

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)

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presentations (3?)

papers

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data

figures

presentations (3?)

data or figures (bis)?

►	Data brut
►	discriminantes.ods
►	effet de l'angle.rtf
►	Figures
►	Guillerme-diapo.pdf

papers

presentation

code

►	Nouveau Document texte.txt
►	Papiers

►	papiers.rtf
►	Phylogenie.pdf
►	Positions.ods
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►	Problématique.rtf

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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
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►	Speech.rtf

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WTF???

data

figures

presentations (3?)

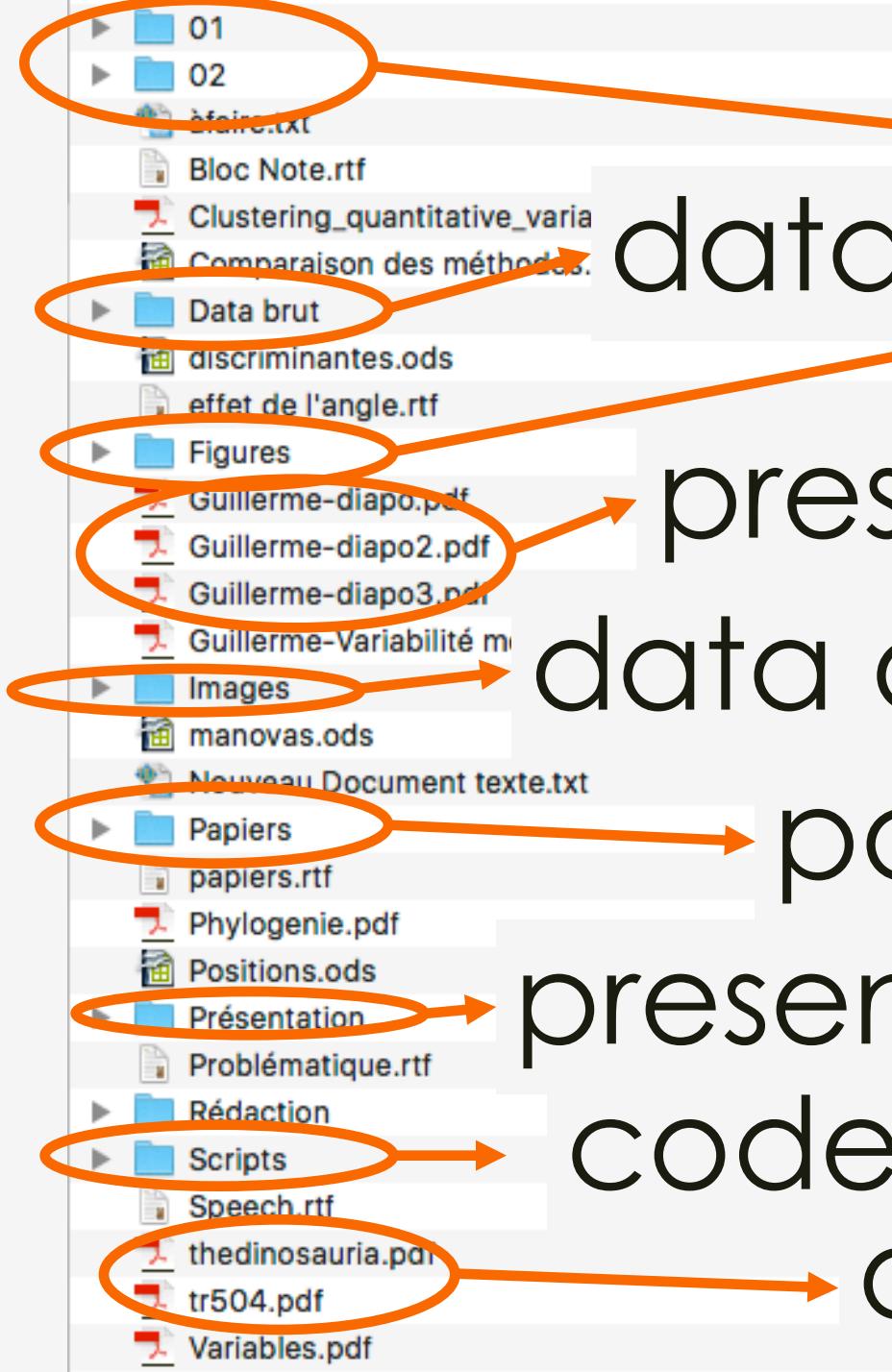
data or figures (bis)?

papers

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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
	M14-1.TPS		21 Mar 2011, 18:39	2 KB
	M14-2.TPS		21 Mar 2011, 18:43	2 KB

Code?

▼	Scripts	--
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	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
▼	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.

Scripts		--
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	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
	ScriptDistrib.R	3 KB
	ScriptErreur.R	2 KB
	thomaswdyd3.txt	491 bytes
▼	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.

nope.
more data.

A screenshot of a file explorer window showing a list of files and folders. The top-level folder is 'Scripts'. Inside 'Scripts' are several files: 'Datadent.csv', 'dataerreur.csv', 'datafr.csv', 'datafrCA.csv', 'Fourier.R', 'Fourier2.R', and a folder named 'old'. Below 'old' are files: 'ScriptACP.R', 'ScriptCluster.R', 'ScriptData.R', 'ScriptDiscri.R', 'ScriptDistrib.R', 'ScriptErreur.R', and 'thomaswdyd3.txt'. A folder named 'tps contours' contains files: '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', and 'M14-2.TPS'. Orange arrows point from three specific items to text annotations: one arrow points from the 'old?' annotation to the 'old' folder; another points from the 'nope. data.' annotation to the 'dataerreur.csv' file; and a third points from the 'nope. more data.' annotation to the 'tps contours' folder.

	nope. data.	46 KB
		4 KB
		2 KB
		2 KB
		18 KB
		3 KB
	old?	--
	nope.	
	more 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
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thomaswdyd3.txt	23 Apr 2011, 00:51	1 KB
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M13-1.TPS	26 Apr 2011, 17:40	1 KB
M13-2.TPS	21 Mar 2011, 18:12	2 KB
M14-1.TPS	21 Mar 2011, 18:15	2 KB
M14-2.TPS	23 Apr 2011, 00:51	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 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		--
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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		
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M9-1.TPS	26 Apr 2011, 17:39	1 KB
M9-2.TPS	26 Apr 2011, 17:40	1 KB
M11-1.TPS	21 Mar 2011, 18:12	1 KB
M11-2.TPS	21 Mar 2011, 18:15	2 KB
M12-1.TPS		1 KB
M12-2.TPS		1 KB
M13-1.TPS		1 KB
M13-2.TPS		2 KB
M14-1.TPS		2 KB
M14-2.TPS		2 KB
	21 Mar 2011, 18:43	

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:

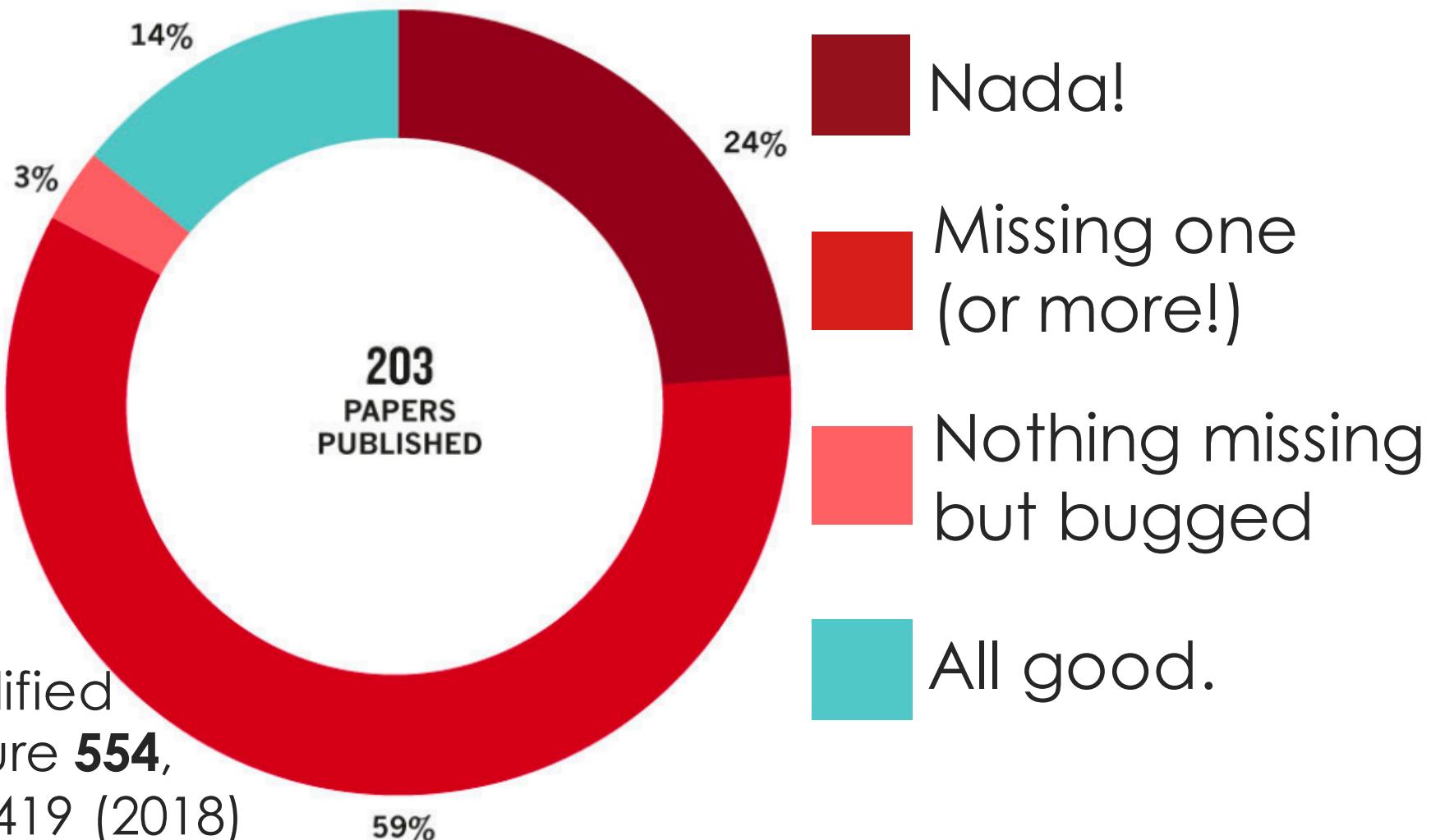
- 1 – not a hassle if you start (lazy)
- 2- you won't know what's in there in five years (believe me!)

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



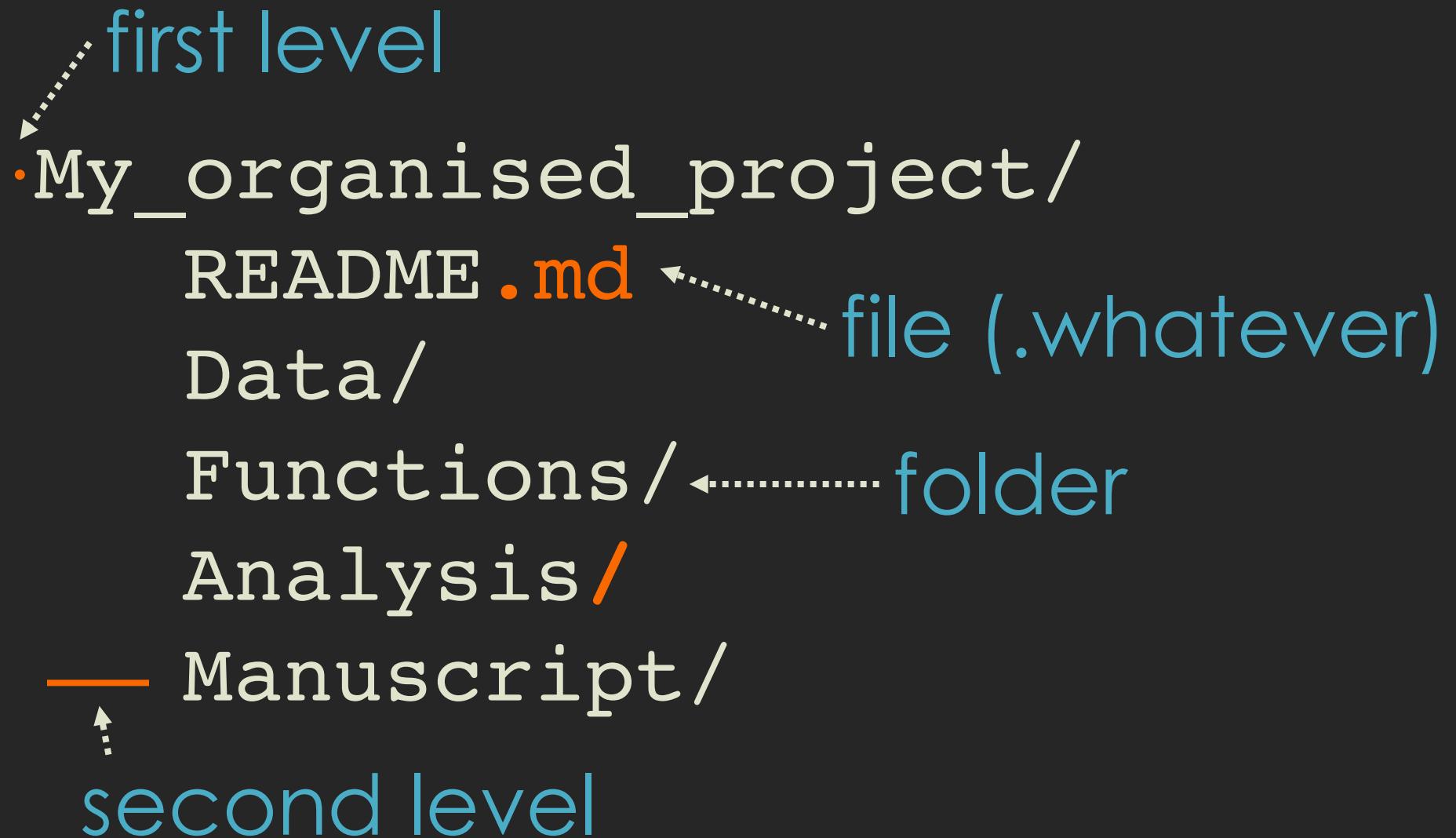
Organising *your* research
projects is essential for the
SCIENTIFIC ENDEAVOUR
(not only for yourself)

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/

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My_organised_project/
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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/

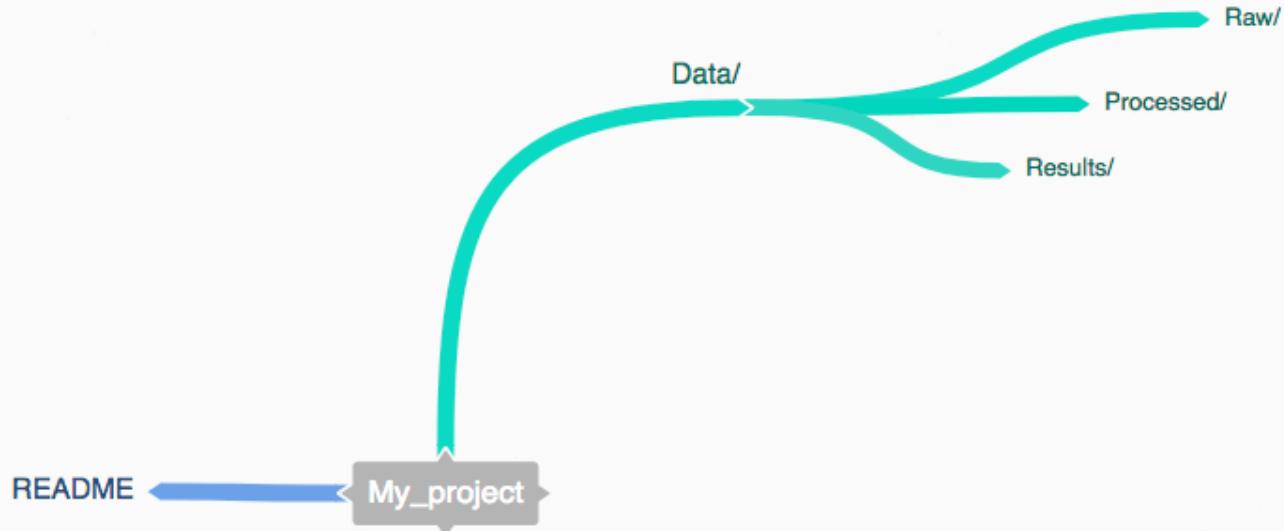
01-manuscript.tex

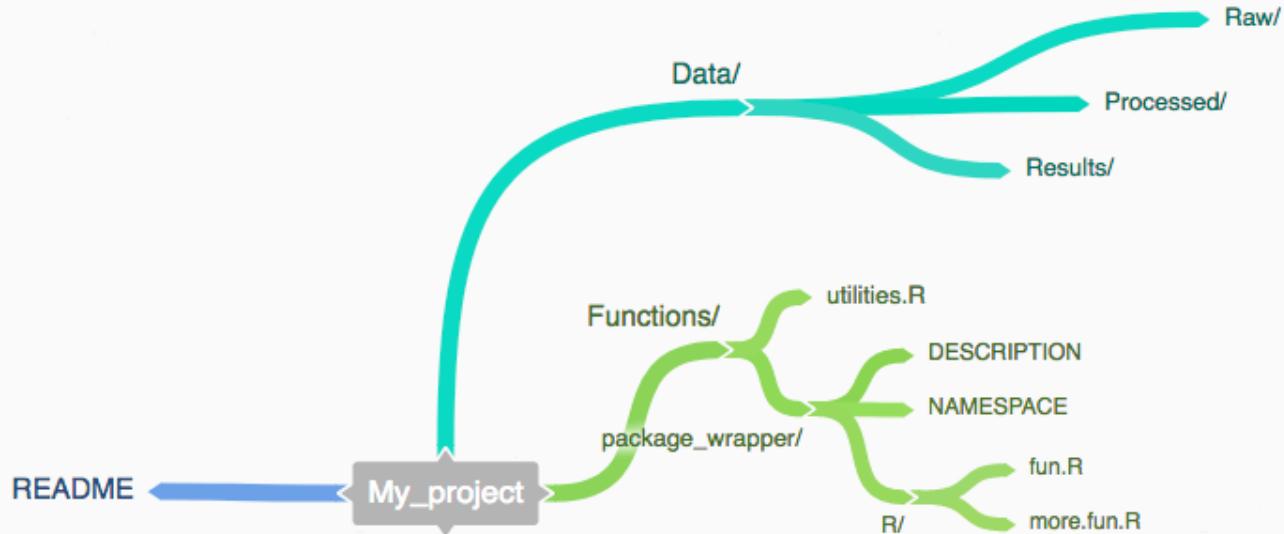
02-appendix_1.docx

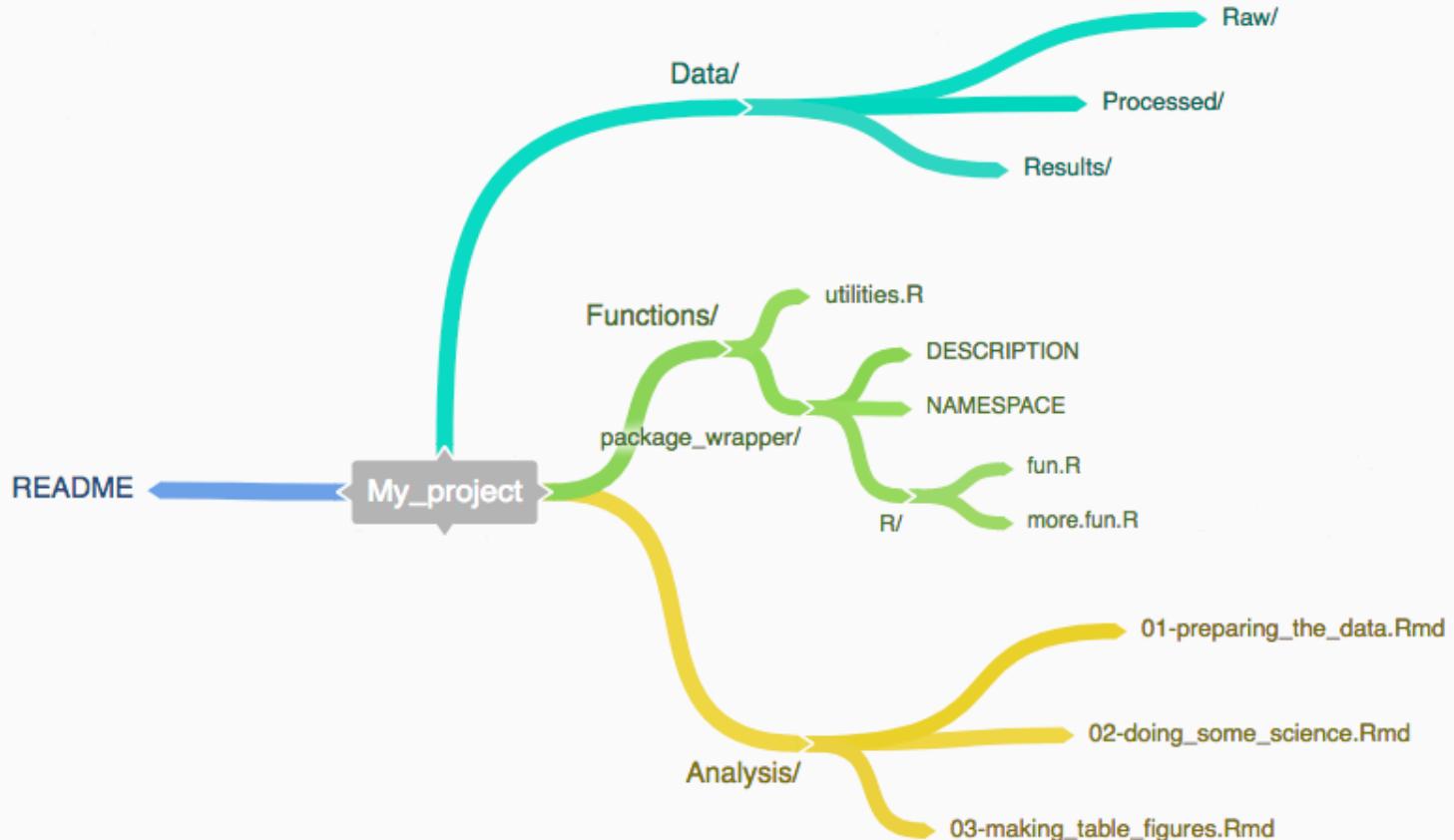
PeerJ_submission/

Nature_submission/







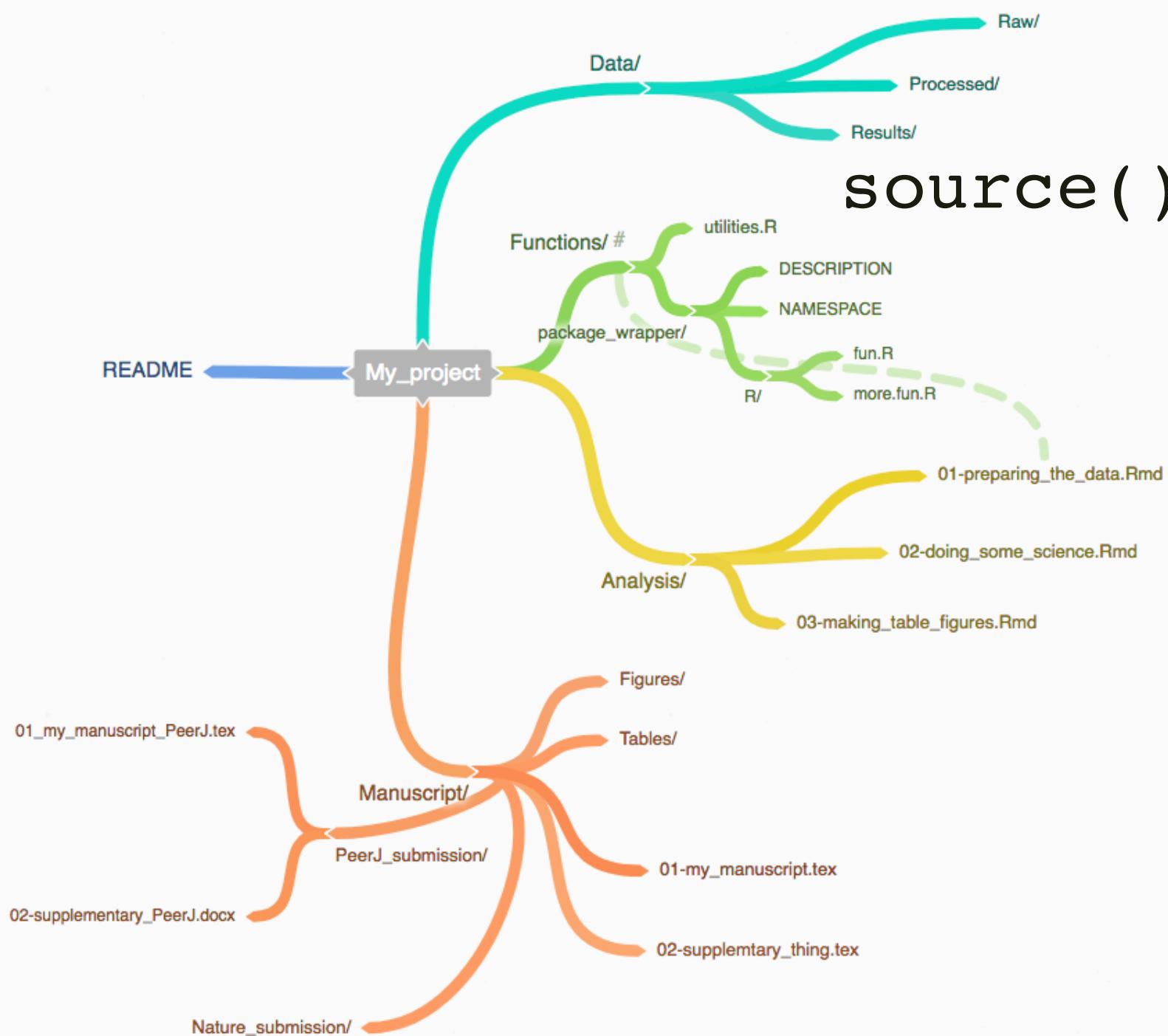


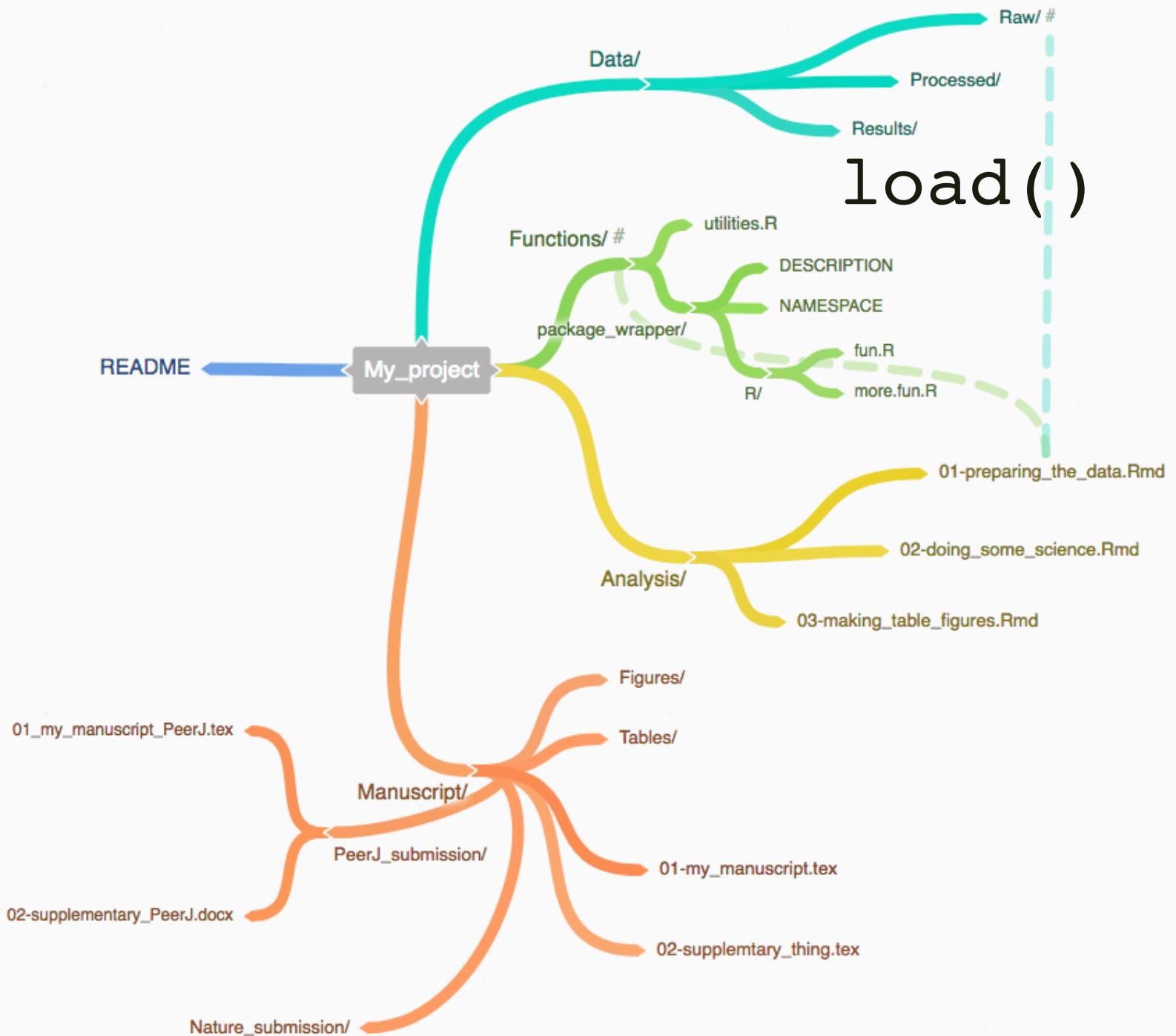


Science!



source()





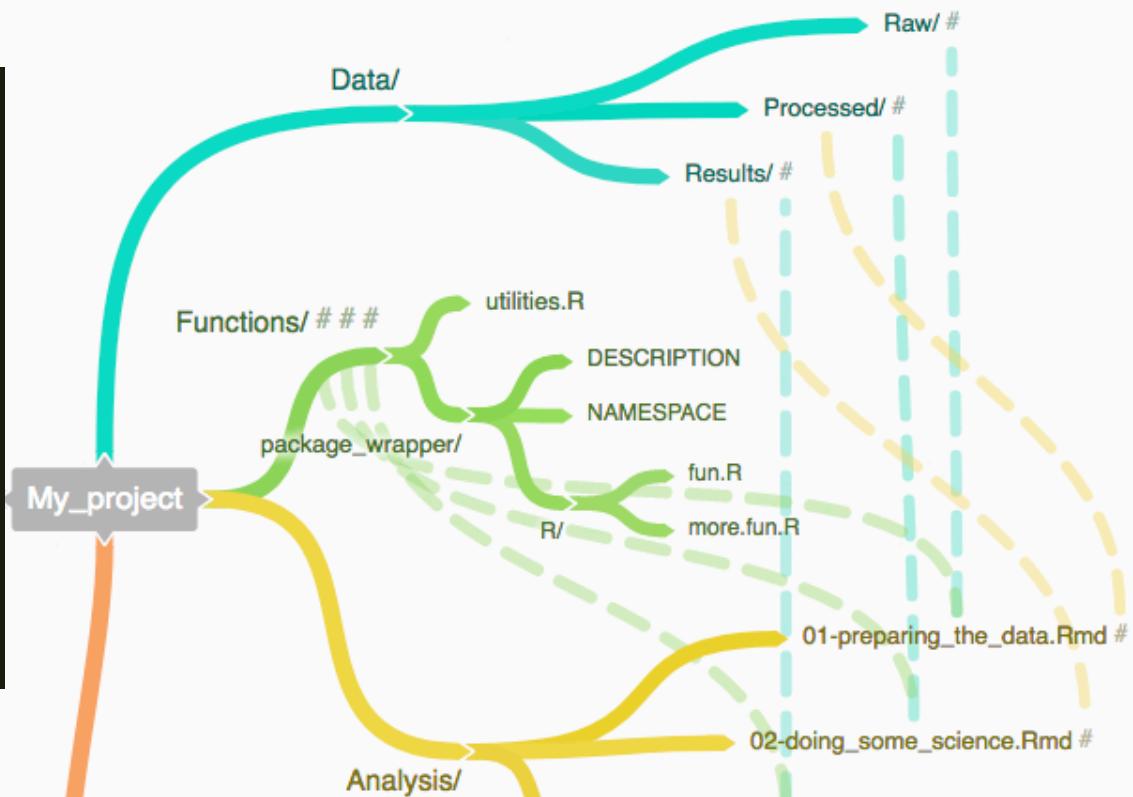




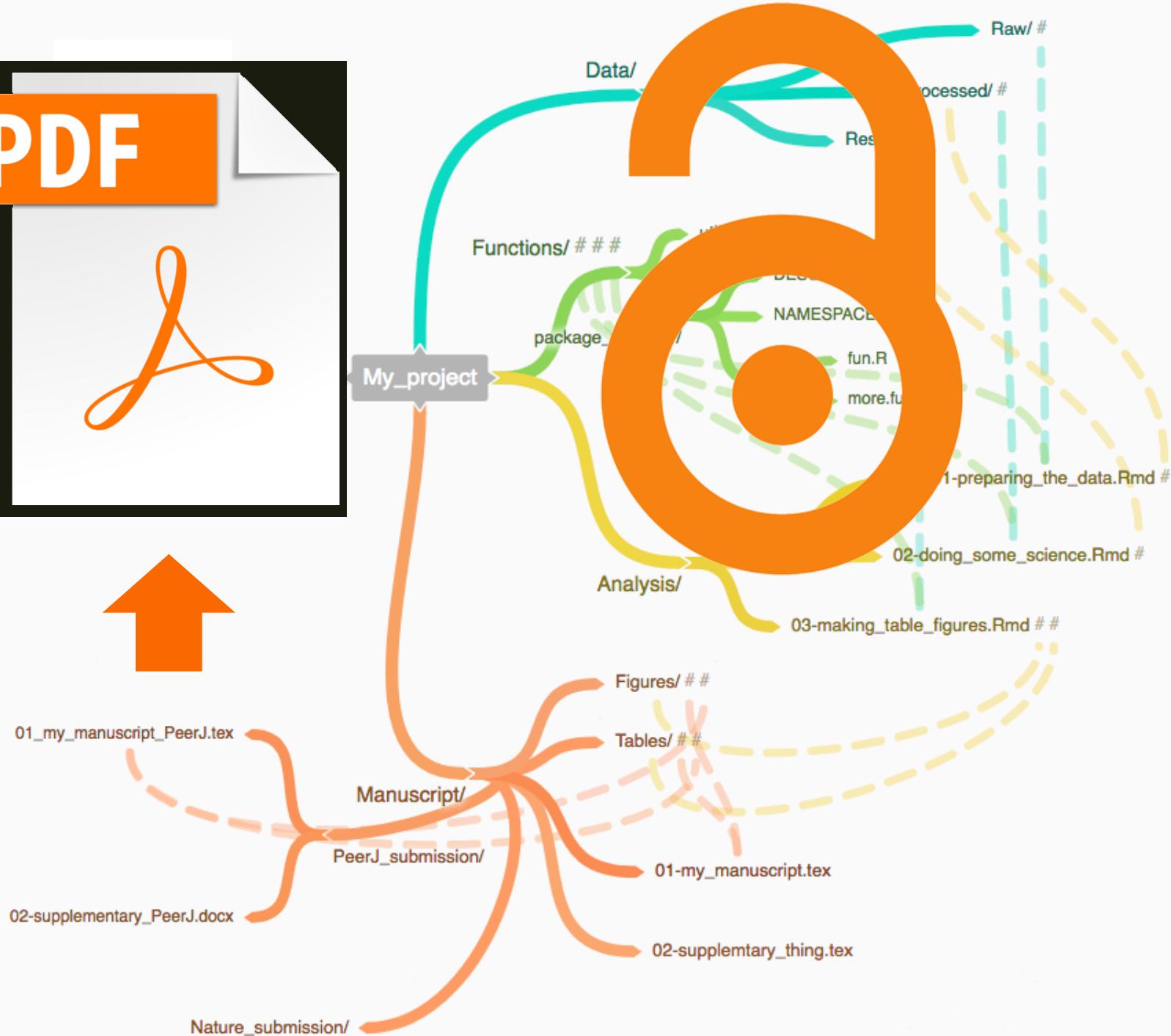


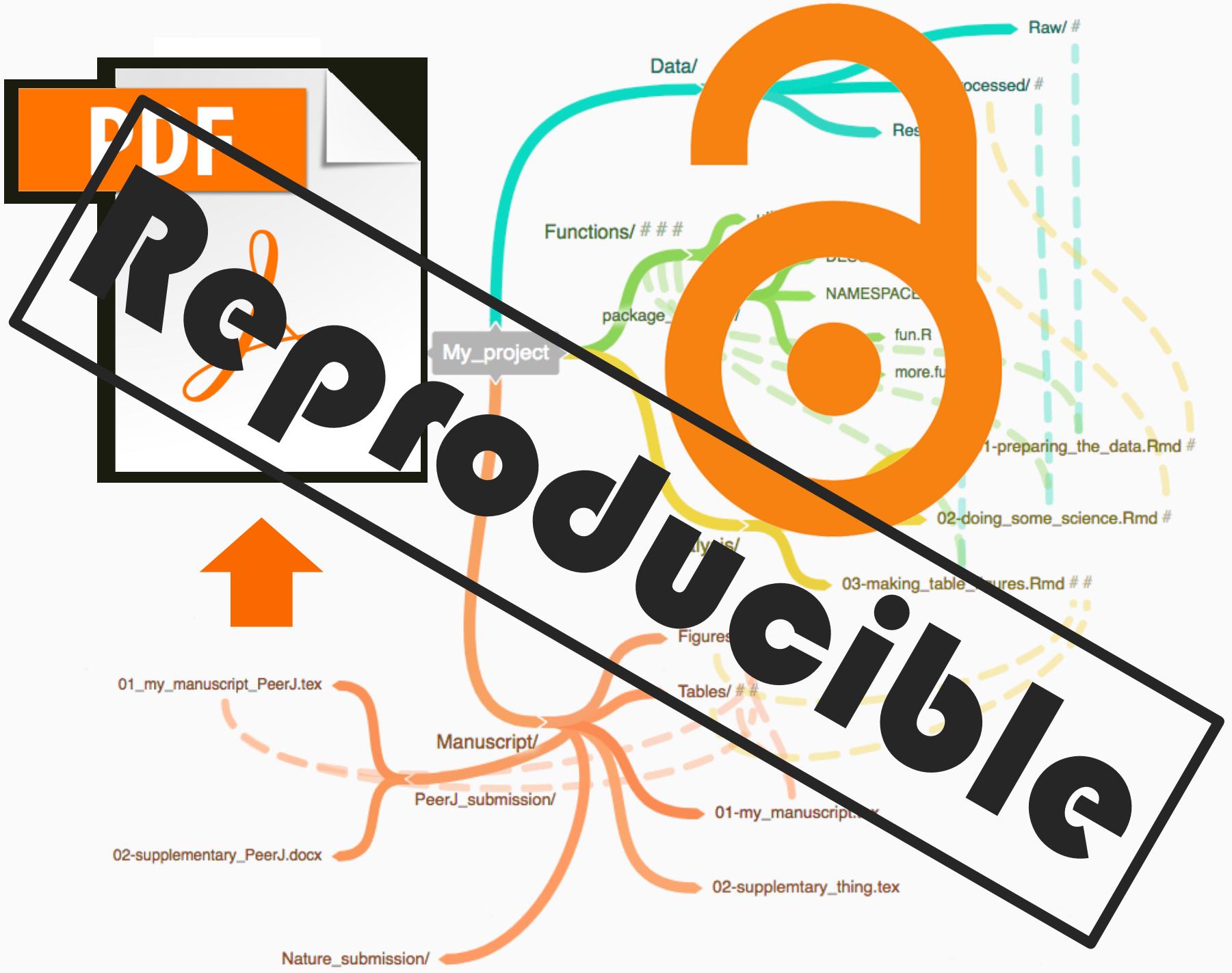


PDF



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!