

# SPEED UP Your Spreadsheet Reports With R

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*Lighting Fast Spreadsheet Reports*



# Our agenda

## Intro

Why faster spreadsheets  
are important

1

2

## 3 Ways

3 ways to use R for  
spreadsheet reports

## Demo

Using RStudio Cloud to  
code

3

4

## Conclusion

Wrap up  
(like a burrito)

A photograph of a man with glasses and a shocked expression. He is wearing a light green shower cap and a white robe with a blue and green floral pattern. A large blue loofah is wrapped around his neck. He is holding the loofah with both hands. The background is dark.

1

# Intro

# Who & Why

Who is Larry and  
why make spreadsheets faster

# Larry



Larry is a dad of 5 who loves data almost as much as he loves his family and their slobbery St Bernard. Larry is the head of analytics for **OWLLytics** with a passion for data visualizations. Larry enjoys traveling the world and currently lives in Valencia Spain.



# Larry's background



A black and white photograph of Dwayne "The Rock" Johnson. He is shirtless, showing a tattooed chest, and has a determined, shouting expression with his mouth wide open. The background is dark and textured.

“You Can Remove My Spreadsheet  
From My Cold Dead Hands”

—Spreadsheet Addict



# Reporting tools



Microsoft Excel

Business go-to



Google Sheets

Collaborating teams favorite

# Common problems



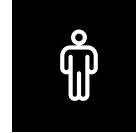
## Ad hoc

Downloading CSV files can be time consuming. Not to mention getting it to another spreadsheet.



## Copy Paste

Large files can slow down the time it takes to move data from one sheet to another.



## Human Error

We all do it! Nothing worse than being told *"is this missing some data?"*

# Using a script instead



Create once & use repeatedly for ad hoc reporting.



Speed up the time to load data into different spreadsheets



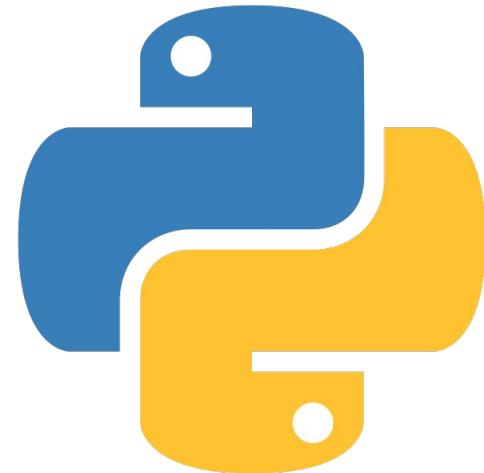
Reduces the human error.  
(if done right)

# Common scripting languages

R



Python





2

# Three Ways to speed UP!!

Start using R to speed up your reporting

# Template Reports with formatting already set

Perfect for things that require  
data to be plugged into the  
report.





Demo  
time

# **Append Data to an existing spreadsheet**

Perfect for things that require  
data to be plugged into the  
report.





Demo  
time

# **Sub-setting Data for other departments**

You no longer need to filter, slice  
and dice.  
Give departments only what  
they need.





Demo  
time

# **BONUS**

## **use SQL right inside RStudio**

Just use SQL right inside RStudio to reduce the CSV download, copy/paste method.



# Packages to help

**tidyverse**

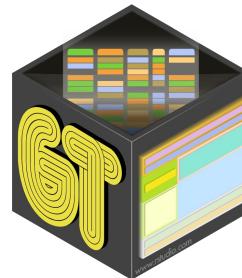
the go-to for R



reading  
spreadsheet  
files



graphics &  
plots



**gt**

Creating AMAZING tables

**rmarkdown**

creating every type of  
report under the sun



A photograph of a man with glasses and a white shower cap, wearing a patterned robe. He has a wide-open mouth and a shocked expression. A large blue loofah is wrapped around his neck. The background is a yellow wall.

4

# Conclusion

Thank you for listening

# Where's Larry ?



GitHub  
[github.com/LLathrop1](https://github.com/LLathrop1)

hashtag  
[#RStudioMug4Larry](#)



LinkedIn

[linkedin.com/in/larry-lathrop/](https://linkedin.com/in/larry-lathrop/)

OWLlytics

[www.owllytics.com](http://www.owllytics.com)

# Whoa!

Please ask any questions and I will do my best  
to answer

