

How to organise your research projects?

How to organise your research projects? (with a computer!)

BE CONSISTENT!

| | | | |
|---|---|--------------------|-----------|
| ► | 01 | 7 Feb 2016, 00:58 | -- |
| ► | 02 | 7 Jan 2012, 23:50 | -- |
| ► | àfaire.txt | 26 Apr 2011, 19:46 | 445 bytes |
| ► | Bloc Note.rtf | 29 Jan 2011, 07:46 | 745 bytes |
| ► | Clustering_quantitative_variables.pdf | 20 Dec 2011, 01:26 | 19.3 MB |
| ► | Comparaison des méthodes.ods | 24 Feb 2011, 08:28 | 217 KB |
| ► | Data brut | 28 Nov 2012, 21:49 | -- |
| ► | discriminantes.ods | 28 May 2011, 22:10 | 65 KB |
| ► | effet de l'angle.rtf | 13 May 2011, 05:59 | 460 bytes |
| ► | Figures | 2 Jan 2012, 23:42 | -- |
| ► | Guillerme-diapo.pdf | 7 Jun 2011, 02:54 | 5.1 MB |
| ► | Guillerme-diapo2.pdf | 7 Jun 2011, 03:28 | 4.9 MB |
| ► | Guillerme-diapo3.pdf | 9 Jun 2011, 03:43 | 4.9 MB |
| ► | Guillerme-Variabilite_morphologique_du_sud_de_la_France.pdf | 17 Jun 2011, 00:13 | 1.9 MB |
| ► | Images | 6 Apr 2011, 00:21 | -- |
| ► | manovas.ods | 20 May 2011, 02:48 | 11 KB |
| ► | Nouveau Document texte.txt | 14 Mar 2011, 02:36 | 52 bytes |
| ► | Papiers | 18 Dec 2012, 03:32 | -- |
| ► | papiers.rtf | 6 Feb 2011, 07:22 | 519 bytes |
| ► | Phylogenie.pdf | 4 Feb 2011, 03:47 | 53 KB |
| ► | Positions.ods | 20 May 2011, 22:57 | 12 KB |
| ► | Présentation | 7 Jun 2011, 02:37 | -- |
| ► | Problématique.rtf | 15 Feb 2011, 06:19 | 1 KB |
| ► | Rédaction | 20 May 2013, 20:39 | -- |
| ► | Scripts | 13 Jun 2012, 08:48 | -- |
| ► | Speech.rtf | 9 Jun 2011, 08:43 | 8 KB |
| ► | thedinosauria.pdf | 11 May 2010, 20:59 | 30.4 MB |
| ► | tr504.pdf | 21 Dec 2011, 00:43 | 2.9 MB |
| ► | Variables.pdf | 29 Jan 2011, 07:40 | 107 KB |

2011

(in french)

data

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data

figures

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data

figures

presentations (3?)

papers

presentation

code

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data

figures

presentations (3?)

data or figures (bis)?

papers

presentation

code

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| ► | Data brut |
| ► | discriminantes.ods |
| ► | effet de l'angle.rtf |

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| ► | Figures |
| ► | Guillerme-diapo.pdf |
| ► | Guillerme-diapo2.pdf |
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| ► | Nouveau Document texte.txt |
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| ► | papiers.rtf |
| ► | Phylogenie.pdf |
| ► | Positions.ods |
| ► | Présentation |
| ► | Problématique.rtf |

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| ► | Rédaction |
| ► | Scripts |

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| ► | Speech.rtf |
| ► | thedinosauria.pdf |
| ► | tr504.pdf |
| ► | Variables.pdf |

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data

figures

presentations (3?)

data or figures (bis)?

papers

presentation

code

other papers?

Data brut

discriminantes.ods

effet de l'angle.rtf

Figures

Guillerme-diapo.pdf

Guillerme-diapo2.pdf

Guillerme-diapo3.pdf

Guillerme-Variabilité m

Images

manovas.ods

Nouveau Document texte.txt

Papiers

papiers.rtf

Phylogenie.pdf

Positions.ods

Présentation

Problématique.rtf

Rédaction

Scripts

Speech.rtf

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tr504.pdf

Variables.pdf

WTF???

data

figures

presentations (3?)

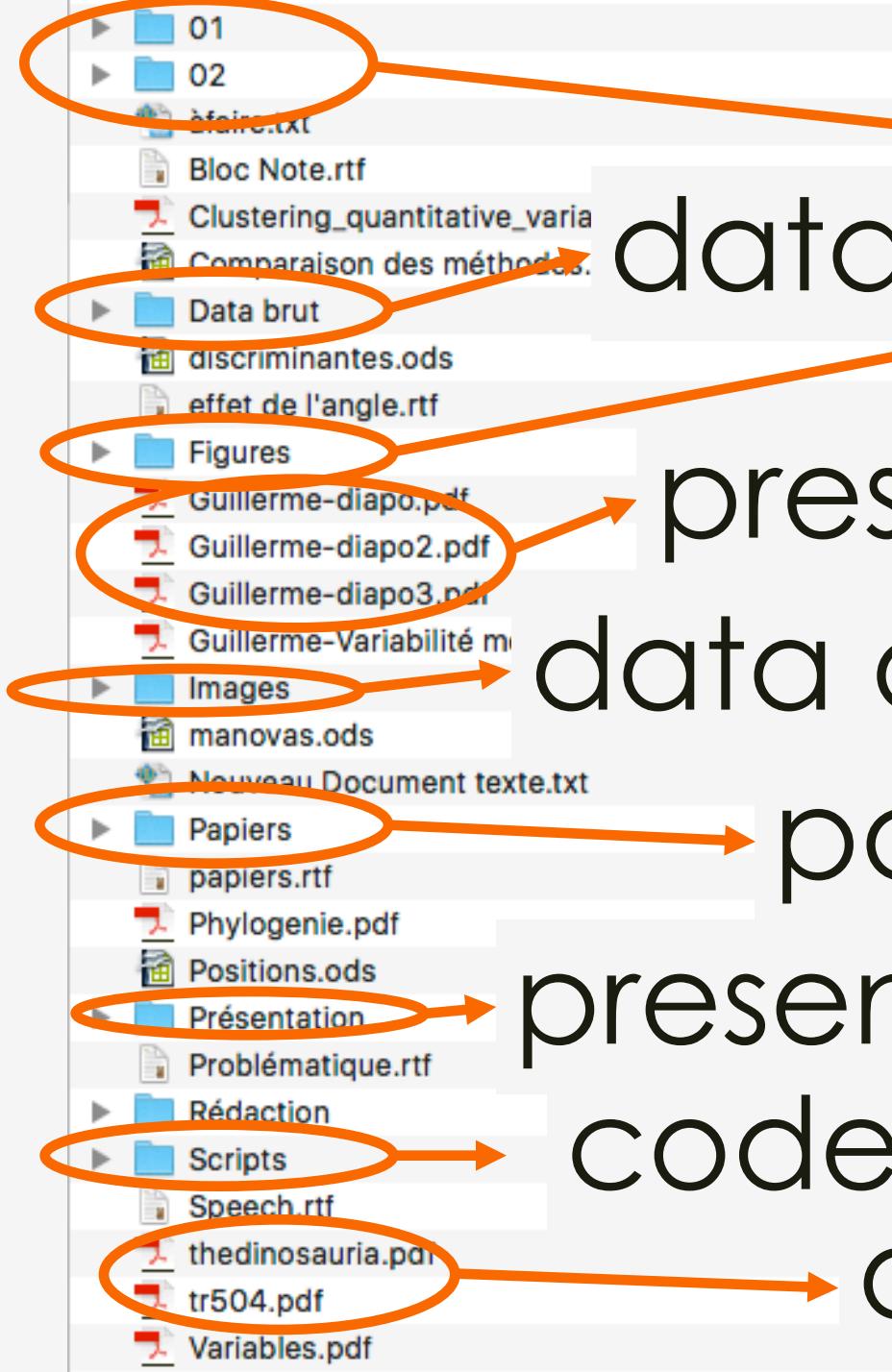
data or figures (bis)?

papers

presentation

code

other papers?



| | | | | |
|---|-----------------|--|--------------------|-----------|
| ▼ | Scripts | | 13 Jun 2012, 08:48 | -- |
| | Datadent.csv | | 8 Apr 2011, 04:10 | 46 KB |
| | dataerreur.csv | | 22 May 2011, 01:52 | 4 KB |
| | datafr.csv | | 18 May 2011, 03:14 | 2 KB |
| | datafrCA.csv | | 13 May 2011, 04:13 | 2 KB |
| | Fourier.R | | 8 Jan 2012, 00:31 | 18 KB |
| | Fourier2.R | | 6 Jan 2012, 09:44 | 3 KB |
| ► | old | | 7 Feb 2016, 01:02 | -- |
| | ScriptACP.R | | 6 Jan 2012, 02:35 | 7 KB |
| | ScriptCluster.R | | 8 Jan 2012, 00:30 | 7 KB |
| | ScriptData.R | | 13 Jun 2012, 08:48 | 3 KB |
| | Scriptscri.R | | 21 May 2011, 00:10 | 16 KB |
| | Scriptdiscrib.R | | 21 Apr 2011, 00:57 | 3 KB |
| | ScriptErreur.R | | 30 May 2011, 00:26 | 2 KB |
| | thomaswdyd3.txt | | 21 Apr 2011, 00:51 | 491 bytes |
| ▼ | tps content | | 21 Feb 2011, 20:23 | -- |
| | M7-1.TPS | | 26 Apr 2011, 17:39 | 1 KB |
| | M7-2.TPS | | 26 Apr 2011, 17:40 | 1 KB |
| | M9-1.TPS | | 21 Mar 2011, 18:12 | 1 KB |
| | M9-2.TPS | | 21 Mar 2011, 18:15 | 2 KB |
| | M11-1.TPS | | 21 Mar 2011, 18:17 | 1 KB |
| | M11-2.TPS | | 21 Mar 2011, 18:24 | 1 KB |
| | M12-1.TPS | | 21 Mar 2011, 18:26 | 1 KB |
| | M12-2.TPS | | 21 Mar 2011, 18:29 | 1 KB |
| | M13-1.TPS | | 21 Mar 2011, 18:32 | 2 KB |
| | M13-2.TPS | | 21 Mar 2011, 18:35 | 2 KB |
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Code?

| ▼ | Scripts | -- |
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| | Datadent.csv | 46 KB |
| | dataerreur.csv | 4 KB |
| | datafr.csv | 2 KB |
| | datafrCA.csv | 2 KB |
| | Fourier.R | 18 KB |
| | Fourier2.R | 3 KB |
| ► | old | -- |
| | ScriptACP.R | 7 KB |
| | ScriptCluster.R | 7 KB |
| | ScriptData.R | 3 KB |
| | ScriptDiscri.R | 16 KB |
| | ScriptDiscrib.R | 3 KB |
| | ScriptErreur.R | 2 KB |
| | thomaswdyd3.txt | 491 bytes |
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| | M7-1.TPS | 1 KB |
| | M7-2.TPS | 1 KB |
| | M9-1.TPS | 1 KB |
| | M9-2.TPS | 2 KB |
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| | M11-2.TPS | 1 KB |
| | M12-1.TPS | 1 KB |
| | M12-2.TPS | 1 KB |
| | M13-1.TPS | 2 KB |
| | M13-2.TPS | 2 KB |
| | M14-1.TPS | 2 KB |
| | M14-2.TPS | 2 KB |

nope. data.

| ▼ | Scripts | -- |
|---|-----------------|-----------|
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| | datafr.csv | 2 KB |
| | datafrCA.csv | 2 KB |
| | Fourier.R | 18 KB |
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| | M12-2.TPS | 1 KB |
| | M13-1.TPS | 2 KB |
| | M13-2.TPS | 2 KB |
| | M14-1.TPS | 2 KB |
| | M14-2.TPS | 2 KB |

nope. data.

nope.
more data.

The screenshot shows a file browser interface with a tree view on the left and a list view on the right.

Left Panel (Tree View):

- Scripts
 - Datadent.csv
 - dataerreur.csv
 - datafr.csv
 - datafrCA.csv
 - Fourier.R
 - Fourier2.R
 - old
 - ScriptACP.R
 - ScriptCluster.R
 - ScriptData.R
 - ScriptDiscri.R
 - ScriptDistrib.R
 - ScriptErreur.R
 - thomaswdyd3.txt
- tps contours
 - M7-1.TPS
 - M7-2.TPS
 - M9-1.TPS
 - M9-2.TPS
 - M11-1.TPS
 - M11-2.TPS
 - M12-1.TPS
 - M12-2.TPS
 - M13-1.TPS
 - M13-2.TPS
 - M14-1.TPS
 - M14-2.TPS

Right Panel (List View):

| Last Modified | File Name | Size |
|--------------------|-----------------|-----------|
| 10 May 2011, 00:17 | | -- |
| 13 May 2011, 04:13 | | 46 KB |
| 8 Jan 2012, 00:31 | | 4 KB |
| 6 Jan 2012, 09:44 | | 2 KB |
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| 28 May 2011, 22:10 | | -- |
| 23 Apr 2011, 00:57 | | 7 KB |
| 30 May 2011, 18:08 | | 7 KB |
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| | M11-1.TPS | 1 KB |
| | M11-2.TPS | 1 KB |
| | M12-1.TPS | 1 KB |
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| | M13-1.TPS | 2 KB |
| | M13-2.TPS | 2 KB |
| | M14-1.TPS | 2 KB |
| | M14-2.TPS | 2 KB |

Annotations:

- An orange circle highlights the "old" folder in the Scripts list, with an arrow pointing to the text "old?".
- An orange circle highlights the entire "tps contours" folder, with an arrow pointing to the text "nope. more data.".
- An orange circle highlights the first two files in the "data" section of the list, with an arrow pointing to the text "nope. data.".

The screenshot shows a file explorer window with a tree view on the left and a list view on the right.

Left pane (Tree View):

- Scripts
 - Datadent.csv
 - dataerreur.csv
 - datafr.csv
 - datafrCA.csv
 - Fourier.R
 - Fourier2.R
 - old
 - ScriptACP.R
 - ScriptCluster.R
 - ScriptData.R
 - ScriptDiscri.R
 - ScriptDistrib.R
 - ScriptErreur.R
 - thomaswdyd3.txt
- tps contours
 - M7-1.TPS
 - M7-2.TPS
 - M9-1.TPS
 - M9-2.TPS
 - M11-1.TPS
 - M11-2.TPS
 - M12-1.TPS
 - M12-2.TPS
 - M13-1.TPS
 - M13-2.TPS
 - M14-1.TPS
 - M14-2.TPS

Right pane (List View):

| File | Last Modified | Size |
|-----------------|--------------------|-----------|
| Datadent.csv | 7 Feb 2016, 01:02 | 46 KB |
| dataerreur.csv | 6 Jan 2012, 02:35 | 4 KB |
| datafr.csv | 8 Jan 2012, 00:30 | 2 KB |
| datafrCA.csv | 13 Jun 2012, 08:48 | -- |
| Fourier.R | 28 May 2011, 22:10 | 13 KB |
| Fourier2.R | 23 Apr 2011, 00:57 | 1 KB |
| old | 30 May 2011, 18:08 | 4 KB |
| ScriptACP.R | 23 Apr 2011, 00:51 | 2 KB |
| ScriptCluster.R | 26 Feb 2016, 20:37 | 491 bytes |
| ScriptData.R | 26 Apr 2011, 17:39 | -- |
| ScriptDiscri.R | 26 Apr 2011, 17:40 | 1 KB |
| ScriptDistrib.R | 21 Mar 2011, 18:12 | 1 KB |
| ScriptErreur.R | 21 Mar 2011, 18:15 | 2 KB |
| thomaswdyd3.txt | 23 Apr 2011, 00:51 | 1 KB |
| M7-1.TPS | 26 Feb 2016, 20:37 | 1 KB |
| M7-2.TPS | 26 Apr 2011, 17:39 | 1 KB |
| M9-1.TPS | 26 Apr 2011, 17:40 | 1 KB |
| M9-2.TPS | 21 Mar 2011, 18:12 | 1 KB |
| M11-1.TPS | 21 Mar 2011, 18:15 | 2 KB |
| M11-2.TPS | -- | 1 KB |
| M12-1.TPS | -- | 1 KB |
| M12-2.TPS | -- | 1 KB |
| M13-1.TPS | -- | 2 KB |
| M13-2.TPS | -- | 2 KB |
| M14-1.TPS | -- | 2 KB |
| M14-2.TPS | -- | 2 KB |

Annotations:

- An orange circle highlights the 'old' folder in the Scripts list, with an arrow pointing to the text "nope. data.".
- An orange circle highlights the 'old' file in the Scripts list, with an arrow pointing to the text "old? nope. 2016".
- An orange circle highlights the entire 'tps contours' folder, with an arrow pointing to the text "nope. more data.".

| Scripts | | -- |
|-----------------|--------------------|-----------|
| Datadent.csv | 46 KB | |
| dataerreur.csv | 4 KB | |
| datafr.csv | 2 KB | |
| datafrCA.csv | | |
| Fourier.R | 13 | |
| Fourier2.R | 1 | 18 KB |
| old | 4 | 3 KB |
| ScriptACP.R | | -- |
| ScriptCluster.R | | |
| ScriptData.R | | |
| ScriptDiscri.R | | |
| ScriptDistrib.R | | |
| ScriptErreur.R | | |
| thomaswdyd3.txt | 30 May 2011, 18:08 | 2 KB |
| tpc contours | 23 Apr 2011, 00:51 | 491 bytes |
| M7-1.TPS | 26 Feb 2016, 20:37 | -- |
| M7-2.TPS | 26 Apr 2011, 17:39 | 1 KB |
| M9-1.TPS | 26 Apr 2011, 17:40 | 1 KB |
| M9-2.TPS | 21 Mar 2011, 18:12 | 1 KB |
| M11-1.TPS | 21 Mar 2011, 18:15 | 2 KB |
| M11-2.TPS | | 1 KB |
| M12-1.TPS | | 1 KB |
| M12-2.TPS | | 1 KB |
| M13-1.TPS | | 2 KB |
| M13-2.TPS | | 2 KB |
| M14-1.TPS | | 2 KB |
| M14-2.TPS | | 2 KB |

nope. data.
old? nope.

thomaswdyd3.txt

nope.
more data.

| Scripts | Datadent.csv | 46 KB |
|---------|-----------------|-------|
| | dataerreur.csv | 4 KB |
| | datafr.csv | 2 KB |
| | datafrCA.csv | 2 KB |
| | Fourier.R | 13 |
| | Fourier2.R | 1 |
| ▶ | old | 18 KB |
| | ScriptACP.R | 3 KB |
| | ScriptCluster.R | -- |
| | ScriptData.R | 7 KB |
| | ScriptDiscri.R | -- |
| | ScriptDistrib.R | 7 KB |
| | ScriptErreur.R | -- |
| | thomaswdyd3.txt | 2 KB |
| ▼ | tps contours | -- |
| | M7-1.TPS | 1 KB |
| | M7-2.TPS | 1 KB |
| | M9-1.TPS | 1 KB |
| | M9-2.TPS | 2 KB |
| | M11-1.TPS | 1 KB |
| | M11-2.TPS | 1 KB |
| | M12-1.TPS | 1 KB |
| | M12-2.TPS | 1 KB |
| | M13-1.TPS | 2 KB |
| | M13-2.TPS | 2 KB |
| | M14-1.TPS | 2 KB |
| | M14-2.TPS | 2 KB |

nope. data.
old? nope.

thomaswdyd3.txt
...seriously? Why not
sdsfdsfsdfsdfs.txt

nope.
more data.

BE CONSISTENT!

(seriously)

Past Thomas: but I **know** what's in
the folders. This is a lot of hassle!

Past Thomas: but I **know** what's in
the folders. This is a lot of hassle!

Future Thomas:
1 – not a hassle if you start (lazy)

Past Thomas: but I **know** what's in the folders. This is a lot of hassle!

Future Thomas:

- 1 – not a hassle if you start (lazy)
- 2- you won't know what's in there in five years (believe me!)

Past Thomas: but I **know** what's in the folders. This is a lot of hassle!

Future Thomas:

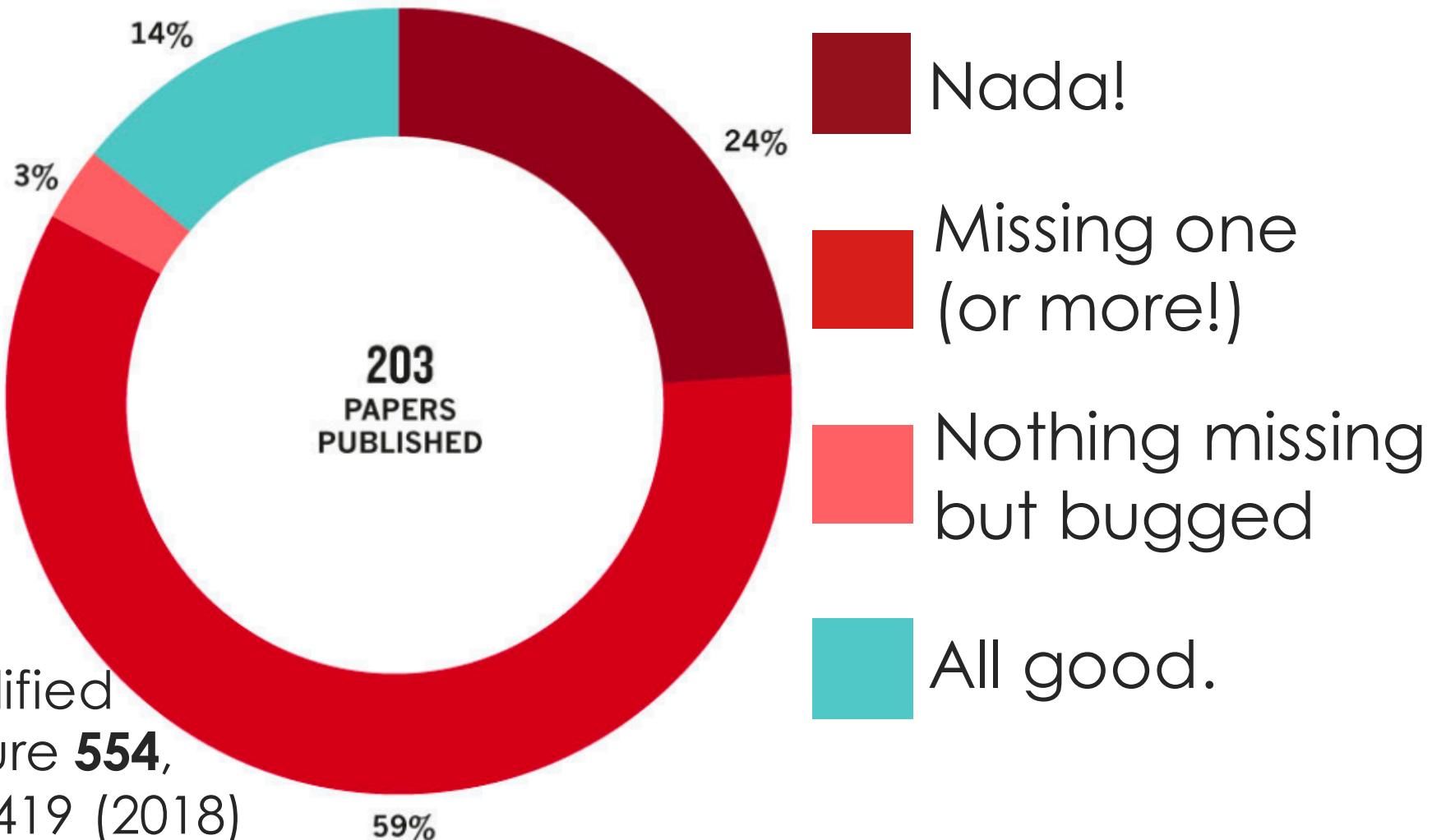
- 1 – not a hassle if you start (lazy)
- 2- you won't know what's in there in five years (believe me!)

Science: **REPEATABLE AND
REPRODUCIBLE WORK!**

Elements checked:
raw data; raw code; estimation
data; estimation code

Modified
Nature **554**,
417-419 (2018)

Elements checked: raw data; raw code; estimation data; estimation code



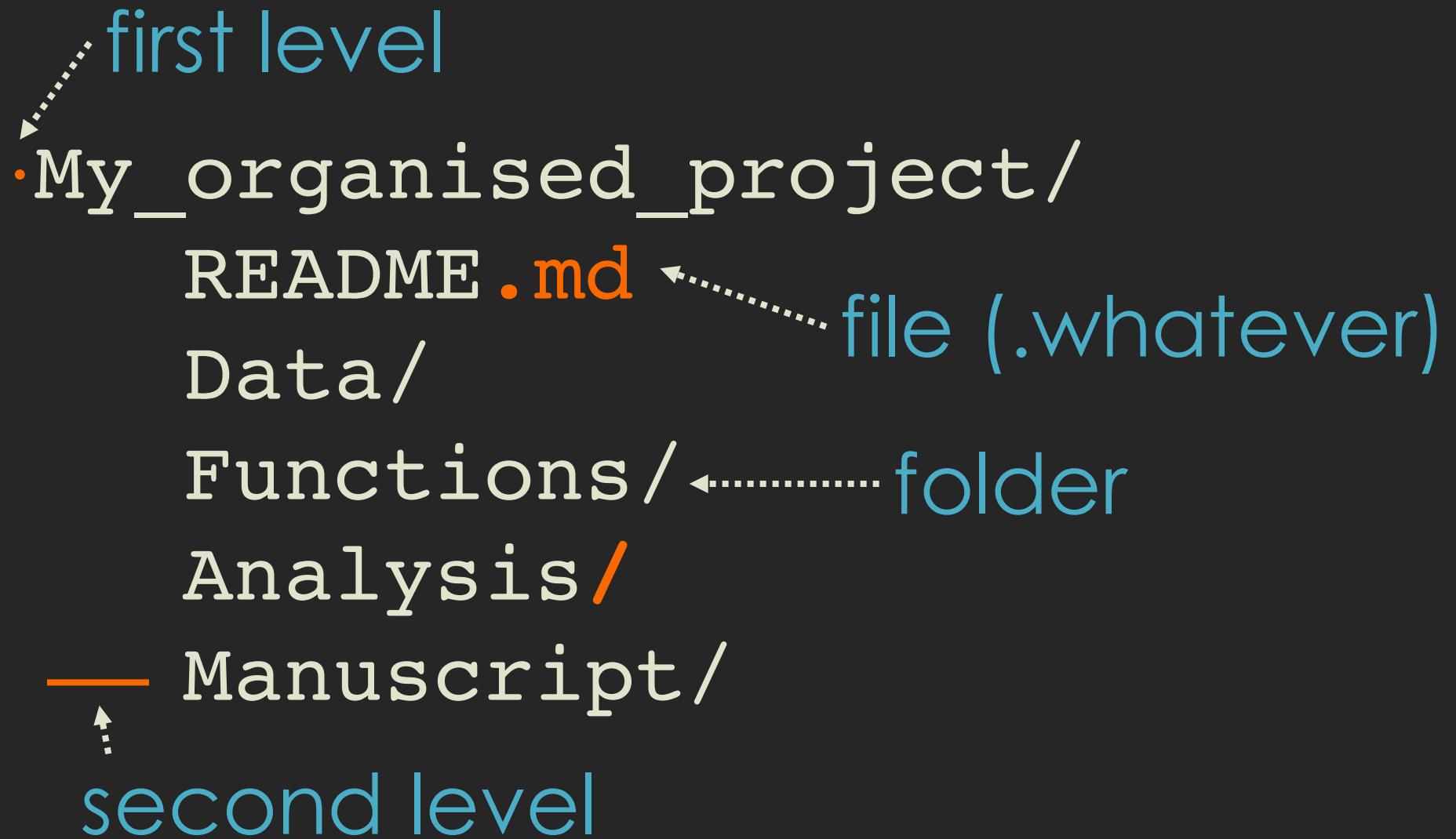
Organising *your* research
projects is essential for the
SCIENTIFIC ENDEAVOUR
(not only for yourself)

How to ~~organise~~ your
~~research projects?~~
simplify your life and
make good science?

1 - Project

My_organised_project/
 README.md
Data/
Functions/
Analysis/
Manuscript/

My_organised_project/
 README .md ← file
 Data/
 Functions/ ← folder
 Analysis/
 Manuscript/



1 - Project

My_organised_project/
README.md - what's it about?

Data/
Functions/
Analysis/
Manuscript/

1 - Project

My_organised_project/
README.md - what's it about?
Data/ - *only* data!
Functions/
Analysis/
Manuscript/

1 - Project

My_organised_project/
README.md - what's it about?
Data/ - *only* data!
Functions/ - *only* code (bugs)!
Analysis/
Manuscript/

1 - Project

My_organised_project/
README.md - what's it about?
Data/ - *only* data!
Functions/ - *only* code (bugs)!
Analysis/ - *only* science!
Manuscript/

1 - Project

My_organised_project/
README.md - what's it about?
Data/ - *only* data!
Functions/ - *only* code (bugs)!
Analysis/ - *only* science!
Manuscript/- hopefully...

2 - Data

Data/

Raw/

Processed/

Results/

2 - Data

Data /

Raw / -> Collected once,
never to be changed!

Processed /

Results /

2 - Data

Data /

Raw / -> Collected once,
never to be changed!

Processed / -> The data that
I will analyse

Results /

2 - Data

Data /

Raw / -> Collected once,
never to be changed!

Processed / -> The data that
I will analyse

Results / -> The data used for
figures and tables

3 - Functions

Functions /

fun_plotting_figures.R

fun_utilities.py

why-not-packaging /

R /

man /

DESCRIPTION

NAMESPACE

4 - Analysis

Analysis/

01-preparing_data.sh

02-doing_smthing_scency.R

03-doing_another_one.R

04-some_stats_maybe.Rmd

05-making_the_tables.R

06-making_the_figures.R

4 - Analysis

Analysis/

01-preparing_data.sh

02-doing_smthing_sciencty.R

03-doing_another_one.R

04-some_stats_maybe.Rmd

05-making_the_tables.R

06-making_the_figures.R

4 - Analysis

Analysis/

01-preparing_data.sh

02-doing_smthing_scency.R

03-doing_another_one.R

04-some_stats_maybe.Rmd

05-making_the_tables.R

06-making_the_figures.R

5 - Manuscript

Manuscript/

Figures/

Tables/

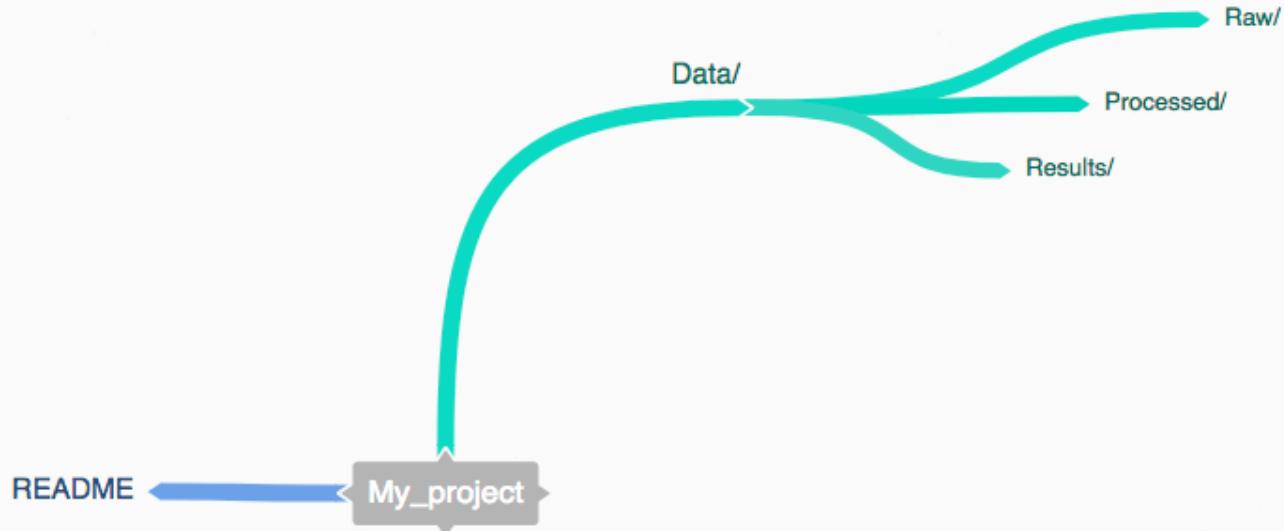
01-manuscript.tex

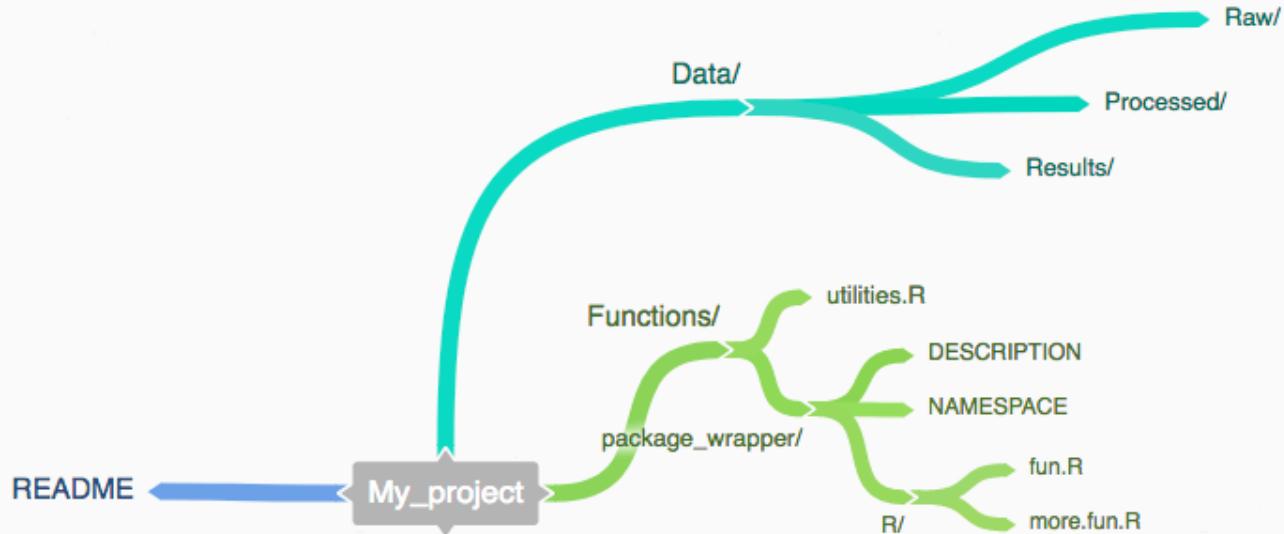
02-appendix_1.docx

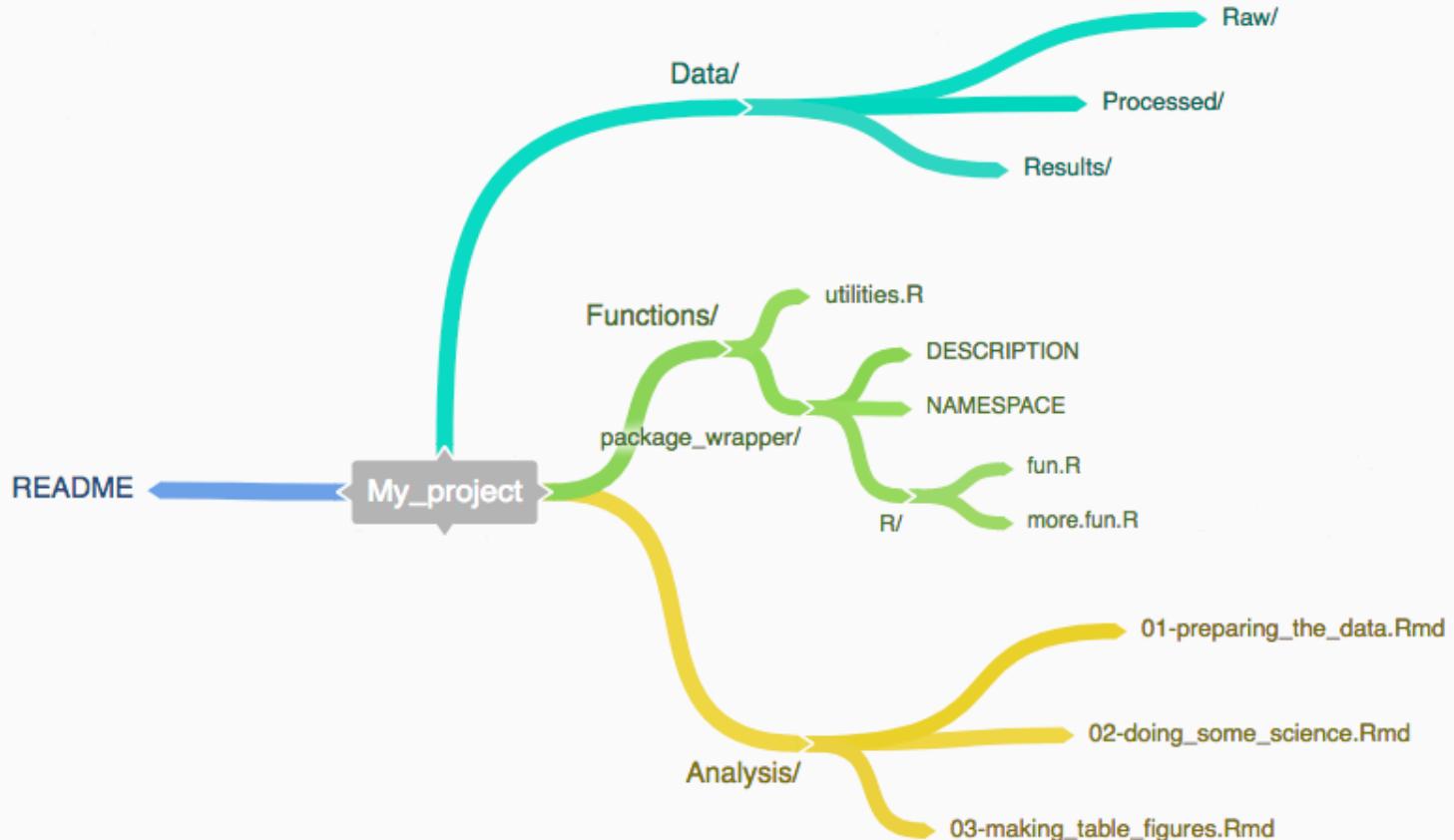
PeerJ_submission/

Nature_submission/







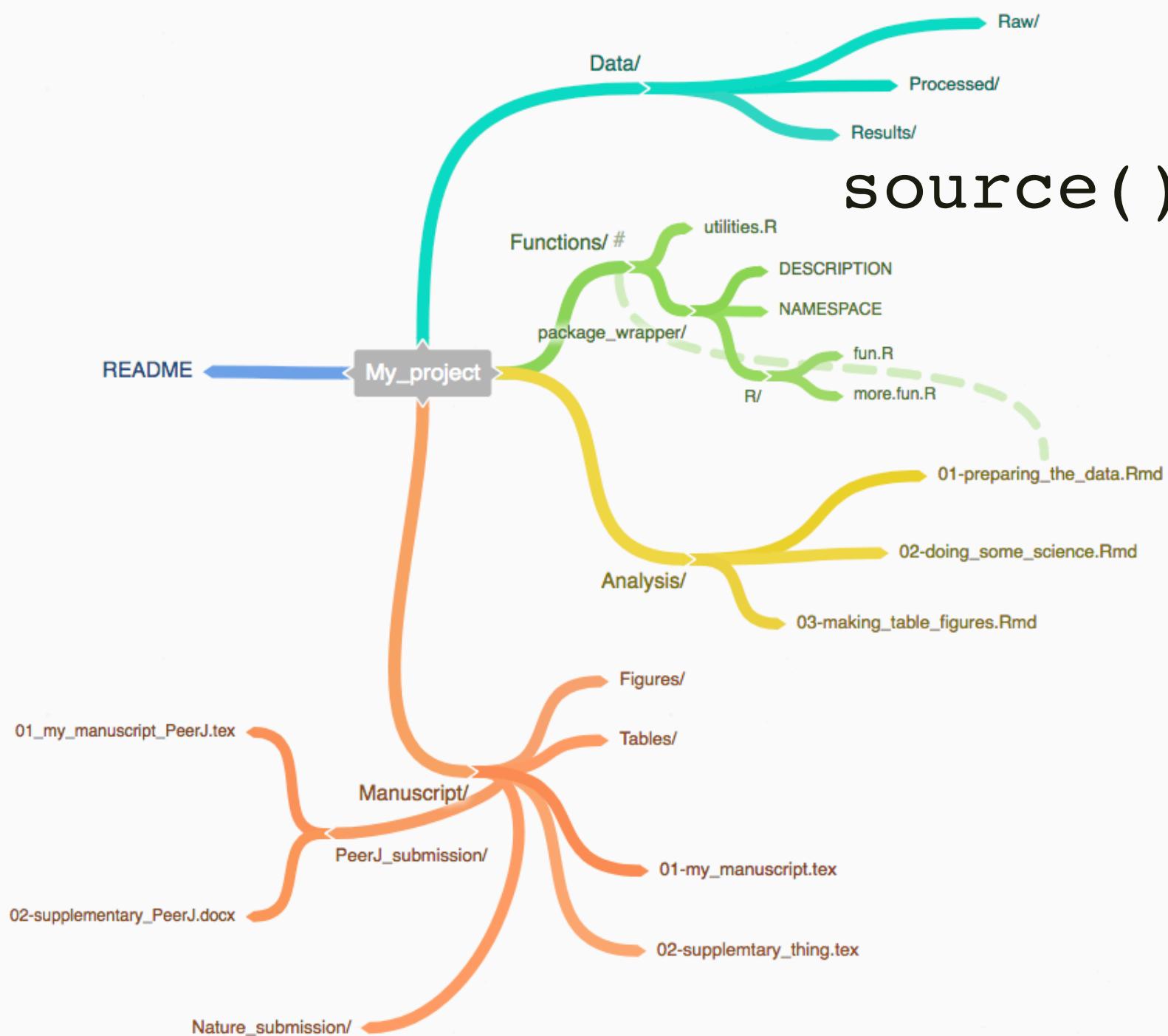


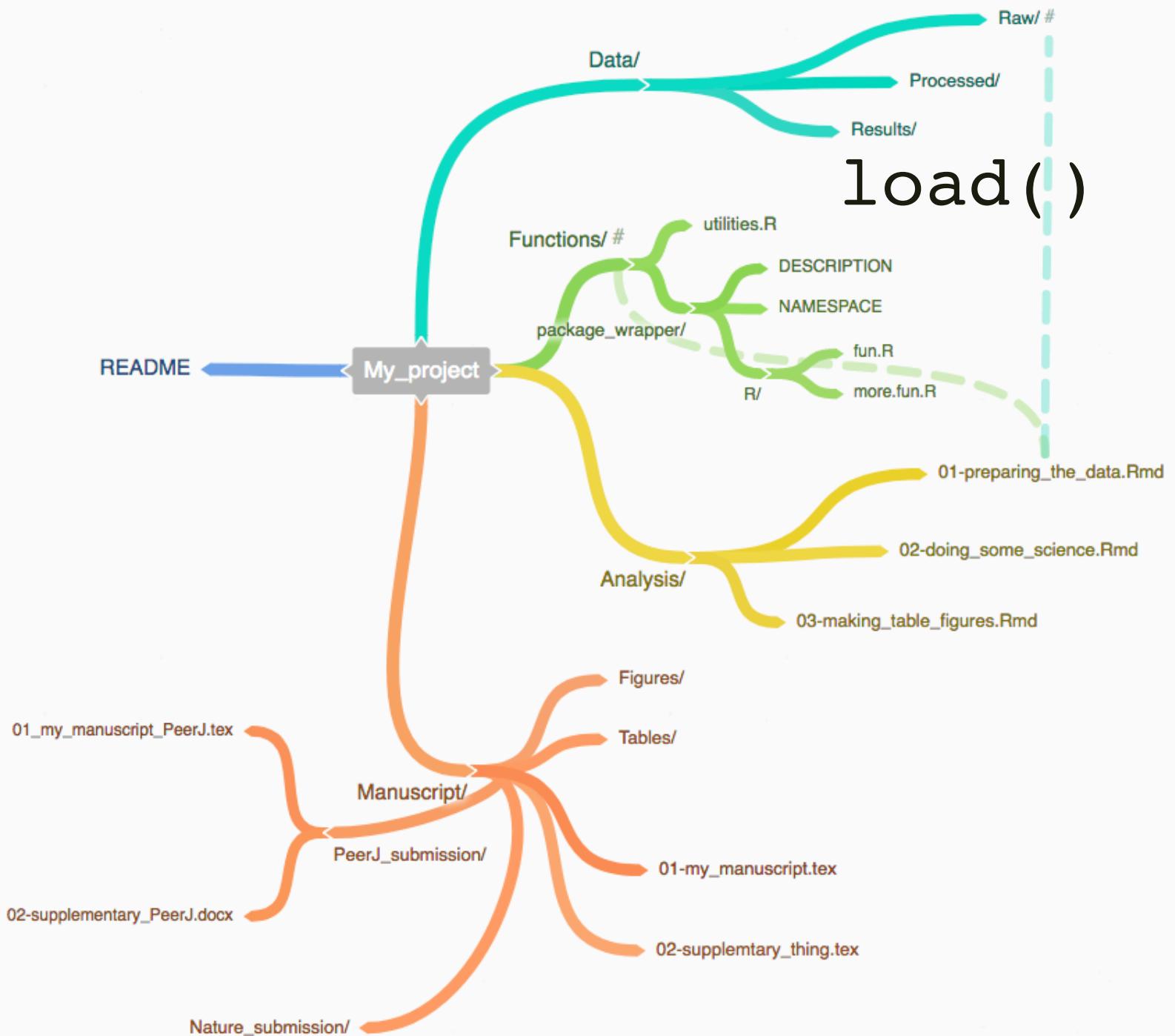


Science!



source()





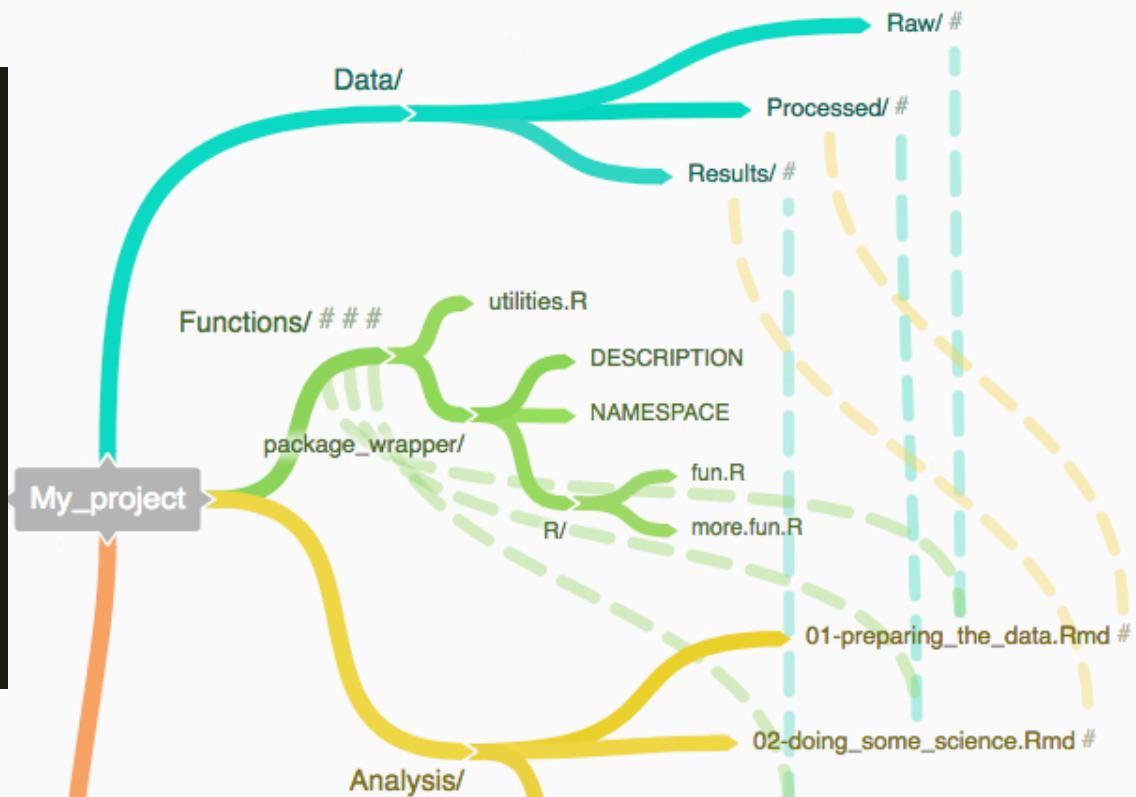






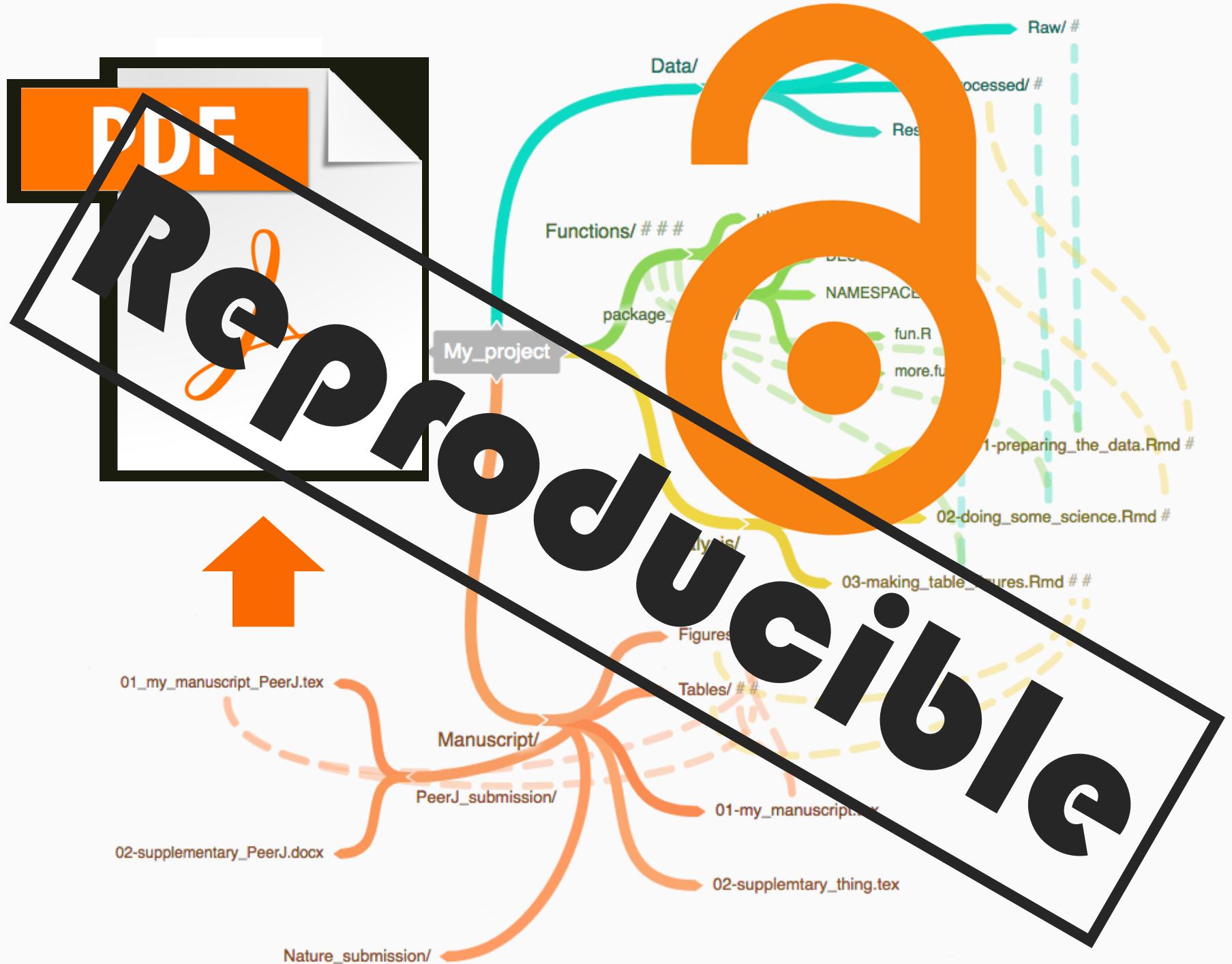


PDF



PDF





6 - Other stuff

(This is typically bad organisation!)

Write data for machines:

- No commented rainbow Excel file!

Write code for humans:

- No dense code blocks with no comments

Use a naming standard:

- I use **Folder files 00-analysis**

Use executable scripts:

- And test it to be sure it works

Share the folder once published:

- Use repositories like ZENODO to get credits through citable DOIs!

github.com/
TGuillermoTeaching/
OrganiseProjects