

# Hands-on: Configuring and Using Git with RStudio

Practical Reproducibility

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2017-09-11

# Data & Visualization Services

[library.duke.edu/data](https://library.duke.edu/data)



[rfun.netlify.com/git/slides](https://rfun.netlify.com/git/slides)  
for slide annotations, keystroke: *P*

# Outline

1. Git
2. GitHub and GitLab and Bitbucket
3. Markdown
4. Orchestrating with RStudio

**Git** is a *Version Control System*



Image Credit: [Brandon Rasmussen](#)

5 / 20

# Repositories



Image Credit: [Dennis Reimann](#)

- Source Code Management
- Track changes in any file set



Image Credit: [OpenClipart.org](#)

# Social **git** Repositories

# Git Repositories



Image Credit: [Wikimedia Commons](#)

- Social Coding
- Sharing
- Collaboration
- Track Issues



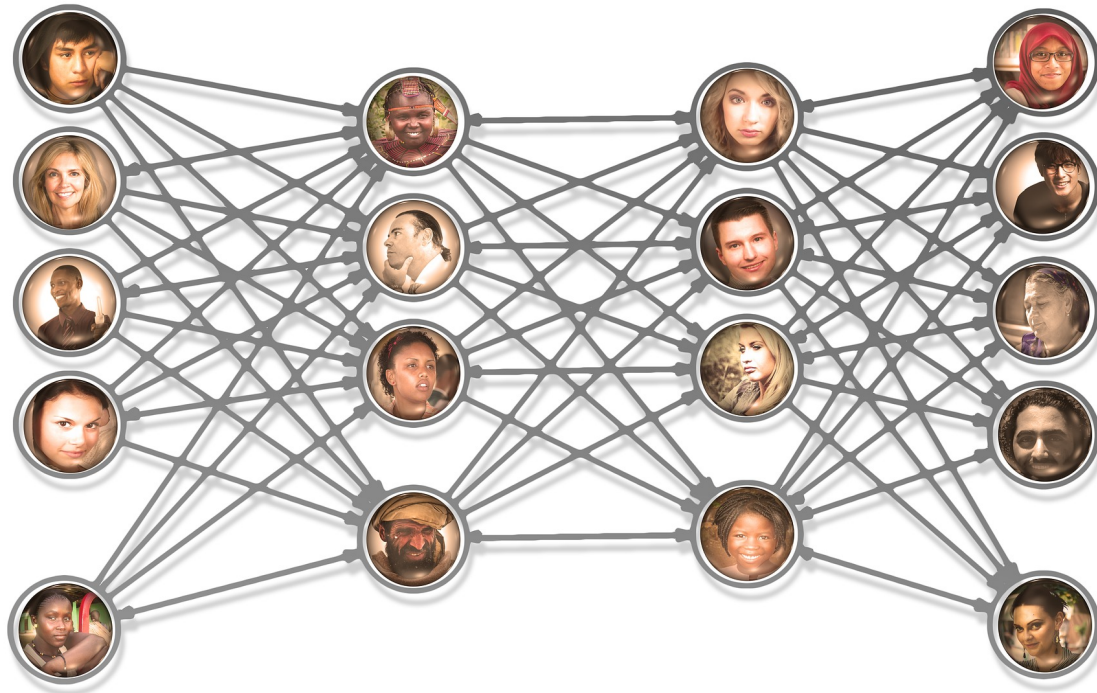


Image Credit: [PixaBay](#)



GitLab

GitHub



# Duke's GitLab

[gitlab.oit.duke.edu](https://gitlab.oit.duke.edu)

# Duke's GitLab v Public Hubs

Category	Duke's GitLab	Public Hubs
Private Repo	by Default	\$\$
Public Repo	Yes	by Default
Duke NetId	Yes	No
User Community	Duke University -- can synchronize to public hubs	Largest Available

Public Hubs are defined as GitHub, BitBucket, and the public GitLab.

# Markdown

# Heading

## Sub-heading

### Another deeper heading

Text attributes

*\*italic\**, **\*\*bold\*\***, ``monospace``.

A [link](http://example.com).

Bullet list:

- apples
- oranges
- pears

Numbered list:

1. apples
2. oranges
3. pears

## Sub-heading

### Another deeper heading

*italicized*, **bold**, monospace

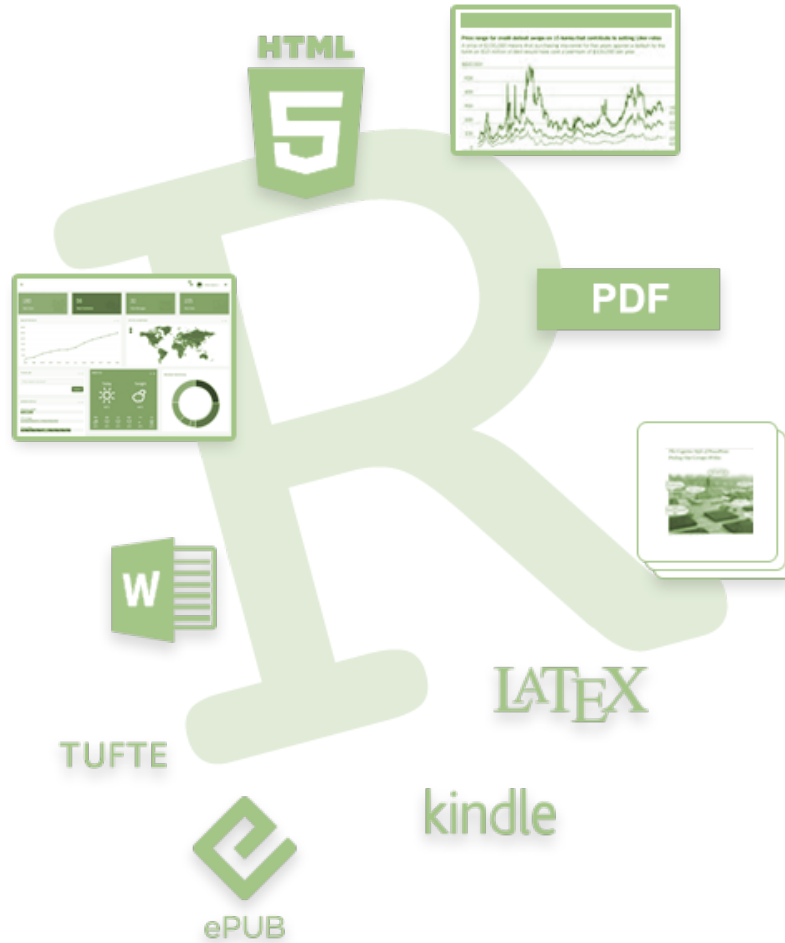
A [link](#)

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# Reproducible Data Science

Integrate your reproducible workflow using *Literate Coding* practices in *R*  
then generate reports directly from analysis

R Notebooks + R Markdown + Git



# Rstudio & Git

# Orchestrating with RStudio

- Masks the CLI
- Easier to get started
- PowerUsers can still use commands

# Thank You For Attending

## I am ...

- John Little
- <https://johnlittle.info>
- <http://github.com/libjohn>

### Schedule Me

- <http://v.gd/littleconsult>

## We are...

- Data & Visualization Services
- <http://library.duke.edu/data>
- The /Edge, Bostock (1st Floor)

### Walk-in Hours

- [Schedule](#)

### Our Workshops

- [Current Workshops](#)
- [Past Workshops](#)

### Contact Us

- [askData@Duke.edu](mailto:askData@Duke.edu)

# Shareable

Data, presentation, and handouts



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