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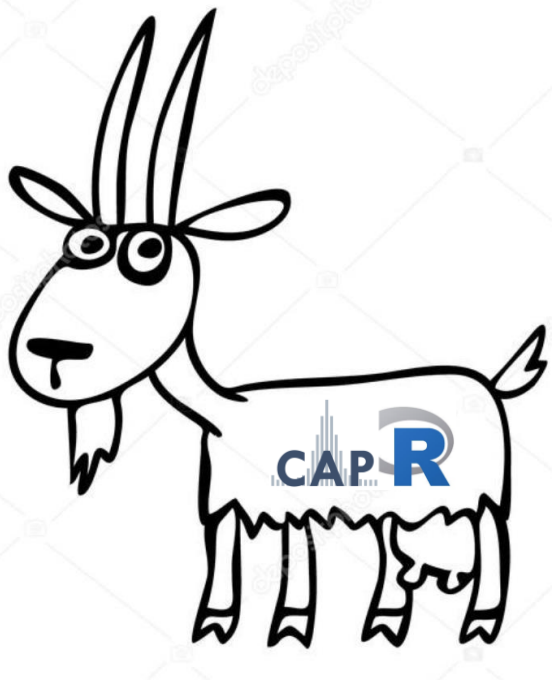
capR

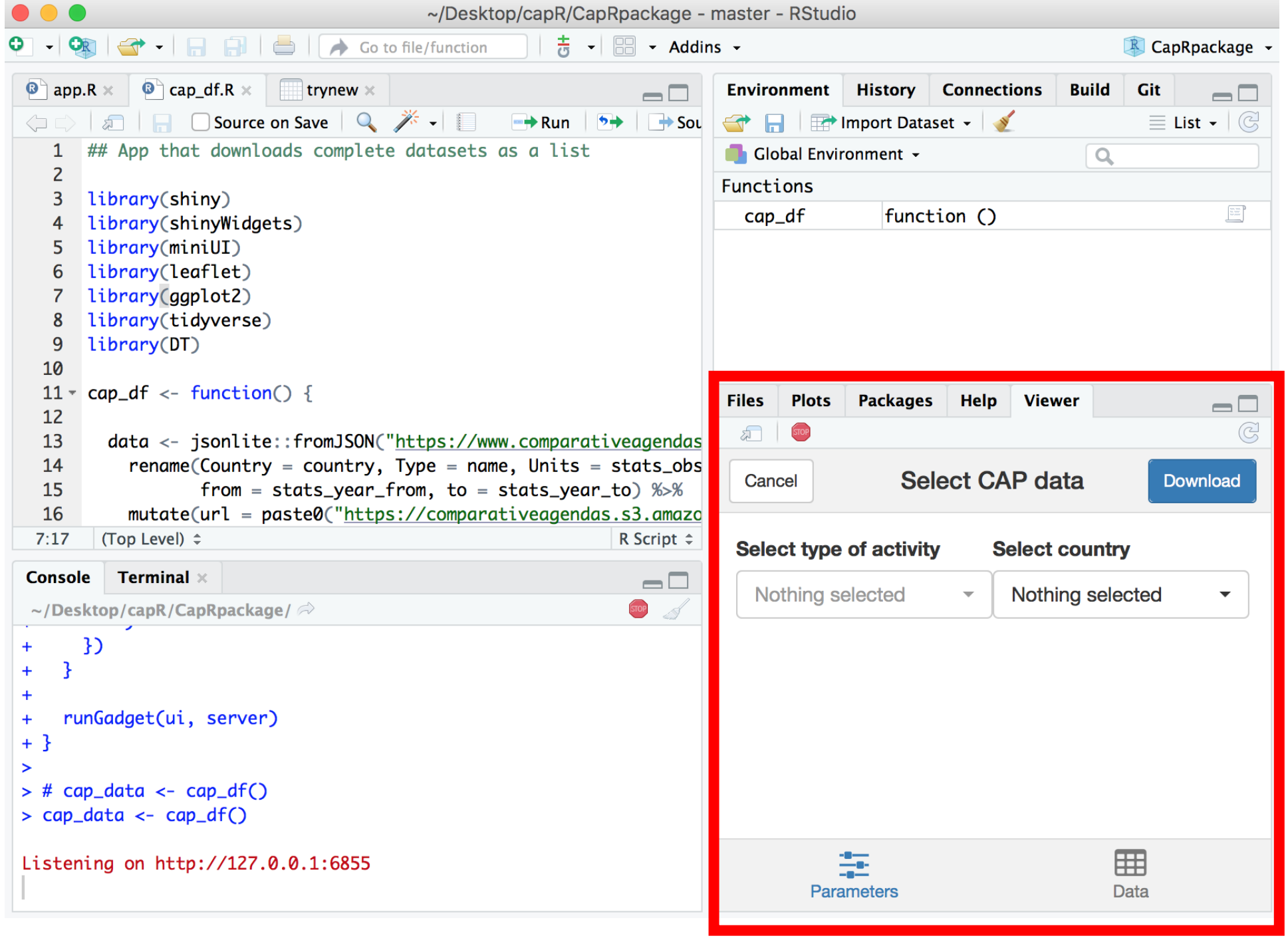
- Easily access current CAP data within R
- Grow CAP user base
- Enable links with other projects/datasets
- Similar to manifestoR



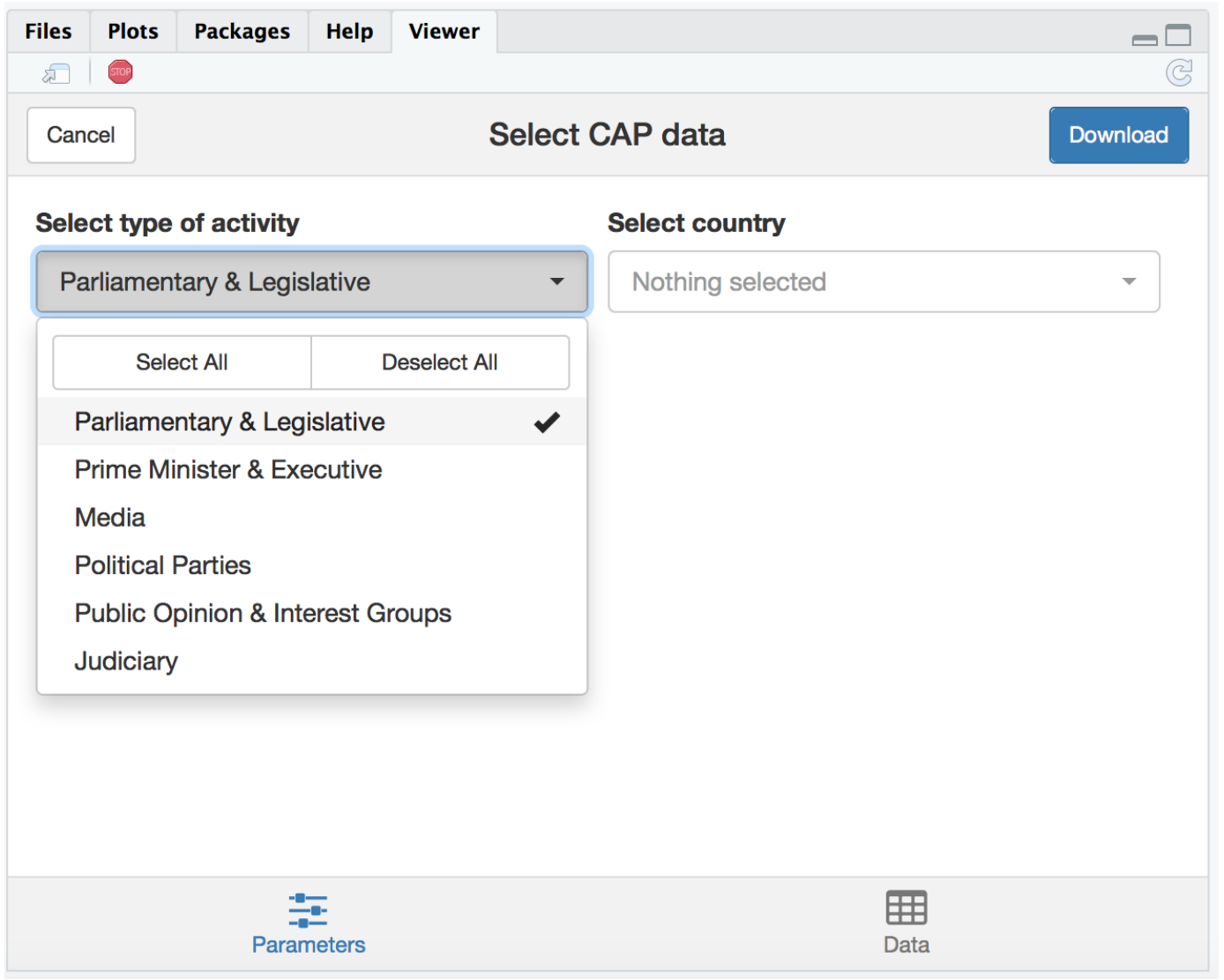
*special thanks to EJ Fagan and Geoff Boyd

How it works

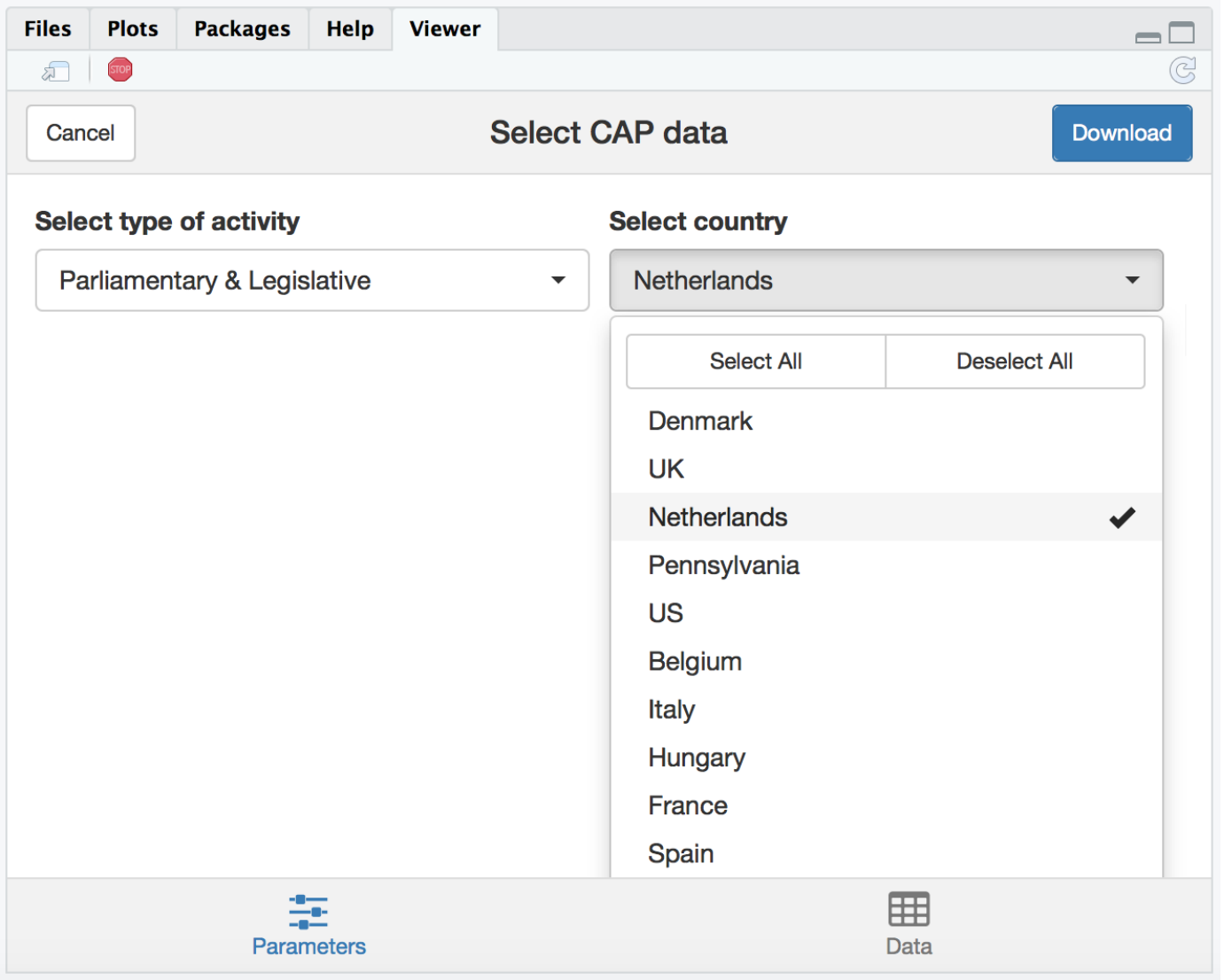
- Uses new API for current dataset info: https://www.comparativeagendas.net/api/datasets/metadata
- Runs as a gadget within Rstudio
- Select and downloads data sets from the API and loads them into R


~/Desktop/capR/CapRpackage - master - RStudio
Go to file/function
Addins
CapRpackage
app.R
cap_df.R
trynew
Source on Save
Run
Environment
History
Connections
Build
Git
Import Dataset
List
Global Environment
Functions
cap_df
function ()
App that downloads complete datasets as a list
library(shiny)
library(shinyWidgets)
library(miniUI)
library(leaflet)
library(ggplot2)
library(tidyverse)
library(DT)
cap_df <- function() {
data <- jsonlite::fromJSON("https://www.comparativeagendas
rename(Country = country, Type = name, Units = stats_obs
from = stats_year_from, to = stats_year_to) %>%
mutate(url = paste0("https://comparativeagendas.s3.amazo
7:17
(Top Level)
R Script
Console
Terminal
~/Desktop/capR/CapRpackage/
+ })
+ }
+
+ runGadget(ui, server)
+ }
> # cap_data <- cap_df()
> cap_data <- cap_df()
Listening on http://127.0.0.1:6855
Files
Plots
Packages
Help
Viewer
Cancel
Select CAP data
Download
Select type of activity
Select country
Nothing selected
Nothing selected
Parameters
Data

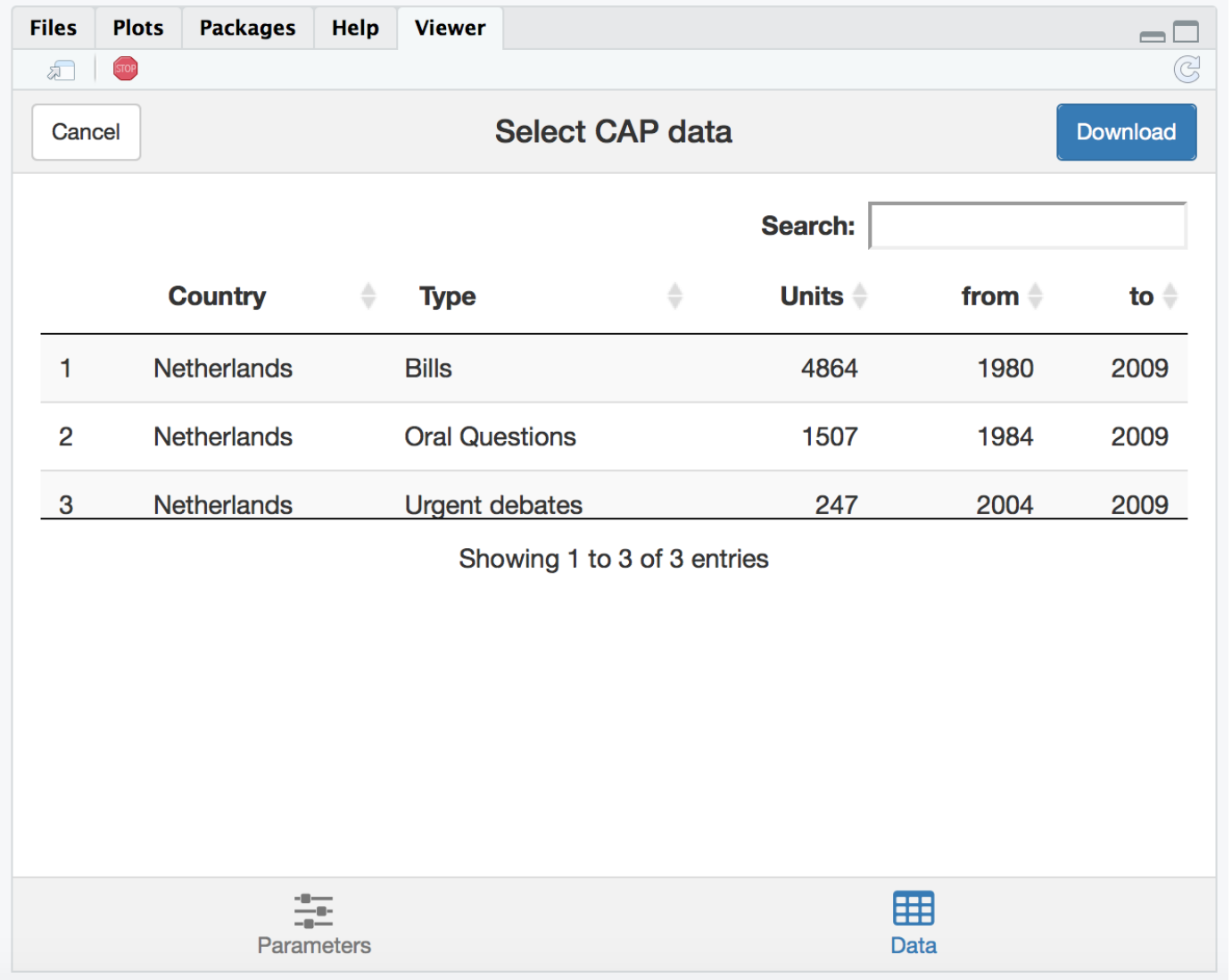
1 - Select dataset type



2 - Select countries/projects



3 – View available datasets



4 – Download and use in R

```
Data
cap_data                8509 obs. of 5 variables
  dataframe : chr "Netherlands_Bills" "Netherlands_Bills" "Netherlands_Bills" "Nethe…
  id : chr "2786" "2786" "2786" "2786" ...
  year : int 1995 1995 1997 2002 2004 2009 1984 1992 2009 1981 ...
  subtopic : int 100 100 100 100 100 100 101 101 101 104 ...
  majortopic: int 1 1 1 1 1 1 1 1 1 ...
```

cap_df.R × | cap_data ×

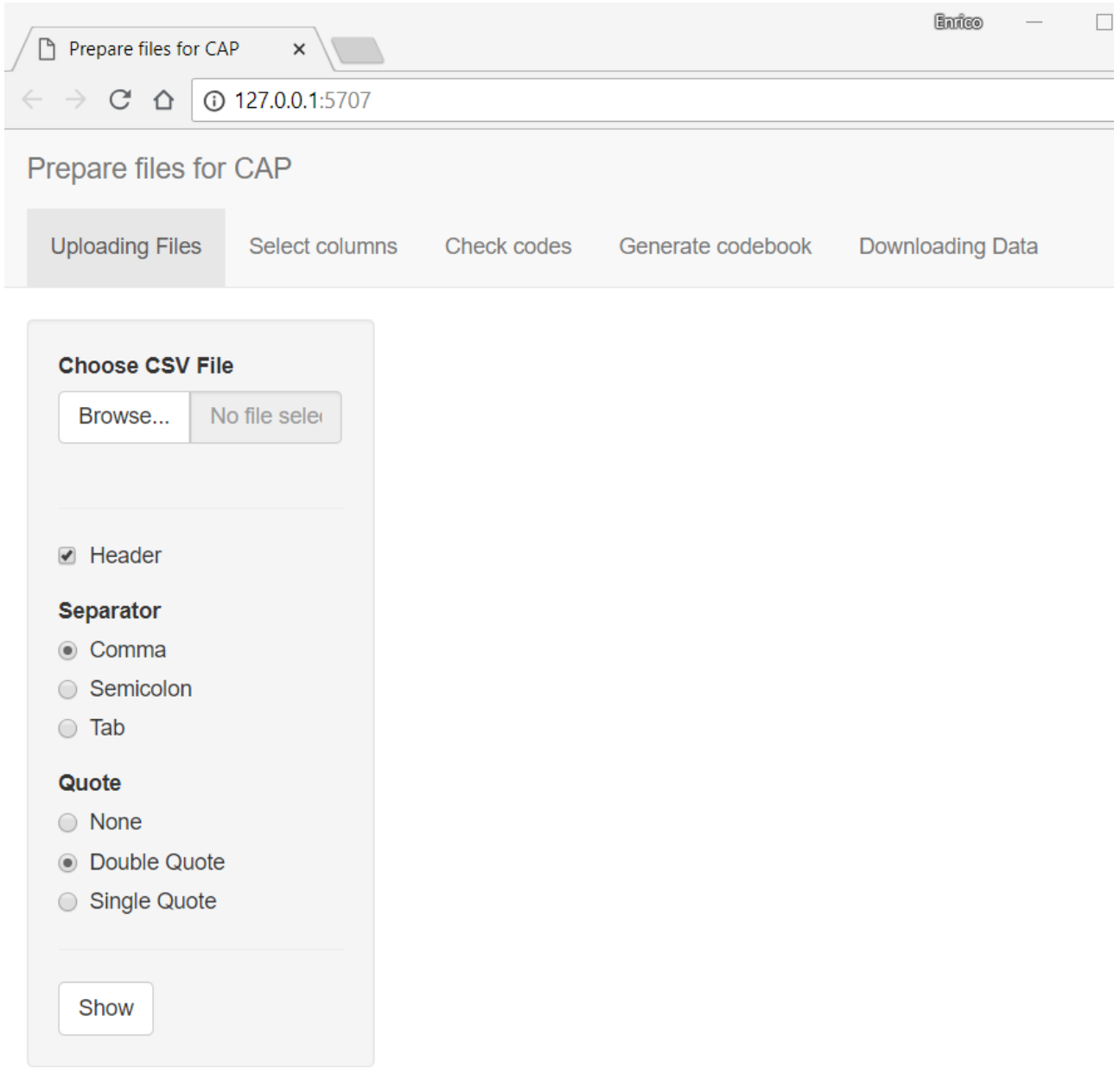
Filter

	dataframe	id	year	subtopic	majortopic
6756	Netherlands_Oral Questions	1	1984	1203	12
6757	Netherlands_Oral Questions	1	1984	1926	19
6758	Netherlands_Oral Questions	1	1984	2108	21
6759	Netherlands_Oral Questions	1	1984	499	4
6760	Netherlands_Oral Questions	1	1984	203	2
6761	Netherlands_Oral Questions	1	1984	509	5
6762	Netherlands_Oral Questions	1	1984	509	5
6763	Netherlands_Oral Questions	1	1984	1605	16
6764	Netherlands_Oral Questions	1	1984	1911	19
6765	Netherlands_Oral Questions	1	1984	1912	19
6766	Netherlands_Oral Questions	1	1984	1913	19
6767	Netherlands_Oral Questions	1	1984	1297	12
6768	Netherlands_Oral Questions	1	1984	230	2
6769	Netherlands_Oral Questions	1	1984	1501	15
6770	Netherlands_Oral Questions	1	1984	608	6

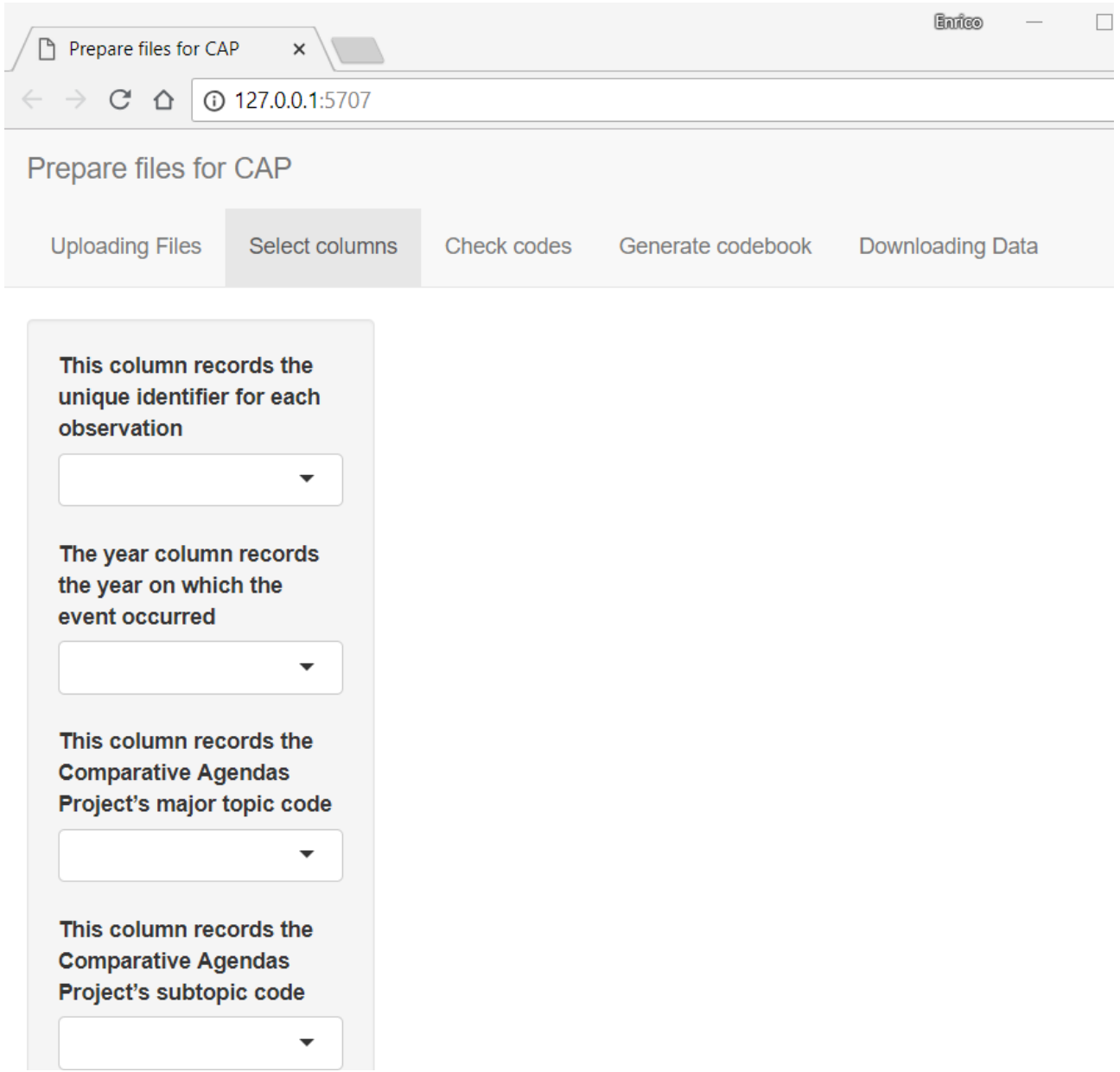
Tool for CAP project managers to prep data for upload to CAP website

Clean CAP Dataframes

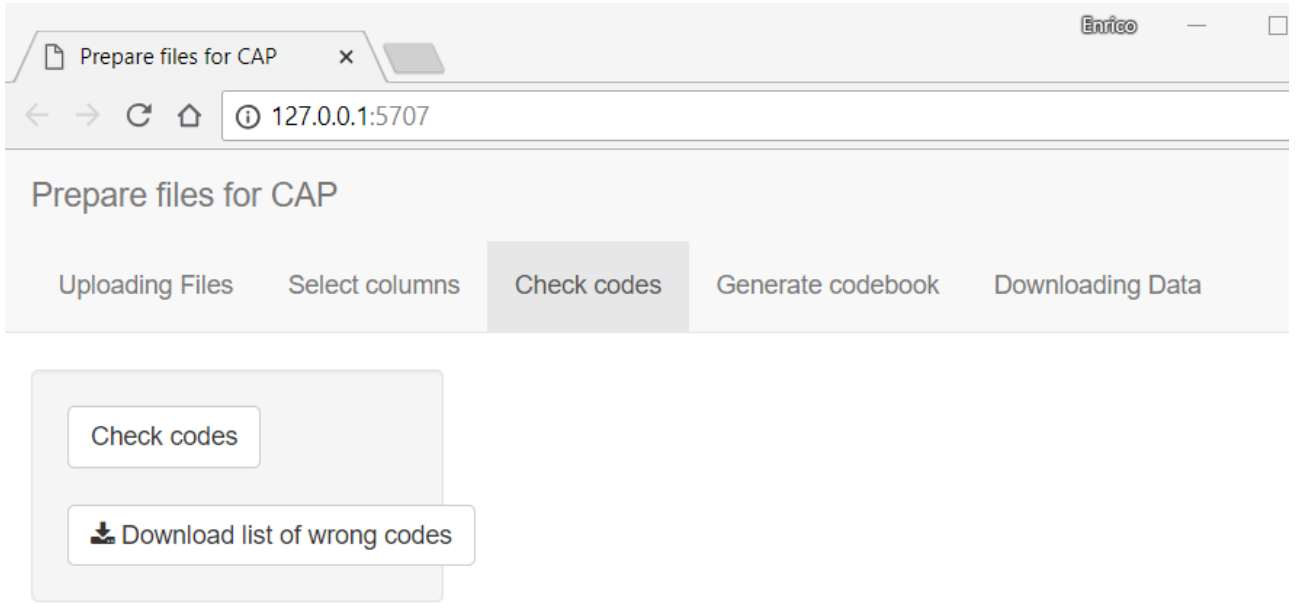
Uploading files



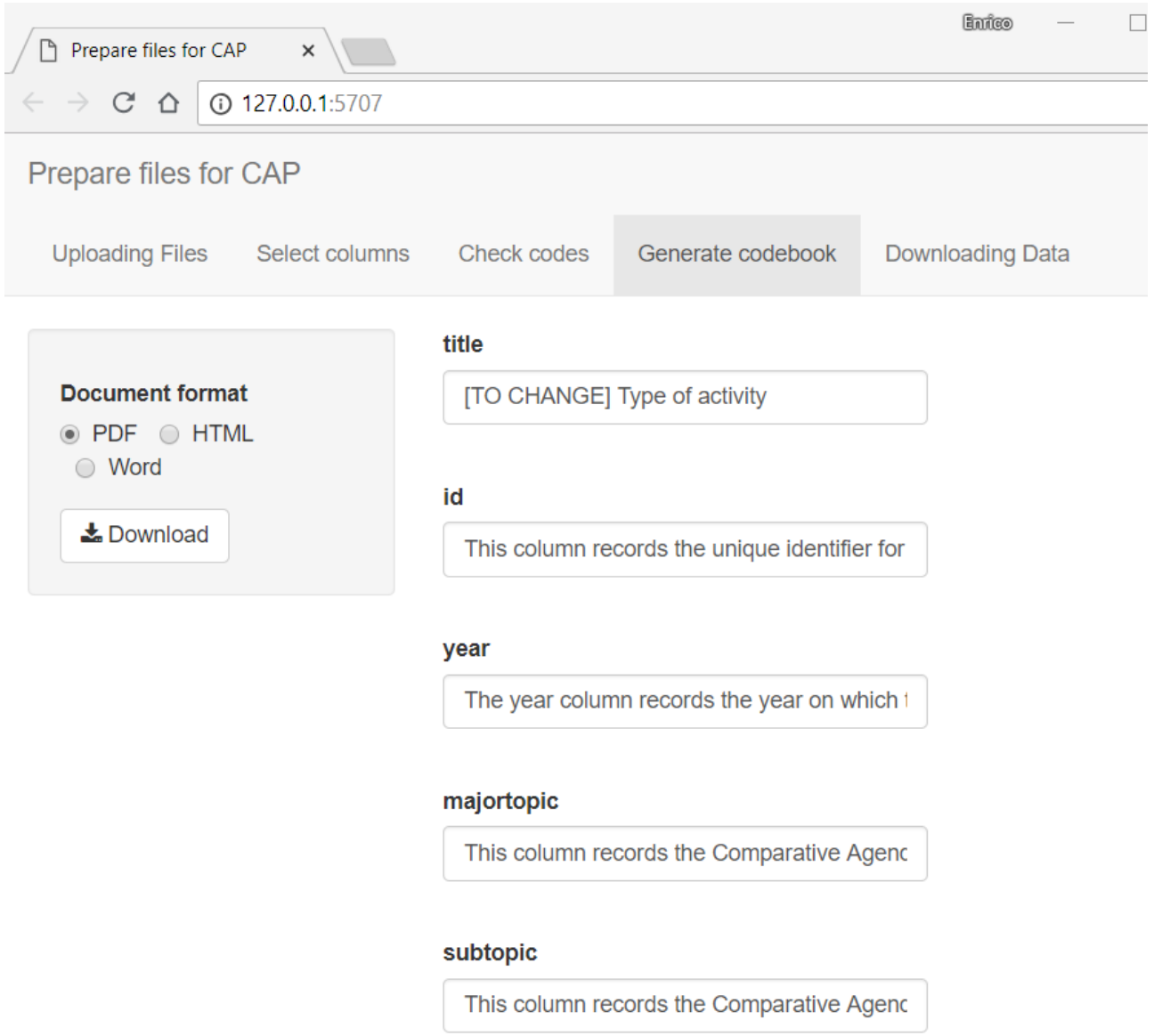
Select columns



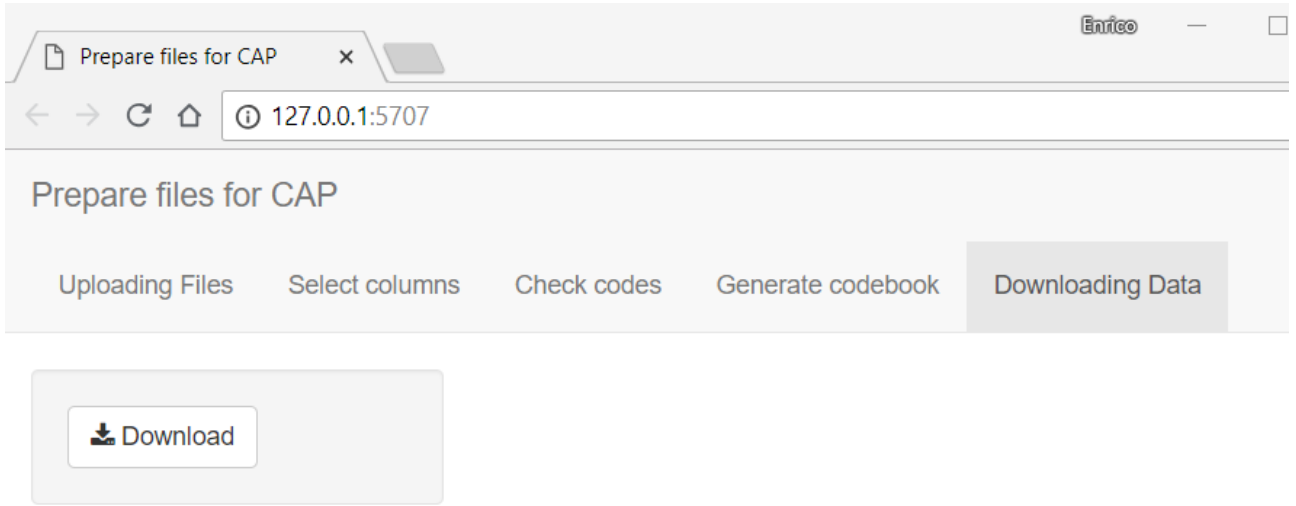
Check for incorrect codes



Create a standardized documentation for your data



Download the cleaned data



Next Steps: For Us

- Functions to perform typical analyses of CAP community (Pooled % change histograms, l-kurtosis, Shannon's H, etc.)
- Documentation and tutorial
- Compatibility with mainstream R packages (e.g. *tidyverse*)

Next Steps: For CAP Community

- Project managers use Clean CAP DF to check old datasets?
- Add version control for CAP datasets?
- Give us ideas for functionality (e.g. Stata version, text mining?)

Contribute code and test package:

https://github.com/SamuelWorkman/capR

Suggestions/Feedback?

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