

# Don't Code Alone

Stephanie Hazlitt

bcgov useR day  
Victoria 2018-10-11



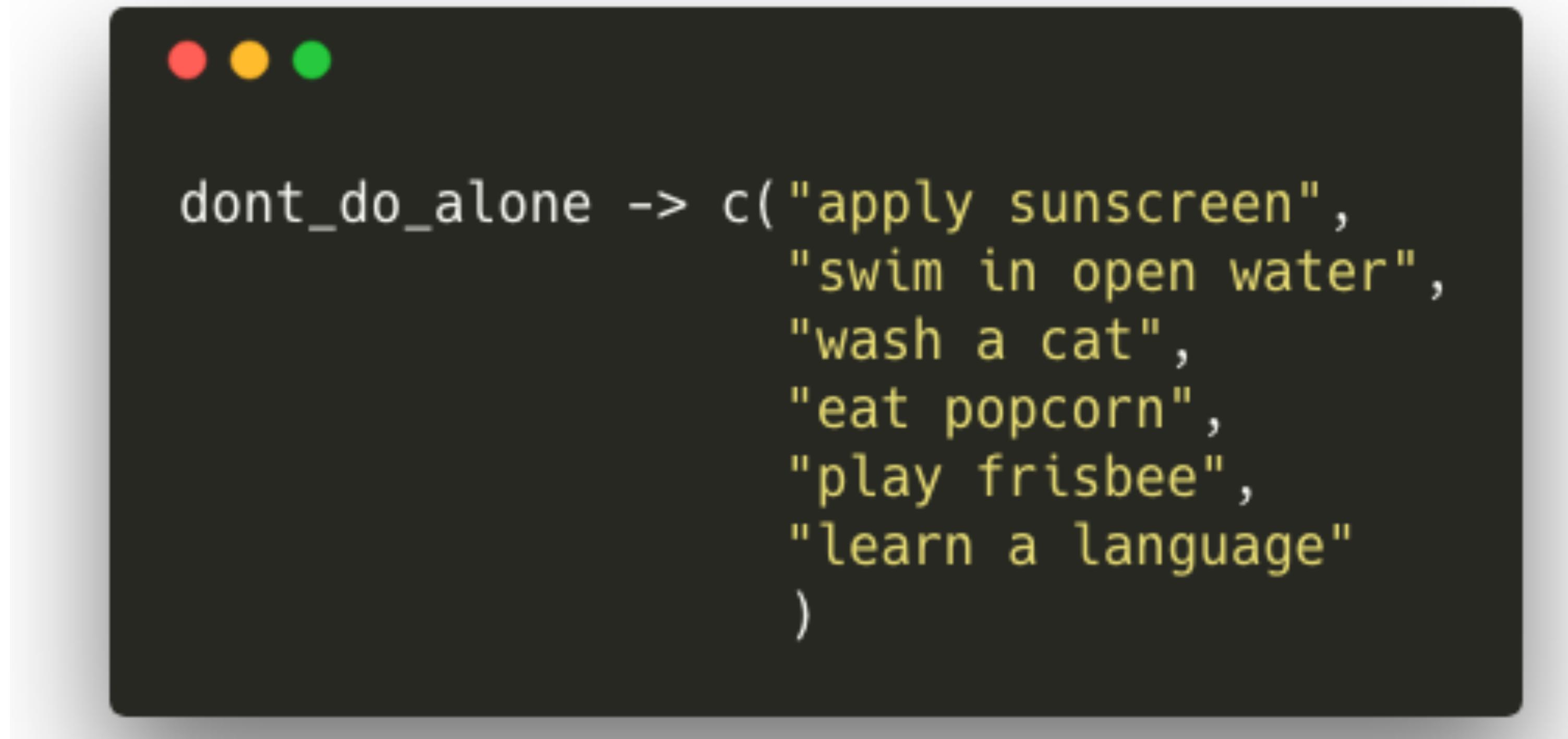
# Don't Code Alone

Stephanie Hazlitt

Why bcgov useR day ?  
Victoria 2018-10-11



# 🚫 Alone



```
don't do alone -> c("apply sunscreen",
  "swim in open water",
  "wash a cat",
  "eat popcorn",
  "play frisbee",
  "learn a language"
)
```

Source: Google “things  
not to do alone”

“don’t code alone”

(Source: Andy Teucher)



**Aliakbar Akbaritabar (Ali)**  
@Akbaritabar

Follow



Any time I have been struggling to learn a new tool/technology/software ... I go back to this short clip I cut out of [@hadleywickham](#)'s 2014 [@user2014\\_ucla](#) tutorial on Dplyr to motivate myself to keep pushing through ... learning new tools is hard for everyone at the beginning!



2:52 AM - 25 Jul 2018

[https://twitter.com/Akbaritabar/  
status/1022057084802748416](https://twitter.com/Akbaritabar/status/1022057084802748416)

# Collaborative Learning

```
collaborative_learning -> c("improved academic results",
  "promotes critical thinking",
  "motivating",
  "reduces anxiety",
  "increases self-esteem",
  "develops support system",
  "encourages diversity in thinking",
  "develops meta-skills (e.g. communication)",
  "increases retention"
)
```

Sources: <https://www.gdrc.org/kmgmt/c-learn/44.html> &  
<https://doi.org/10.1016/j.sbspro.2011.12.091>

# BC Public Service: Learn @ Work

- 70 – Learning by Doing – 70% of our learning happens naturally on the job
- 20 – Learning from Others – 20% of our learning is transferred from others, through conversation, coaching and mentoring
- 10 – Learning from Training – 10% of our learning is through formal coursework or training



Source: <https://gww.nrs.gov.bc.ca/news/fast-facts/just-keep-learning>

# Collaborative Learning in the Workplace

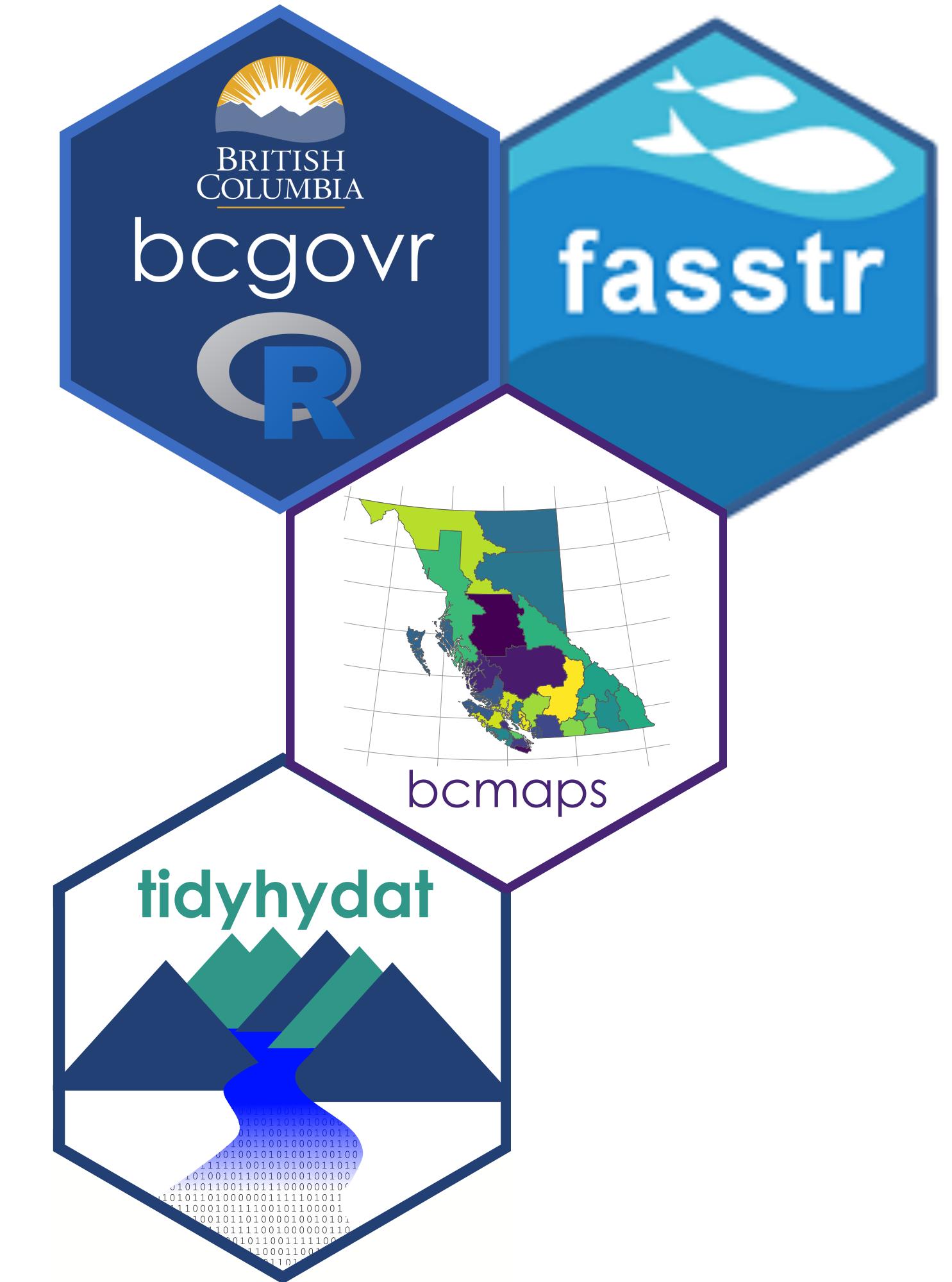


Source: eCom Scotland <https://www.ecomscotland.com/resources/infographic-benefits-of-collaborative-learning/>

# bcgovR: Community of Practice



courses & tools



<https://github.com/bcgov/bcgov-data-science-resources/wiki>

Province of British Columbia  
Where Ideas Work

Canada <https://github.com/bcgov/bcgov-data-science-resources/wiki> todd.wilson@gov.bc.ca

Repositories 327 People 299 Teams 50 Projects 2

Pinned repositories

**BC-Policy-Framework-For-GitHub**  
Policy information for BC Government employees using GitHub  
★ 58 ⚡ 26

**Gov-2.0-Bootstrap-Skeleton**  
An HTML5/CSS3/Bootstrap skeleton to accompany the gov.bc.ca. Developer's Guide.  
HTML ★ 8 ⚡ 10

bcbgov-da

Type: A

1 result for repositories matching bcbgov-da

## bcbgov-data-science-resources

Collection of resources like tools, tutorials and tips for doing data science in bcbgov

★ 8 ⚡ 1 Updated on Mar 1

Welcome to the **bcgov-data-science-resources** wiki!

This wiki is the home of resources for getting started with (programmatic) data science in the B.C. Government.

## Wiki Table of Contents

### R & RStudio

- [Installing R & RStudio on a BCGov Computer](#)
- [Getting Started with R & RStudio](#)
- [Resources for Developing an R Package](#)

### Python

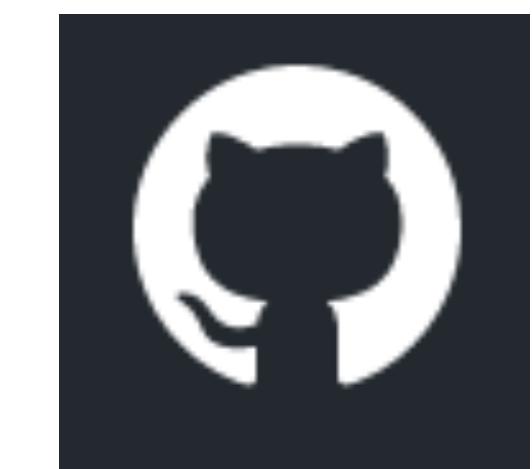
- [Getting Started with Python](#)

### Git & GitHub

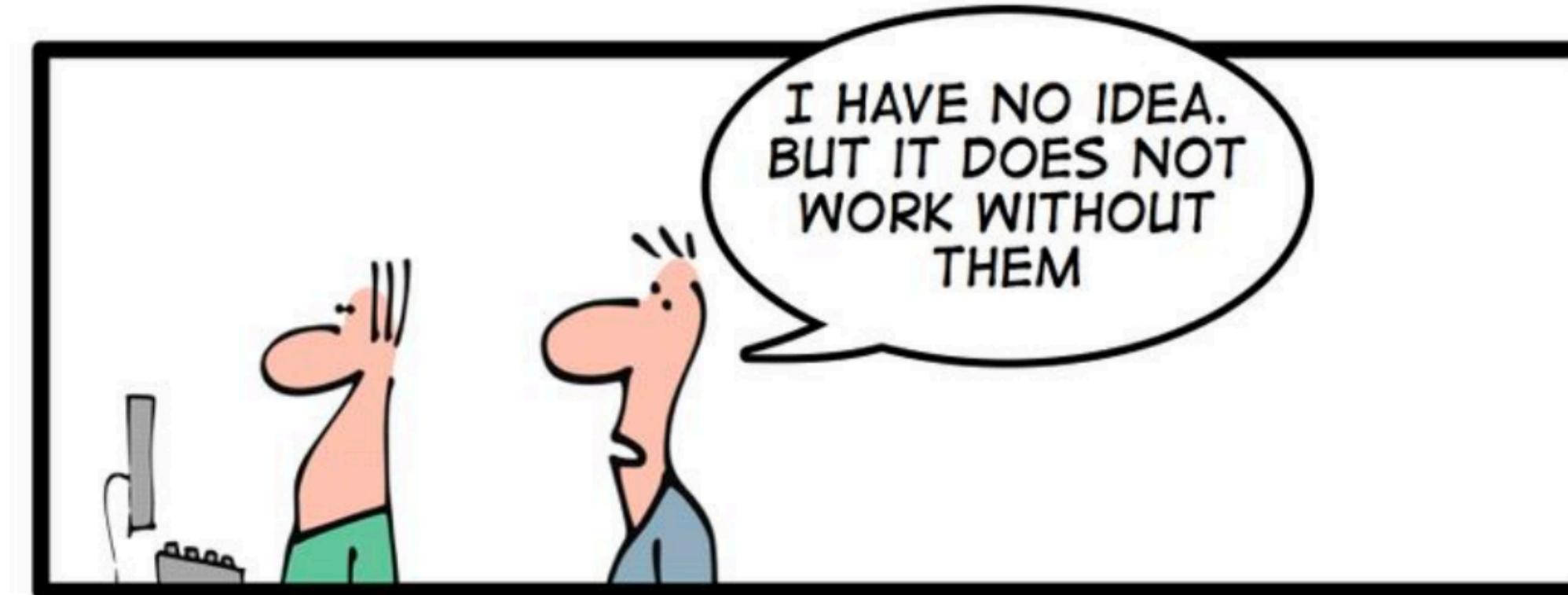
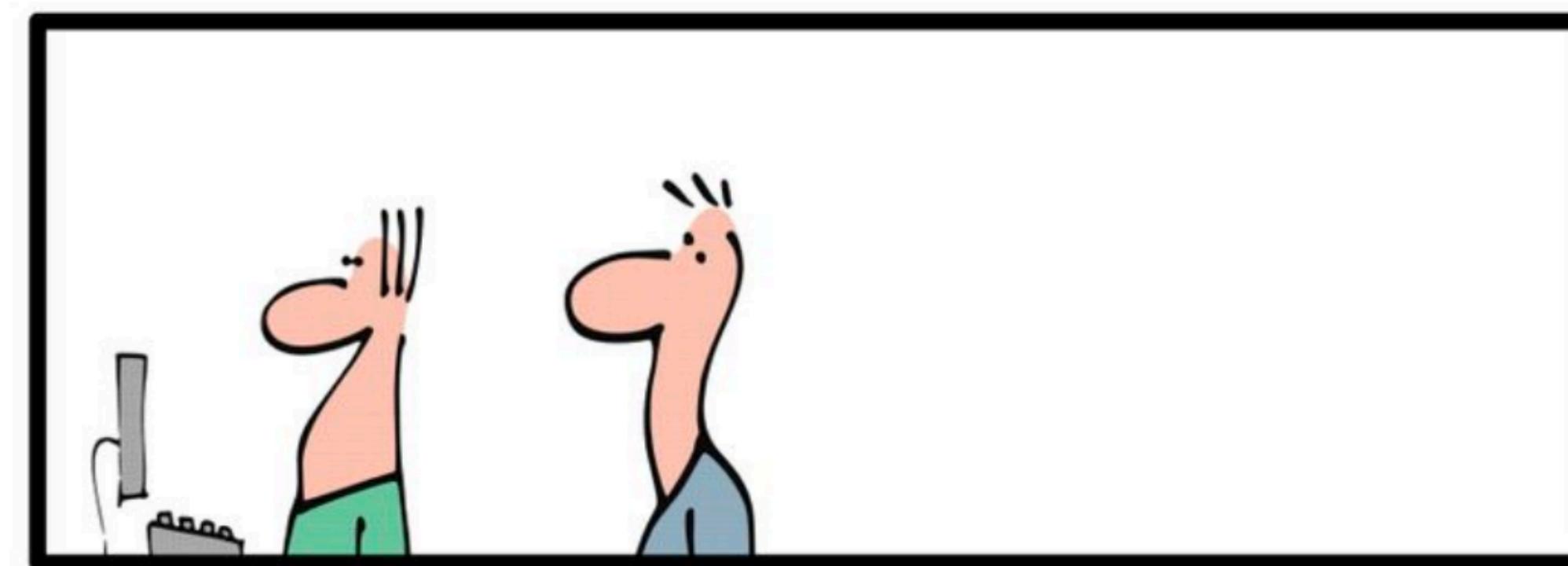
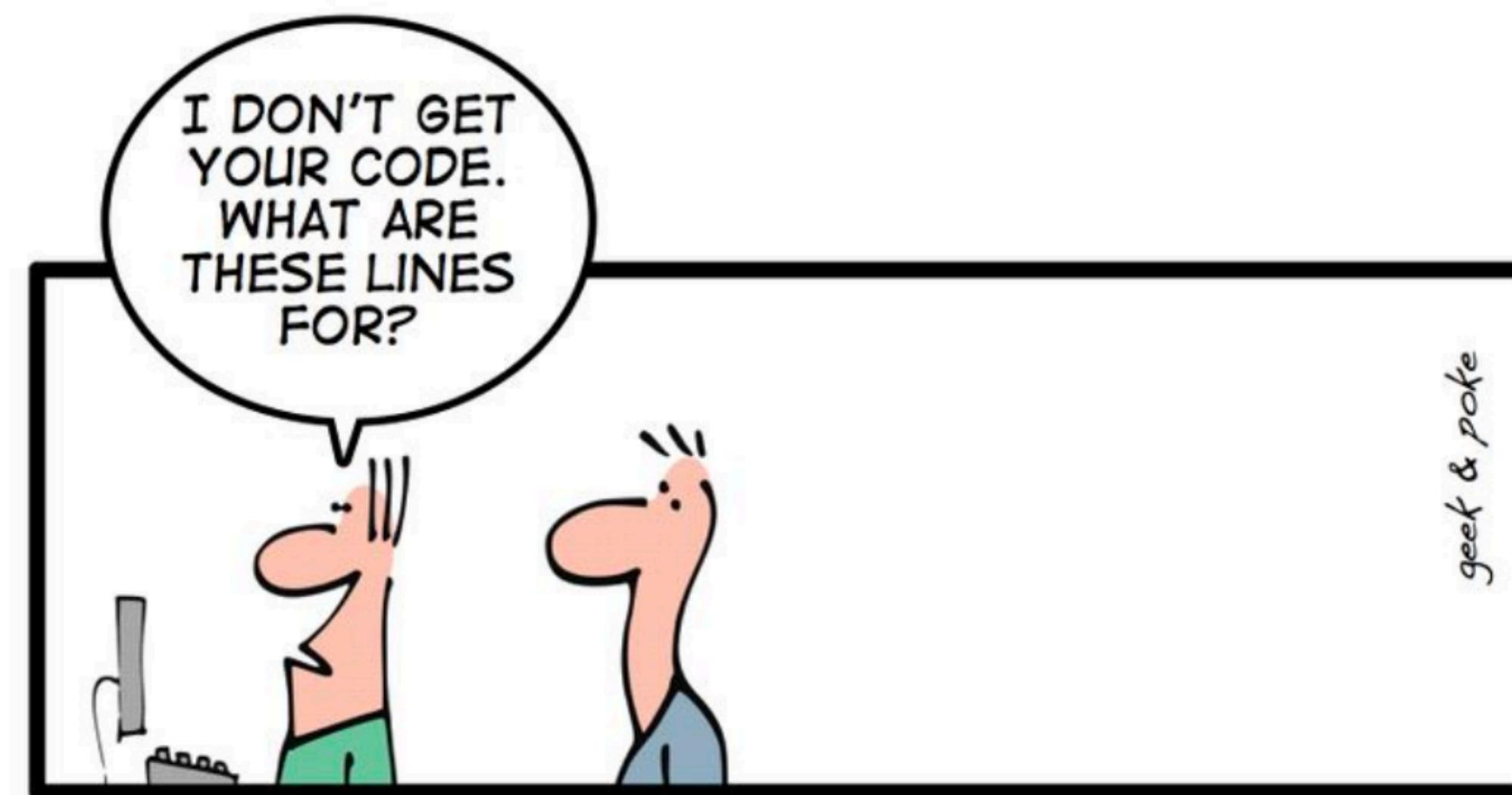
- [Getting Started with Git & GitHub](#)
- [Git & GitHub for R Users](#)

### Learning Resources

- [Tutorials & Getting Help](#)
- [Troubleshooting](#)



# Code Reviews



THE ART OF PROGRAMMING - PART 2: KISS

© Geek and Poke — <https://geek-and-poke.com>

Search or jump to... / Pull requests Issues Marketplace Explore

Unwatch 9 Unstar 14 Fork 3

Code Issues 3 Pull requests 0 Projects 0 Wiki Insights Settings

## Adds additional vignette #26

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

Conversation 8

Commits 11

Checks 0

Files changed 8

+1,151 -25



stephazlitt commented on Jul 20

Member



...

Reviewers



ateucher



Additional vignette provides an example trend analysis workflow.

stephazlitt added some commits on Jul 20



add DS\_Store

8152f23



initial commit

82ffdd2



draft trends vignette

028920d



text edits

✗ 102bb7a

stephazlitt requested a review from ateucher on Jul 20

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

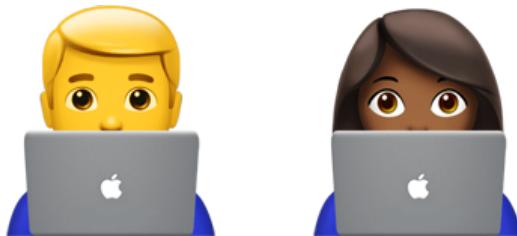
<https://github.com/bcgov/bcgroundwater/pull/26>



# bcgovR help

```
bcgov_R_help -> c("email",
  "Yammer",
  "Slack",
  "GitHub"
)
```





# wwwR help

stack**overflow**

Search...

Learn, Share, Build

Each month, over 50 million developers come to Stack Overflow to learn, share their knowledge, and build their careers.

Join the world's largest developer community.

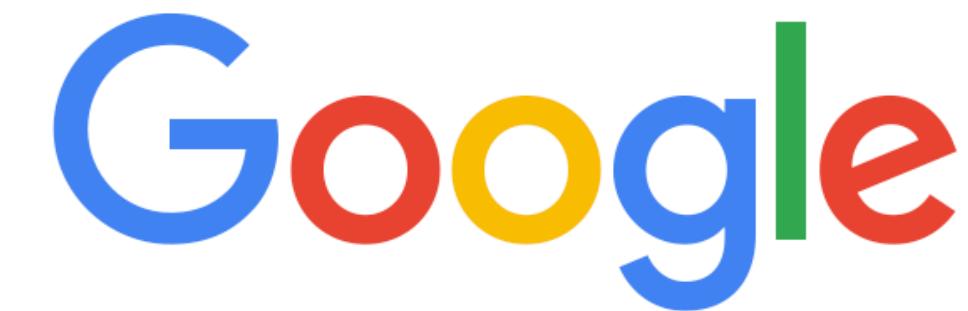
<https://stackoverflow.com/>

## R Studio Community

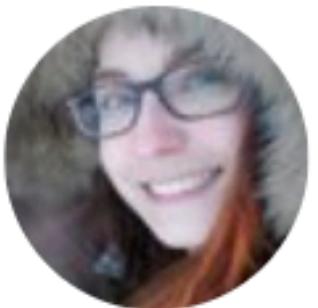
[all categories ▶](#) [all tags ▶](#) [Latest](#) [New \(60\)](#) [Unread \(7\)](#) [Categories](#) [Top](#)

Topic	Category
<input type="checkbox"/> Is it a good idea to conditionally load/install libraries at the beginning of a script?	<a href="#">Teaching</a>
<input type="checkbox"/> Getting r error 4 in R 3.4.4 • <a href="#">graphics</a> <a href="#">linux</a> <a href="#">package-installation</a> <a href="#">cairo</a>	<a href="#">RStudio IDE</a>
<input type="checkbox"/> Status code 403 • <a href="#">rstudiocloud</a> 0 votes	<a href="#">RStudio Cloud</a>

<https://community.rstudio.com/>



↪ Ethan White Retweeted

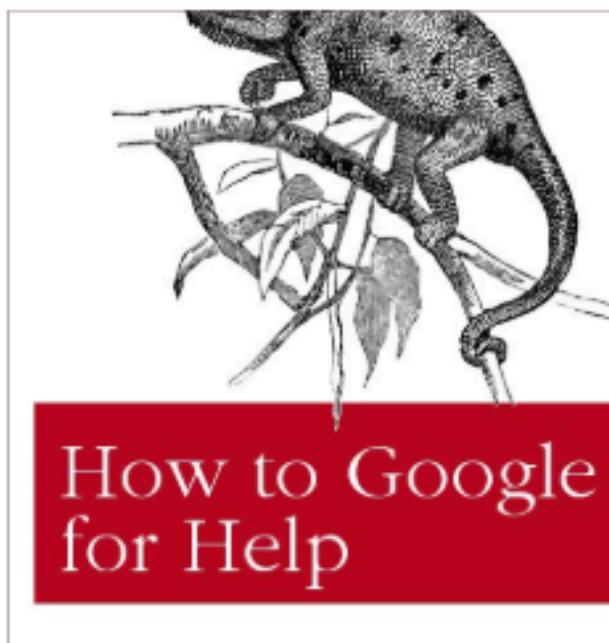


**Lauren Schricker** @mountain\_laur · Oct 1

"80% of programming is searching the Internet"



useful skills for #ds4bs!



**Ethan White** @ethanwhite

Today I'm teaching "How to Google for Help" in my semester-long @datacarpentry course.

It's a crucial skill that we don't normally teach, so I...



1



8



19



[https://twitter.com/mountain\\_laur/status/1046901388364660736](https://twitter.com/mountain_laur/status/1046901388364660736)

# Asking for Help

Use a Reproducible Example 🙏



Source: Giphy

# reprex

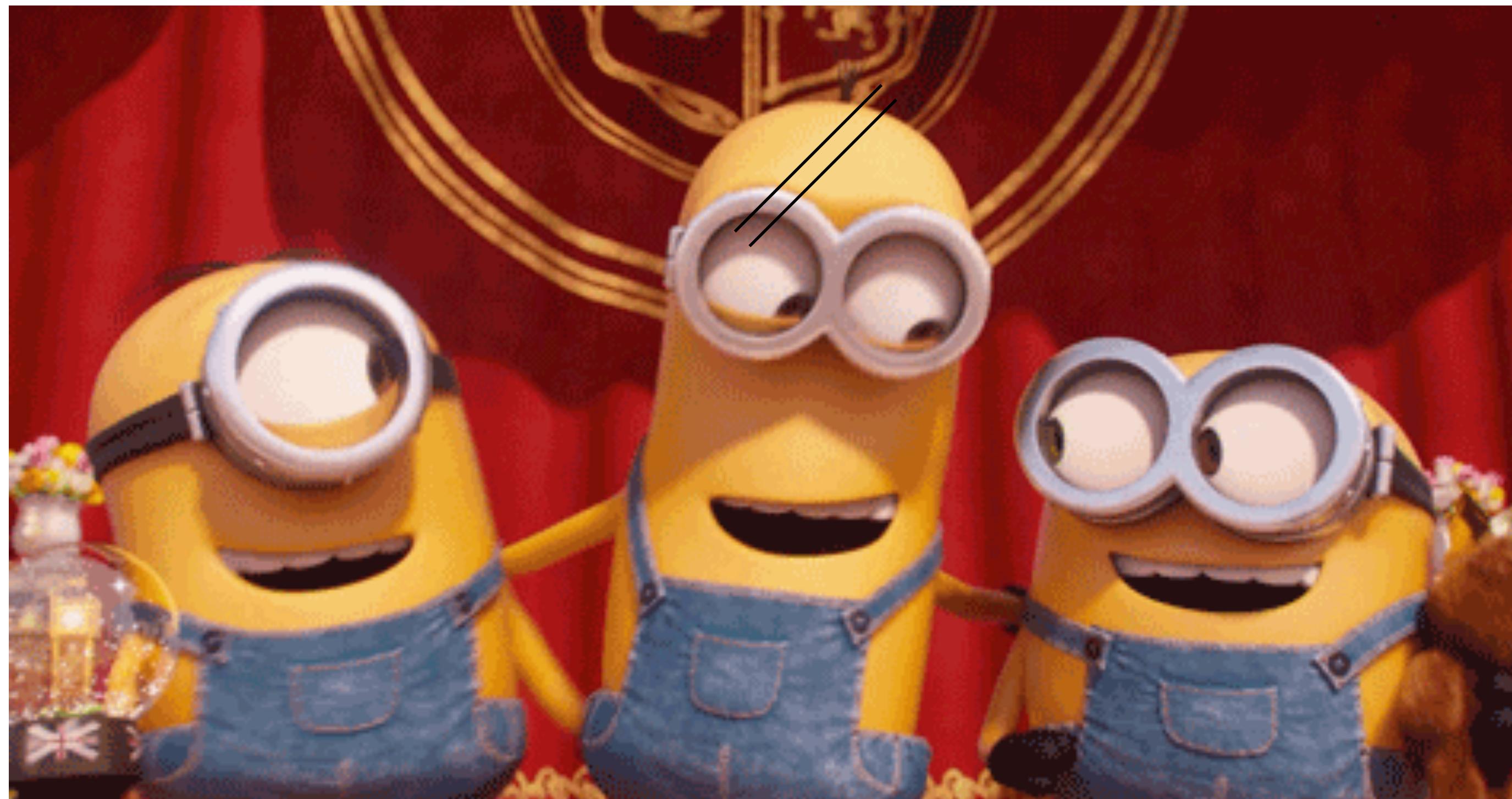
- What is a **reprex**? It's a **reproducible example**
- The reprex 📦 prepares reproxes for posting to **GitHub issues**, **StackOverflow**, or **Slack snippets** (or email)
- Anyone else can copy, paste, and run this immediately



More about reprex:  
<https://www.tidyverse.org/help/>

~~-Don't Code Alone-~~

Code Together



Source: Giphy

# bcgovR help-a-thon



```
bcgov_useR_helpathon -> c("learning",
  "teaching",
  "mentoring",
  "community building"
)
```



```
## reprex example (bcgov user day Victoria 2018-10-11)

# packages I need
library(tibble)
library(dplyr)
library(ggplot2)

# my data
dataframe <- tribble(
  ~learning_topic, ~count,
  "helper", "8",
  "spatial", "5",
  "Shiny", "4",
  "RMarkdown\n& graphics", "2",
  "functions\n& R Packages", "2",
  "regression\nmodelling", "1",
  "data export", "1"
)

# my plot
plot <- dataframe %>%
  filter(learning_topic != "helper") %>%
  ggplot(aes(learning_topic, count)) %>%
  geom_col(fill = "blue", alpha = 0.5) +
  geom_text(aes(label = count), vjust = -.5) +
  theme_minimal() +
  labs(title = "Learning topics from RSVP emails",
       caption = "bcgov user day (Victoria 2018-10-11)") +
  theme(axis.title = element_blank(),
        panel.grid.major.x = element_blank(),
        axis.text = element_text(size = 14),
        plot.title = element_text(size = 16))
plot(plot)
```

## Learning topics from RSVP emails

