Organising Yo

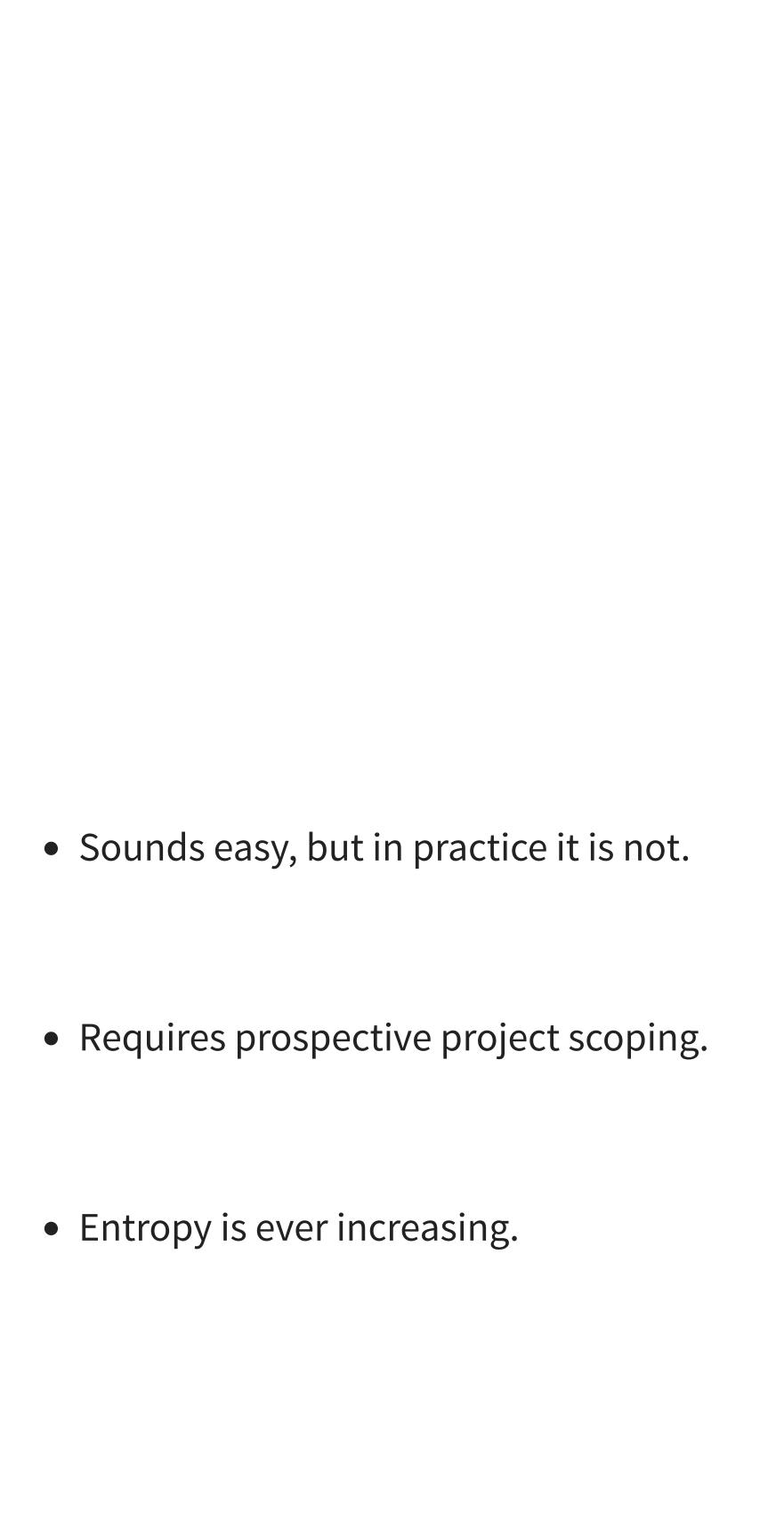
Data Science Wor

Dr Zak Varty

Week 1: What are we trying

- Data science is a collaborative discipline
- Be a good collaborator, to others and to your
- This week will show one framework to help y
- Like flossing not difficult but requires discipl
- We will take an opinionated and R focused a settings.





Properties of a well organise

Ideally, we would like to organise our projects s

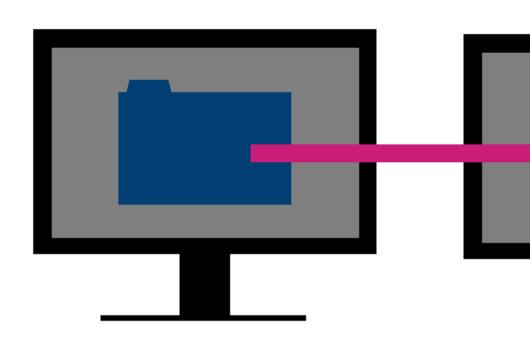
- Portable
- Version control friendly
- Reproducible
- Integrated Development Environment friendly

Portability

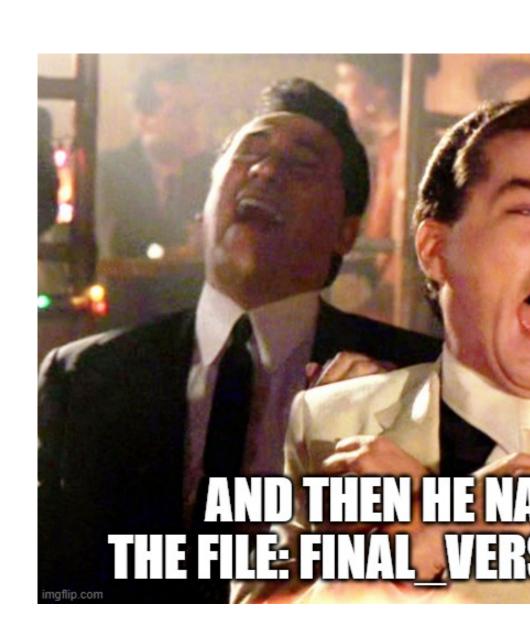
Is your work all in one place or scattered?

Can it be moved to a new location without brea

What do we mean by a new location, exactly?



Version Control Friendly



Reproducible

A study is **reproducible** if <u>you</u> can take <u>the or code</u> used to analyze the data and <u>recreate al</u> the study.

Broman et al. (2017) "Recommendations to F Reproducible Research"

Integrated Development En

- Possible to code and manage projects entire line.
- Puts a lot of strain on you, both your fingers
- Integrated development environments such VisualStudio aim to reduce this burden
 - Autocomplete / shortcodes
 - Environment panes
 - Templating



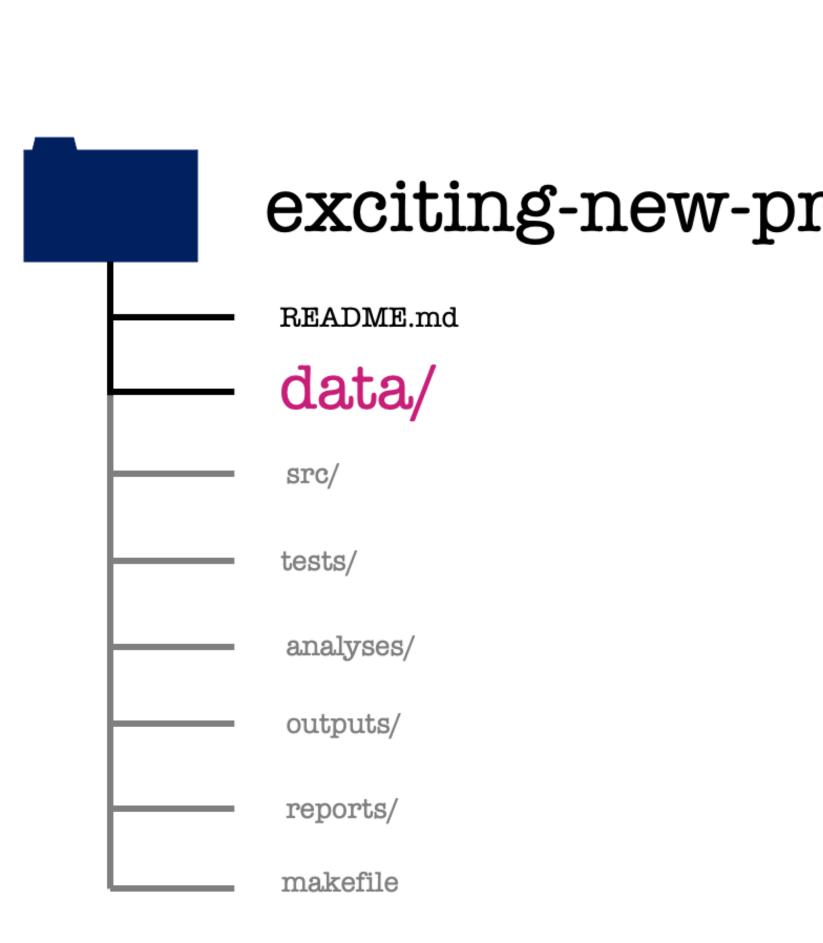
exciting-

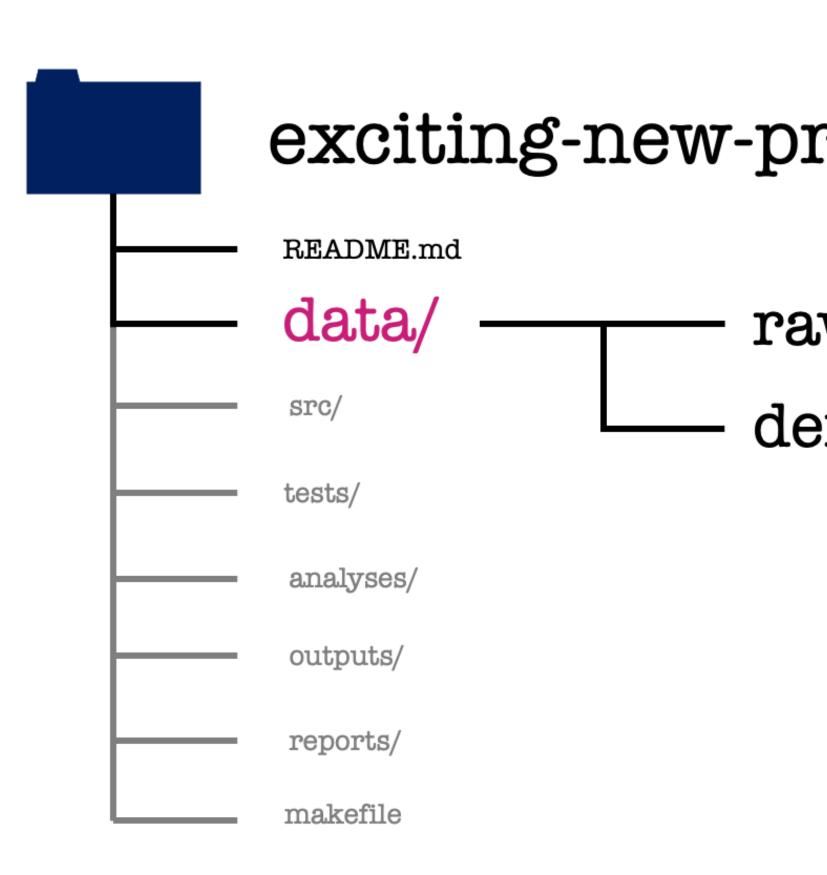


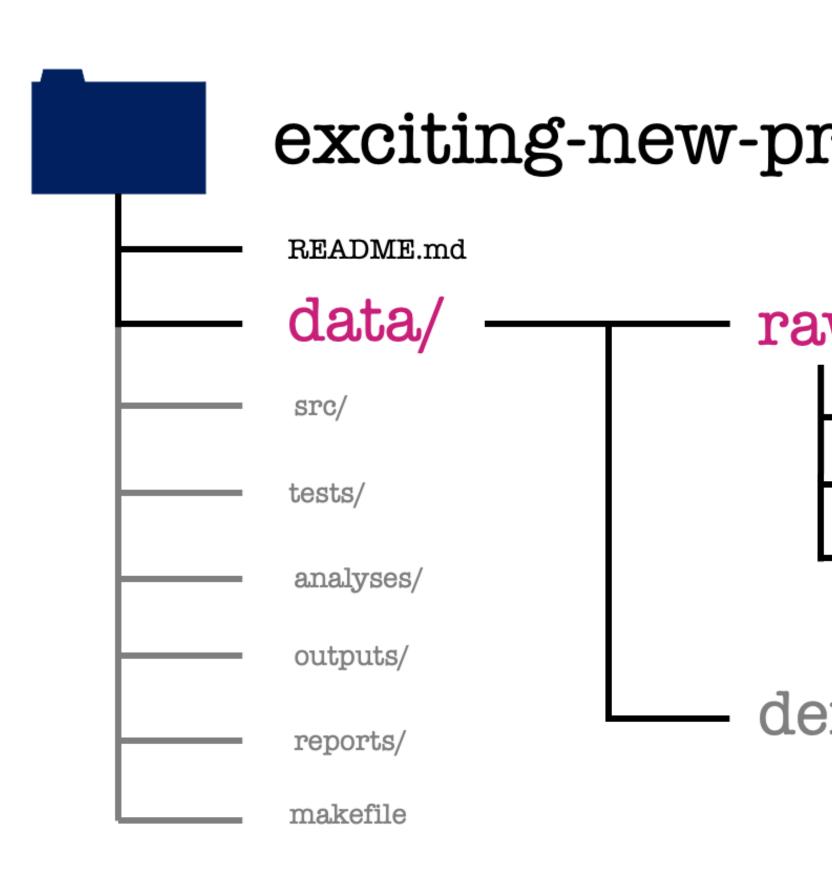


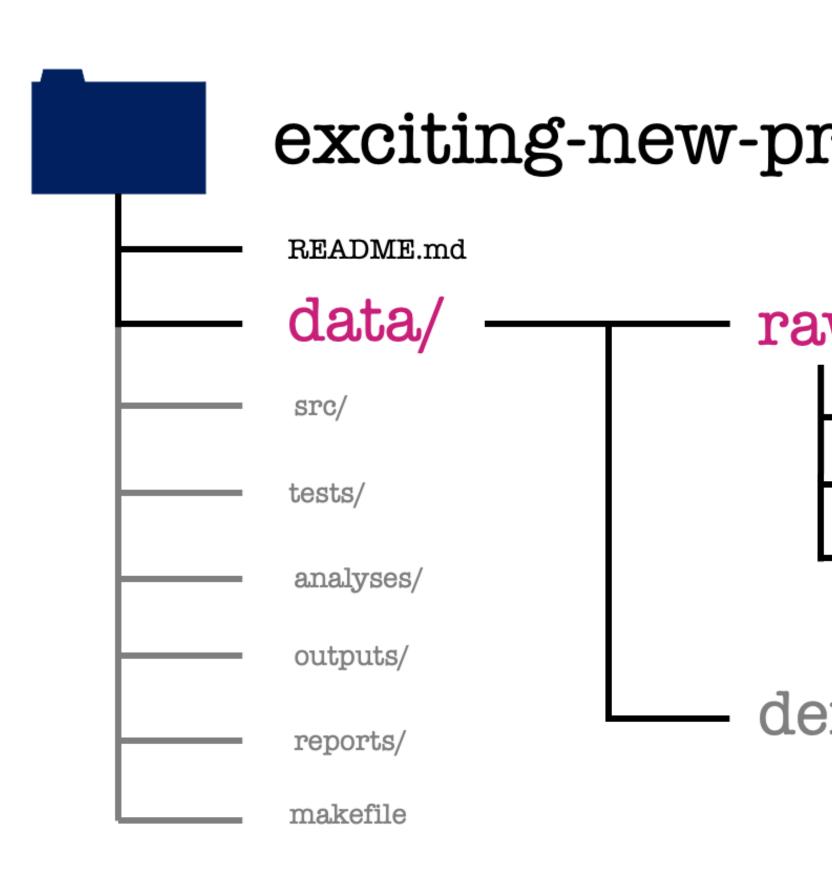
Inside the README

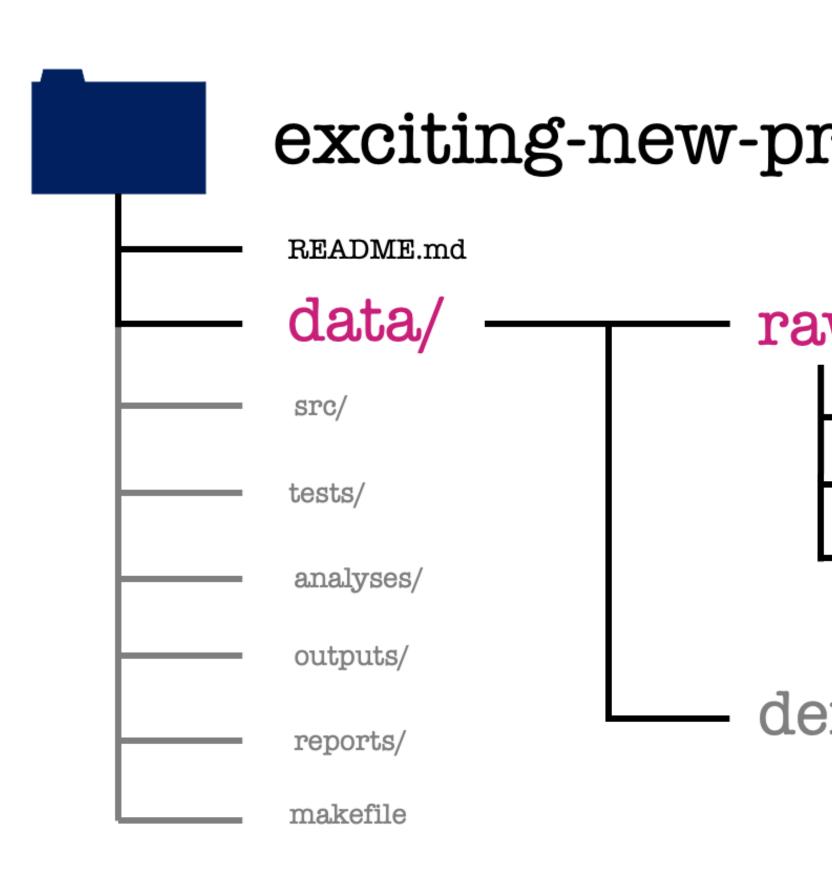
- Name
- Project Status
- Description
- Installation
- Usage / Examples
- Support
- Contributing

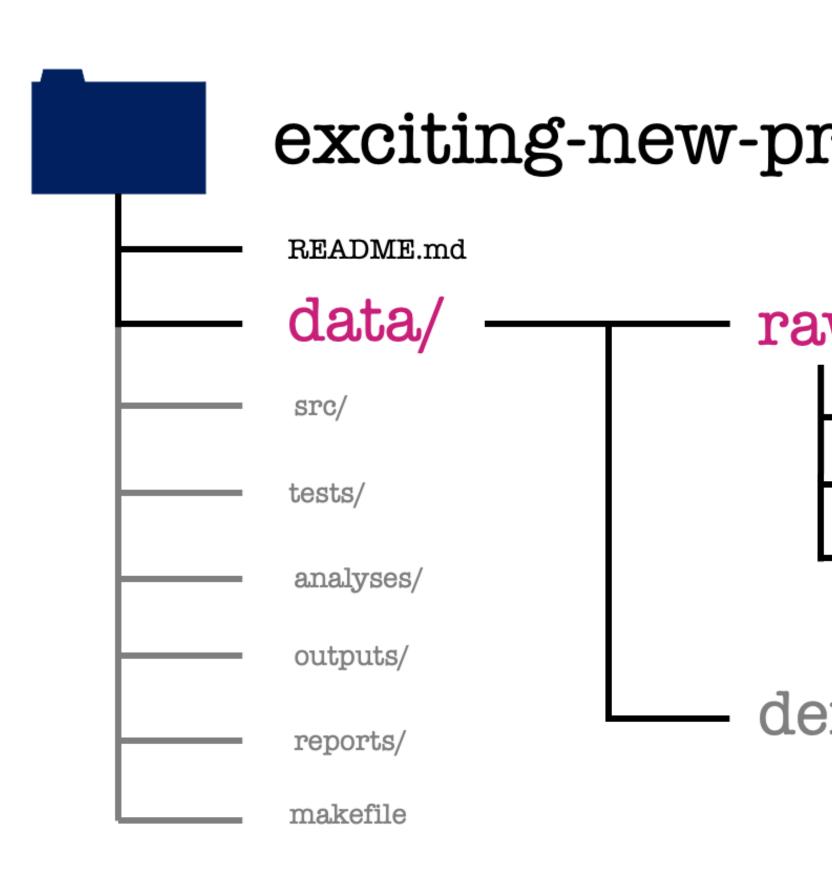


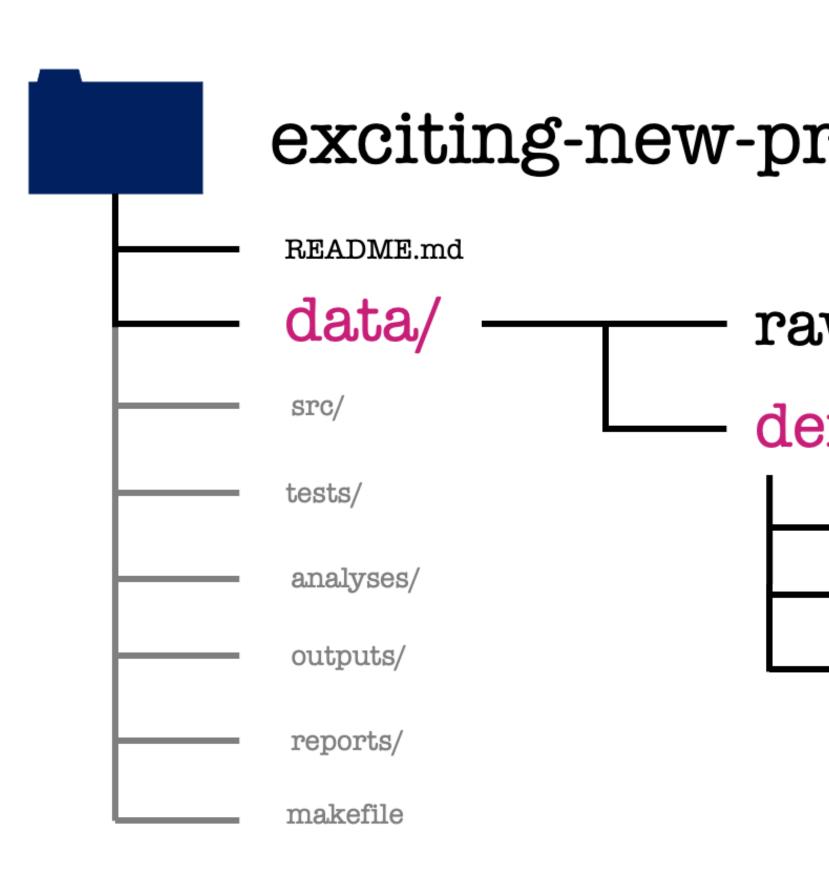


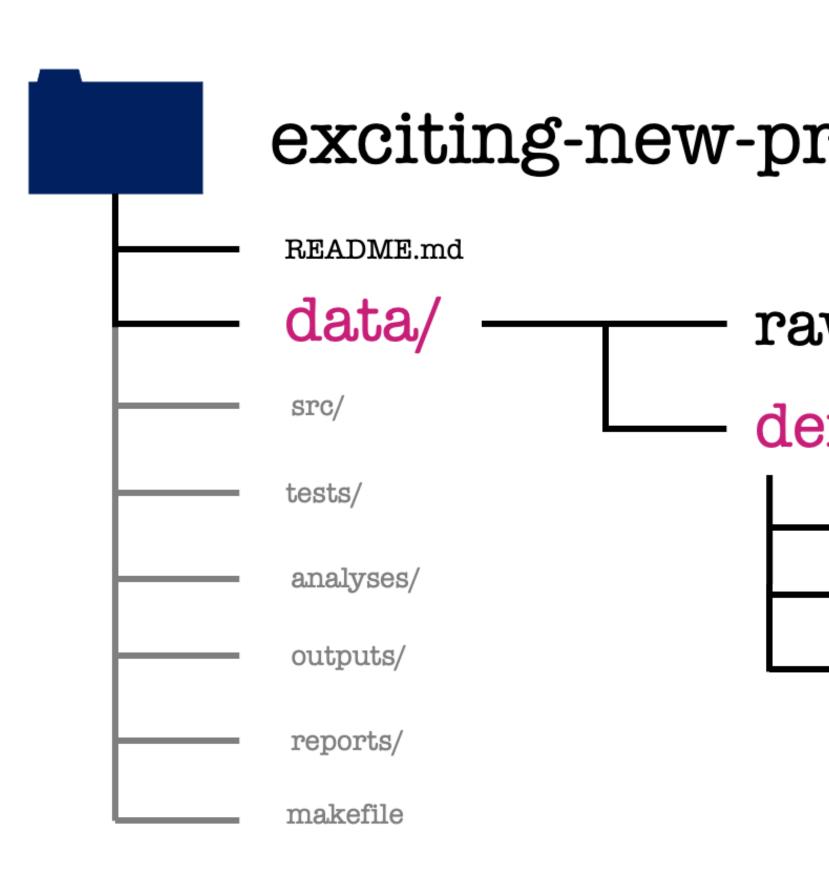


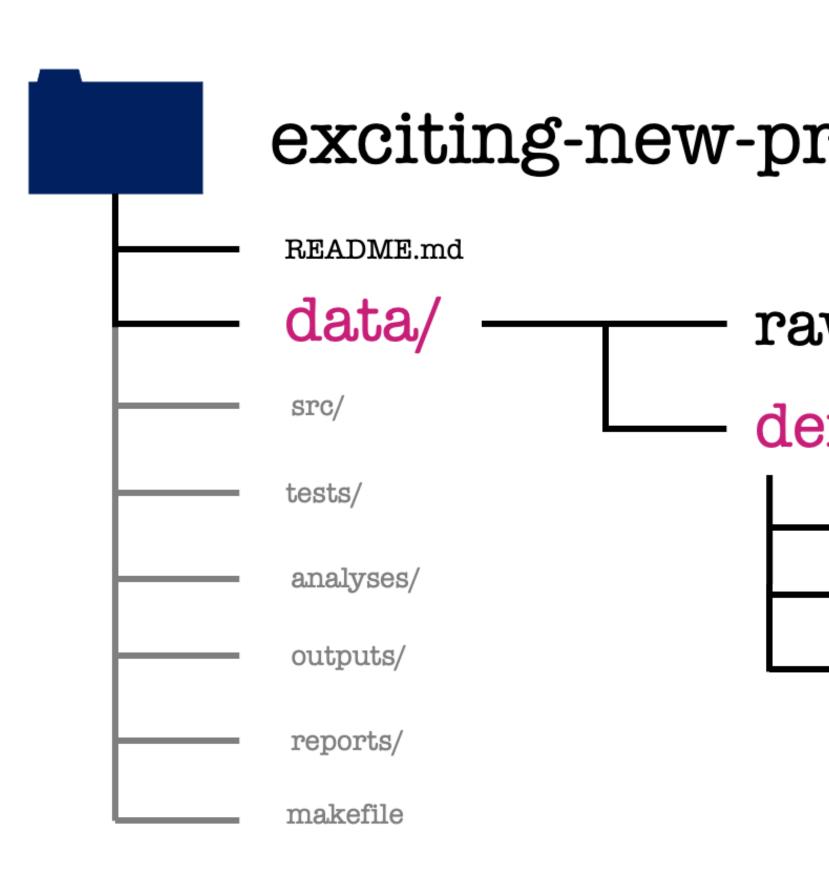


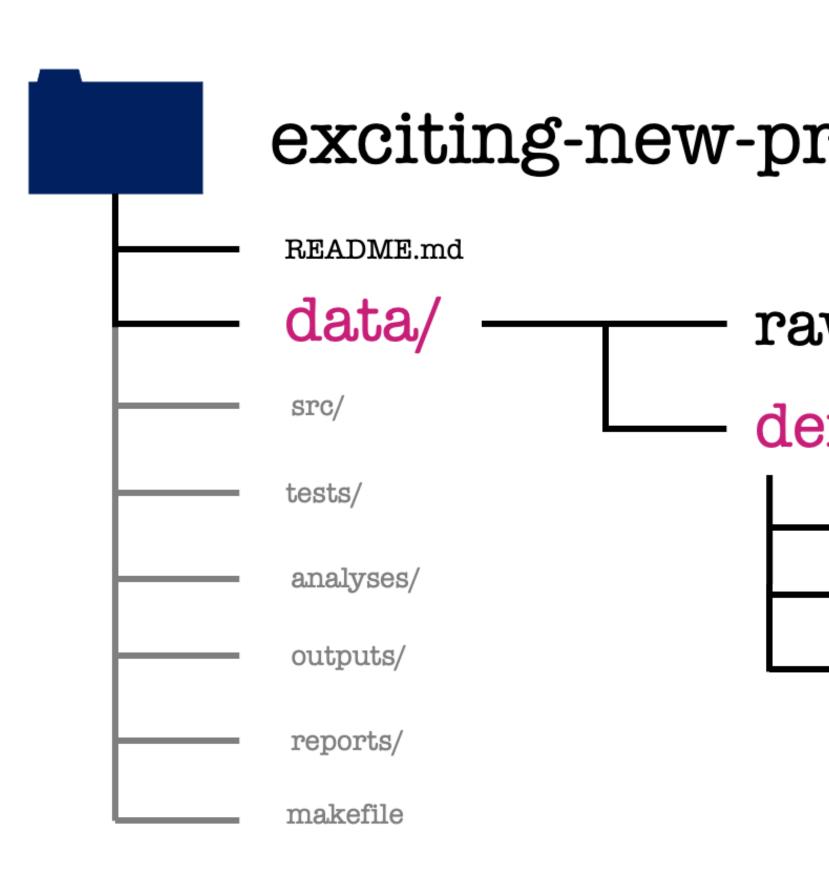


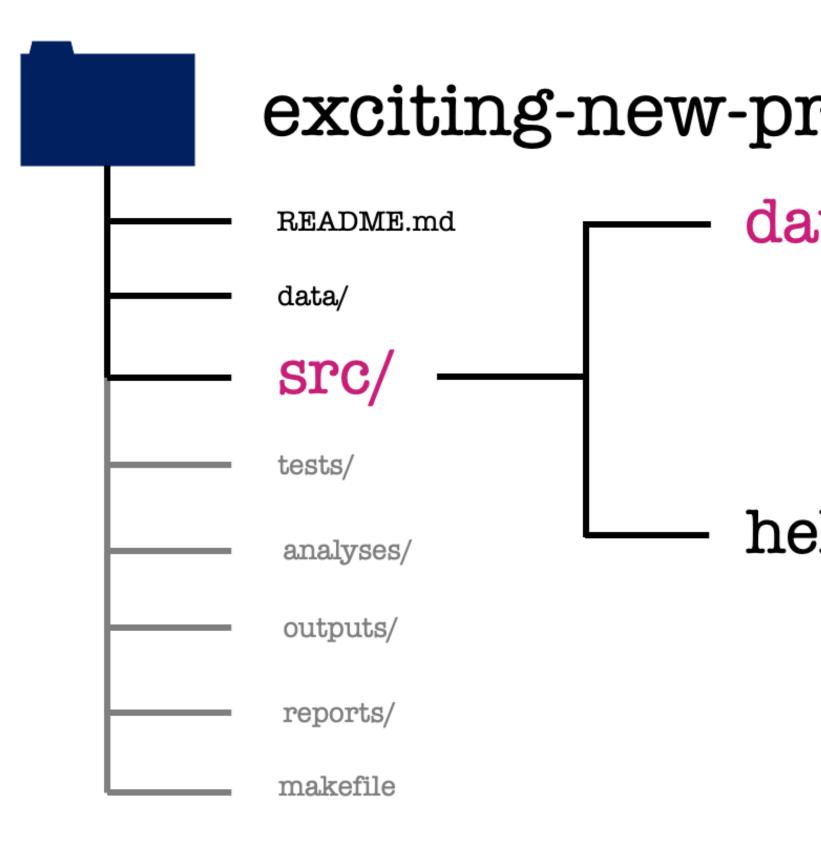




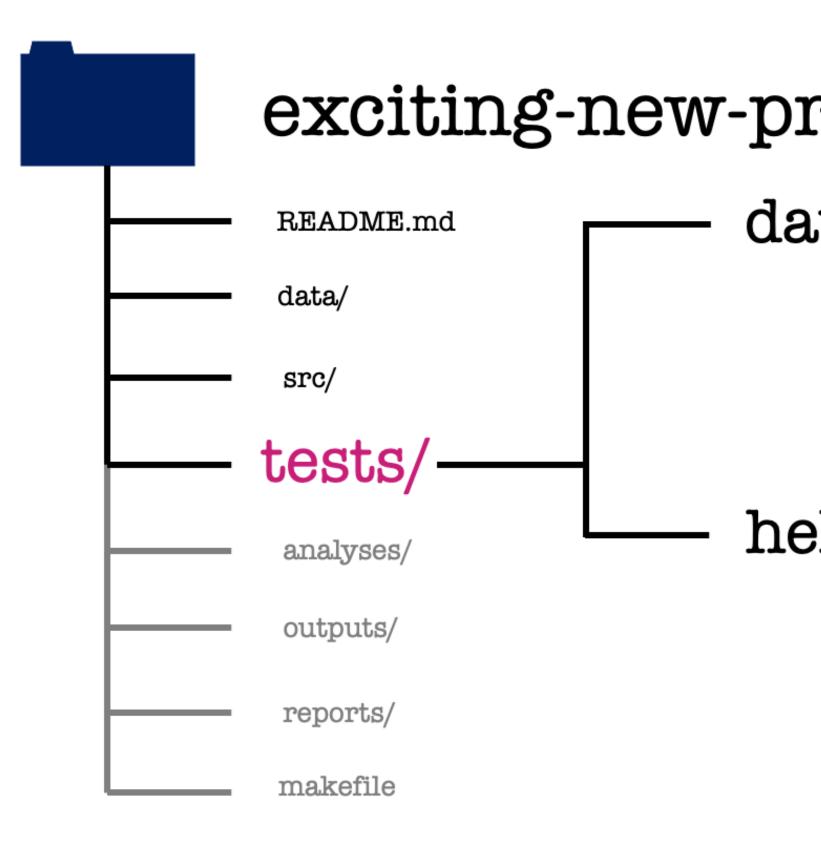


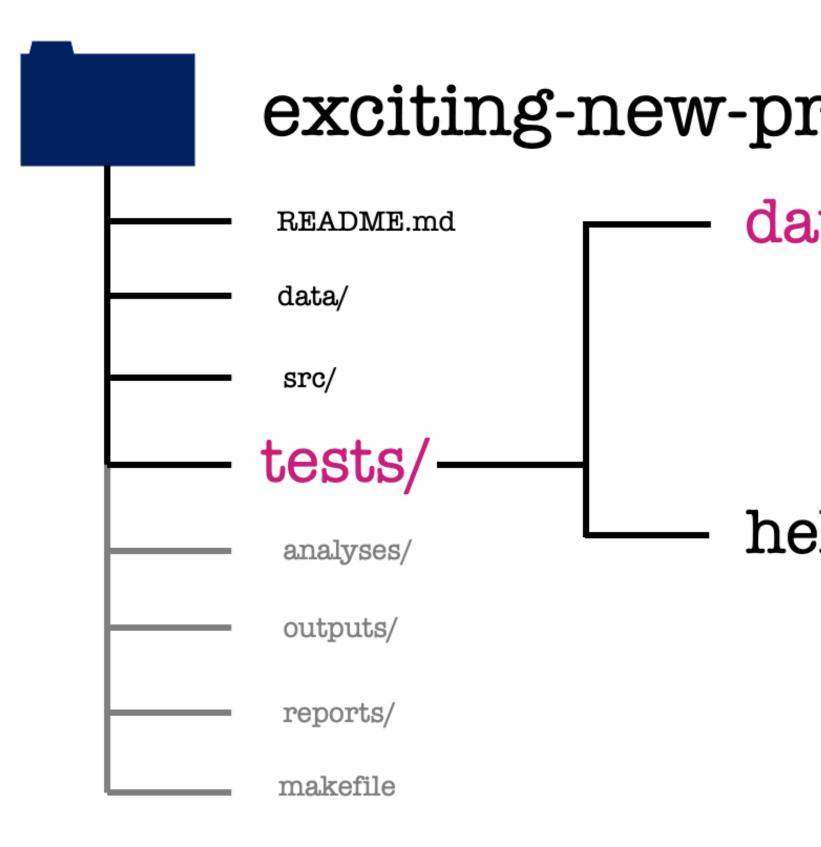


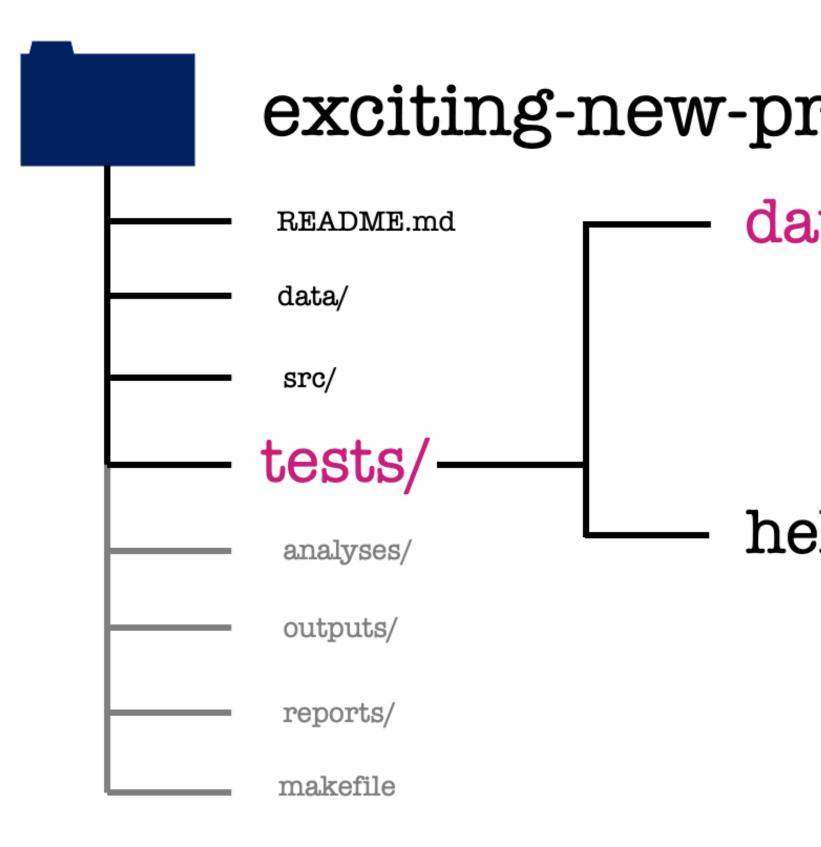


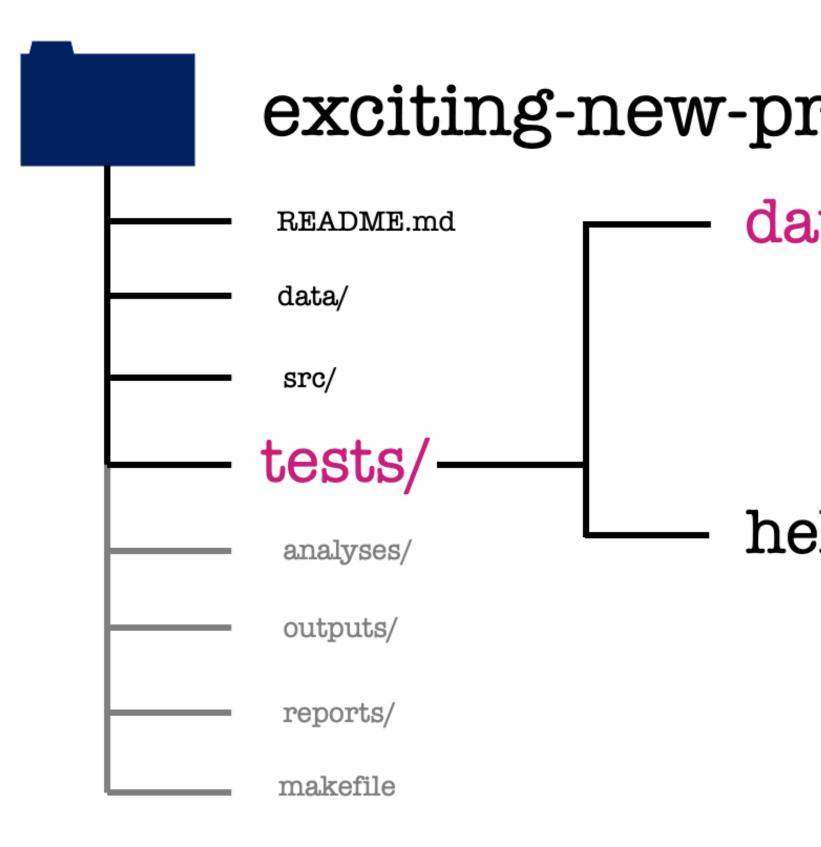




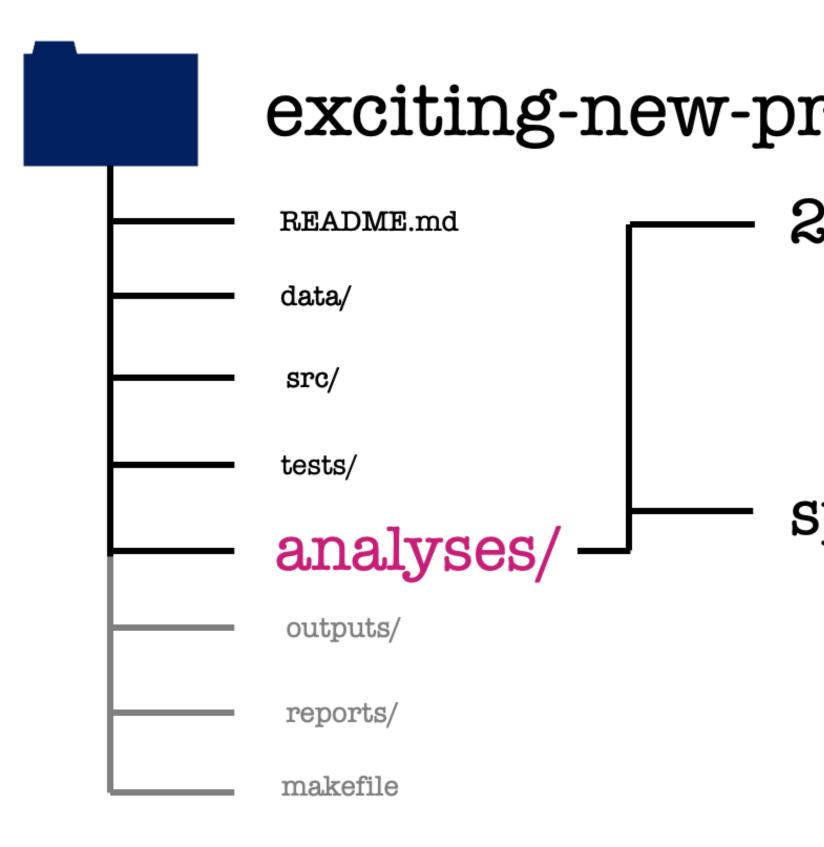


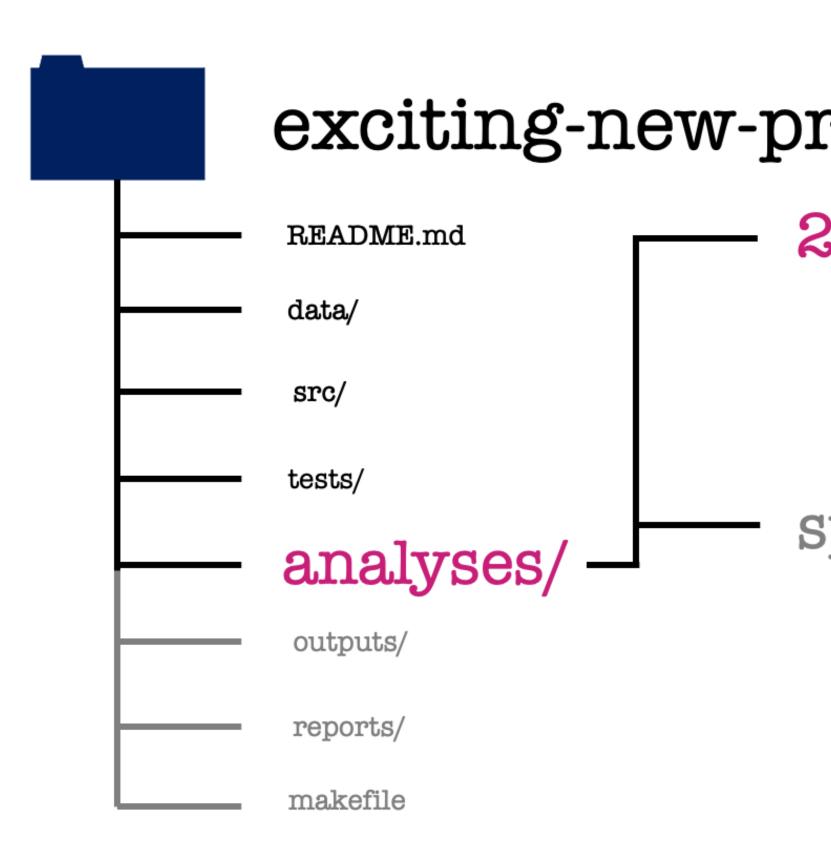


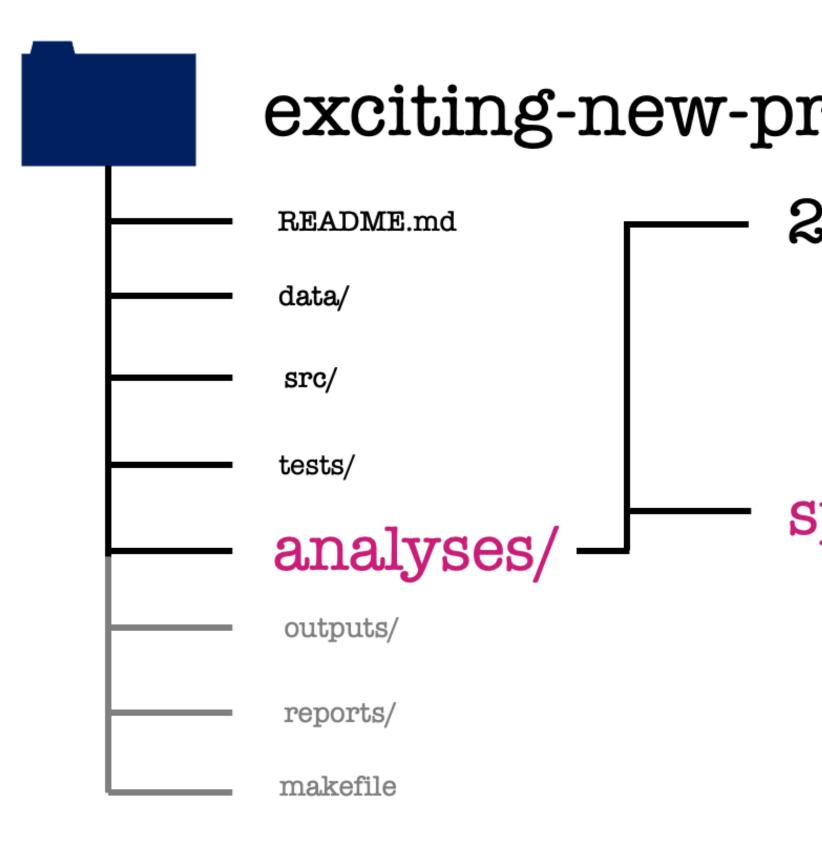


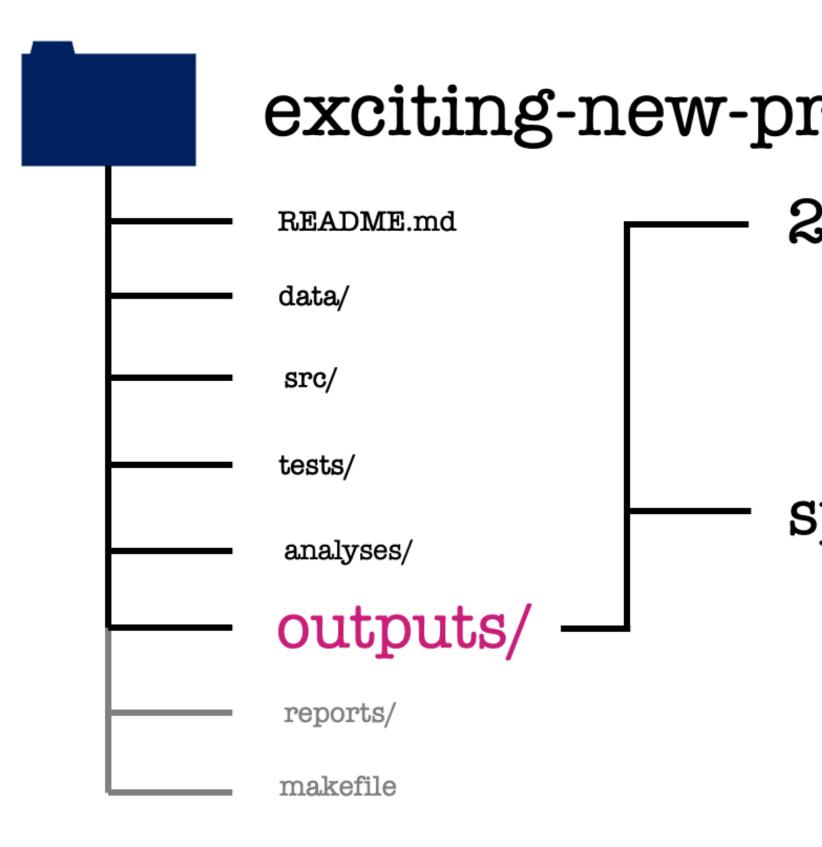


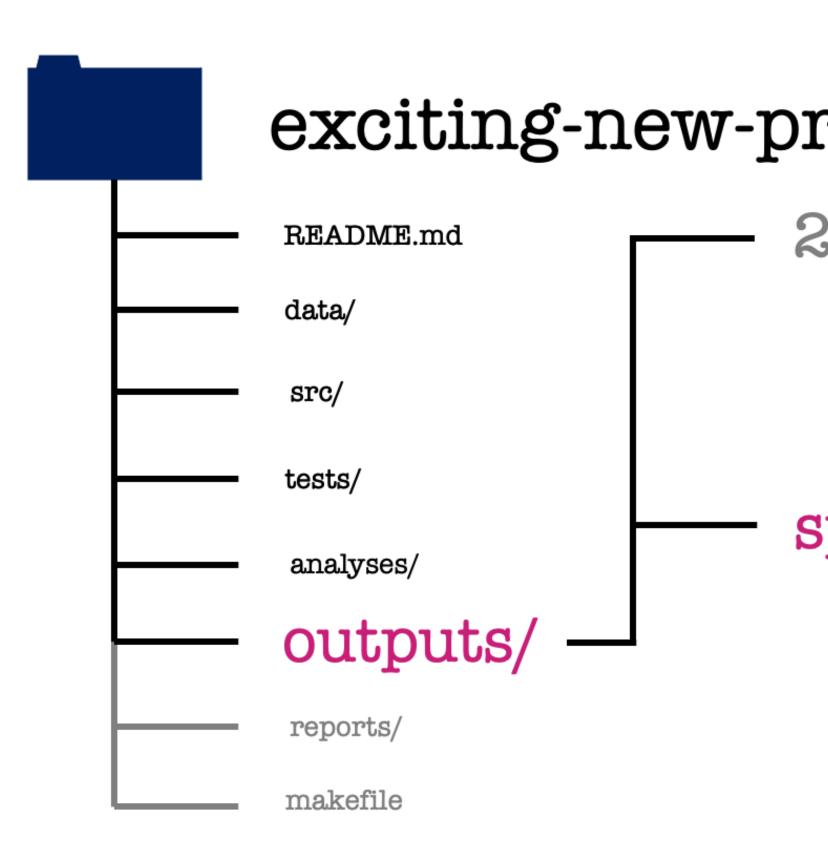




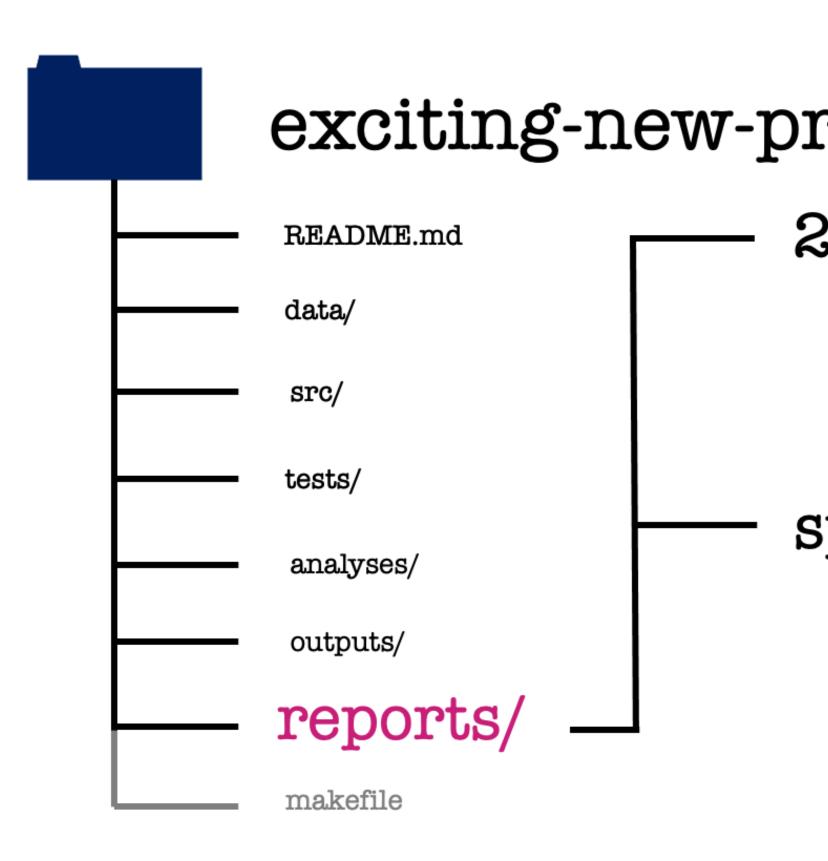


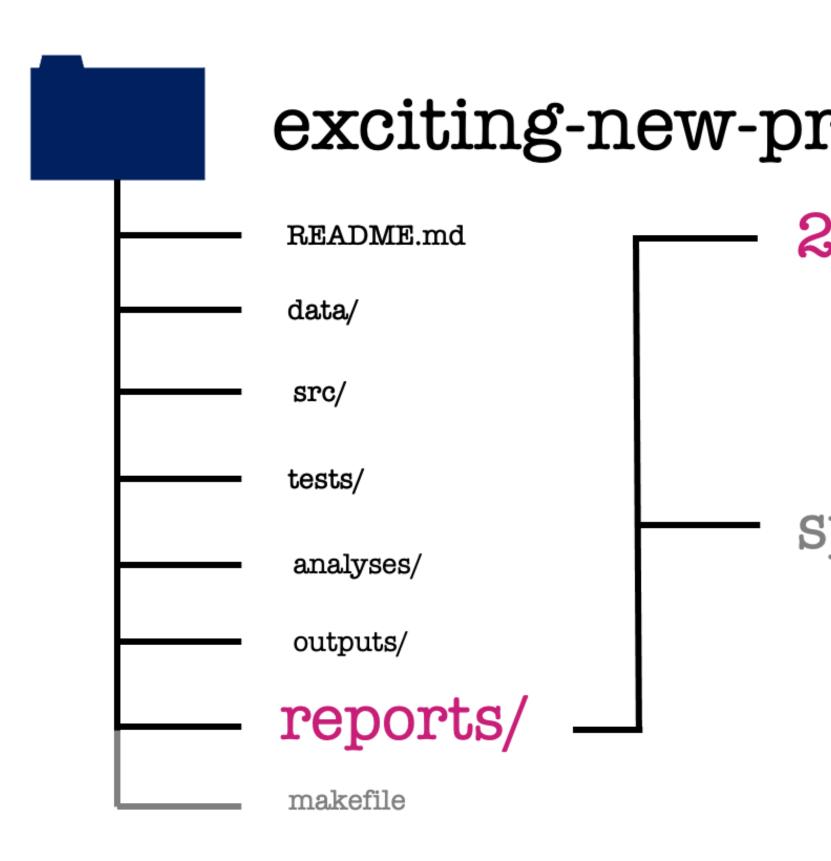


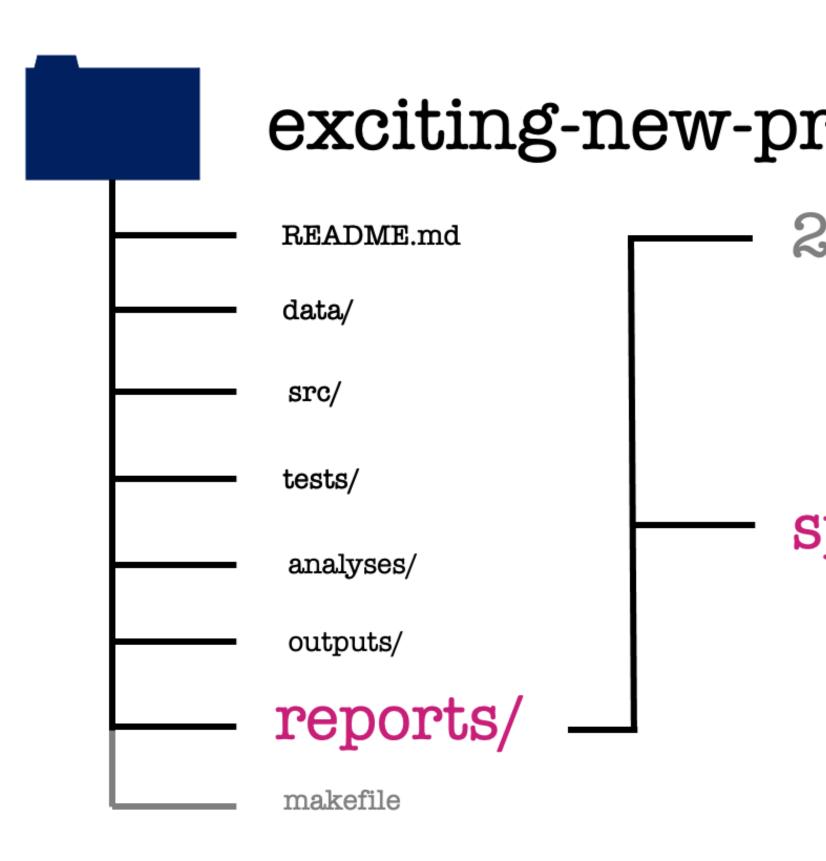


















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• Introduced a standardised project structure;

Good starting point for most data science proj

• Exceptions are apps and packages.

References

Broman, Karl, Mine Cetinkaya-Rundel, Amy Nussbaum, Christophe Wickham. 2017. "Recommendations to Funding Agencies for Statistical Association, 2:1–4.