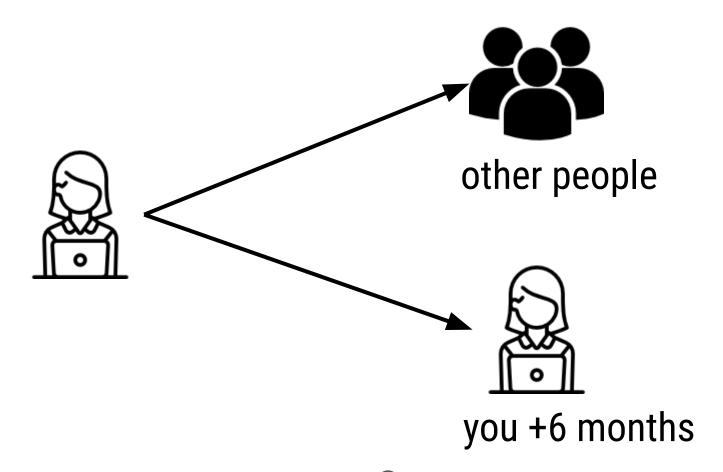
Organizing your data analysis

Getting and Cleaning Data

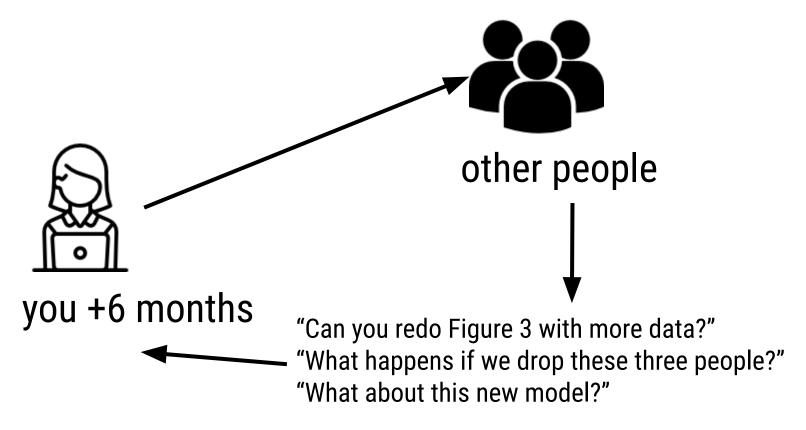
Data Science Files Should Be...

- Easy to find
- Easy to share
- Easy to understand
- Easy to update

Your audience

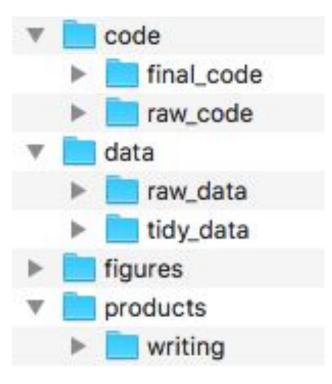


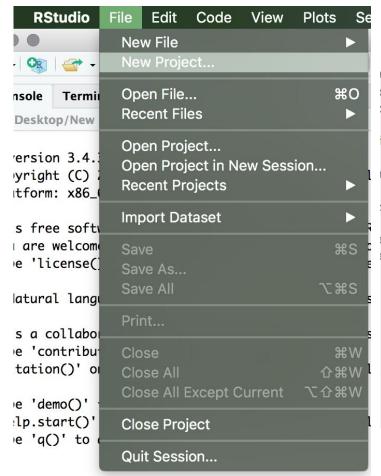
Why you are your own audience

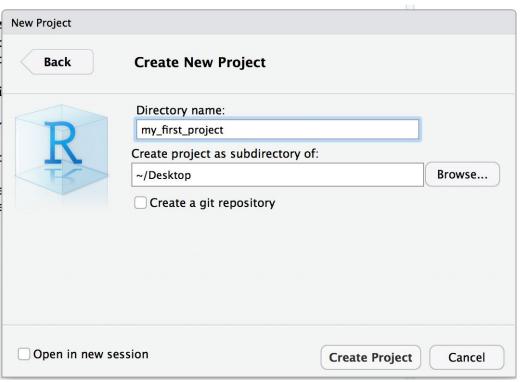


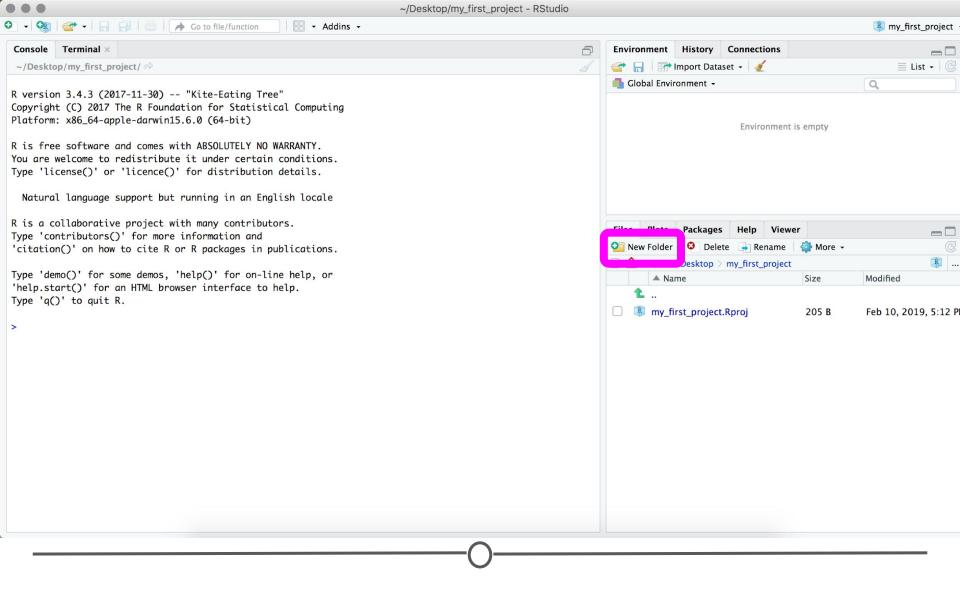
Why organize?

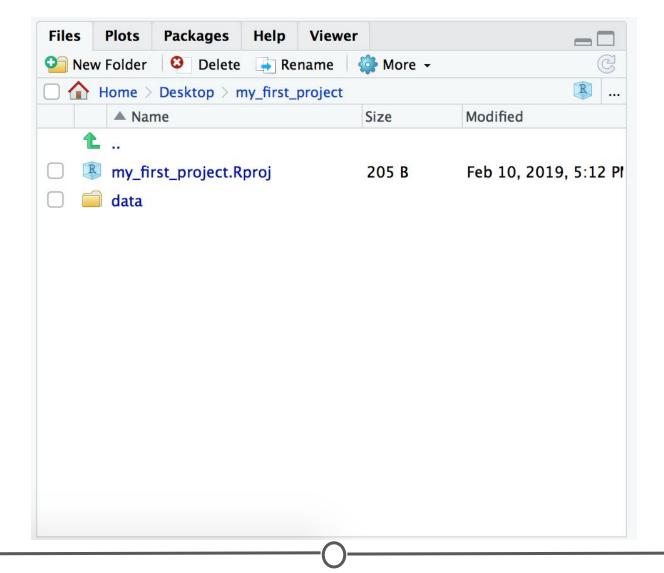
- It makes collaboration easier.
- It reduces the likelihood of making mistakes.
- It makes is a lot easier to go back to your analysis
- It shows transparency

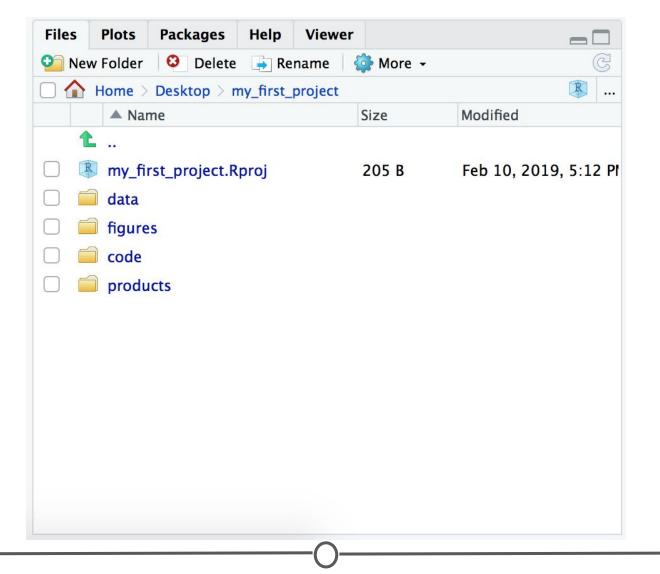




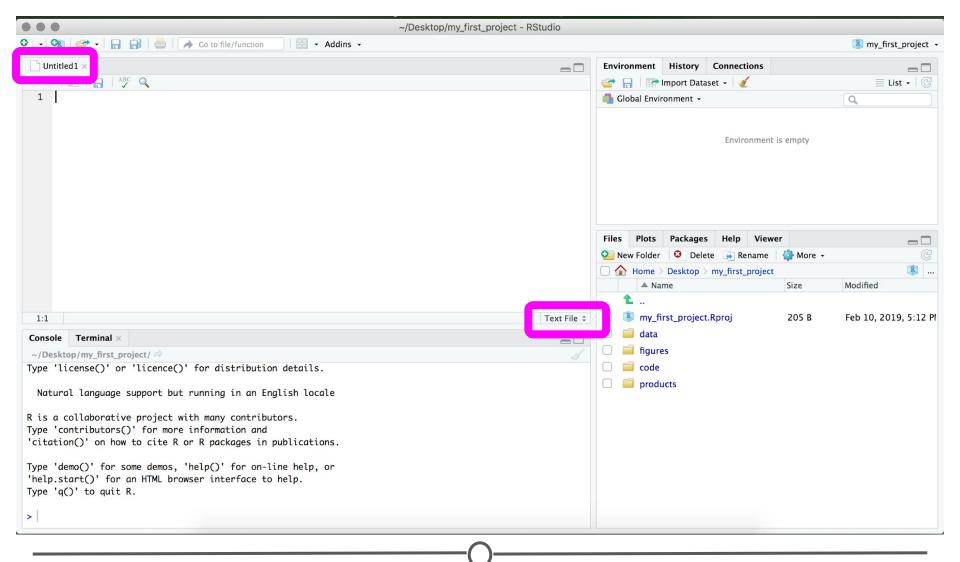


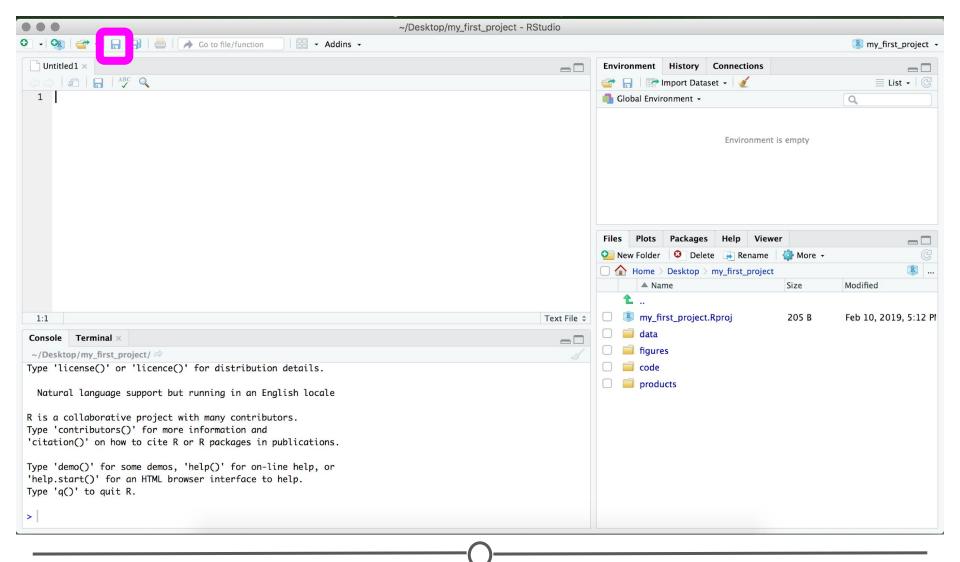


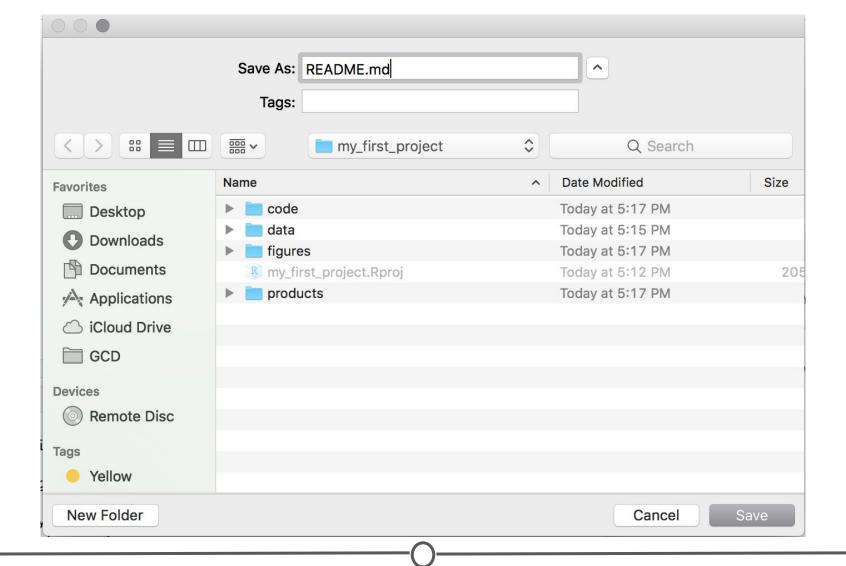


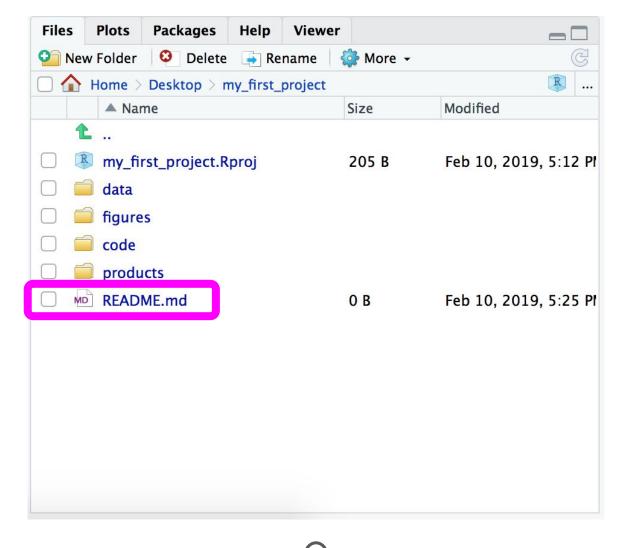












This is the README file for my_first_project

Last updated: 02-Mar-2018

The folders in this project are:

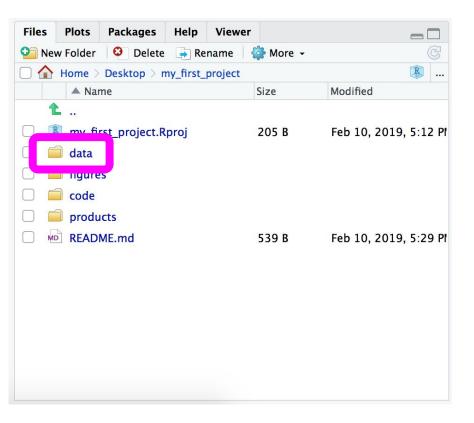
- data is the folder where you can find all the collected data.
- figures is where you can find all the plots, data pictures, and other images.
- code is where you can find code files for collecting, cleaning up, or analyzing data.
- products is where you can find reports, presentations, or products

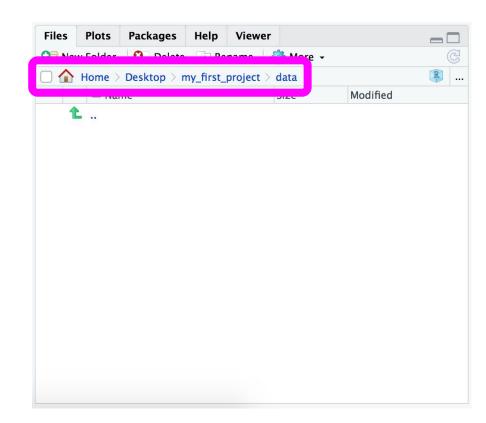
Data on crime is obtained from International Crime Data collected between 2015-2018 and is publicly available. Data on happiness is collected from the Survey of International Happiness.

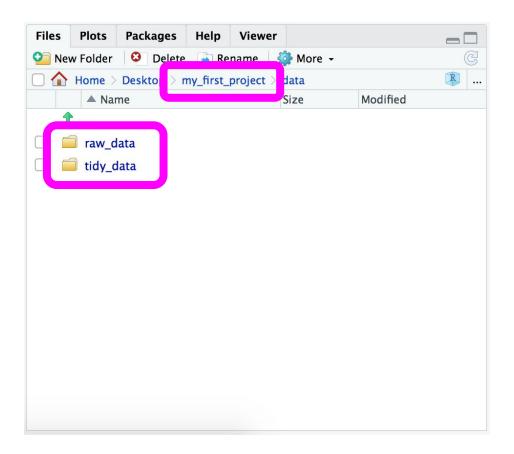
Contributors:

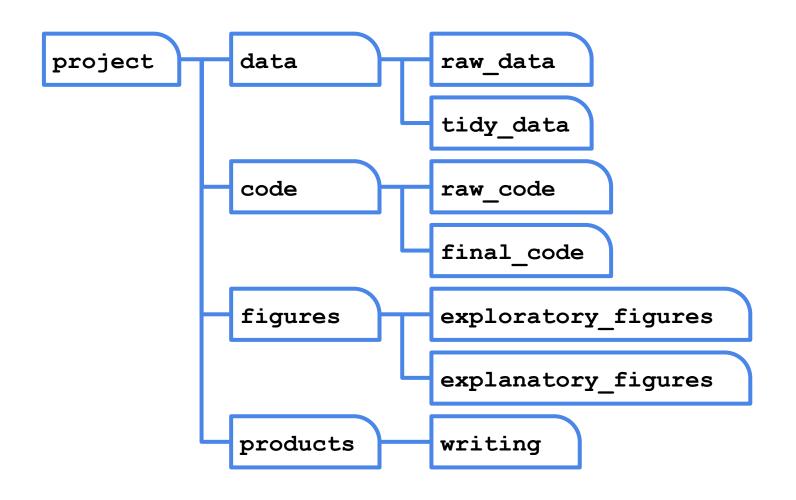
- Jane Everyday Doe, jane.everyday.doe@gmail.com
- John Everyday Doe, john.everyday.doe@gmail.com

Cite: Doe, J, and Doe, J, Sample Analysis Using Sample Data, Working Paper, 2018









Key principles of file naming for data science projects:

- Machine readable
- Human readable
- Be nicely ordered

Bad Naming	Good Naming
2013 my report.md	2013_my_report.md
malik's_report.md	maliks_report.md
01_zoë_report.md	01_zoe_report.md
AdamHooverReport.md	adam-hoover-report.md
executivereportpepsiv1.md	executive_report_pepsi_v1.md

2018_jan_sales_cust001_prod001.md 2017_mar_sales_cust001_prod001.md 2016_may_sales_cust001_prod008.md 2017_jan_sales_cust120_prod007.md 2015_oct_sales_cust034_prod001.md 2015_oct_sales_cust034_prod002.md

Year	Month	Туре	Customer ID	Product ID
2018	jan	sales	001	001
2017	mar	sales	001	001
2016	may	sales	001	008
2017	jan	sales	120	007
2015	oct	sales	034	001
2015	oct	sales	034	002

Which one is better?

analysis.R or 2019-exploratory_analysis_crime.R?

Which one is better?

05-21-2017-analysis-cust001.R or 2017-05-21-analysis-cust001.R? Report01_cust12_prod03.md Report02_cust12_prod03.md Report03_cust12_prod03.md Report04_cust12_prod03.md

Bad Naming	Good Naming
1_consumer_analysis.md	001_consumer_analysis.md
reg_1_company_data.R	reg_01_company_data.R

Summarizing: Organizing your data analysis

Getting and Cleaning Data