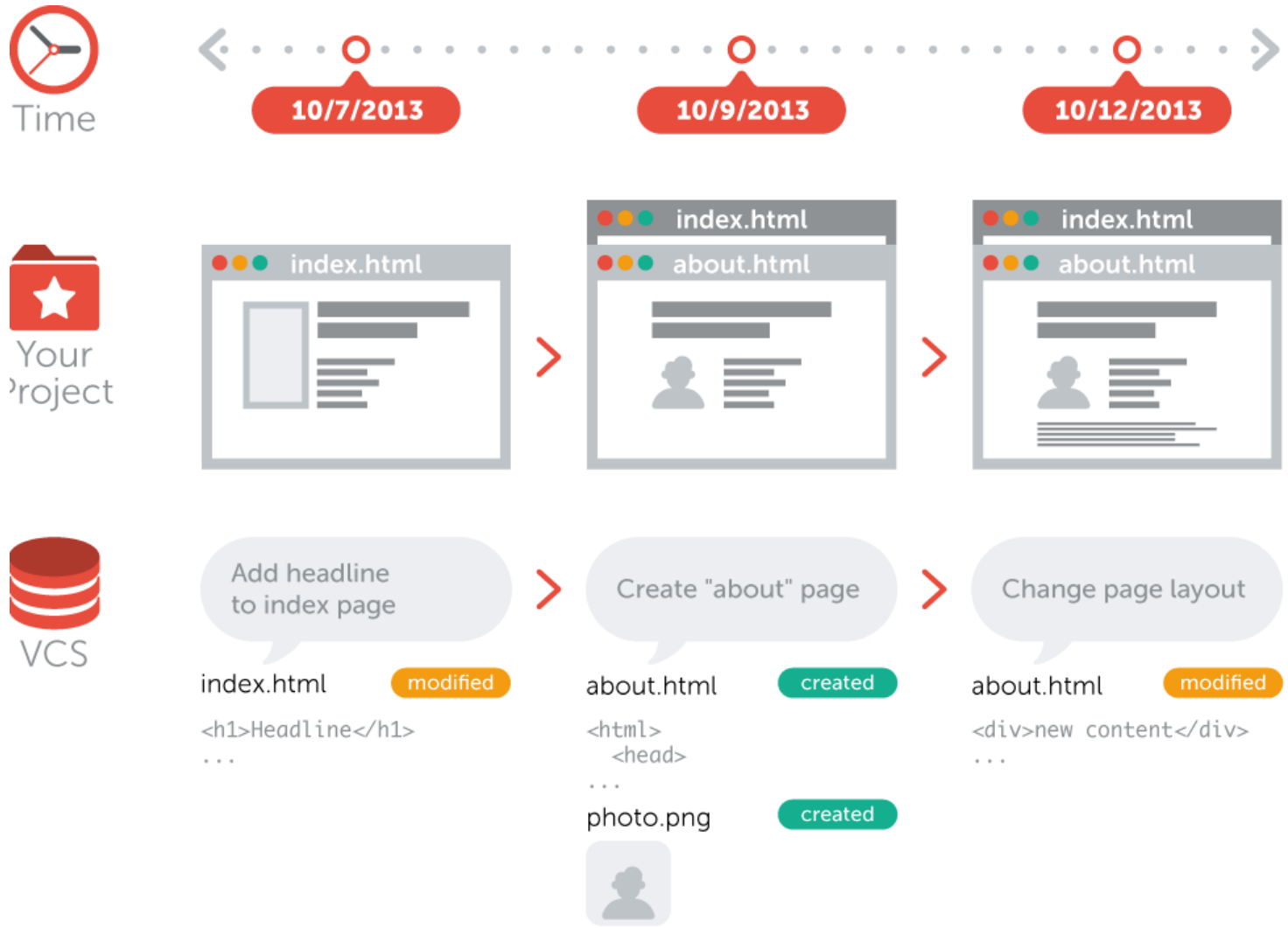
Microsoft

Git, GitHub and Version Control

GitHub Basics

What is Version Control?

Development of a Webpage

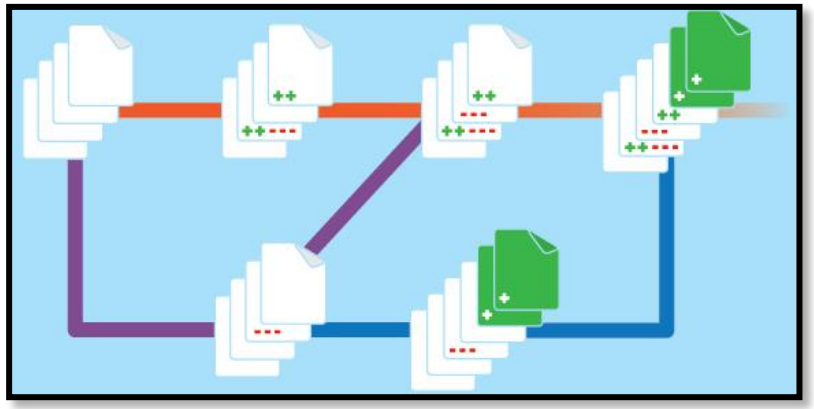


Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/what-is-version-control#start

Microsoft

What is Version Control?

Think of ***version control*** as a ***database*** that stores information about the changes made to the different parts of a project. By storing that information, you can **track** all the changes made and ***go back*** to previous versions.



Version control is ***independent*** of the type of ***project*** and ***technology***

Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/what-is-version-control#start

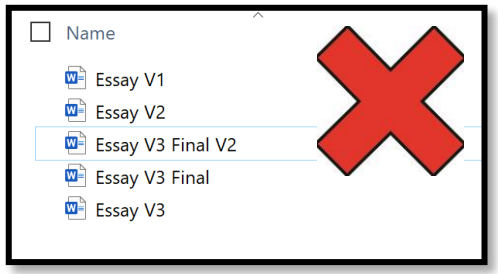
Reference: https://www.linode.com/docs/development/version-control/how-to-configure-git/

Microsoft

Why Version Control?

Team **Collaboration**

Correctly Storing Versions



Technology **Agnostic**

Project Backup

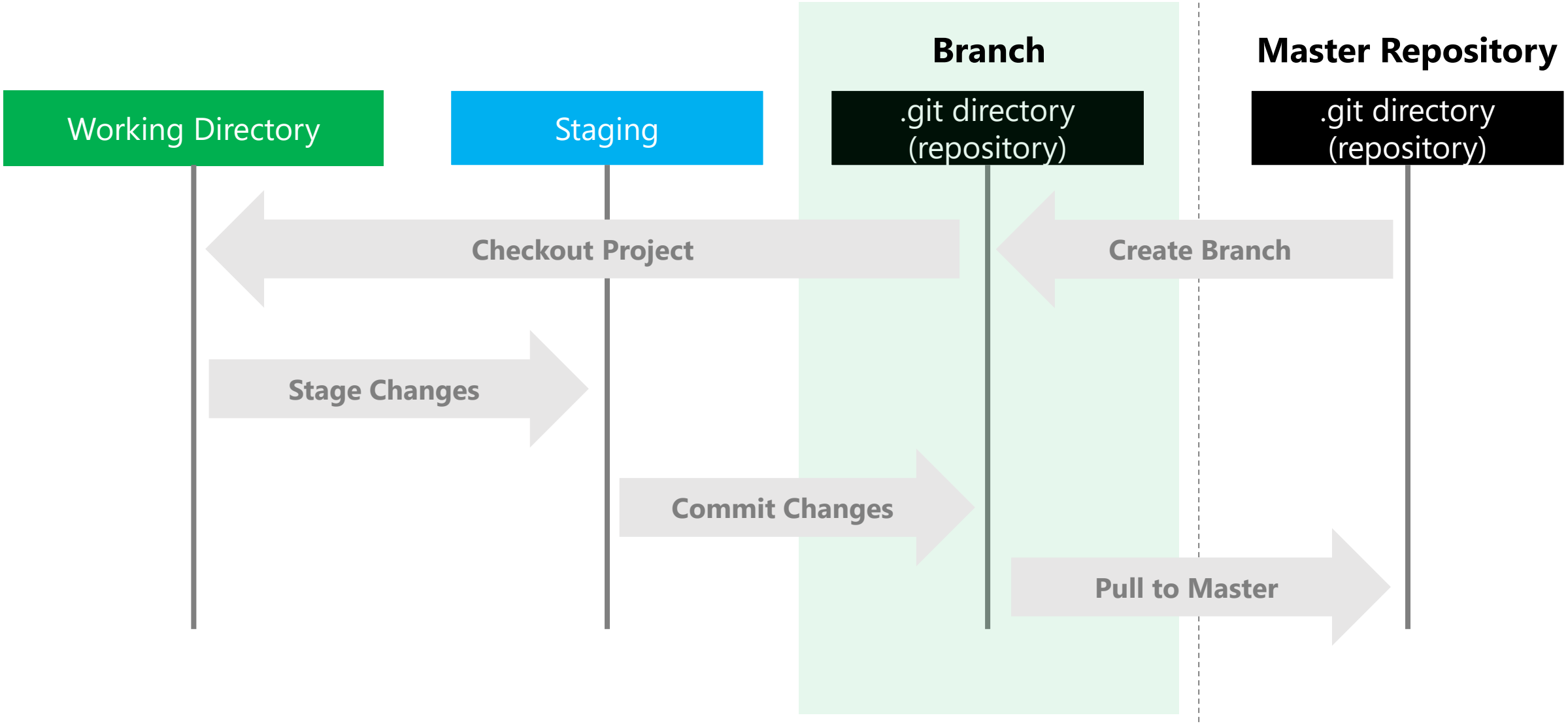
Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/why-use-version-control#start

Microsoft

What is Git?

Microsoft

The Git Workflow



Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/basic-workflow#start

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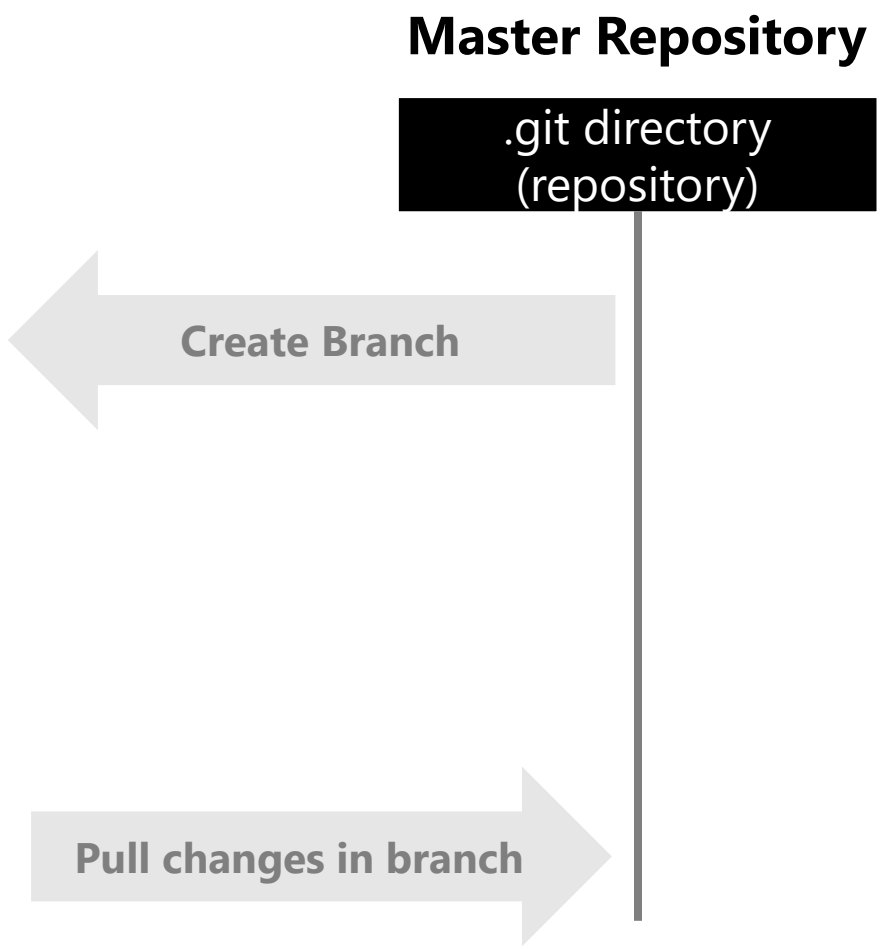
The Git Workflow | Master Repo

The **Master Repository** is the space where the information regarding the project is stored. That information can be anything from **metadata** to the **source code** for your application or webpage.



Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/basic-workflow#start

Reference: https://guides.github.com/activities/hello-world/

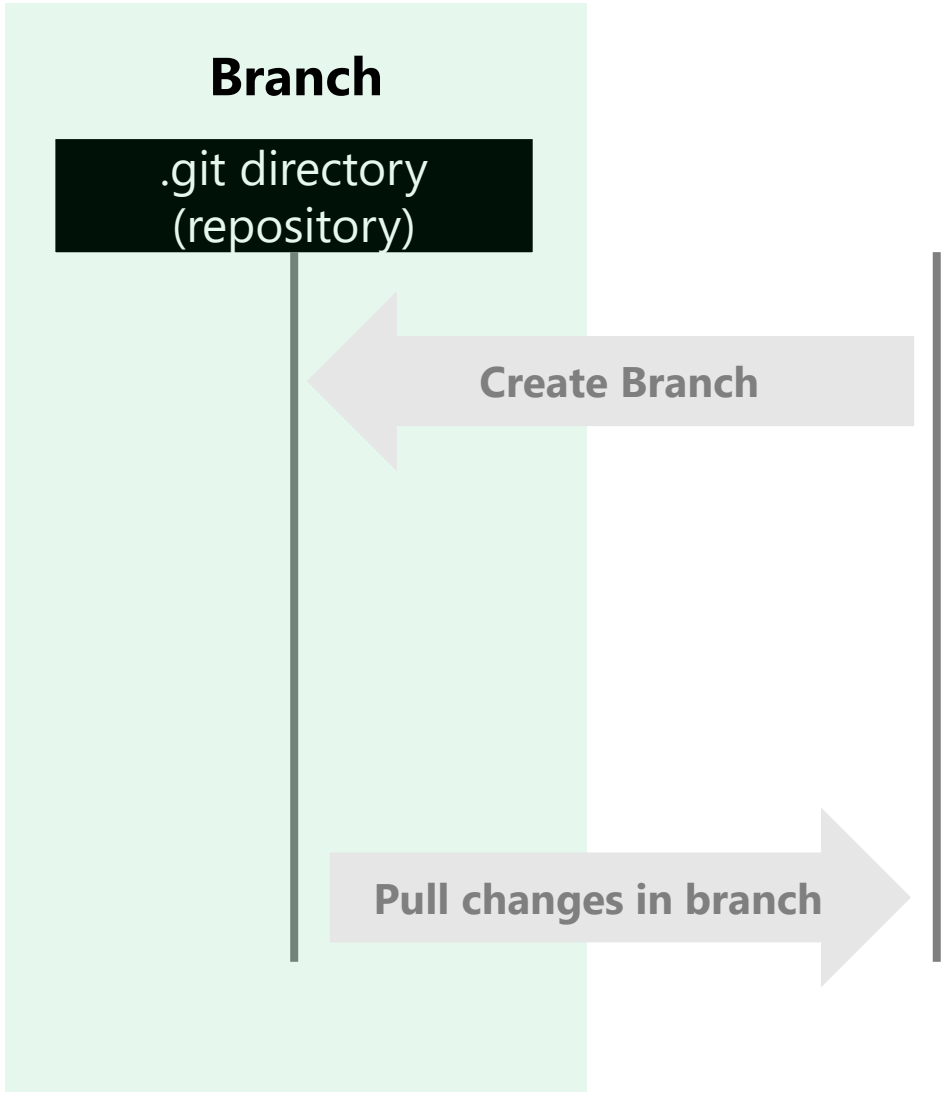
Microsoft

The Git Workflow | Branches

A **Branch** is a different version of the repository. It is created from a snapshot of the main repo, but then it can evolve independently.

One example can be having two environments:

1. **Production Environment**: Main Repo.
2. **Testing Environment**: Branch.

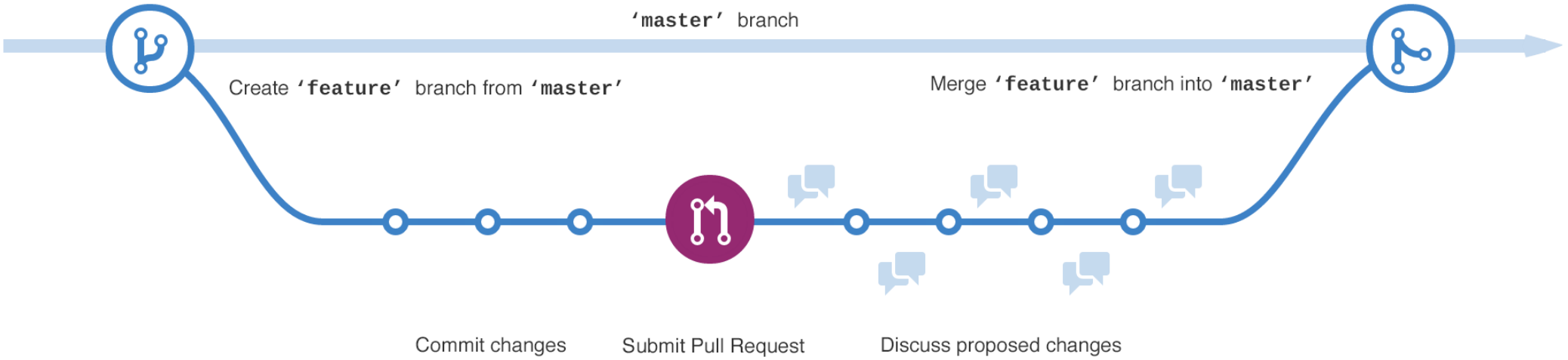


Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/basic-workflow#start

Reference: https://guides.github.com/activities/hello-world/

Microsoft

The Git Workflow | Branches



Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/basic-workflow#start

Reference: https://guides.github.com/activities/hello-world/

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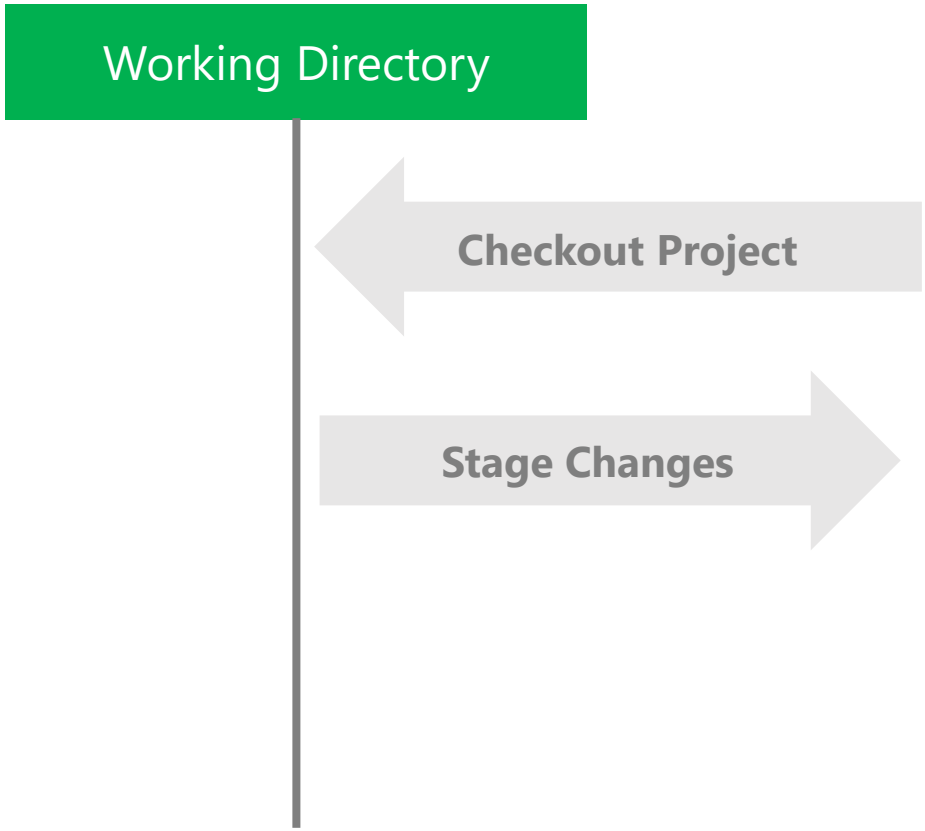
The Git Workflow | Working directory



The **Working Directory** is a local version of your repository (***Branch***) that was extracted at a certain moment in time. This is where you modify your files, once modified, you ***commit*** those changes to your branch.

Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/basic-workflow#start

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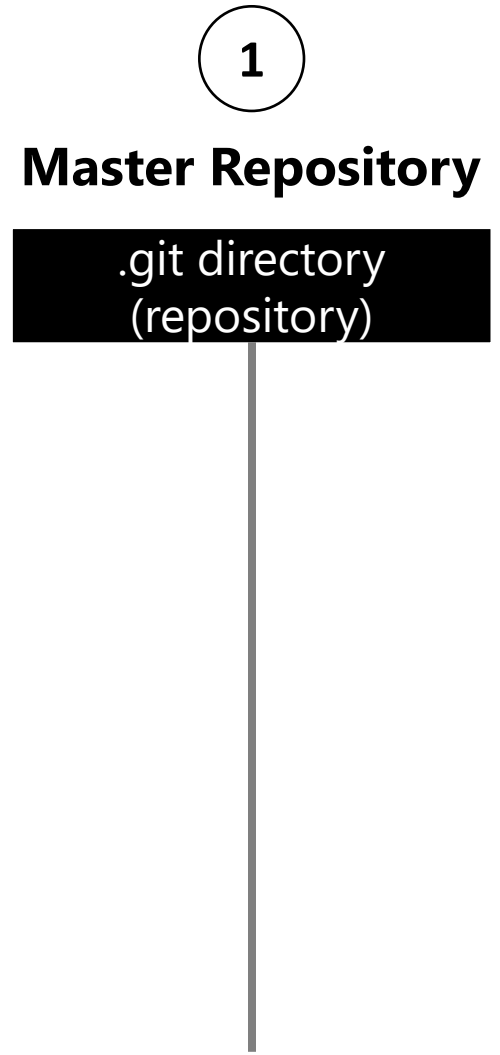
The Git Workflow | Step by Step



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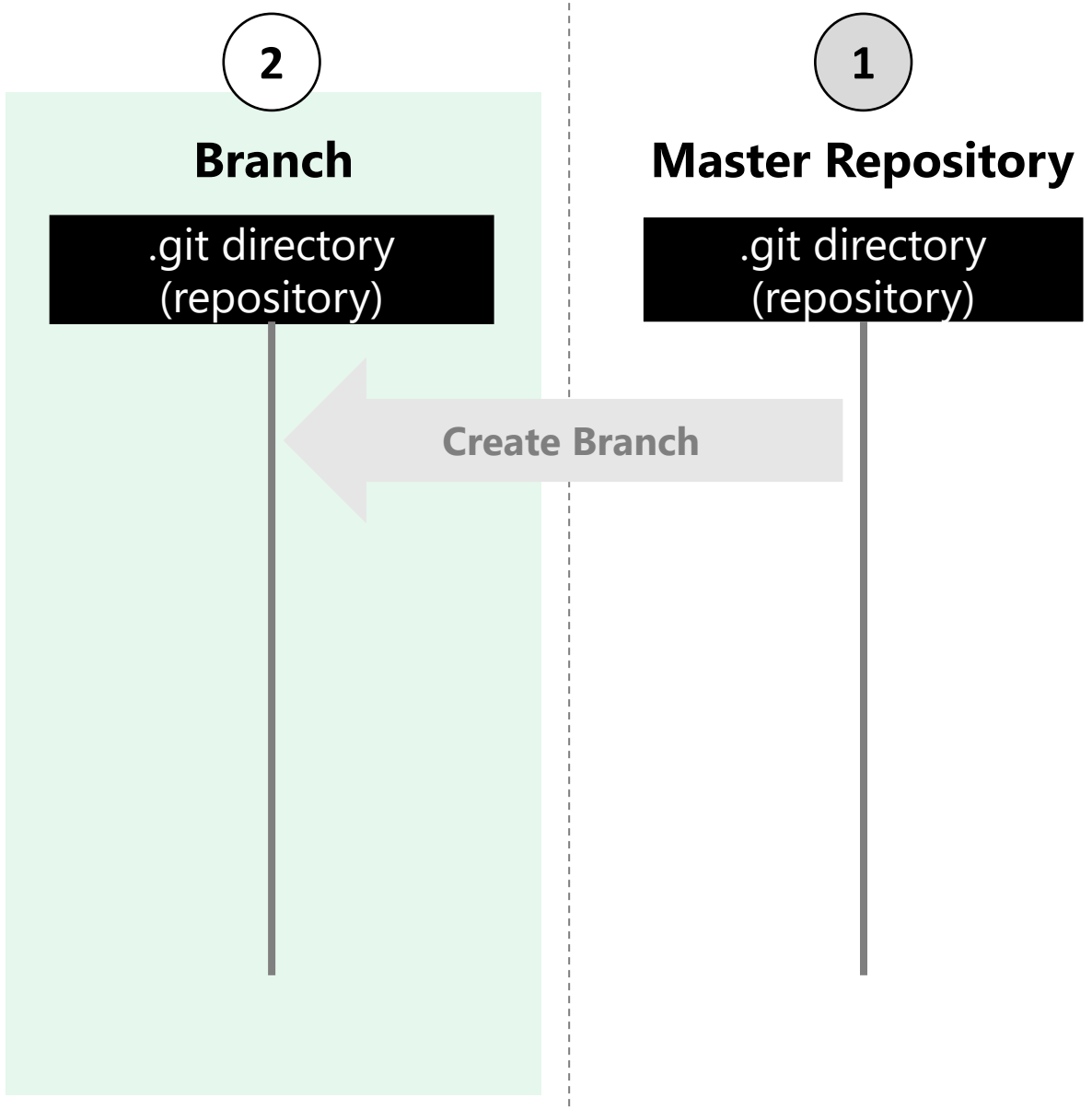
Microsoft

The Git Workflow | Step by Step



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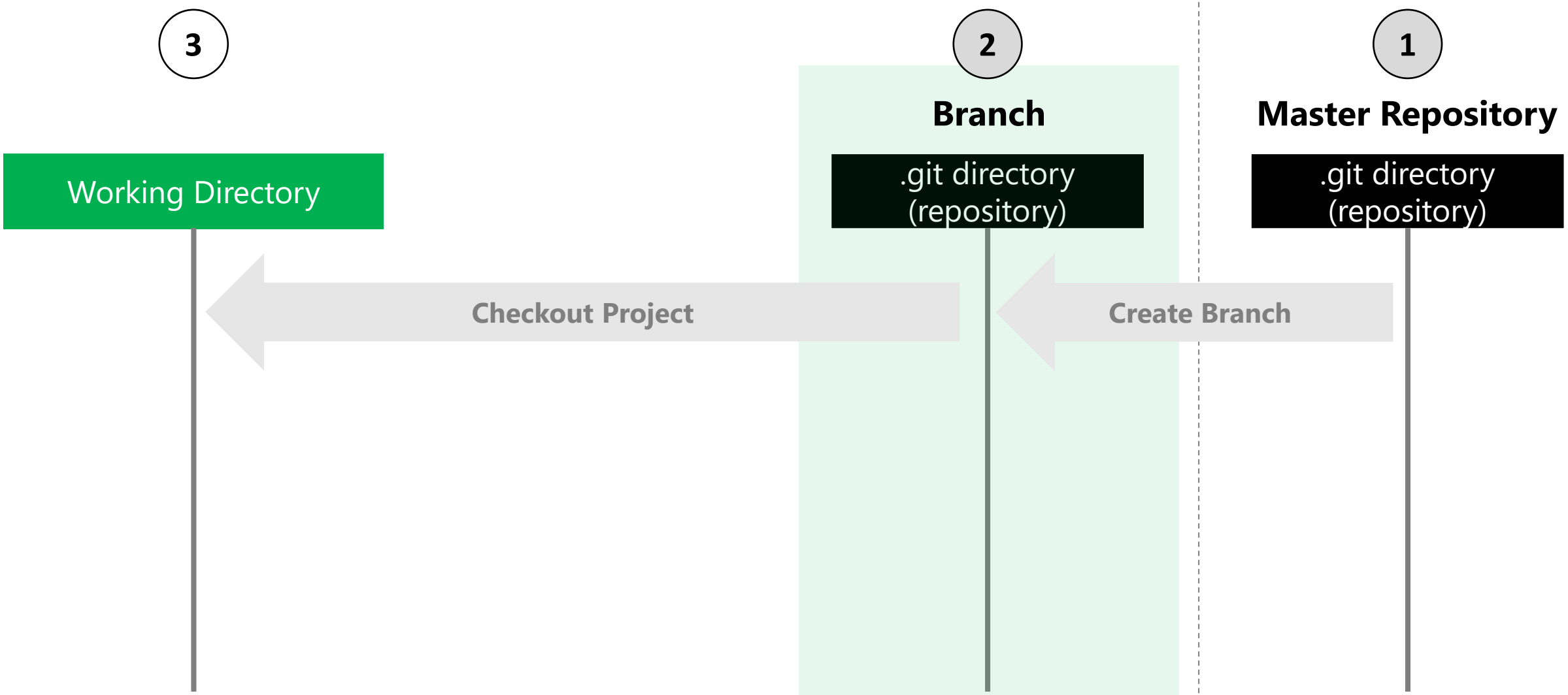
Microsoft

The Git Workflow | Step by Step



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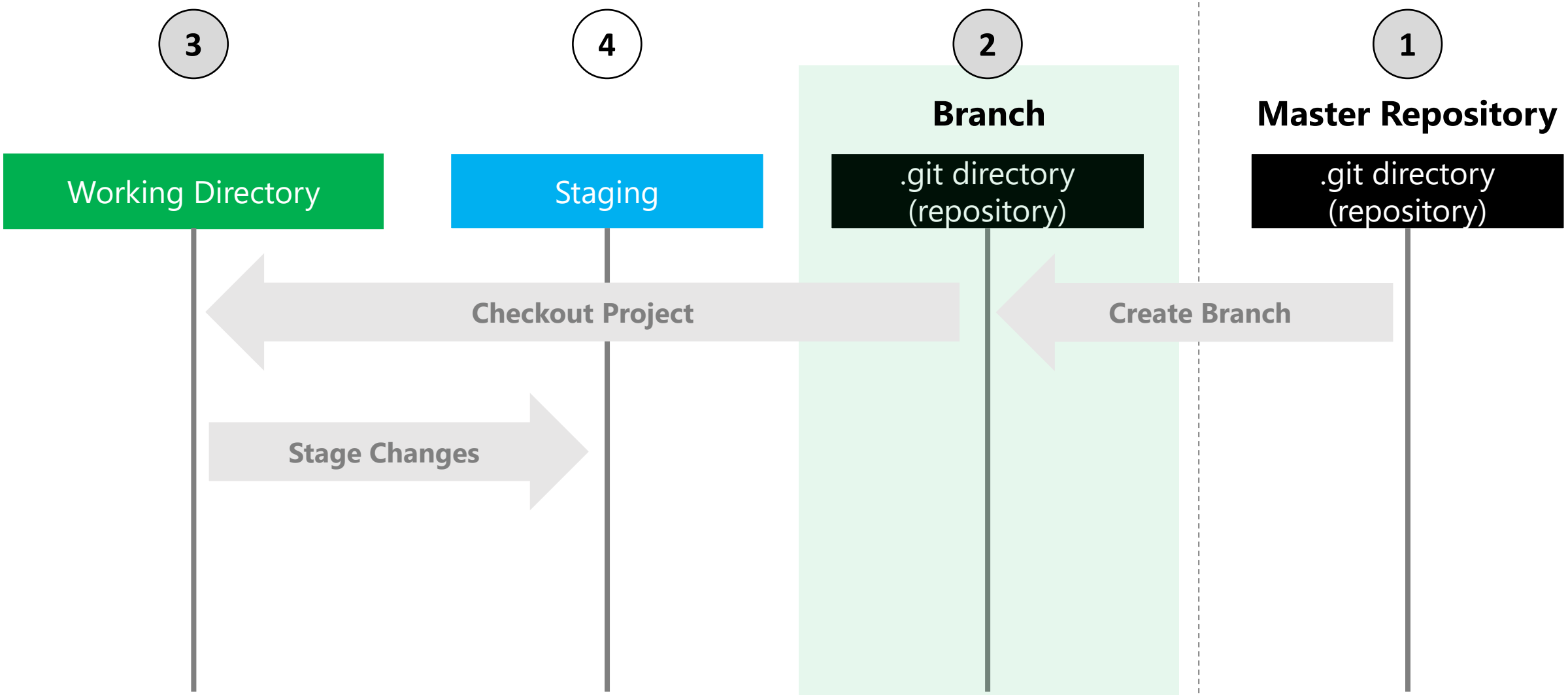
Microsoft

The Git Workflow | Step by Step



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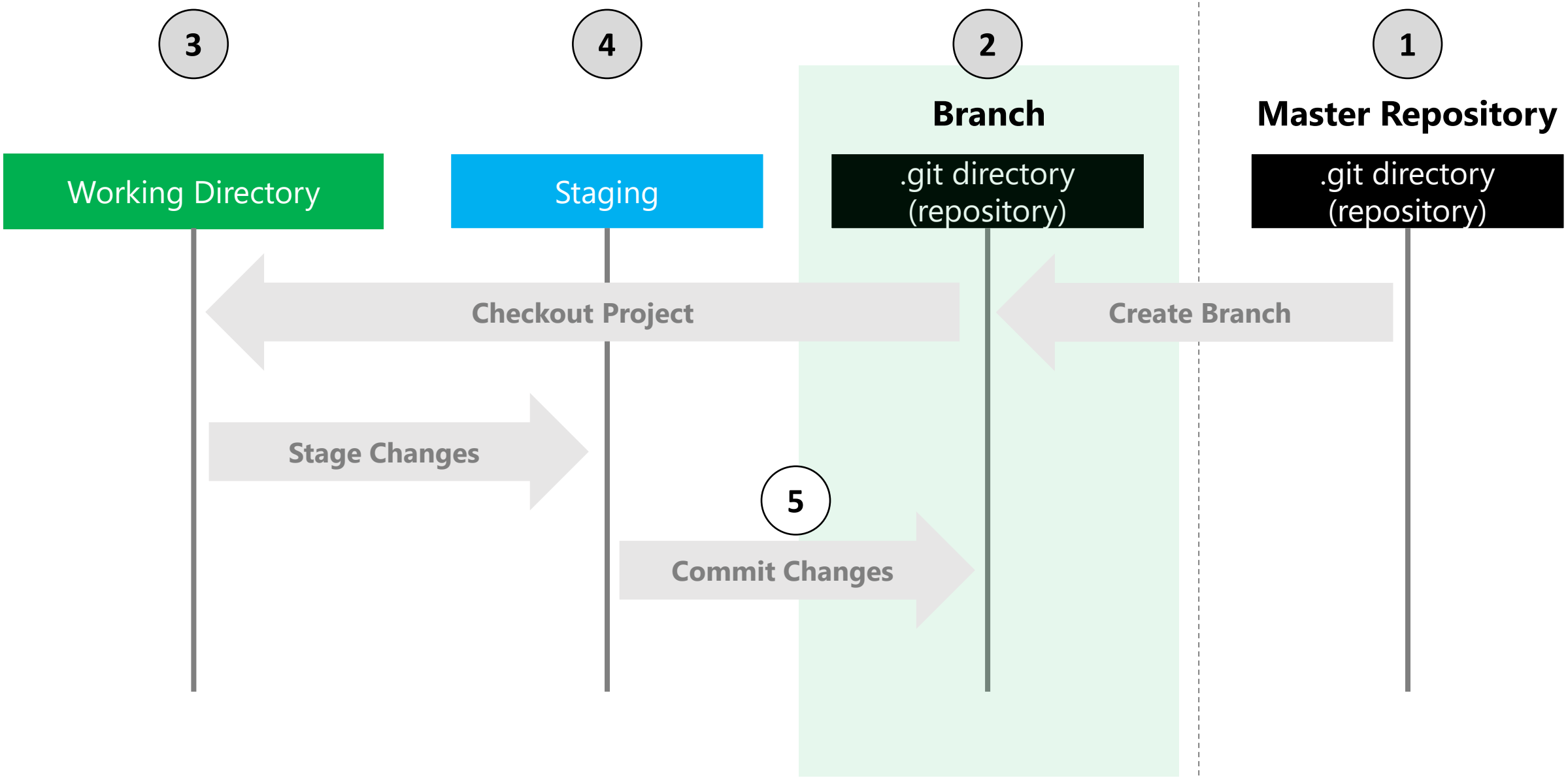
Microsoft

The Git Workflow | Step by Step



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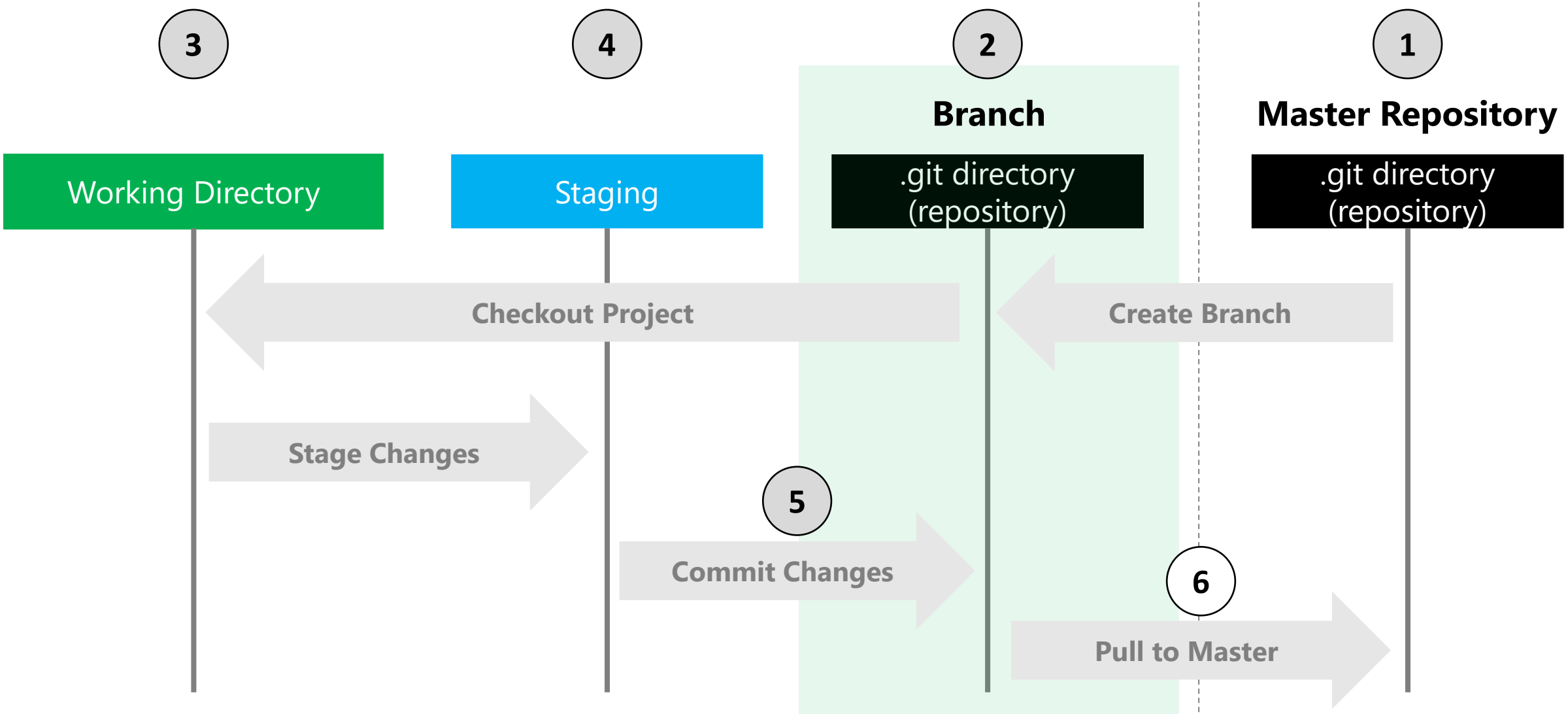
Microsoft

The Git Workflow | Step by Step



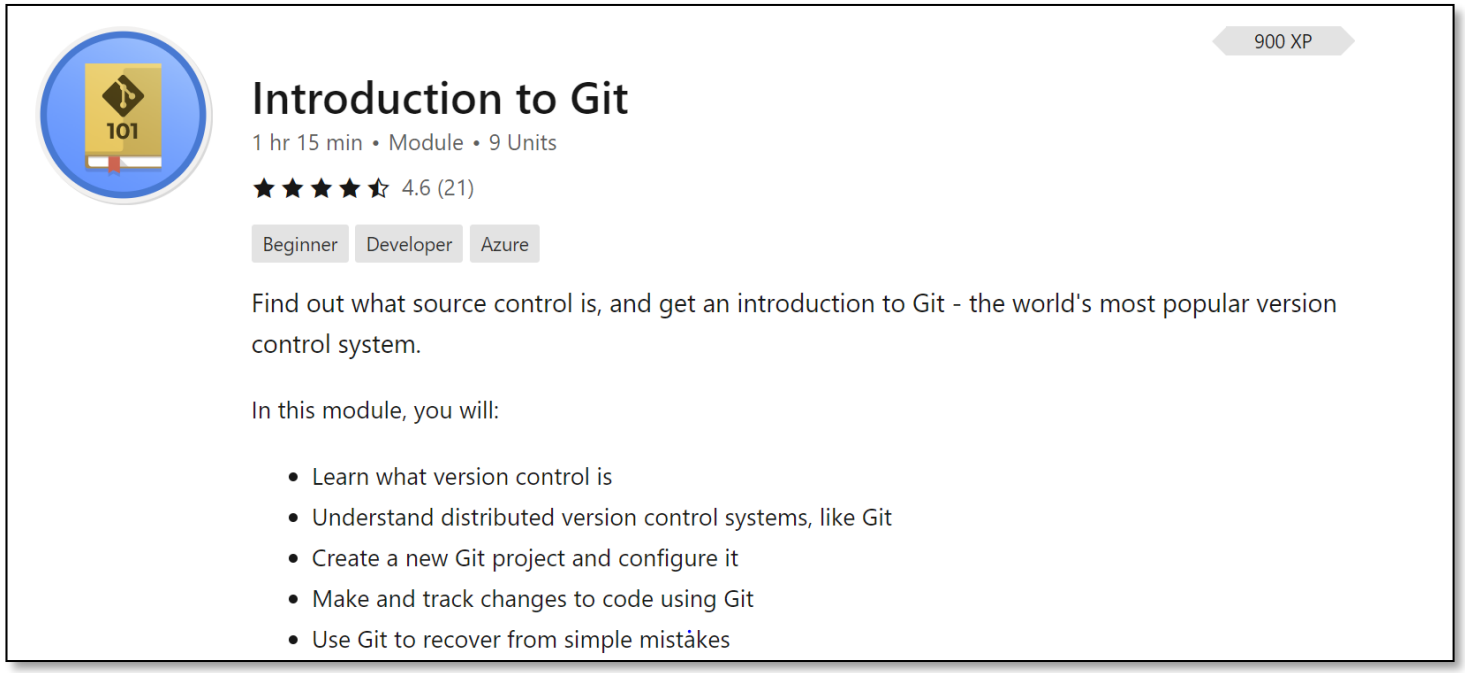
Reference: https://www.git-tower.com/learn/git/ebook/en/desktop-gui/basics/basic-workflow#start

Microsoft

Hands-on with Git

Microsoft

Module 1 | Git & GitHub



Module 1| Git & GitHub

600 XP

Collaborate with Git

55 min • Module • 6 Units

★★★★½ 4.4 (16)

Beginner | Developer | Azure

Use Git to track changes to source code and collaborate with other developers

In this module, you will:

- Clone a repository
- Learn about and make a pull request
- Stash changes
- Push your changes and update your repo by pulling

Module 1| Git & GitHub

600 XP

Edit code through branching and merging in Git

50 min • Module • 6 Units

★★★★☆ 4.2 (15)

Beginner | Developer | Azure

Level up your Git knowledge by learning about how to keep code separate using branches and how to merge them later

In this module, you will:

- Understand what Git branches are
- Create new branches and switch between branches
- Merge branches together
- Learn basic techniques for resolving merge conflicts