

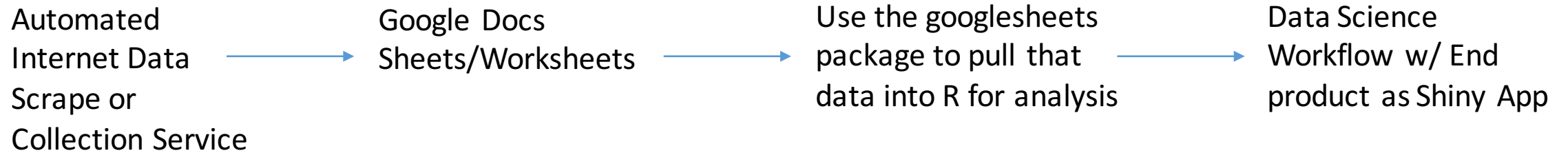
Google Sheets R API & Shiny!

Access and manage Google Spreadsheets from R with ``googlesheets``

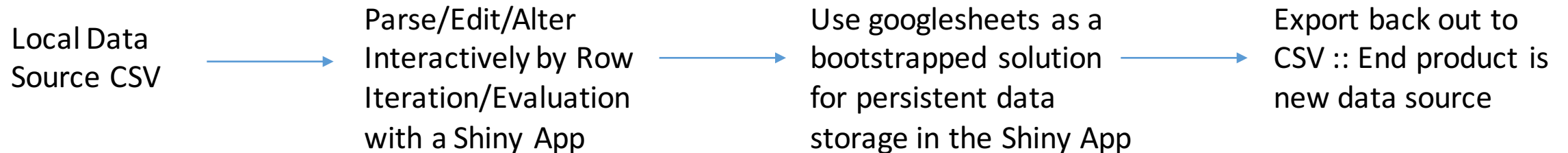
Googlesheets – So cool!

- Register a Sheet: `gs_title()` or `gs_key()`
- Inspect a Sheet: `gs_ws_ls()`
- Return a dataframe of sheets: `gs_ls()`
- Read all the data in one worksheet: `gs_read(ws=“...”)`
- Create a new sheet: `gs_new()`
- Add a new worksheet to an existing sheet: `gs_ws_new()`
- Edit cells: `gs_edit_cells()`

What to do with googlesheets & Shiny?



Two Interesting Content Management Paradigms to Consider...

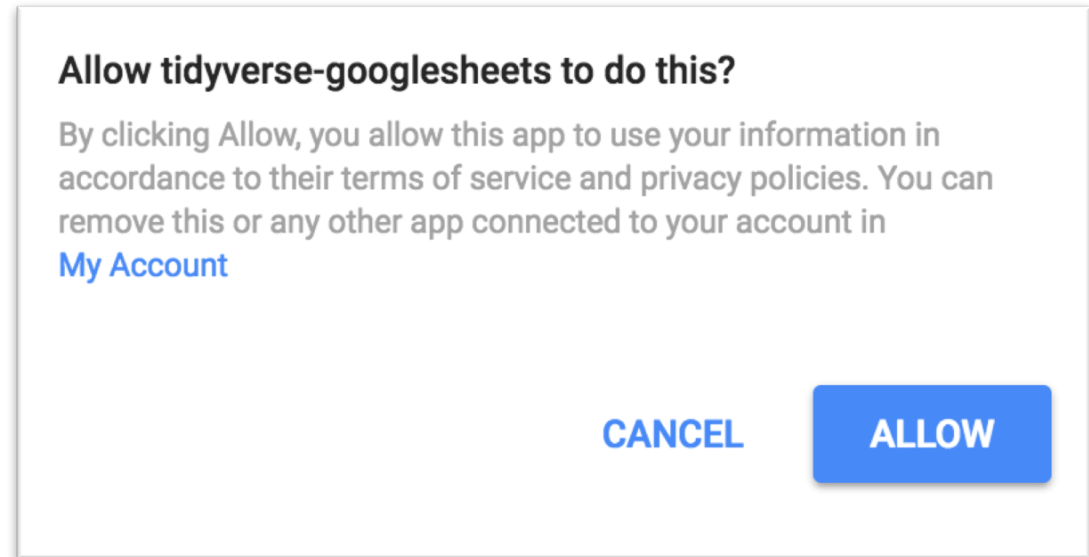
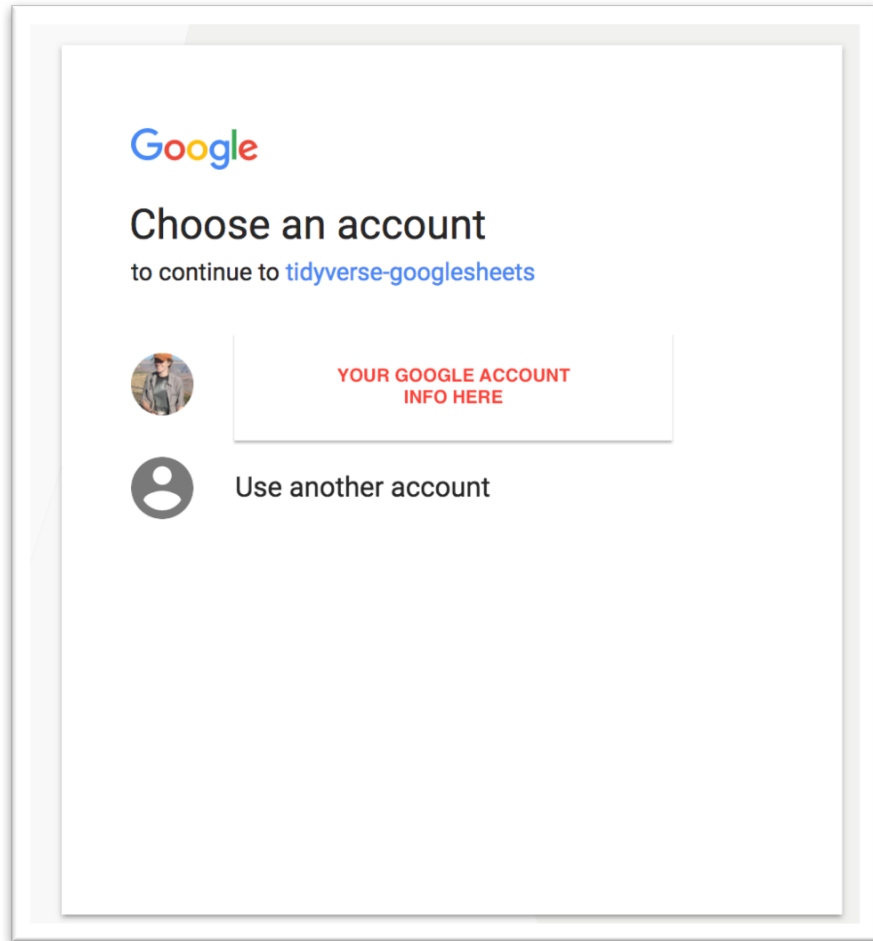


Google Auth Tokens Overview

[Github Repo](#)
[Managing OAuth Vignette](#)

- Some googlesheets activities require Auth Tokens and some do not
 - Not Req: Reading from a sheet that is published to the web identified by key or URL
 - Auth Req: Any activity from a sheet identified by name/title, and all interactive actions
- Check for a valid token in your Env: `gs_user()`

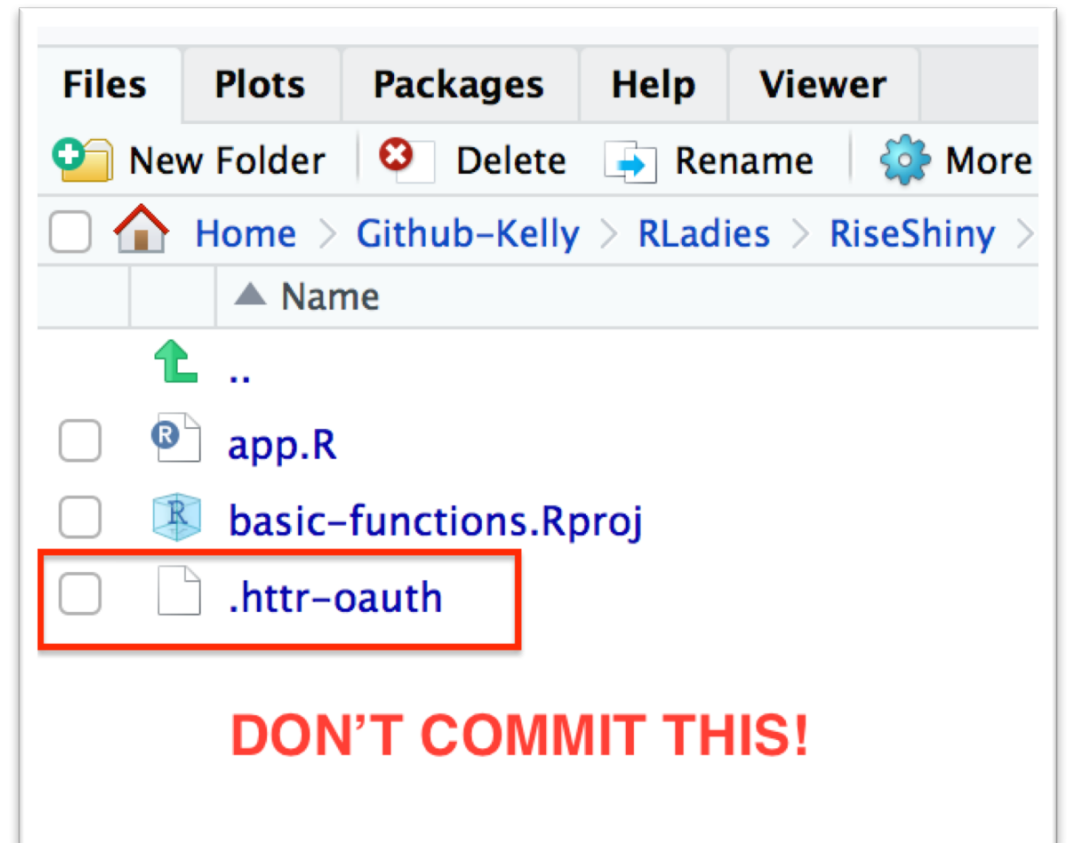
Google OAuth 2.0 Flow



Tokens WARNING – DO NOT PUBLISH

**Do not push your
.httr-oauth config file to
Github**

**Be sure to list .httr-oauth in
your .gitignore file!**



Workshop

1. Create a new Google Sheets document in your Docs account and populate it with some data.
 - Check out <https://www.kaggle.com/datasets> for some data inspiration
2. Build a Shiny App that will:
 - Take user input from a text field [your new Google sheet title]
 - Use the googlesheets package to register that sheet
 - Display the sheet as a Data Table in the main body of the app
3. Start from scratch, or use this template to get started:
 - [Template on Github](#)

Extension Challenges – Choose your own Adventure

1. **“Fail Gracefully”** – Add a nice error handling solution for when the user asks for a sheet title that isn’t available (or they spell the name wrong)
2. **“Search by Key”** - Add an additional optional input for getting a sheet by its Key instead of its name/title
3. **“Next Steps”** – Add a feature that will allow a user to remove columns from the data that they don’t want to see
 - This could be done before the sheet is read in, after the sheet is read in, or possibly both before AND after