

bcgov North Area R Geospatial Workshop

Tuesday, November 5th 2019
Prince George, B.C.

<https://github.com/bcgov/bcgov-r-geo-workshop>

Afternoon Objectives

- 1) Version Control w/ Git
- 2) Using Git w/ GitHub
- 3) Project Management w/
RStudio
- 4) bcgov GitHub

"FINAL".doc



FINAL.doc!



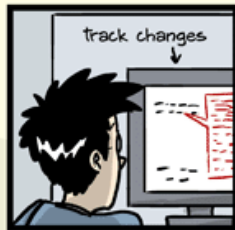
FINAL_rev.2.doc



FINAL_rev.6.COMMENTS.doc



FINAL_rev.8.comments5.
CORRECTIONS.doc

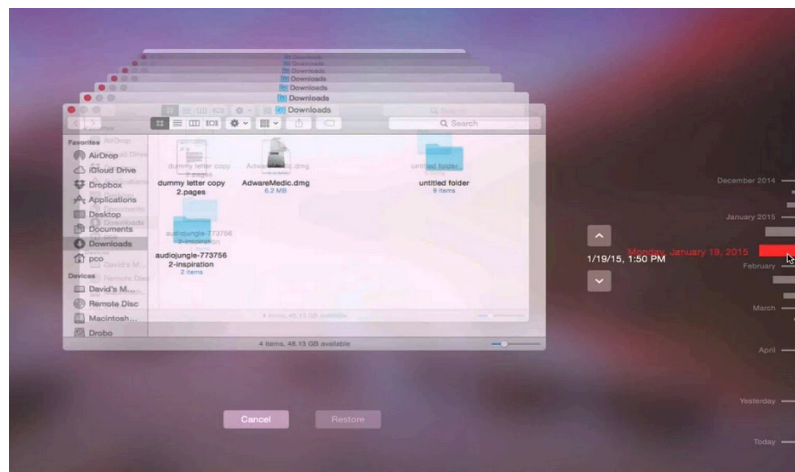
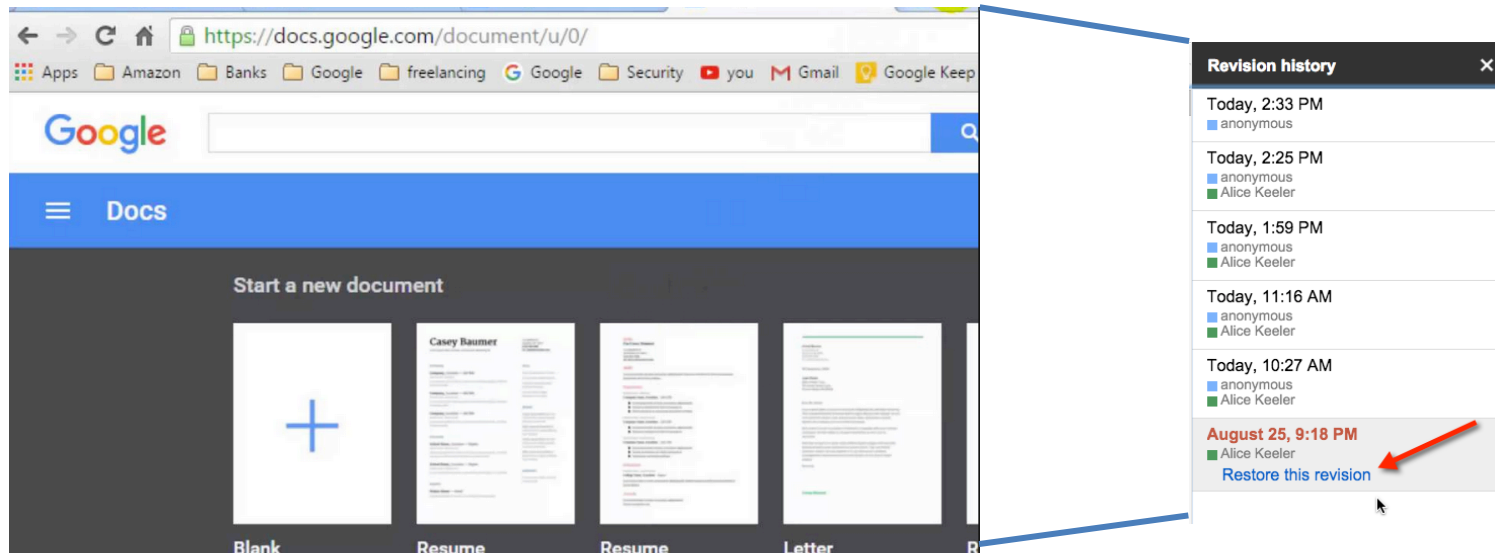


FINAL_rev.18.comments7.
corrections9.MORE.30.doc



FINAL_rev.22.comments49.
corrections.10.#@\$%WHYDID
ICOMETOGRADSCHOOL????.doc

Ctrl/Cmd Z (undo)?

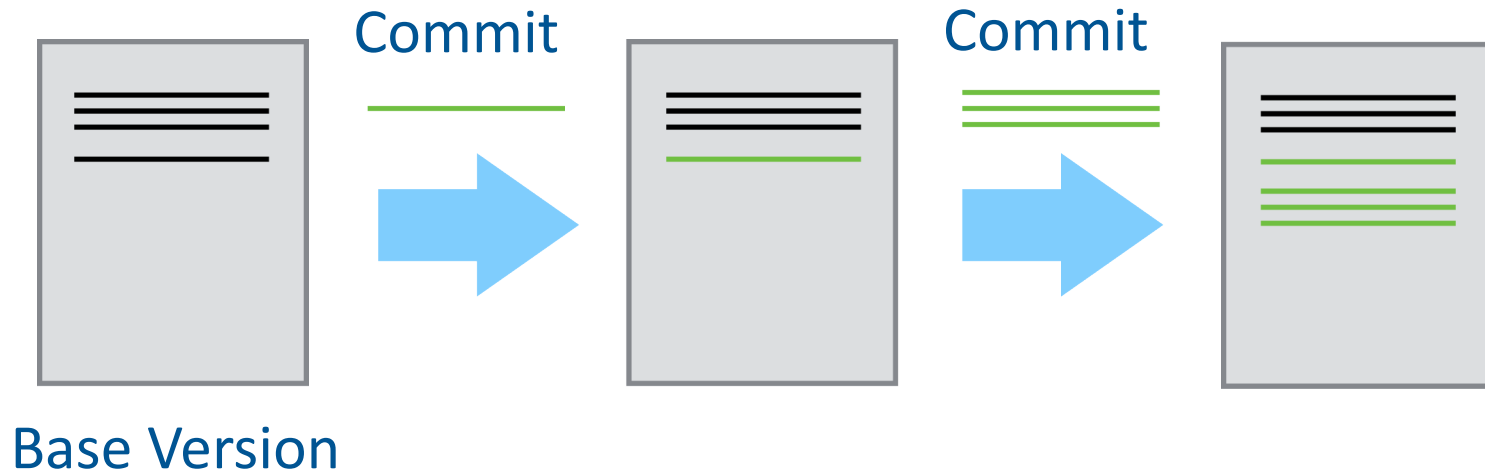








git



Changes saved sequentially

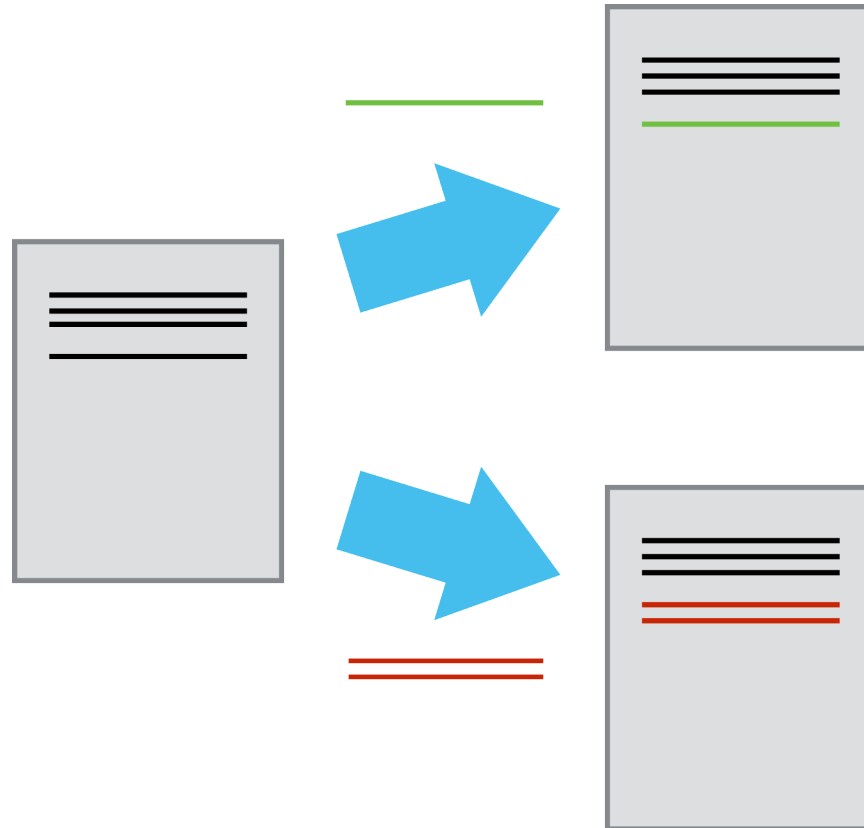


Name	
▼	foo
	metadata.txt
	README
	raw-data.csv
	analysis.R

“Repository”



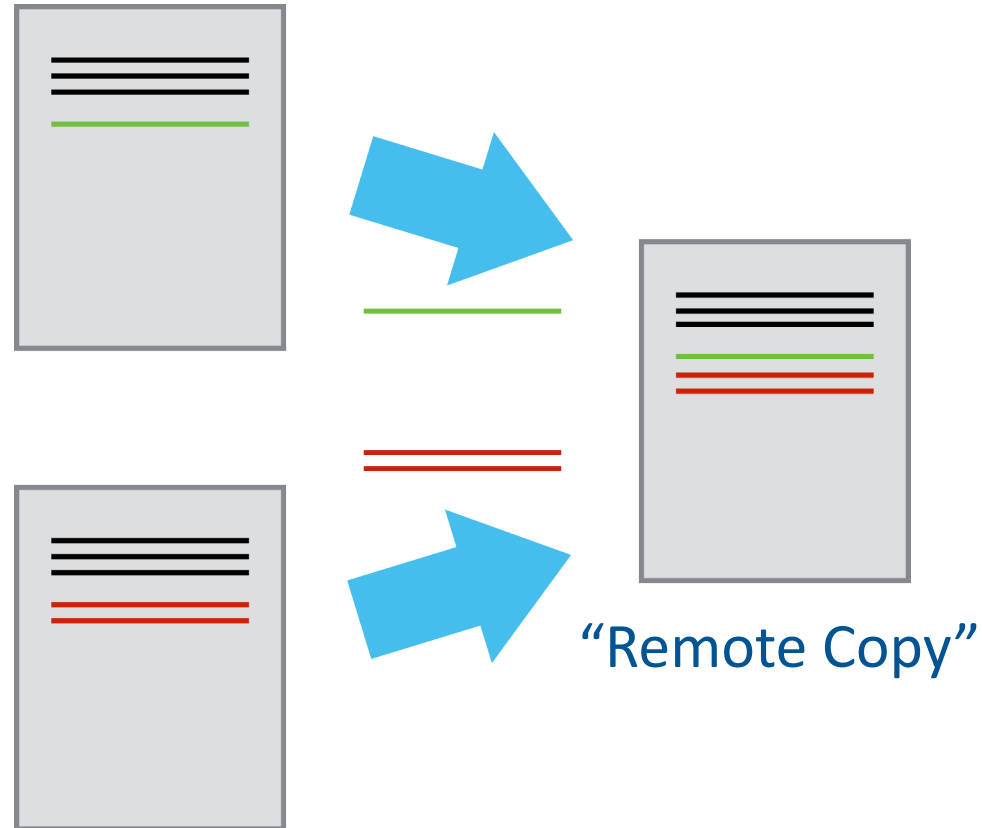
Branching





Collaborating

- Multiple users: different people work on their own copy
- Compare and merge contributions from multiple people





Burn It Down



“This is a highly inelegant, but effective technique for disaster recovery”

- Jenny Bryan (RStudio, UBC)

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GitHub

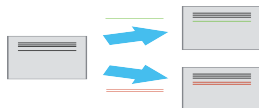


- Hosting service for git repositories (host that “remote copy”)
- Greatly facilitates collaboration

Git: Version Control

+

Hub: Centralized repos & networking/collaborating



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Vince Buffalo

@vsbuffalo



Managing your projects in a reproducible fashion doesn't just make your science reproducible, it makes your life easier.

8:26 PM · Apr 14, 2013 · [TweetDeck](#)



Trevor A. Branch

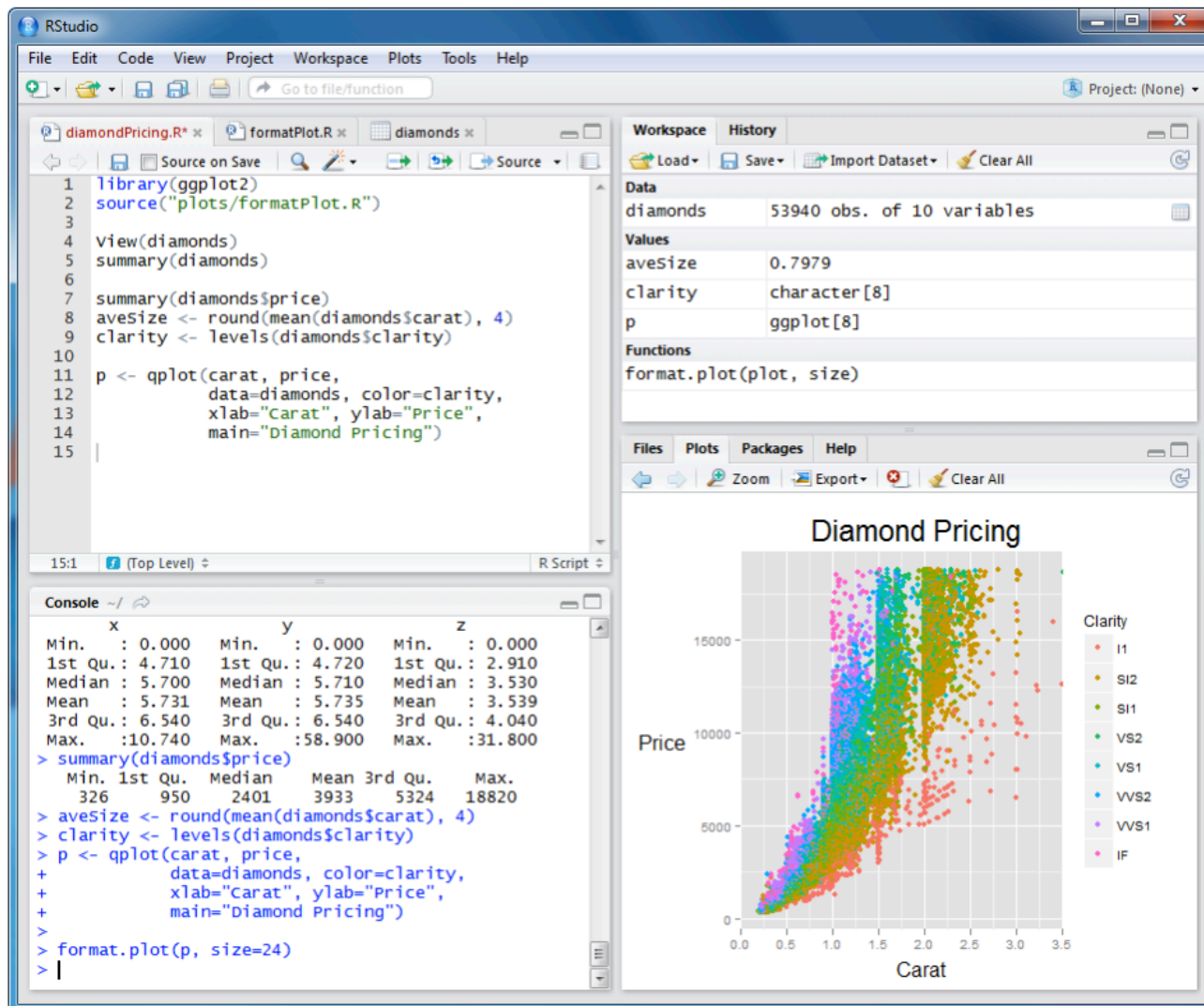
@TrevorABranch



My rule of thumb: every analysis you do on a dataset will have to be redone 10–15 times before publication. Plan accordingly. [#Rstats](#)

3:28 PM · Sep 29, 2015 · [Twitter Web Client](#)

RStudio (IDE)



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Province of British Columbia

Where Ideas Work

 Canada
  <https://github.com/bcgov/BC-Policy-Framework-For-GitHub>
 todd.wilson@gov.bc.ca

 **Repositories** 584
  Packages
  People 403
  Teams 75
  Projects 4

Pinned repositories

BC-Policy-Framework-For-GitHub

Policy information for BC Government employees using GitHub

★ 74  37

design-system

British Columbia Government Design System for Digital Services

 HTML
 ★ 8  10

von

Verifiable Organizations Network

★ 41  17

api-guidelines

BC Government API Guidelines

★ 11  4

Type: All ▾

Language: All ▾





 New

aries-cloudcontroller-node

Aries Cloud Controller written in Node

 TypeScript
  1
 ★ 0
  0
  2
 Updated 1 minute ago

Top languages

 JavaScript
  R
  Python
  TypeScript
  Java

BC-Policy-Framework-For-GitHub

- Joining
- Opening & Contents of Repositories
- Licensing
- Privacy, Security, Copyright
- Appropriate Use
- How to's



BC-Policy-Framework-For-GitHub

Policy information for BC Government employees
using GitHub

★ 74 🔗 37

Appropriate Use

- e.g. standards of conduct, social media guidelines
- Avoid any conflicts of interest



Joining

- GitHub account with bcgov email address
- Enable 2-Factor Authentication
- Join the BCGov Organization & appropriate team(s)

env

29 teams in the Province of British Columbia organization

ENVEcosystems

R code and packages supporting Ecosystem
Branch's assessment initiatives



EnvReportBC (Admin)

R code & packages supporting Environmental
Reporting BC's indicators on the s...



ENVWater

R code and packages for water quality and
quantity analysis for both surface ...



Your Code & GitHub?

- New code
- Existing code (you, contractor?)
- Contributing to other's code

OPEN CODE CHECKLIST

- Privacy
- Copyright
- Intellectual Property
- Security

Repo Content

bcgov / [tire-recycling-indicator](#)

Unwatch 7

Star 0

Fork 0

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Settings

Insights

R script for a trends in scrap tire recycling indicator published on Environmental Reporting BC

Edit

Add topics

9 commits

1 branch

0 releases

2 contributors

Apache-2.0

Branch: master

New pull request

Create new file

Upload files

Find file


Clone or download

stephazlitt Merge branch 'master' of <https://github.com/bcgov/tire-recycling-indi...>


Latest commit 477c4be on Feb 15


.gitignore	initial commit	9 months ago
CODE_OF_CONDUCT.md *	initial commit	9 months ago
CONTRIBUTING.md	initial commit	9 months ago
LICENSE	initial commit	9 months ago
README.md	Merge branch 'master' of https://github.com/bcgov/tire-recycling-indi...	4 months ago
tire-recycling-indicator.Rproj	initial commit	9 months ago
tire_plot.R	summary plot	9 months ago

GitHub Issues




[Pull requests](#)
[Issues](#)
[Marketplace](#)
[Explore](#)



[bcgov](#) / [bcgov-r-geo-workshop](#)

 Unwatch

11

 Star

8

 Fork

5









[Code](#)
[Issues 8](#)
[Pull requests 1](#)
[Actions](#)
[Projects 0](#)
[Wiki](#)
[Security](#)
[Insights](#)
[Settings](#)

Filters

Labels 11

Milestones 0

New issue

<input type="checkbox"/>	8 Open	1 Closed	Author	Labels	Projects	Milestones	Assignee	Sort	
<input type="checkbox"/>			Make a fancy GeoPDF template, perhaps with a custom bcgov ggplot theme? <div>geospatial hackathon</div> #12 opened 3 days ago by bevingtona						
<input type="checkbox"/>			Add custom WMS service as a basemap for a ggplot2 <div>geospatial hackathon</div> #11 opened 3 days ago by bevingtona <div>1</div>						
<input type="checkbox"/>			Animate a time lapse of satellite imagery over a 3d elevation model <div>geospatial hackathon</div> #10 opened 3 days ago by bevingtona <div>1</div>						
<input type="checkbox"/>			Author an additional vignette for bcddata package <div>geospatial hackathon</div> <div>good first issue</div> #8 opened 10 days ago by stephazlitt						
<input type="checkbox"/>			Review & add bcgov-data-science-resources wiki content <div>geospatial hackathon</div> <div>good first issue</div> #7 opened 10 days ago by stephazlitt						
<input type="checkbox"/>			Telemetry data processing repo <div>geospatial hackathon</div> #5 opened 20 days ago by gcperk						
<input type="checkbox"/>			Fix character NA's in tidyhydat::hy_stations() <div>geospatial hackathon</div> #3 opened 22 days ago by boshek						
<input type="checkbox"/>			Fix download_hydat function from {tidyhydat} <div>geospatial hackathon</div> #1 opened 24 days ago by boshek						

Adds additional vignette #26

Merged stephazlitt merged 11 commits into `master` from `new-vignette` on Jul 27, 2018

[Conversation 8](#)

[Commits 11](#)

[Checks 0](#)

[Files changed 8](#)



stephazlitt commented on Jul 20, 2018

Member



Additional vignette provides an example trend analysis workflow.



stephazlitt added some commits on Jul 20, 2018



add DS_Store

8152f23



initial commit

82ffdd2



draft trends vignette

028920d



text edits

✗ 102bb7a



stephazlitt requested a review from **ateucher** on Jul 20, 2018



stephazlitt commented on Jul 20, 2018

Author

Member



Ready for a code & usefulness review @ateucher, at your convenience.



1



stephazlitt added some commits on Jul 20, 2018



add packages to suggests

daaa0c4



build vignettes

141fd35



undo duplicate options

✓ 6ec0a30



bump version, update news

✓ 8bf7169



ateucher approved these changes on Jul 27, 2018

[View changes](#)

ateucher left a comment

Member



Looks great! Just a couple of very minor comments/nitpicks :)

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bcgovr

BCDevExchange **Delivery** build **failing** License Apache 2.0



Overview

An [R](#) package to automate set up and sharing of R projects in [bcgov GitHub](#) following [bcgov guidelines](#).

All B.C. Government employees are responsible for determining whether bcgov R source code can be shared on [bcgov GitHub](#) and for following the [BC-Policy-Framework-For-GitHub](#).

You will need to ensure that [Git](#) is installed on your computer. To add your project to bcgov GitHub users need to have a GitHub account *and* be a [member of the bcgov GitHub organisation](#).



```
remotes::install_github("bcgov/bcgovr")
library(bcgovr)
```

Demo: real-time collaboration w/ GitHub

