Git & GitHub Resources

## Installing Git

Install Git / Git Bash by putting a request in via OCIO’s ESD Service Portal.

* Once in the Service Portal, go to Submit IT Request > Software Install and select Git for Windows in **Select Software** dropdown
  + Note: Business justification is required for this software install.
* The Git for Windows download link can be found here: <https://git-scm.com/downloads>

## Creating a GitHub Account

* Navigate to <https://github.com/>.
* Click **Sign up**.
* Follow the prompts to create your personal account.

See this GitHub resource page for more information on getting started: <https://docs.github.com/en/get-started/start-your-journey/creating-an-account-on-github>

## Connecting Git/GitHub to RStudio

If you’re interested in using Git and GitHub integrated within RStudio, Jennifer Bryan has an incredibly helpful guide for setting this up. The guide also includes information on installing Git. We recommend walking through this guide step-by-step.

[Happy Git and GitHub for the useR](https://happygitwithr.com/index.html)

## Precipio Resources

For more Git and GitHub trainings, check out these resources available at DOL through Precipio/LearningLink!

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| **Course** | **Duration** | **Content** |
| [Introduction to Git](https://dol.percipio.com/courses/56998c70-118b-11e8-9e9d-ad2bc8a1896e/videos/a147efe0-118c-11e8-9e9d-ad2bc8a1896e) | 1 hr | * Basics, Installation, Configuration * Text Editors * Git Repositories |
| [Git & GitHub: Introduction](https://dol.percipio.com/courses/24f5b7c1-d44d-47fb-9bb7-7c71d127bee2/videos/0ddc023b-d779-4d7a-b666-d9826e7fd76a) | 0.5 hrs | * Intro to Version Control * Features of Git * Branching and Merging in Git * Git Repositories in GitHub |
| [Git & GitHub: Using GitHub for Source Code Management](https://dol.percipio.com/courses/6cd118bf-4084-4431-9a73-4b317ba99978/videos/6b7215fb-030a-4151-8679-a63da7956811) | 1.5 hrs | * Pull Requests * Merge Conflicts * Project Management Features |
| [Git & GitHub: Working with Git Repositories](https://dol.percipio.com/courses/72663338-f4fc-4402-8c39-81c325fa5e22/videos/3a82b3eb-277e-49aa-ad9f-552c36255d1d) | 1.5 hrs | * Creating Repositories * Commits and Pushes * Add, Modify, and Delete Files * Branching and Merging |
| [Working with Git for your Software Projects](https://dol.percipio.com/courses/34a92a50-118e-11e8-9e9d-ad2bc8a1896e/videos/7884afb0-118e-11e8-9e9d-ad2bc8a1896e) | 1 hr | * Commits * Git History * File Management in Git |
| [Working with GitHub](https://dol.percipio.com/courses/357776d0-118e-11e8-9e9d-ad2bc8a1896e/videos/fd600a60-1191-11e8-9e9d-ad2bc8a1896e) | 1 hr | * Managing a GitHub Account * GitHub Web Interface and Command Line * Collaborative Features and Workflows |