

# Organizing Projects

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Organizing Data Science Projects

## Growth in a Time of Debt

By CARMEN M. REINHART AND KENNETH S. ROGOFF\*

In this paper, we exploit a new multi-country historical dataset on public (government) debt to search for a systemic relationship between high public debt levels, growth and inflation.<sup>1</sup> Our main result is that whereas the link between growth and debt seems relatively weak at “normal” debt levels, median growth rates for countries with public debt over roughly 90 percent of GDP are about one percent lower than otherwise; average (mean) growth rates are several percent lower. Surprisingly, the relationship between public debt and growth is remarkably similar across emerging markets and advanced economies. This is not the case for inflation. We find no systematic relationship between high debt levels and inflation for advanced economies as a group (albeit with individual country exceptions including the United States). By contrast, in emerging market countries, high public debt levels coincide with higher inflation.

Our topic would seem to be a timely one

especially against the backdrop of graying populations and rising social insurance costs? Are sharply elevated public debts ultimately a manageable policy challenge?

Our approach here is decidedly empirical, taking advantage of a broad new historical dataset on public debt (in particular, central government debt) first presented in Carmen M. Reinhart and Kenneth S. Rogoff (2008, 2009b). Prior to this dataset, it was exceedingly difficult to get more than two or three decades of public debt data even for many rich countries, and virtually impossible for most emerging markets. Our results incorporate data on 44 countries spanning about 200 years. Taken together, the data incorporate over 3,700 annual observations covering a wide range of political systems, institutions, exchange rate and monetary arrangements, and historic circumstances.

We also employ more recent data on external debt including debt owed both by governments



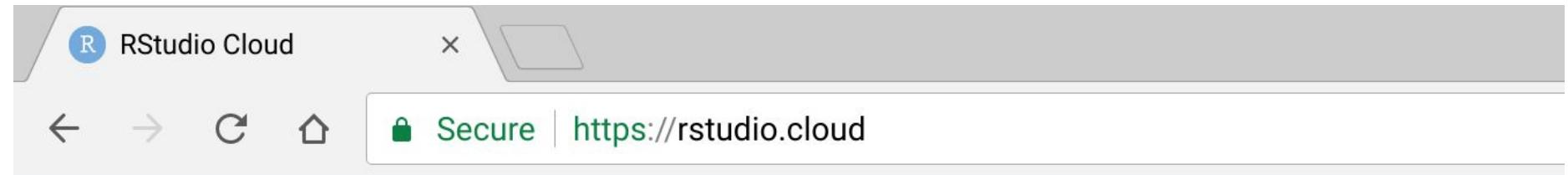
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<http://www.cc.com/video-clips/dcyvro/the-colbert-report-austerity-s-spreadsheet-error>

"File organization and naming  
are powerful weapons against  
chaos."

- Jenny Bryan





https://rstudio.cloud/

RStudio Cloud

Secure | https://rstudio.cloud/projects

>Your Workspace Projects Learn Jeff Leek

cds\_fileorganization



Created Mar 9, 2018 9:51 AM

Delete

Options



cshl



Created Nov 30, 2017 10:39 AM

Delete

Search Projects



keras



Created Dec 6, 2017 8:02 AM

Delete

Sort Projects

By name

By date created

my\_first\_project



Created Jan 17, 2018 1:03 PM

Delete

Your Workspace

Welcome to your workspace in RStudio Cloud.

Keep in mind that work you do here can be viewed by other users and admins. Likewise, you can see and learn from the work other users create in their workspaces.

my\_first\_project



Created Mar 9, 2018 10:24 AM

Delete

Your Other Spaces

Intro to Chromebook Data Science

New Space

Click to return to my first project

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal x

~/project/ ↵

```
R version 3.4.3 (2017-11-30) -- "Kite-Eating Tree"
Copyright (C) 2017 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
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Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```

> |

Environment History Connections

Import Dataset

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Name	Size	Modified
..		
project.Rproj	205 B	Mar 9, 2018, 10:24 AM

A screenshot of the RStudio Cloud interface. The top navigation bar shows 'RStudio Cloud' and the URL 'https://rstudio.cloud/project/22913'. The main workspace includes a 'Console' tab, a terminal, and an environment pane. The environment pane displays the global environment as empty. In the bottom right corner, there is a 'Files' pane with a file tree showing a 'project' folder containing a 'project.Rproj' file. This 'Files' pane is highlighted with a large pink oval. The R version information and license terms are visible in the console area.

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal x

~/project/ ↵

```
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```

> |

Environment History Connections

Import Dataset

Global Environment

Environment is empty

Packages Help Viewer

New Folder Upload Delete Rename More

Name	Size	Modified
..		
project.Rproj	205 B	Mar 9, 2018, 10:24 AM

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal x

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'citation()' on how to cite R or R packages.

Type 'demo()' for some demos, 'help()' for online help,  
'help.start()' for an HTML browser interface.  
Type 'q()' to quit R.

> |

New Folder

Please enter the new folder name

data

OK Cancel

Environment History Connections

Import Dataset Global Environment

Environment is empty

Plots Packages Help Viewer

Folder Upload Delete Rename More

home > project

Name	Size	Modified
..		
project.Rproj	205 B	Mar 9, 2018, 1:55 PM

R 3.4.3

The screenshot shows the RStudio Cloud interface. In the center, a 'New Folder' dialog box is open, prompting the user to 'Please enter the new folder name' with the word 'data' typed into the input field. The 'OK' button is highlighted with a blue border. In the background, the 'Environment' tab is active in the top navigation bar. Below it, the 'Global Environment' pane displays the message 'Environment is empty'. To the right, there's a file browser window showing a single file named 'project.Rproj'. The top navigation bar also includes tabs for 'Console' and 'Terminal', and the bottom status bar indicates the R version as 'R 3.4.3'.

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal ~/project/

```
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'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.
```

Environment History Connections

Import Dataset Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

Name	Size	Modified
data	205 B	Mar 9, 2018, 2:33 PM

A screenshot of the RStudio Cloud interface. The top navigation bar shows the URL https://rstudio.cloud/project/22913. The main workspace includes a Console tab with R startup messages, a Terminal tab, and a Files tab showing a 'data' folder. A pink rectangle highlights the 'data' folder in the Files view. The top right corner shows the user Jeff Leek.

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal ~/project/

```
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Type 'q()' to quit R.
```

Environment History Connections

Import Dataset Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

	Name	Size	Modified
<input type="checkbox"/>	..		
<input type="checkbox"/>	project.Rproj	205 B	Mar 9, 2018, 2:33 PM
<input type="checkbox"/>	data		
<input type="checkbox"/>	figures		
<input type="checkbox"/>	code		
<input type="checkbox"/>	products		

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal ~/project/

```
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```

Environment History Connections

Import Dataset Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

	Name	Size	Modified
<input type="checkbox"/>	..		
<input type="checkbox"/>	project.Rproj	205 B	Mar 9, 2018, 2:33 PM
<input type="checkbox"/>	data		
<input type="checkbox"/>	figures		
<input type="checkbox"/>	code		
<input type="checkbox"/>	products		

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

New File

- R Script Ctrl+Shift+Alt+N
- R Notebook
- R Markdown...
- shiny Web App
- Text File**
- C++ File
- R Sweave
- R HTML
- R Presentation
- R Documentation

Import Dataset

Save Ctrl-S

Save As... Ctrl-Shift-S

Save All Ctrl+Alt+S

Print...

Close Ctrl+Alt+W

Close All Ctrl+Shift+W

Close All Except Current Ctrl+Shift+Alt+W

```
type "demo()" for some demos, "help()" for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.
```

> |

Environment History Connections

Import Dataset

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

	Name	Size	Modified
<input type="checkbox"/>	project.Rproj	205 B	Mar 9, 2018, 2:33 PM
<input type="checkbox"/>	data		
<input type="checkbox"/>	figures		
<input type="checkbox"/>	code		
<input type="checkbox"/>	products		

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Untitled1 x Go to file/function Addins R 3.4.3

Environment History Connections Import Dataset Global Environment List

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

Name	Size	Modified
..		
project.Rproj	205 B	Mar 9, 2018, 2:33 PM
data		
figures		
code		
products		

Console Terminal

~/project/

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>

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Untitled1 x

1

1:1 Text File

Console Terminal

~/project/

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> |

Environment History Connections

Import Dataset

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

Name	Size	Modified
..		
project.Rproj	205 B	Mar 9, 2018, 2:33 PM
data		
figures		
code		
products		

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Untitled1 x Go to file/function Addins Environment History Connections Import Dataset List C

Save File - Untitled1

File name: README.md

Home > project

..

code

data

figures

products

project.Rproj

205 B Mar 9, 2018, 2:33 PM

Environment is empty

Viewer

Delete Rename More

Size Modified

205 B Mar 9, 2018, 2:33 PM

Console Terminal

~/project/ ↵

R is free software and comes with ABSOL  
You are welcome to redistribute it unde  
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R is a collaborative project with many  
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'citation()' on how to cite R or R pack

Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.

> |

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Addins

MD README.md

ABC Preview Insert Run

1

1:1 Markdown

Console Terminal

~/project/

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'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.

> |

Environment History Connections

Import Dataset Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

Name	Size	Modified
..		
project.Rproj	205 B	Mar 9, 2018, 2:33 PM
data		
figures		
code		
products		
README.md	0 B	Mar 9, 2018, 2:48 PM

R 3.4.3

Jeff Leek

The screenshot shows the RStudio Cloud interface for a project named "my\_first\_project". The top navigation bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, and Help menus. Below the menu bar are various icons for file operations like Open, Save, Print, and Addins. The main workspace on the left has a code editor with an MD README.md file open. The code editor toolbar includes Insert, Run, and other editing tools. Below the code editor is a terminal window showing the standard R startup message. The right side of the interface features several panes: Environment (empty), Files (listing project.Rproj, data, figures, code, products, and README.md), and Global Environment (also empty). The Files pane shows the README.md file highlighted with a pink box. The bottom right corner indicates the R version is 3.4.3 and the user is Jeff Leek.

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

MD README.md x

ABC Preview Insert Run

```
1 # This is the README file for my_first_project
2
3 The folders in this project are:
4
5 * _data_ - is the folder where you will put all the data you have
6 collected or been given to analyze.
7 * _figures_ - is where you will put plots, data pictures, and other
8 images you have created to show data to other people.
9 * _code_ - is where you will create code files for collecting,
cleaning up, or analyzing data.
10 * _products_ - this is the place where you will place any reports,
presentations, or products you create for sharing with other people.
```

9:1

Console Terminal x

~/project/

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'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.

>

Environment History Connections

Import Dataset

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

Name	Size	Modified
..		
data	205 B	Mar 9, 2018, 2:33 PM
code		
products		
README.md	542 B	Mar 9, 2018, 2:56 PM

R 3.4.3

Jeff Leek

The screenshot shows the RStudio Cloud interface. The top navigation bar includes 'File', 'Edit', 'Code', 'View', 'Plots', 'Session', 'Build', 'Debug', 'Profile', 'Tools', and 'Help'. Below the menu is a toolbar with various icons for file operations like 'New', 'Open', 'Save', etc. The main workspace on the left has a 'README.md' file open, containing a script to guide users through the project's structure. The terminal window below it displays standard R startup messages. On the right, there are three tabs: 'Environment', 'History', and 'Connections'. The 'Environment' tab shows an empty global environment. The 'Files' tab in the file browser lists the project's directory structure, with a 'data' folder highlighted by a pink rectangle. Other items listed include 'code', 'products', and the 'README.md' file itself.

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

MD README.md x

1 # This is the README file for my\_first\_project

2

3 The folders in this project are:

4

5 \* `_data_` - is the folder where you will put all the data you have collected or been given to analyze.

6 \* `_figures_` - is where you will put plots, data pictures, and other images you have created to show data to other people.

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9

7:42

Markdown

Console Terminal x

~/project/ ↵

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> |

Environment History Connections

Global Environment

Environment is empty

Files Plots Packages Help Viewer

Home > project > data

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

MD README.md x

1 # This is the README file for my\_first\_project

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4

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9

7:42

Markdown

Console Terminal x

~/project/ ↵

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'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.

> |

Environment History Connections

Import Dataset

Global Environment

Environment is empty

FILES PLOTS PACKAGES HELP VIEWER

New Folder Upload Delete Rename More

Name Size Modified

..

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

MD README.md x

ABC Preview Insert Run

```
1 # This is the README file for my_first_project
2
3 The folders in this project are:
4
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presentations, or products you create for sharing with other people.
```

7:42

Console Terminal

```
~/project/
```

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Type 'q()' to quit R.

> |

Environment History Connections

Import Dataset

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project > data

Name	Size	Modified
..		
raw_data		
tidy_data		

R 3.4.3

RStudio Cloud

Secure | https://rstudio.cloud/project/22913

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

README.md x

```
1 # This is the README file for my_first_project
2
3 The folders in this project are:
4
5 * _data_ - is the folder where you will put all the data you have
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10 * _products_ - this is the place where you will place any reports,
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```

7:42

Console Terminal x

```
~/project/
```

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Type 'q()' to quit R.

> |

Environment History Connections

Import Dataset

Global Environment

Environment is empty

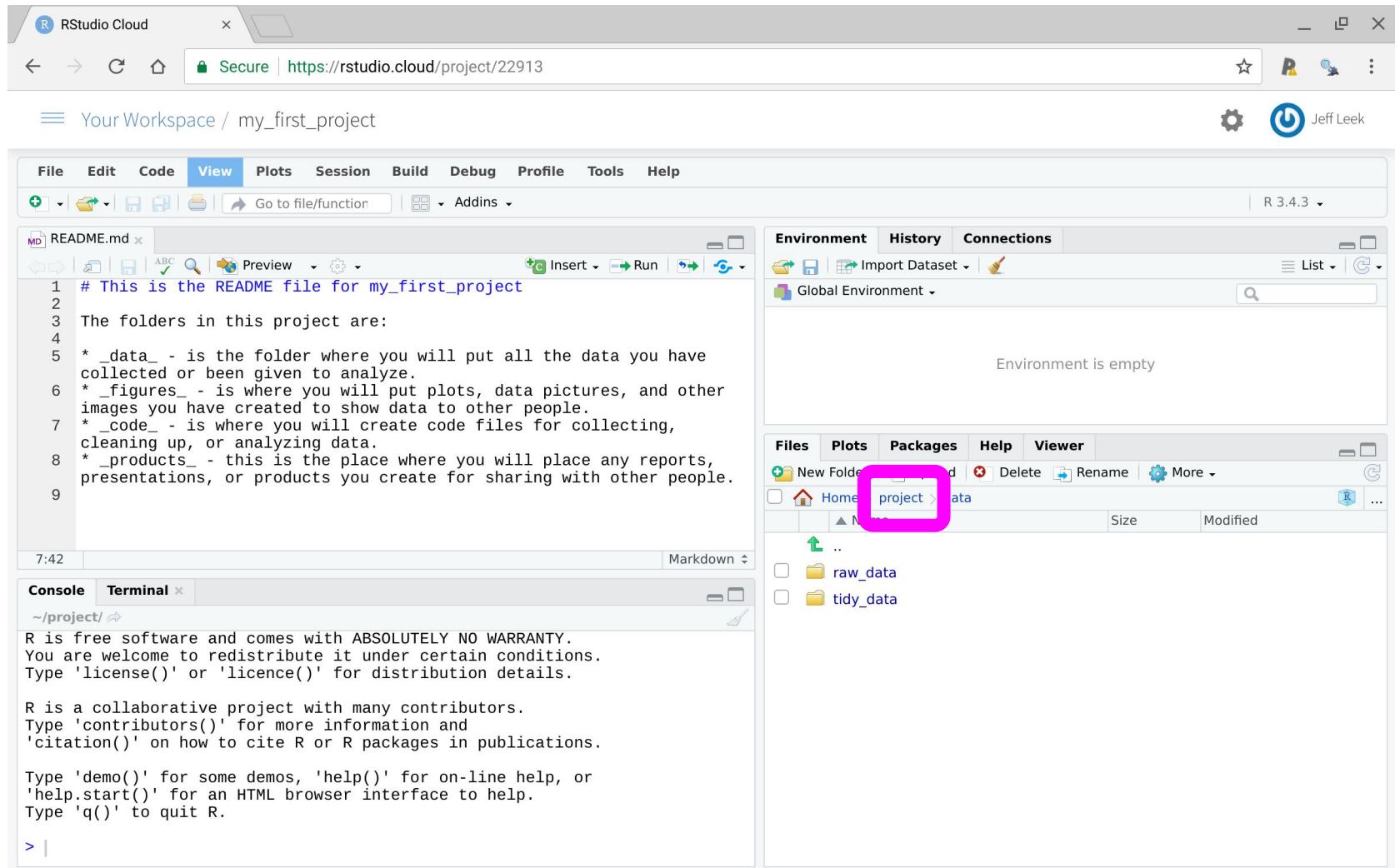
Files Plots Packages Help Viewer

New Folder .. Delete Rename More

Home project > data

raw\_data

tidy\_data



RStudio Cloud

Secure | <https://rstudio.cloud/project/22913>

Your Workspace / my\_first\_project

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

README.md x

ABC Preview Insert Run

```
1 # This is the README file for my_first_project
2
3 The folders in this project are:
4
5 * _data_ - is the folder where you will put all the data you have
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7 * _figures_ - is where you will put plots, data pictures, and other
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presentations, or products you create for sharing with other people.
```

7:42

Console Terminal

~/project/

```
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Type 'q()' to quit R.
```

> |

https://rstudio.cloud/projects

Environment History Connections

Import Dataset

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

Home > project

Name	Size	Modified
..		
code		
data		
figures		
products		
project.Rproj	205 B	Mar 9, 2018, 2:33 PM
README.md	542 B	Mar 9, 2018, 2:56 PM