

WKTAF 14-15 June 2022

Transparent Assessment Framework for Stock Assessment

Introduction to GitHub

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Science for sustainable seas



Introduction to GitHub

- Git
- Repositories and branches
- GitHub
- Git with R Studio
- ICES on GitHub



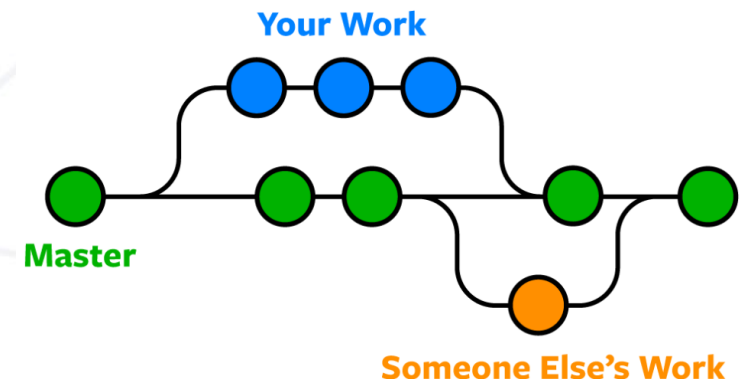
[This Photo](#) by Unknown Author is licensed under [CC BY-SA-NC](#)



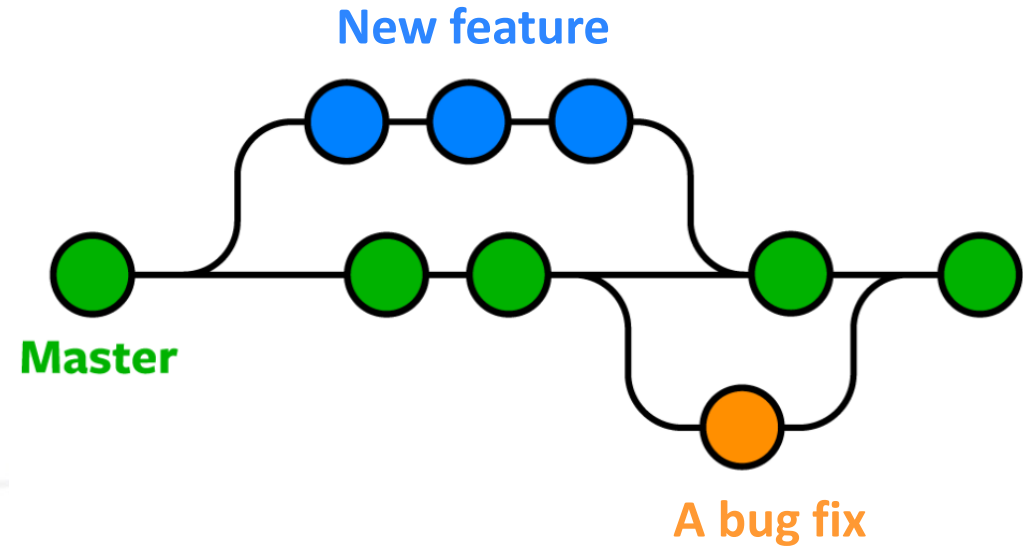
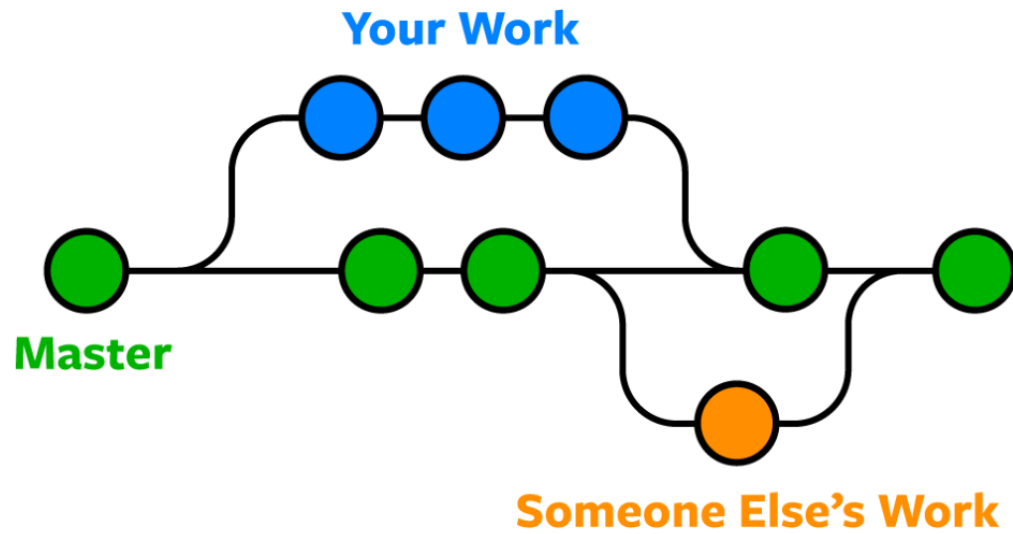
What is Git?



- Git is a widely used **Version Control System**, which lets you track changes you make to your files over time.
- Git is accessible via a command line (terminal), or a desktop app that has a GUI (graphical user interface)
- Gives a team the ability to work on the same code base (master branch) through a well-documented approach (development branches).



Branching your work

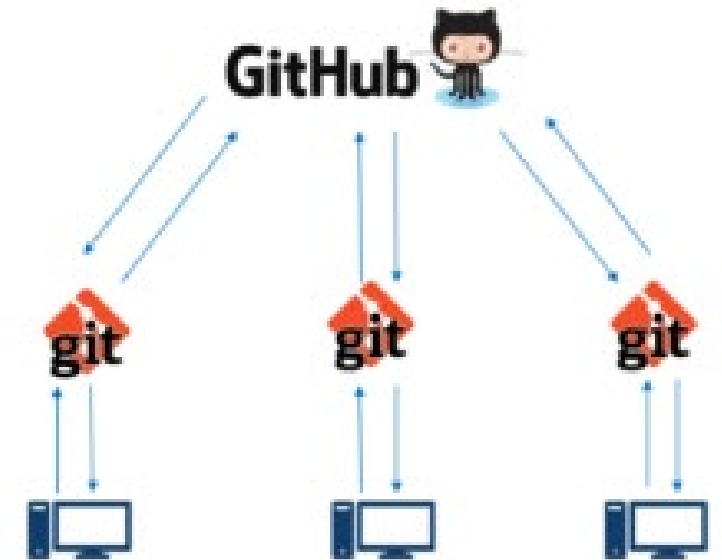


Repositories (Repo's)

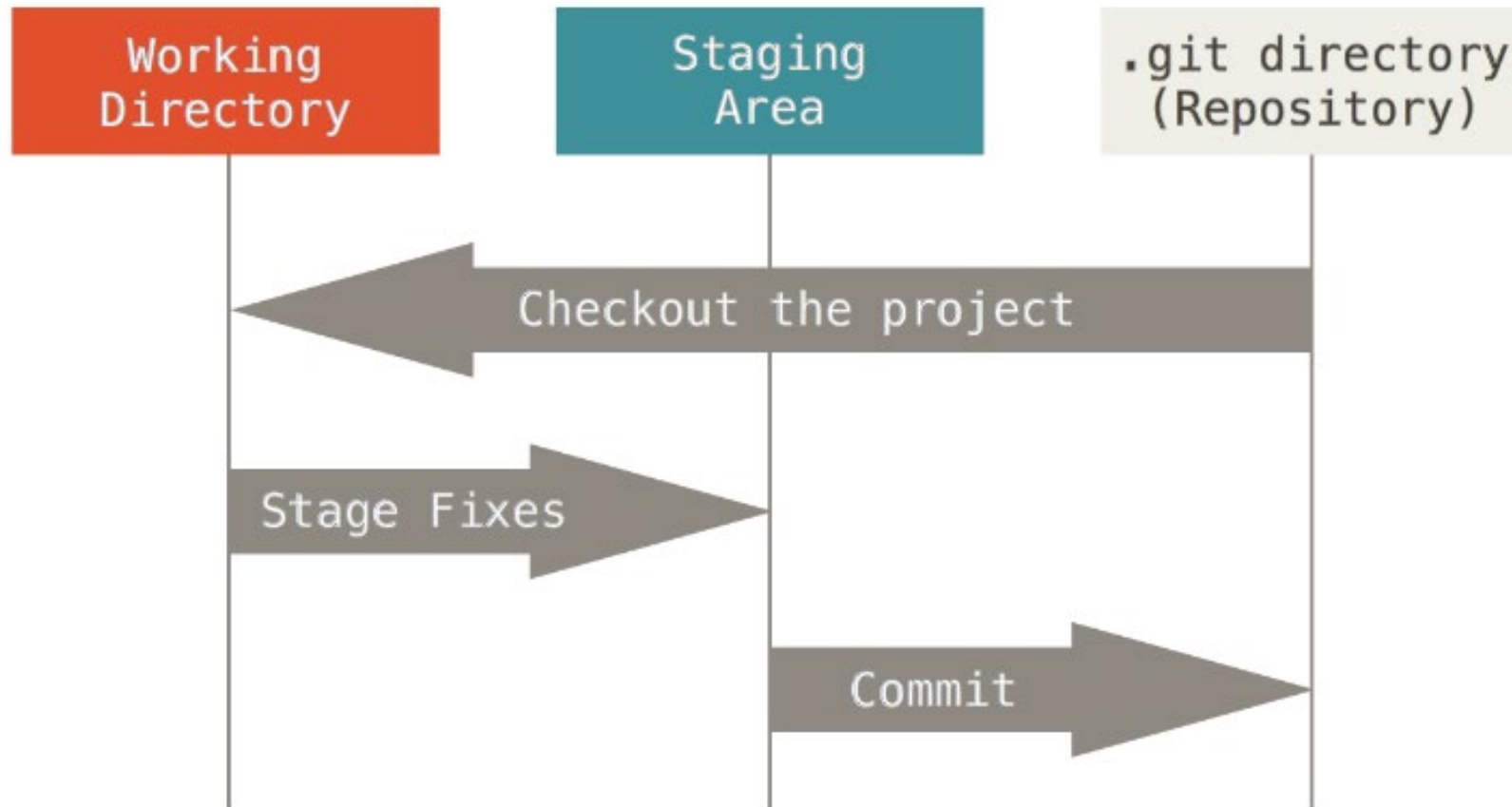
- A repository is where your source code can be stored, contributed to, and managed over time.
- A repository I stored locally or online (e.g. GitHub)
- A single repository is usually used for a single project.

What is GitHub?

- GitHub is an online hosting service for Git repositories.
- GitHub is a file or code-sharing service
- Provides a visual interface to help track or manage your **version-controlled** projects locally through Git.
- It is a tool used by both local and distributed teams collaborating on projects.



The Git workflow



Setup your own repo from GitHub

Create a new repository


A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Repository template

Start your repository with a template repository's contents.


No template ▾


Owner * / Repository name *

 cekv ▾ / GitHub-tutorial ✓

Great repository names are short and memorable. Need inspiration? How about [special-enigma?](#)

Description (optional)

☒  **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**
You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒ **Add a README file**
This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore


Choose which files not to track from a list of templates. [Learn more.](#)


.gitignore template: None ▾

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

License: None ▾

This will set  **main** as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

Create repository

Setup your own repo from GitHub



cekv / GitHub-tutorial Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

About

No description, website, or topics provided.

Readme 0 stars 1 watching 0 forks

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

cekv Initial commit 434c465 1 minute ago 1 commit

README.md Initial commit 1 minute ago

README.md

GitHub-tutorial

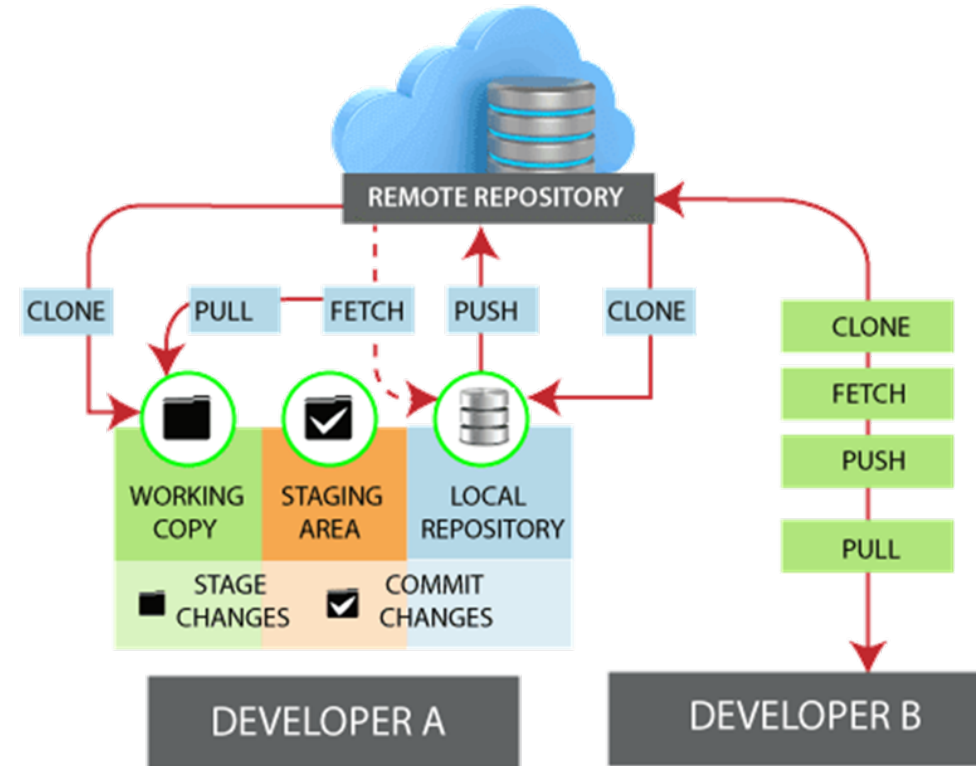
Git with R studio



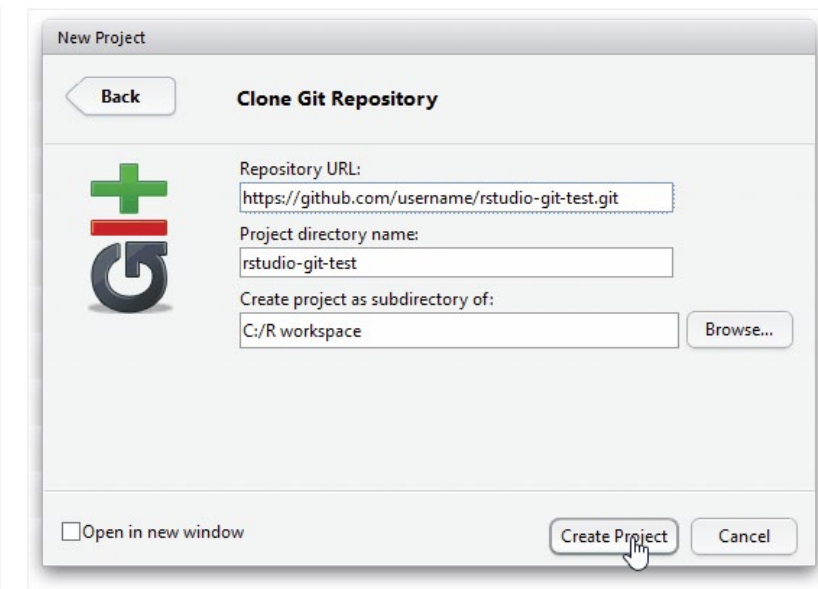
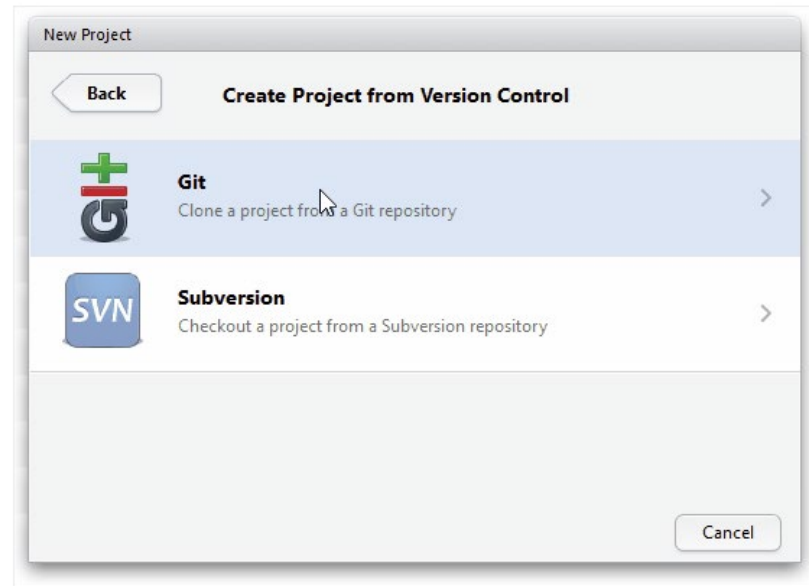
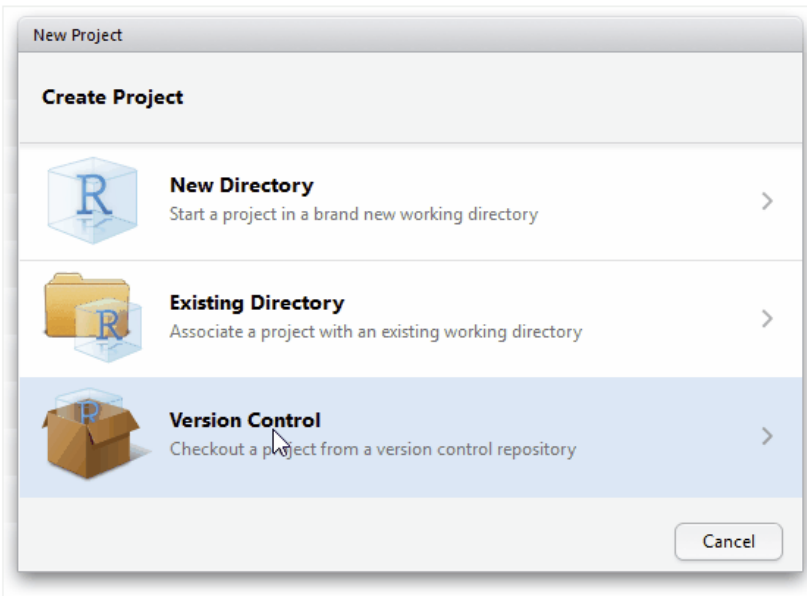
- A GitHub account.
- Git installed on your computer.
- RStudio configured to use git (<https://support.rstudio.com/hc/en-us/articles/200532077-Version-Control-with-Git-and-SVN>).
- Either clone an existing repo or create a Git repo from work you have already started in R.
- Using directories already under version control (local)
- Creating a new project based on a remote Git repository (e.g. From GitHub)

Git with R studio

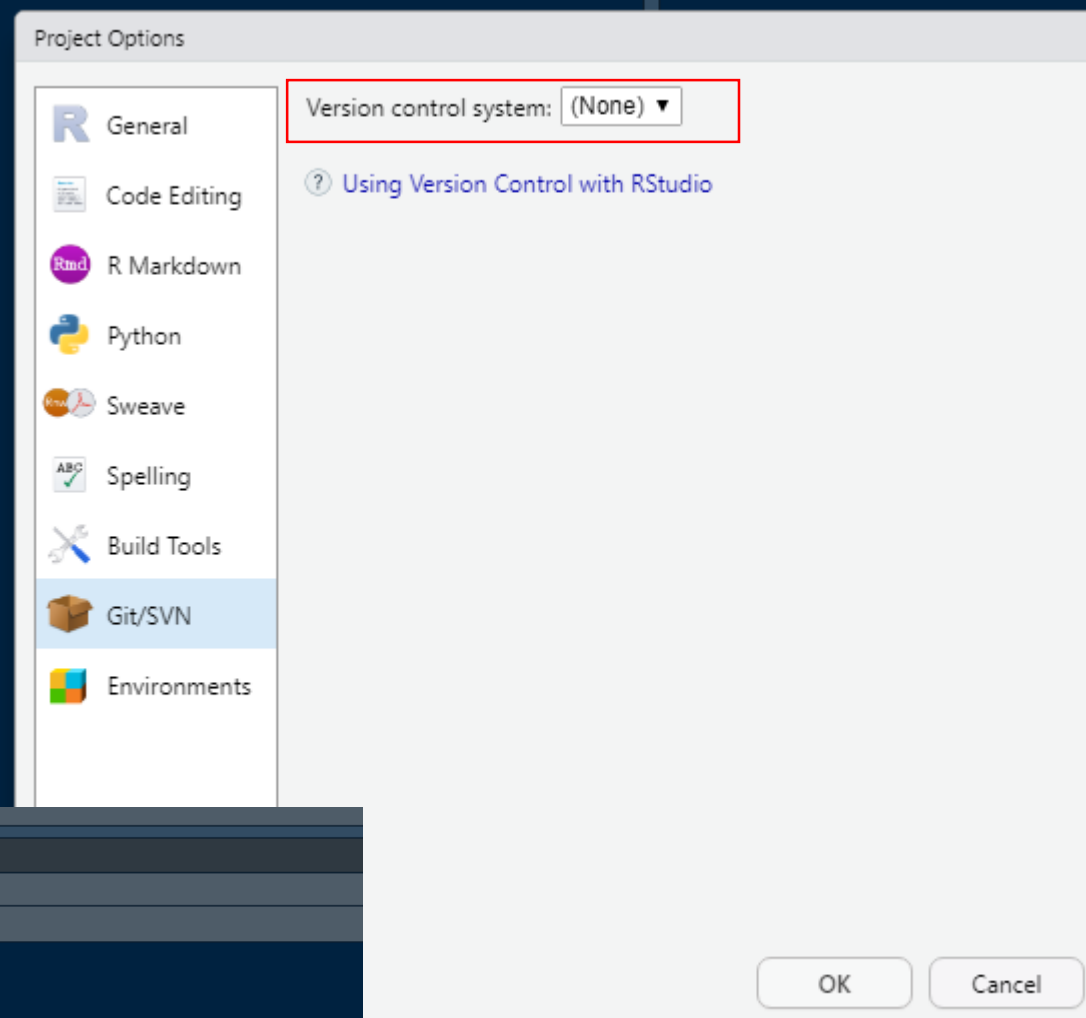
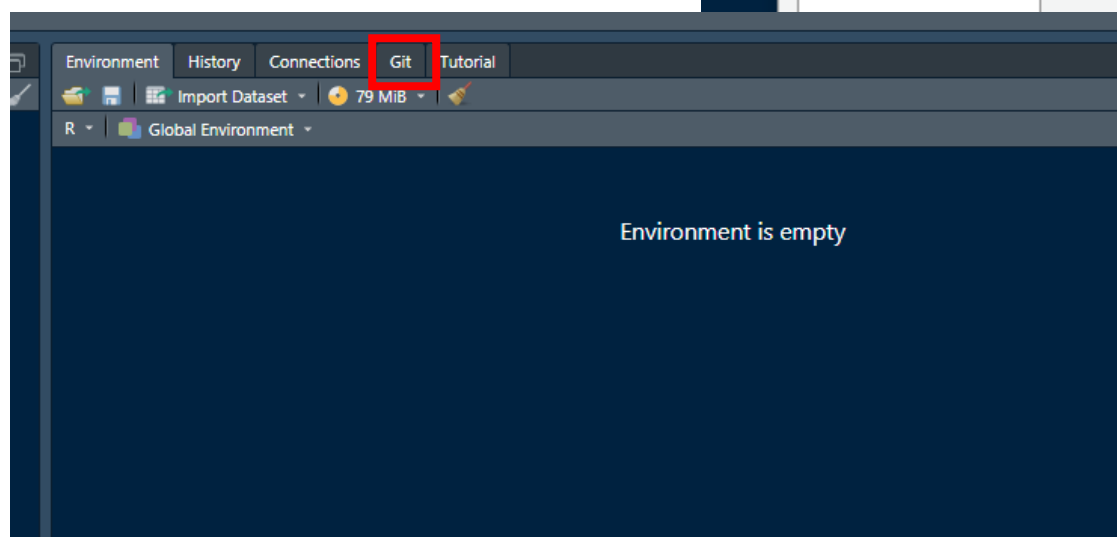
- Clone (download repo)
- Fetch (get changes)
- Push (upload changes)
- Pull (merging of your local and the remote repository)



Clone a Git version control project in R Studio



Tools > Version control > Git



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)


Repository template

Start your repository with a template repository's contents.

No template ▾

Owner *

Repository name *

 cekv ▾

/ Work stuff ✓

Great repository name! Your new repository will be created as Work-stuff. ? How about laughing-broccoli?

Description (optional)

Small things i do for work side projects

☒  Public

Anyone on the internet can see this repository. You choose who can commit.

☐  Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒ Add a README file

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)


.gitignore template: None ▾

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

License: GNU Affero General ... ▾


This will set  main as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

Create repository



Quick setup — if you've done this kind of thing before

 Set up in Desktop

or

HTTPS

SSH



Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# Work-stuff" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:cekv/Work-stuff.git
git push -u origin main
```



...or push an existing repository from the command line


```
git remote add origin git@github.com:cekv/Work-stuff.git
git branch -M main
git push -u origin main
```



...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

[Import code](#)

 **ProTip!** Use the URL for this page when adding GitHub as a remote.

```
110
93:1 (Top Level) R Script

Console Terminal x Jobs x
Terminal 1 MINGW64:/d/Cecilia/Documents/ceciliak/Work stuff

ceciliak@ICES371 MINGW64 /d/Cecilia/Documents/ceciliak/Work stuff (main)
$ git remote add origin https://github.com/cekv/Work_stuff.git

ceciliak@ICES371 MINGW64 /d/Cecilia/Documents/ceciliak/Work stuff (main)
$ git branch -M main

ceciliak@ICES371 MINGW64 /d/Cecilia/Documents/ceciliak/Work stuff (main)
$ git push -u origin main
Enumerating objects: 31, done.
Counting objects: 100% (31/31), done.
Delta compression using up to 8 threads
Compressing objects: 100% (29/29), done.
Writing objects: 64% (20/31), 91.66 MiB | 544.00 KiB/s
.
```

Microsoft SQL Server Management Studio 18

main 1 branch 0 tags

Go to file

Add file

Code



cekv Initial commit for course materials

039dd19 1 minute ago 1 commit



Tidyverse R playbook

Initial commit for course materials

1 minute ago



Udemy courses

Initial commit for course materials

1 minute ago



creating-visualizations-base-r-graphics

Initial commit for course materials

1 minute ago



.gitignore

Initial commit for course materials

1 minute ago



All things R Data Science.R

Initial commit for course materials

1 minute ago



R training.Rproj

Initial commit for course materials

1 minute ago

Help people interested in this repository understand your project by adding a README.

Add a README

At

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No

Put

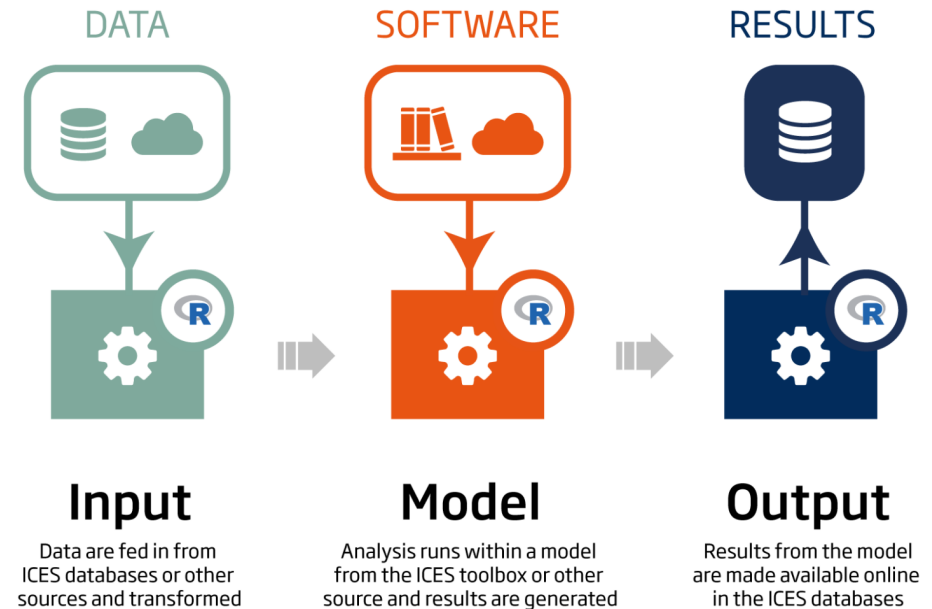
La



ICES on GitHub – Transparent Assessment Framework



- ICES has 4 GitHub sites
 - ⚙ TAF
 - ⚙ Expert Groups / Workshops
 - ⚙ ICES tools development
 - ⚙ ICES tools production



master

4 branches

29 tags

Go to file

Add file

Code



arni-magnusson Bump date

✓ 0e7c09f on Apr 6, 2021

687 commits

R	Not objects in memory	14 months ago
data	Update taf.colors	4 years ago
man	Not objects in memory	14 months ago
tests/Examples	Update tests	14 months ago
.Rbuildignore	submitted to CRAN	2 years ago
.gitignore	rename to TAF and remove non-core functions	15 months ago
.travis.yml	Simplify .travis.yml	2 years ago
DESCRIPTION	Bump date	14 months ago
LICENSE	Create LICENSE	2 years ago
NAMESPACE	rewrite read.bib to remove jsonlite dependency	15 months ago
NEWS.md	Bump date	14 months ago
README.md	Link to TAF package on CRAN	15 months ago

About

Functions to support the ICES Transparent Assessment Framework

Readme

GPL-3.0 license

2 stars

4 watching

0 forks

Releases 29

CRAN release 4.0.0 Latest
on Apr 8, 2021

+ 28 releases

Contributors 5



Get started!

- Signup for a GitHub account (<https://github.com/join>)
- Download Git (<https://git-scm.com/downloads>)
- Setup Git with GitHub (<https://docs.github.com/en/get-started/quickstart/set-up-git>)
- Create a repository (<https://docs.github.com/en/get-started/quickstart/create-a-repo>)



Usefull links

ICES Github pages

<https://github.com/ices-tools-prod>

<https://github.com/ices-tools-dev>

<https://github.com/ices-eg>

<https://github.com/ices-taf/doc/wiki>

GitHub help page

<https://docs.github.com/en>

ICES TAF page

<https://www.ices.dk/data/assessment-tools/Pages/transparent-assessment-framework.aspx>

Other links fro Git and GitHub

<https://happygitwithr.com/index.html>