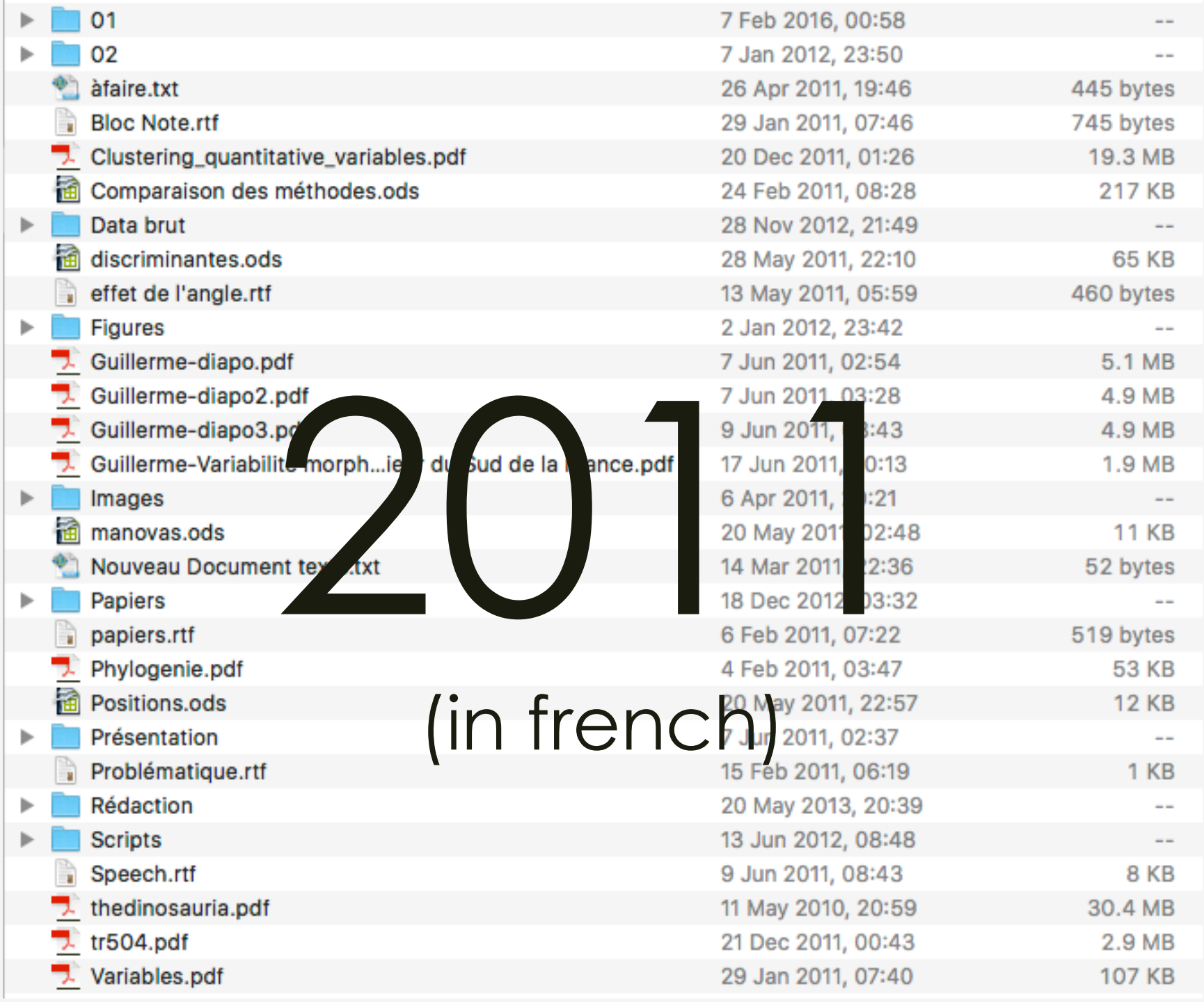
How to organise your research projects?

How to organise your research projects?

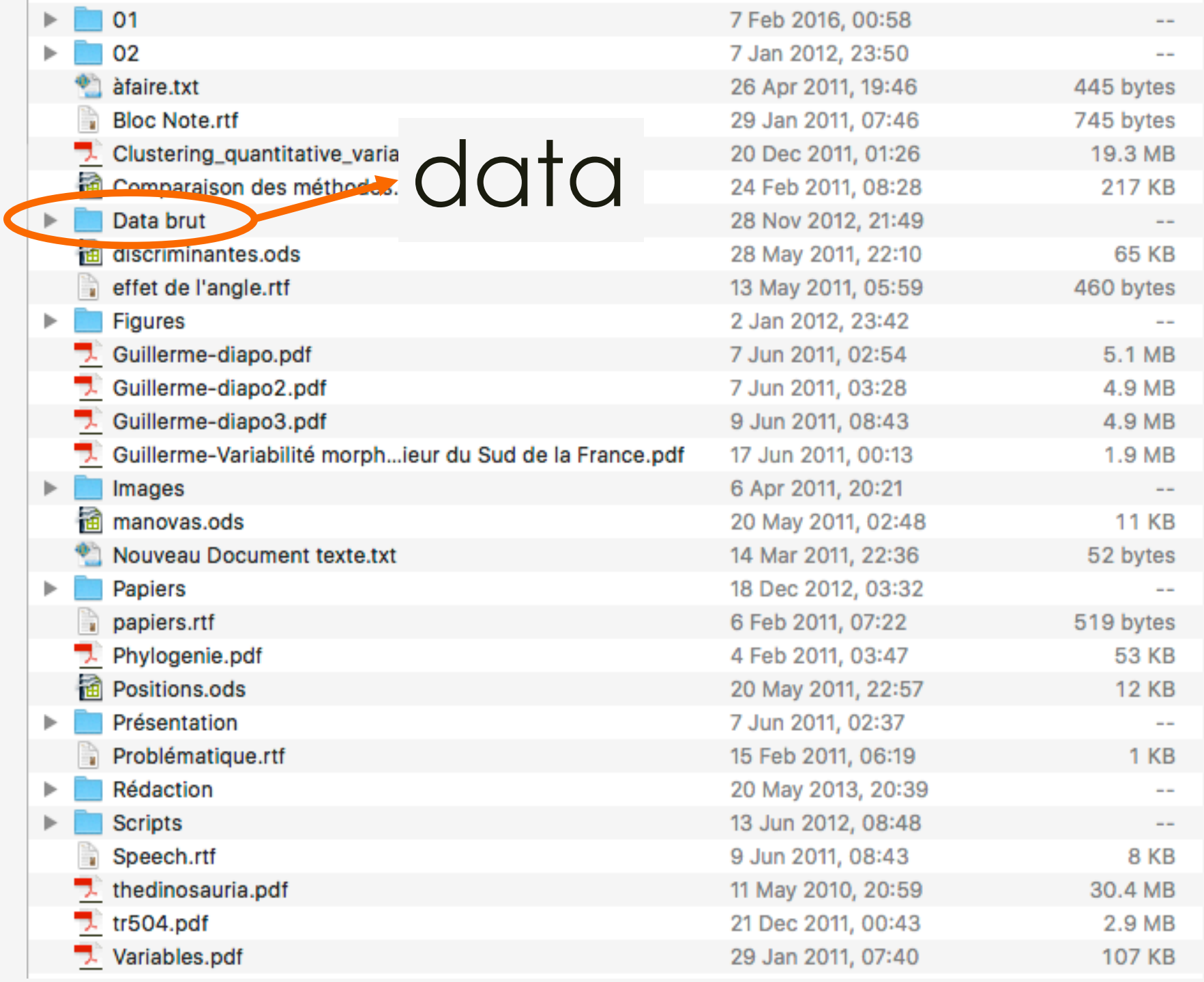
(with a computer!)

BE CONSISTENT!



2011

(in french)



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Guillerme-Variabilité morph...ieur du Sud de la France.pdf	17 Jun 2011, 00:13	1.9 MB
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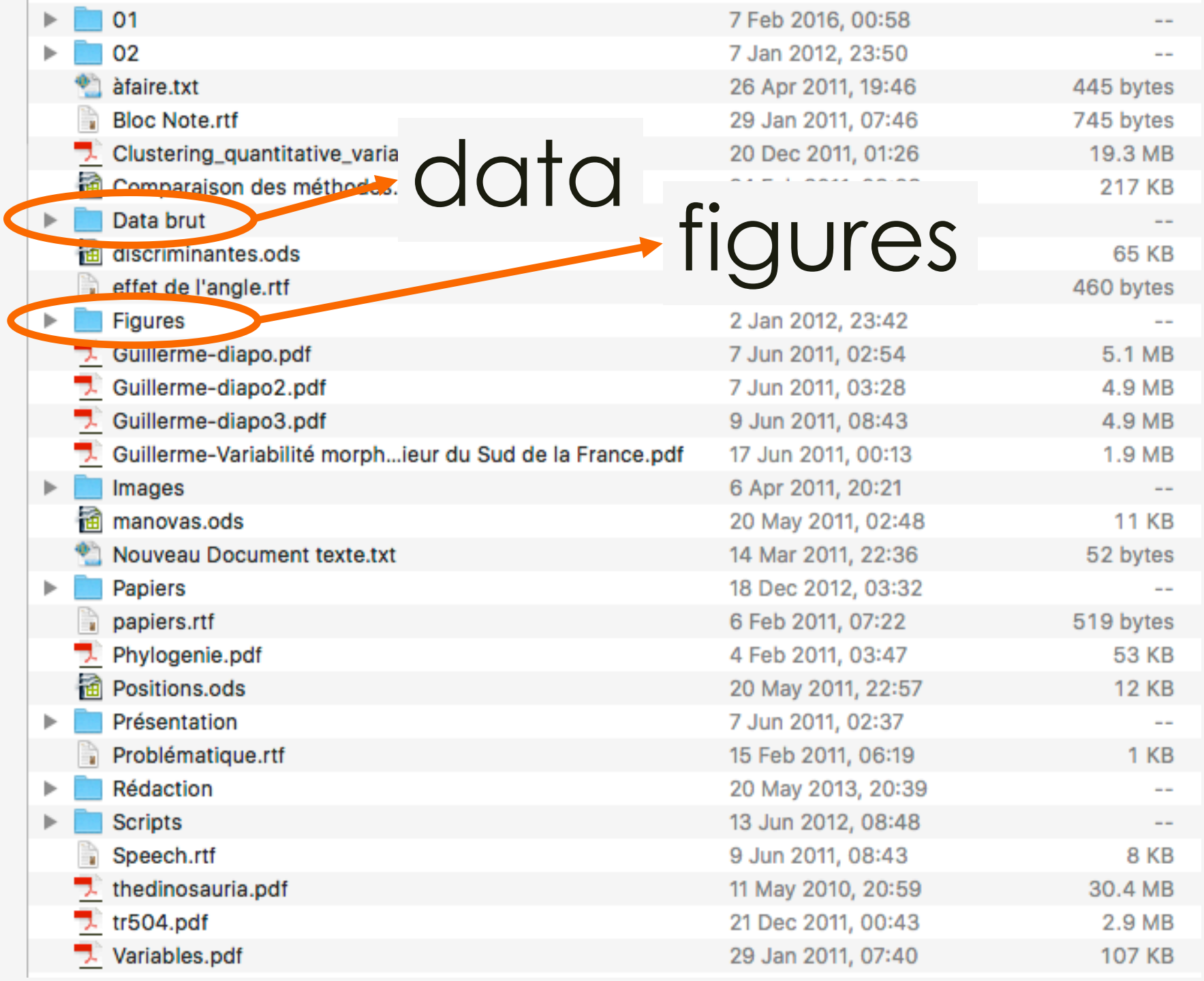
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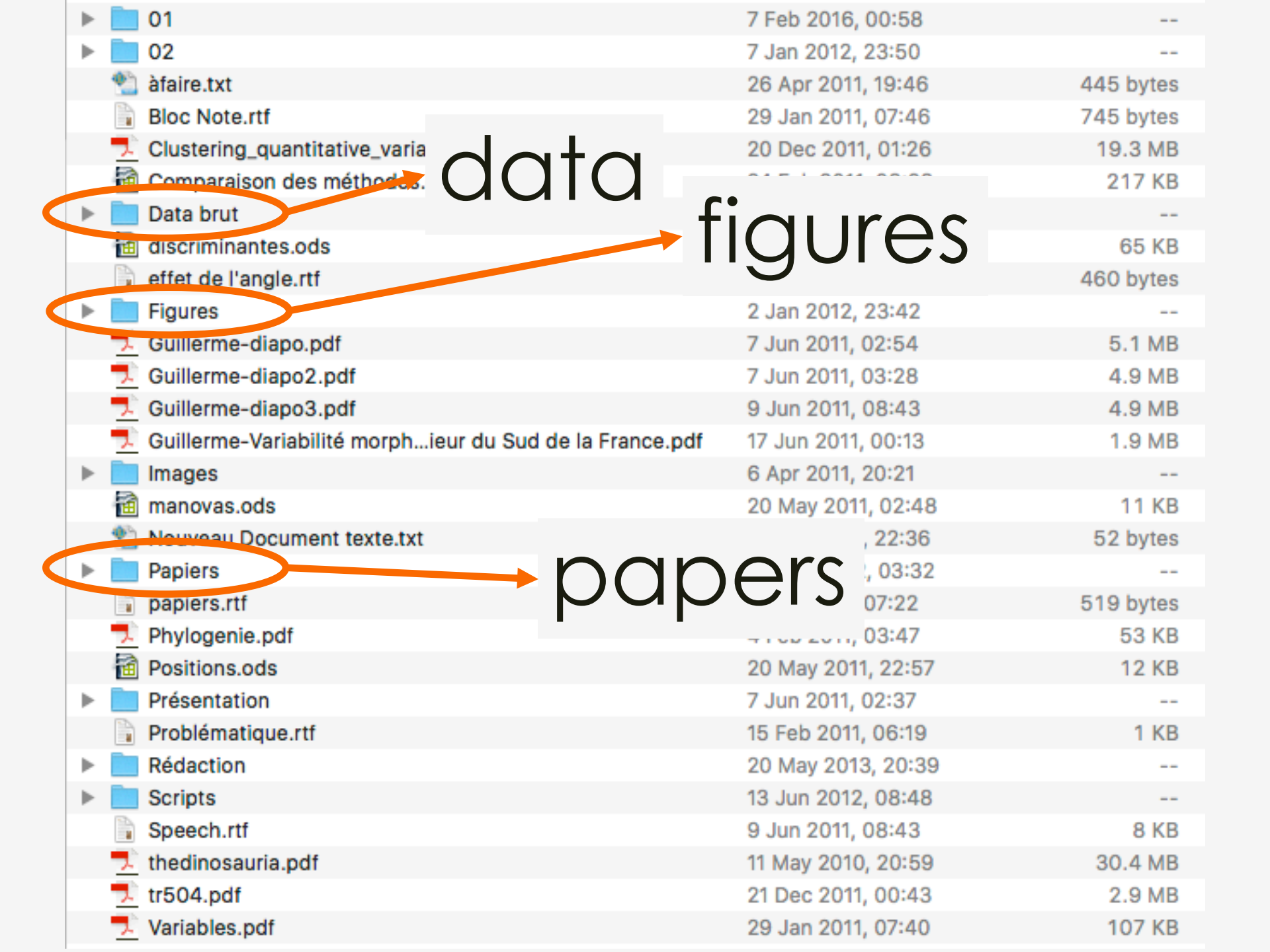

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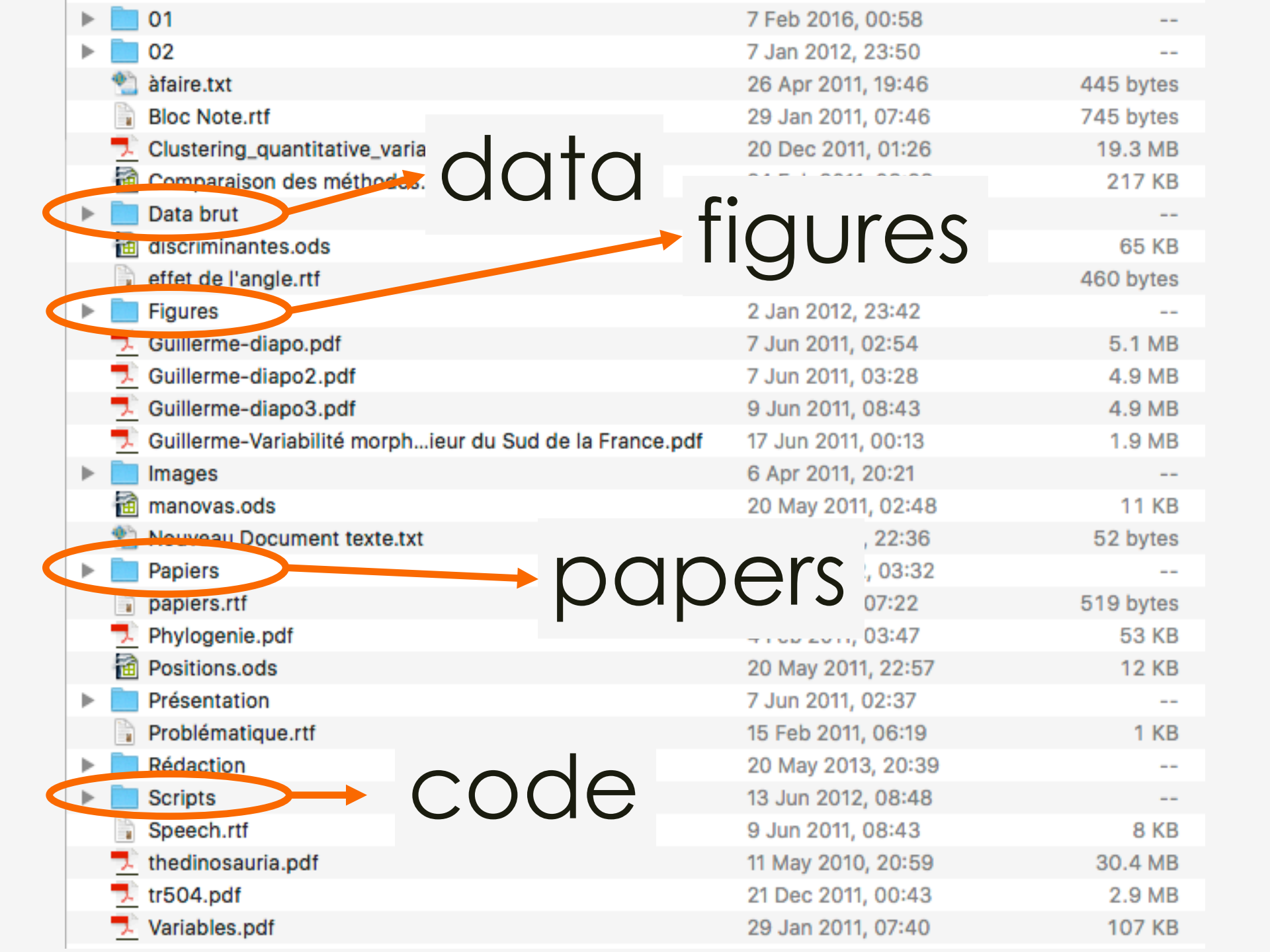
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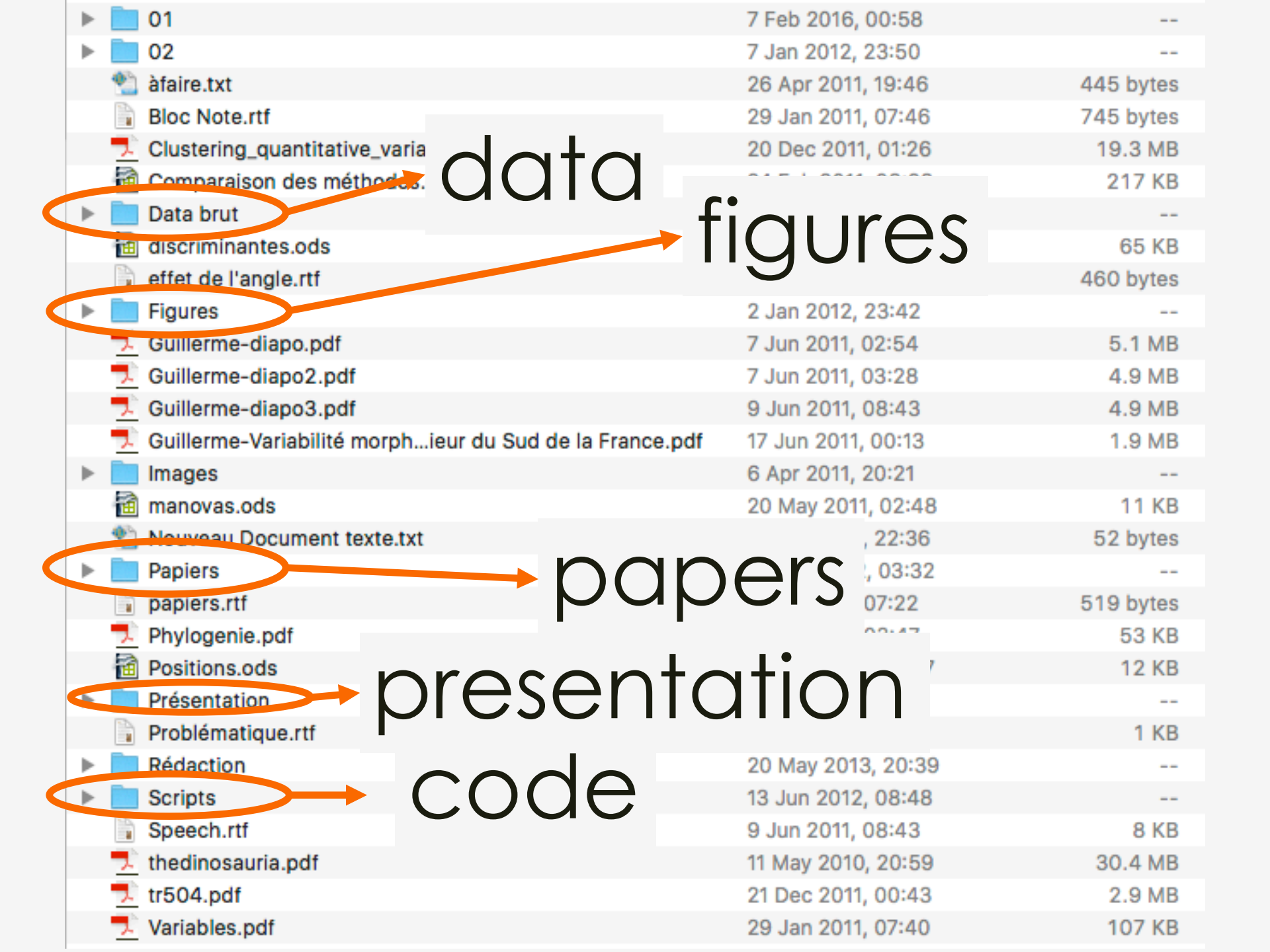
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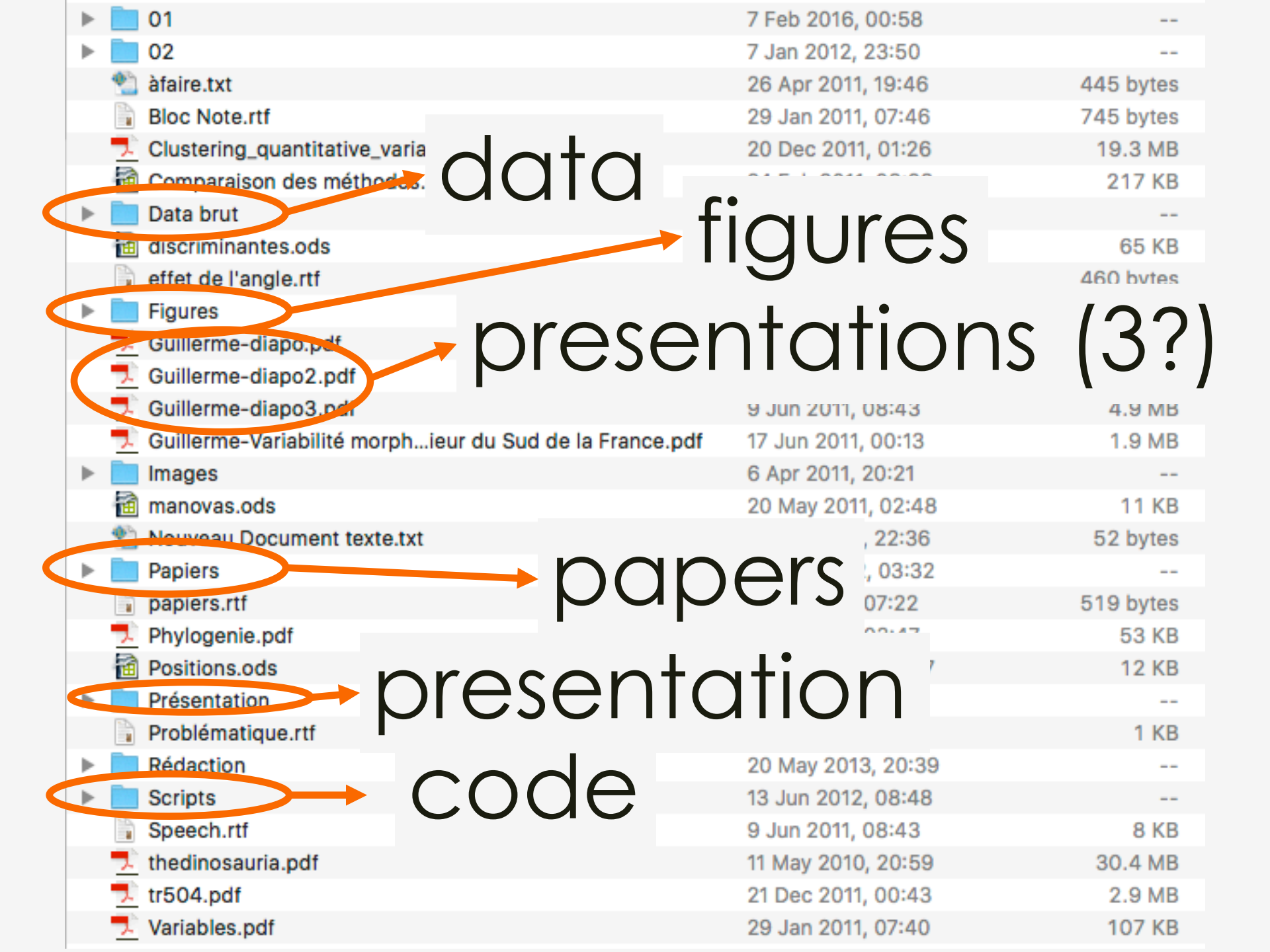
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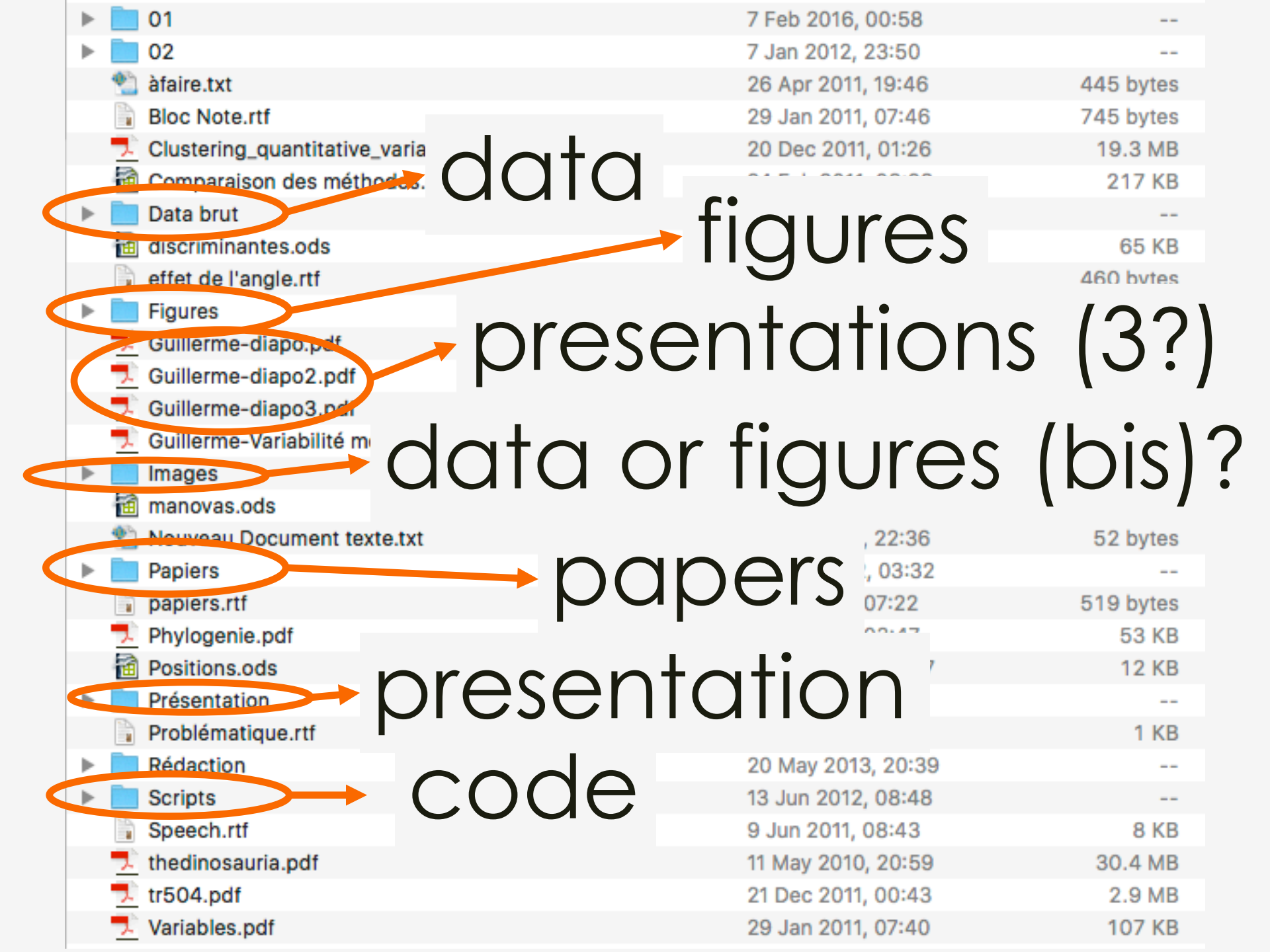
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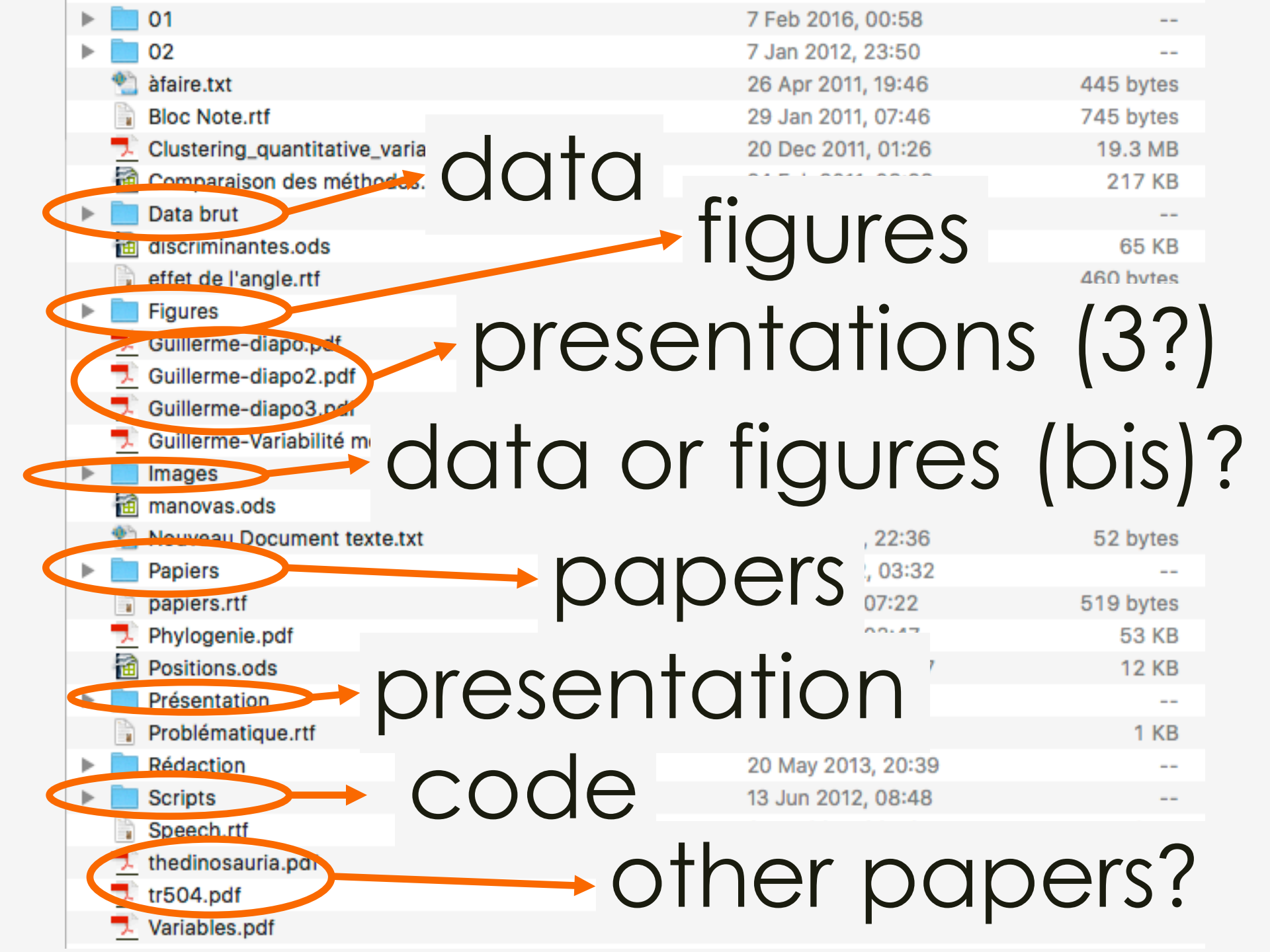
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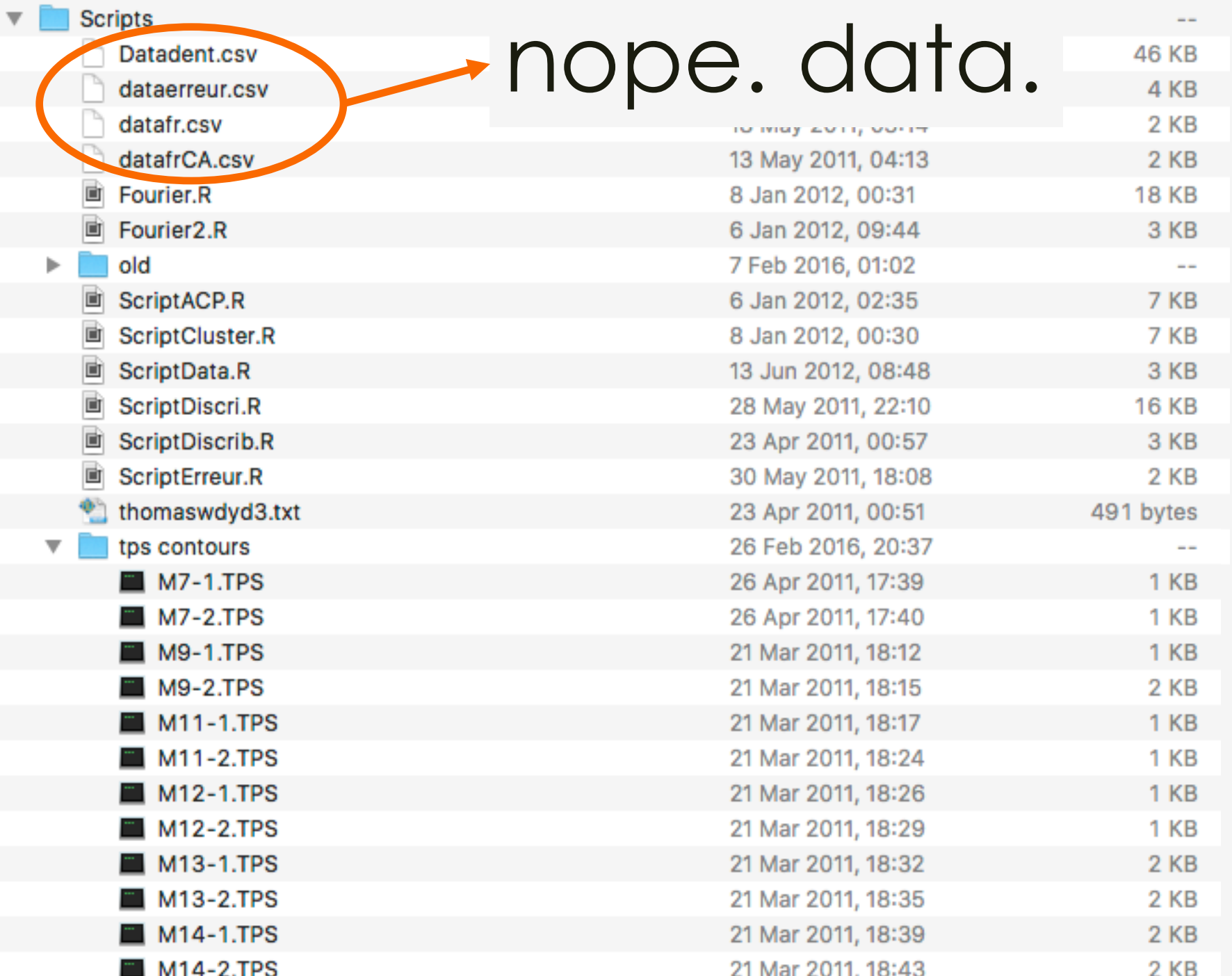
Code?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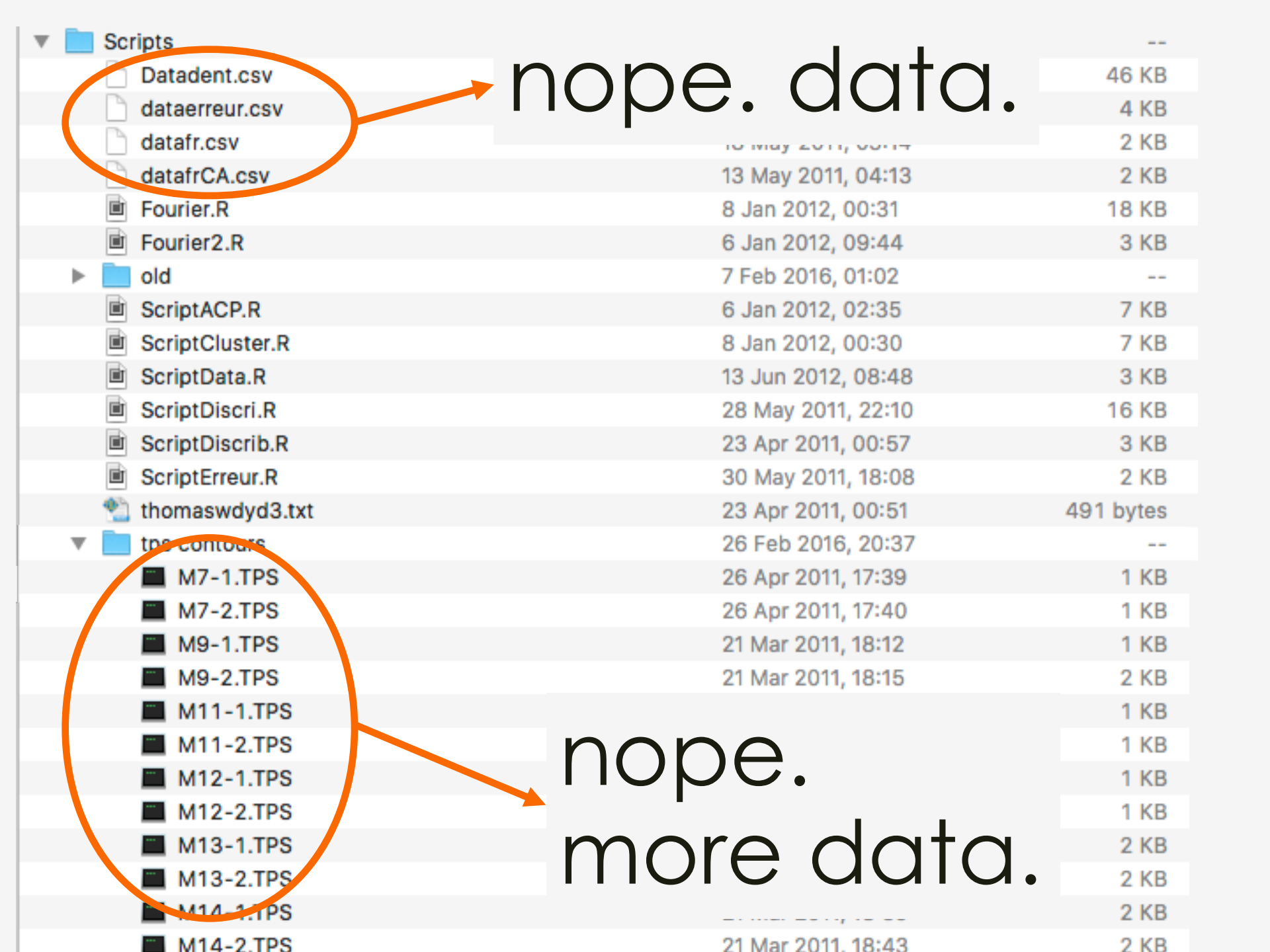
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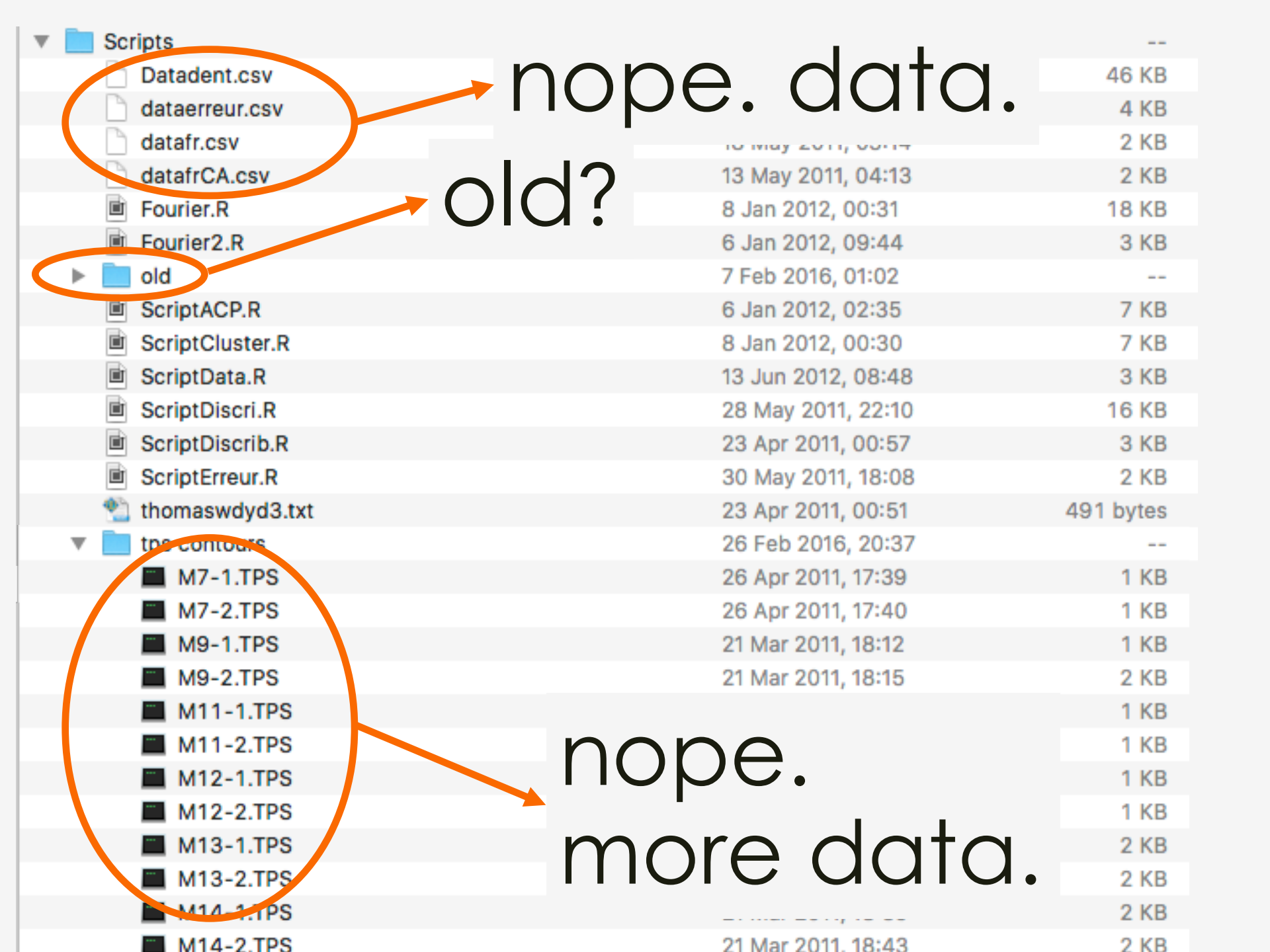
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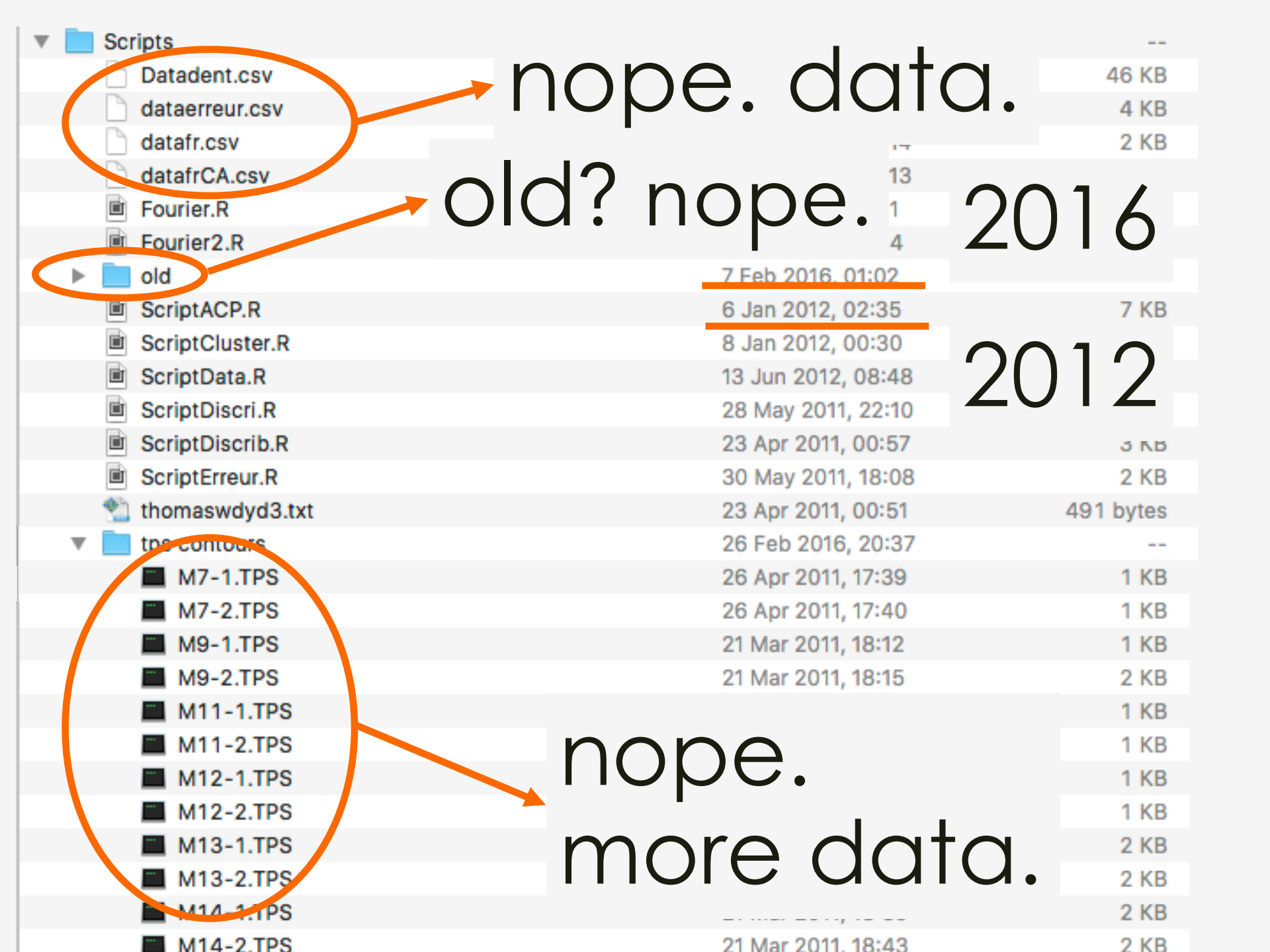
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BE CONSISTENT!

(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 your 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 your start (lazy)

2 – you won't know what's in there in five years (believe me!)

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Future Thomas:

1 – not a hassle if your start (lazy)

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Science: **JUST DO REPEATABLE AND REPRODUCIBLE WORK!**

Does it have (any):

1 - raw data;

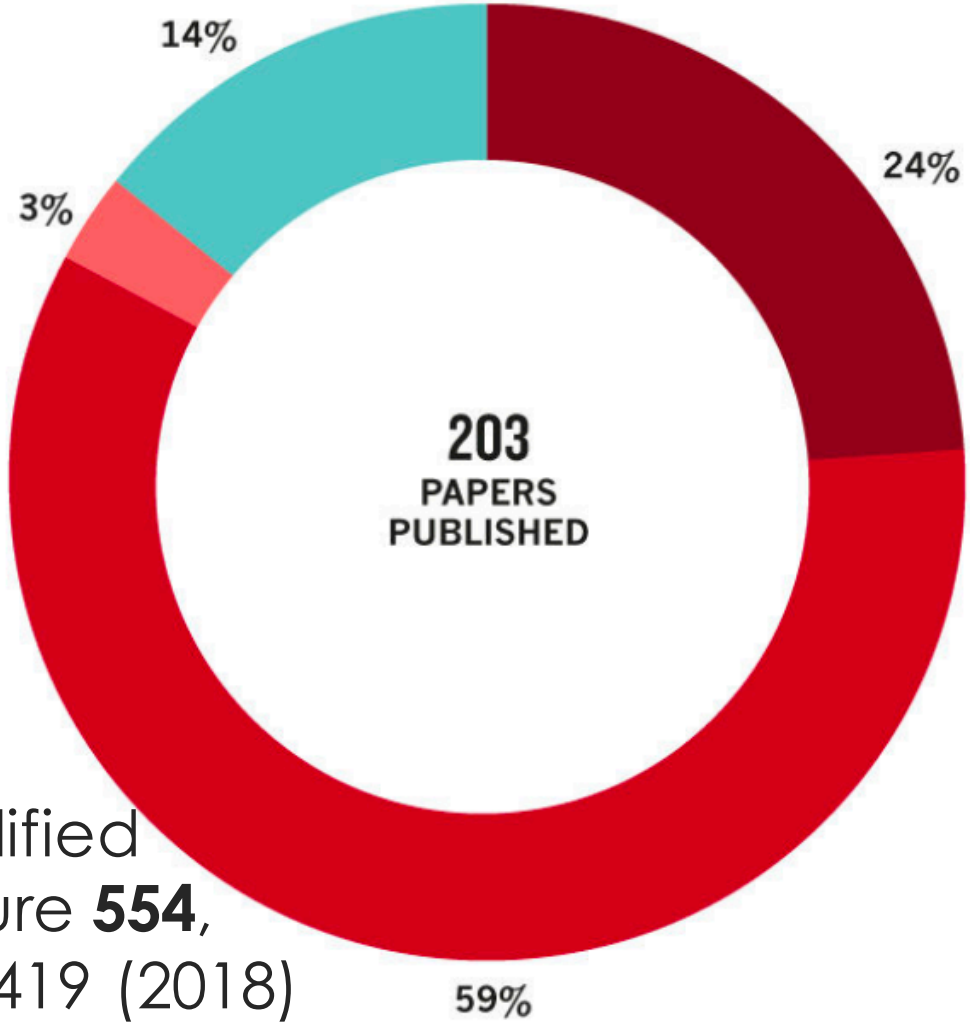
2 - raw code;

3 - estimate (transformed) data;

4 - estimation code?

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

Does it have:
raw data; raw code; estimation data; estimation code?



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

Does it have:
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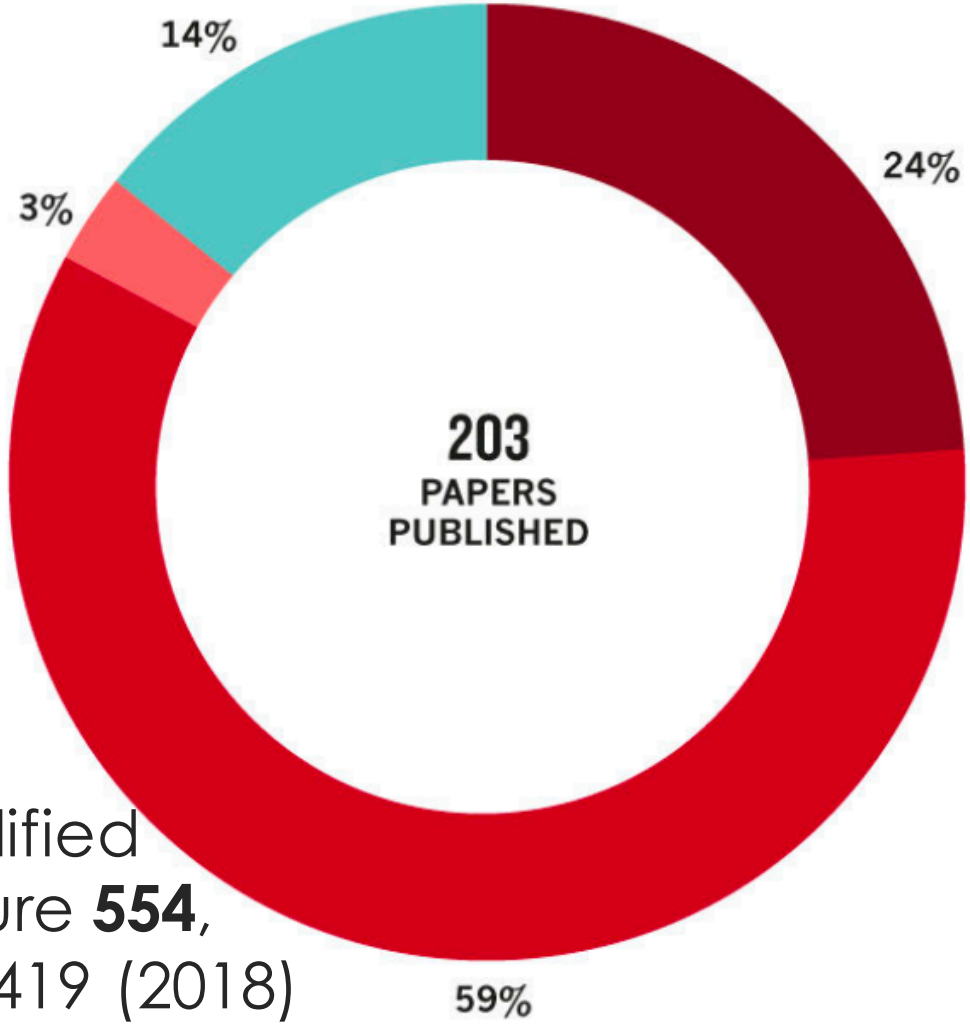


Nada!

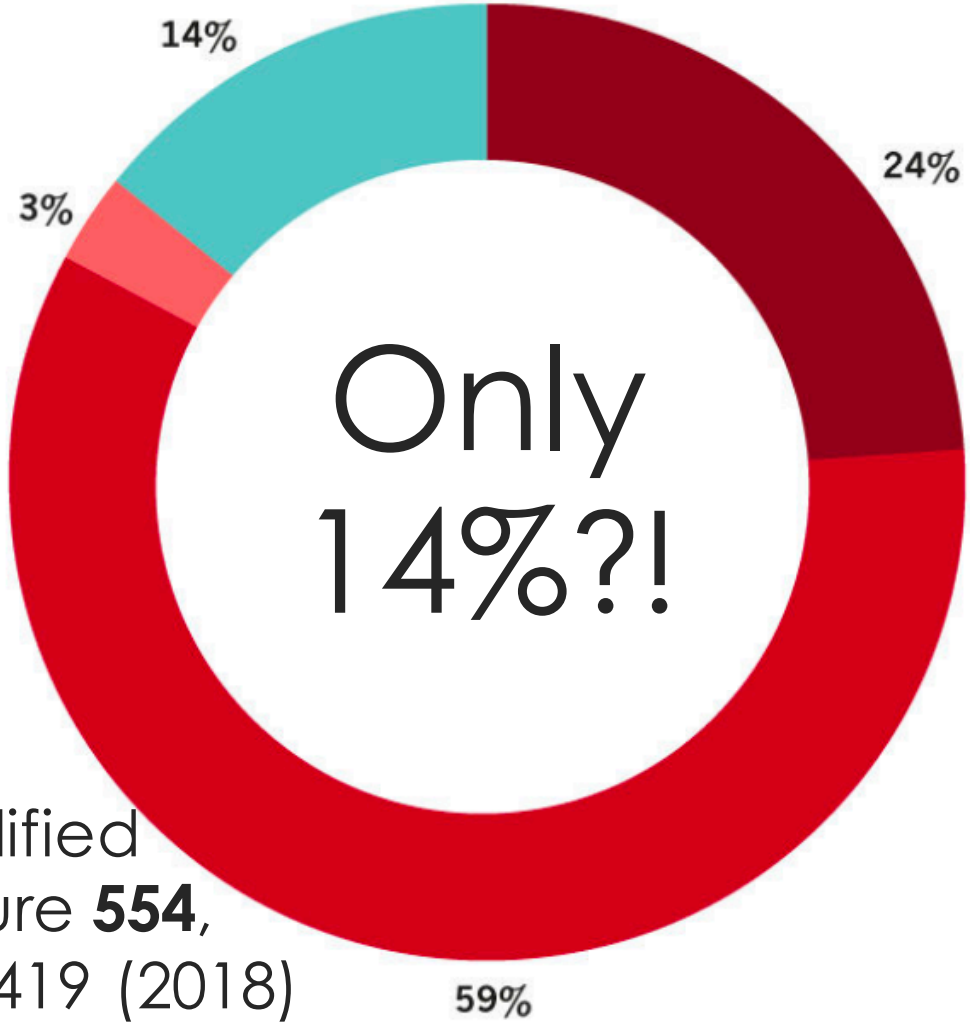
Missing one (or more!)

Nothing missing but bugged

All good.

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

Does it have: raw data; raw code; estimation data; estimation code?



Nada!

Missing one (or more!)

Nothing missing but bugged

All good.

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

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/
```

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

1 - Project

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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/
    Processed/

    Results/
```

-> Collected once, never to be changed!

2 - Data

```
Data/
    Raw/
    Processed/
    Results/
```

-> Collected once, never to be changed!

-> The data that I will analyse

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_sciency.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_sciency.R
    03-doing_another_one.R
    04-some_stats_maybe.Rmd
    05-making_the_tables.R
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Analysis/
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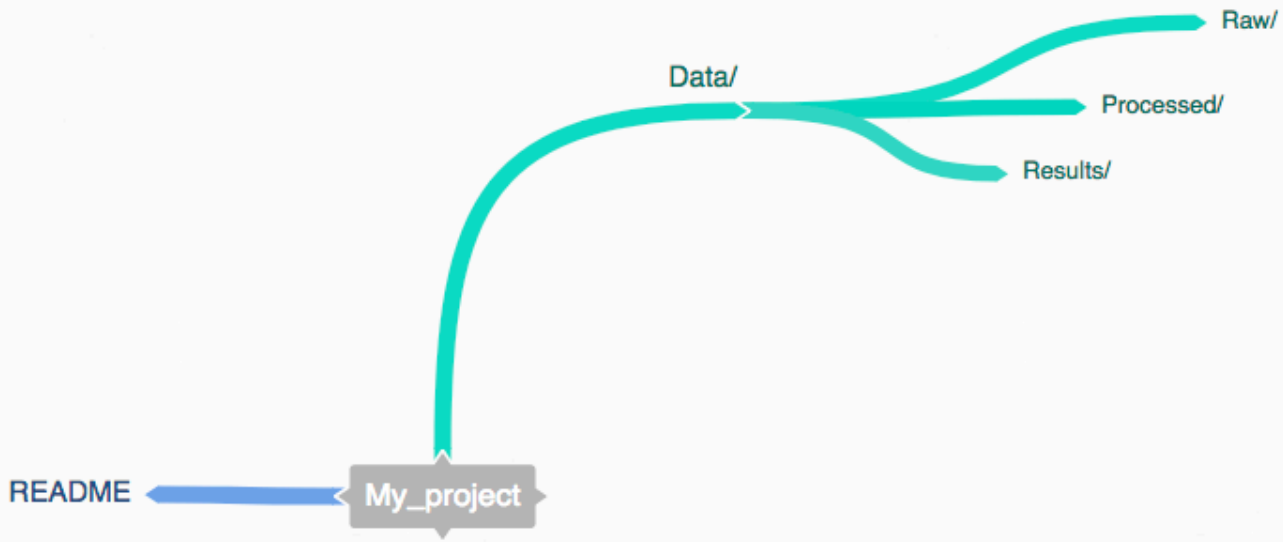
    02-doing_smthing_sciency.R
    03-doing_another_one.R
    04-some_stats_maybe.Rmd
    05-making_the_tables.R
    06-making_the_figures.R
```

5 - Manuscript

```
Manuscript/
    Figures/
    Tables/
    01-manuscript.tex
    02-appendix_1.docx
    PeerJ_submission/
    Nature_submission/
```

README
My_project


Raw/
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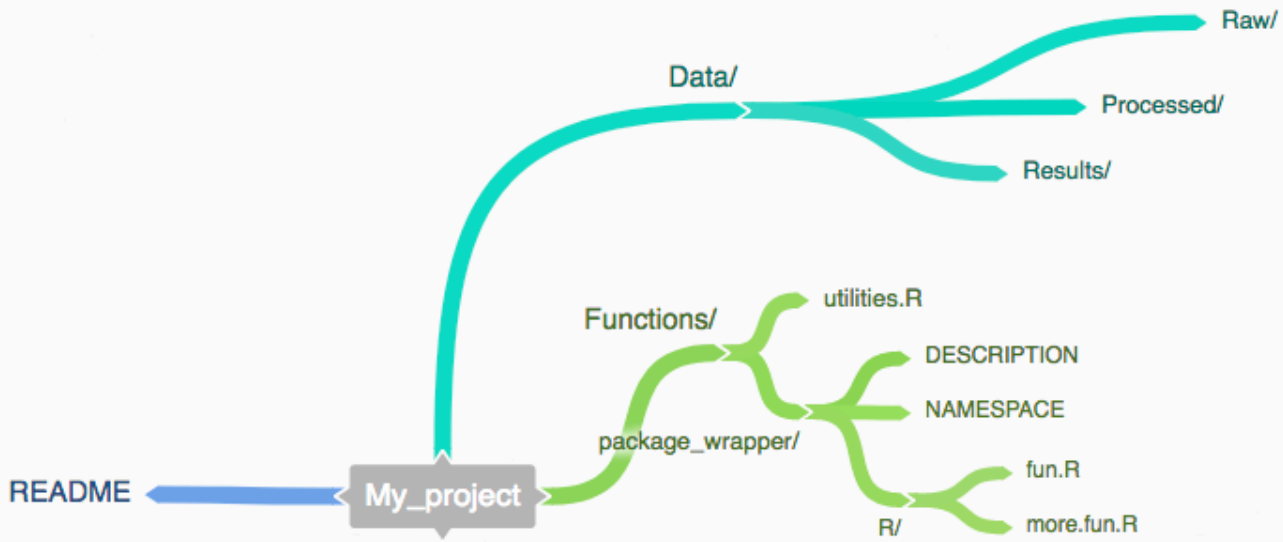
Results/
README
My_project


Raw/
Data/
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Results/
utilities.R
Functions/
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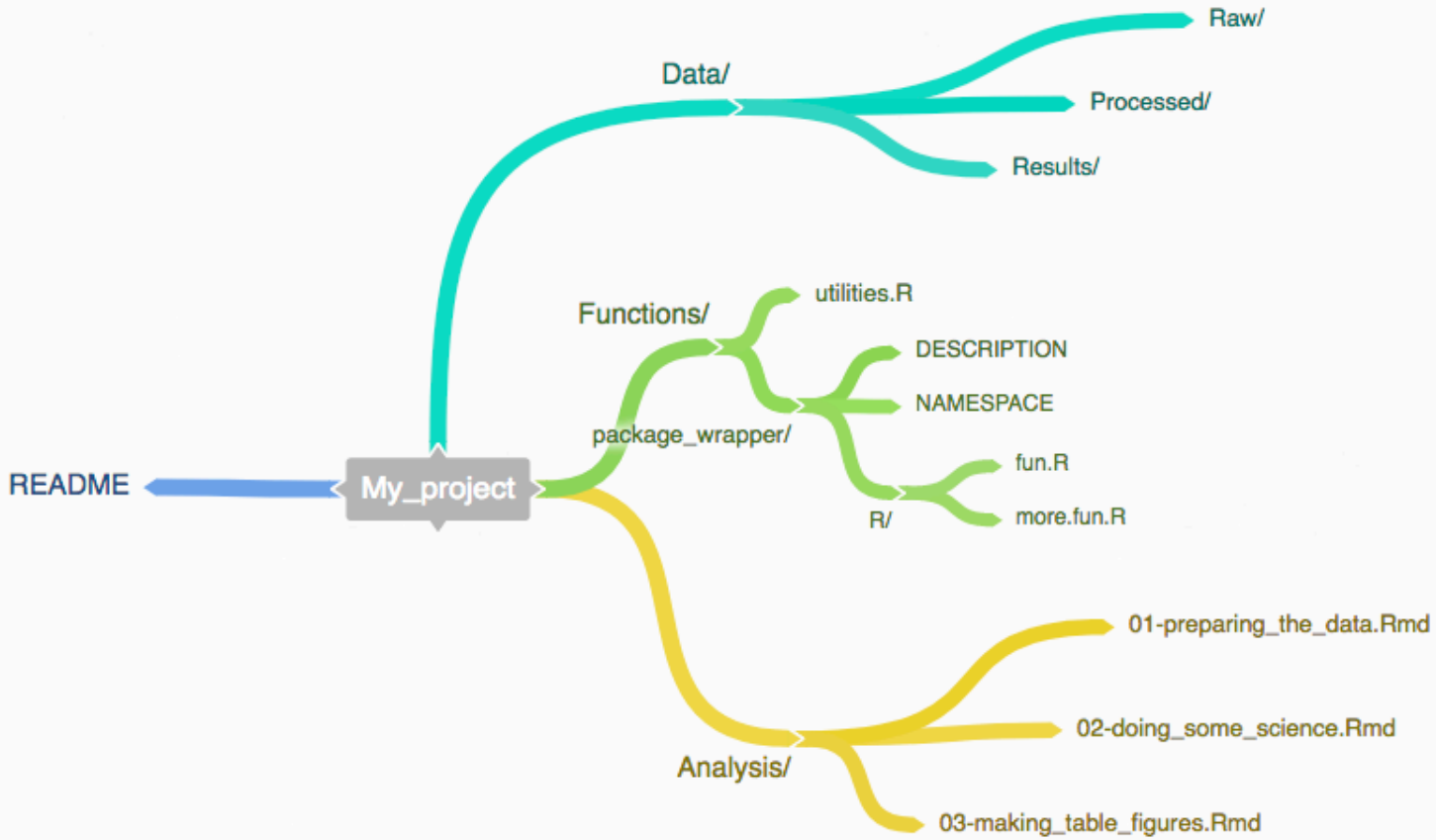
NAMESPACE
package_wrapper/
README
My_project
fun.R
R/
more.fun.R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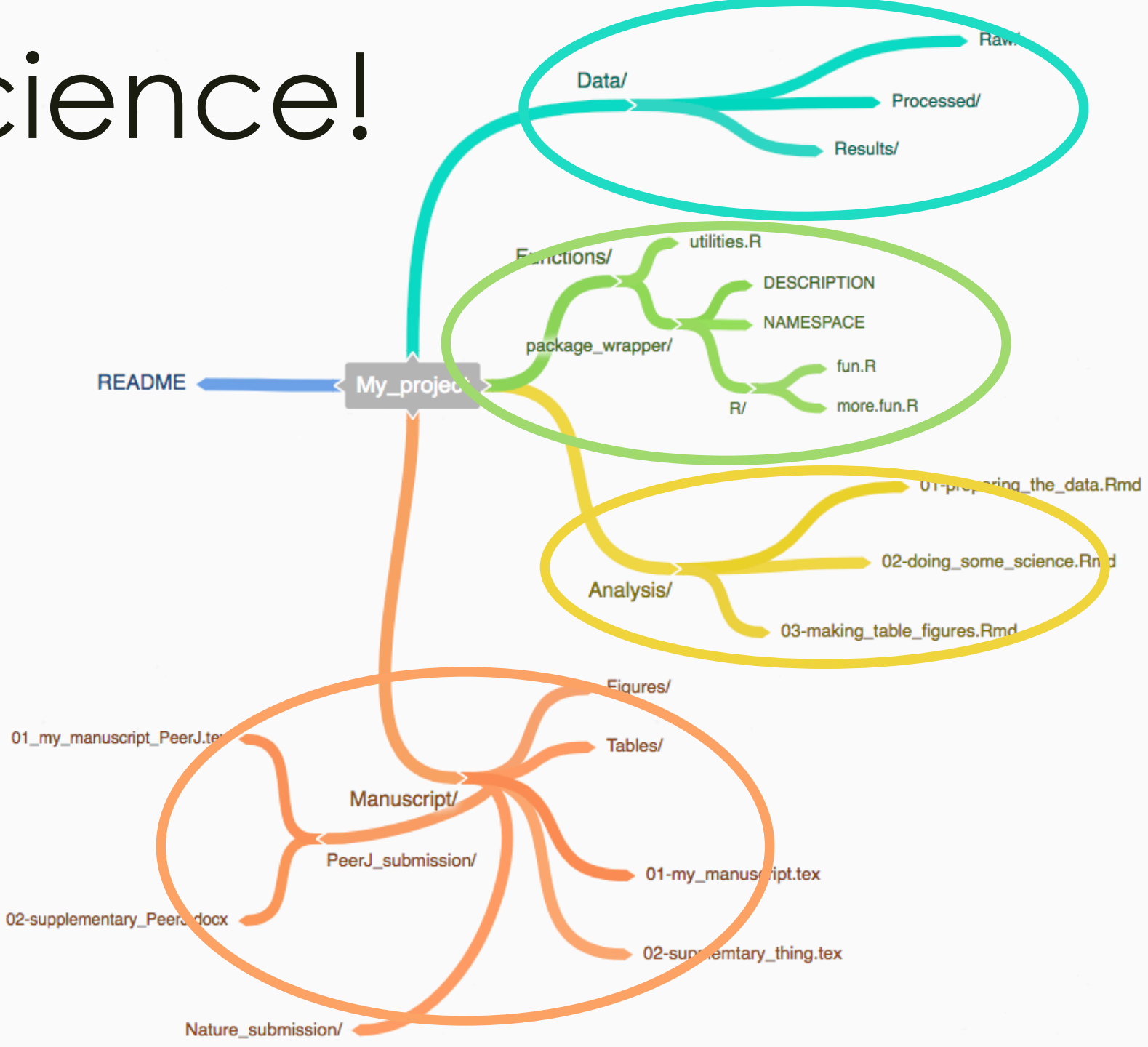
Figures/
01_my_manuscript_PeerJ.tex
Tables/
Manuscript/
PeerJ_submission/
01-my_manuscript.tex
02-supplementary_PeerJ.docx
02-supplemtary_thing.tex
Nature_submission/

Science!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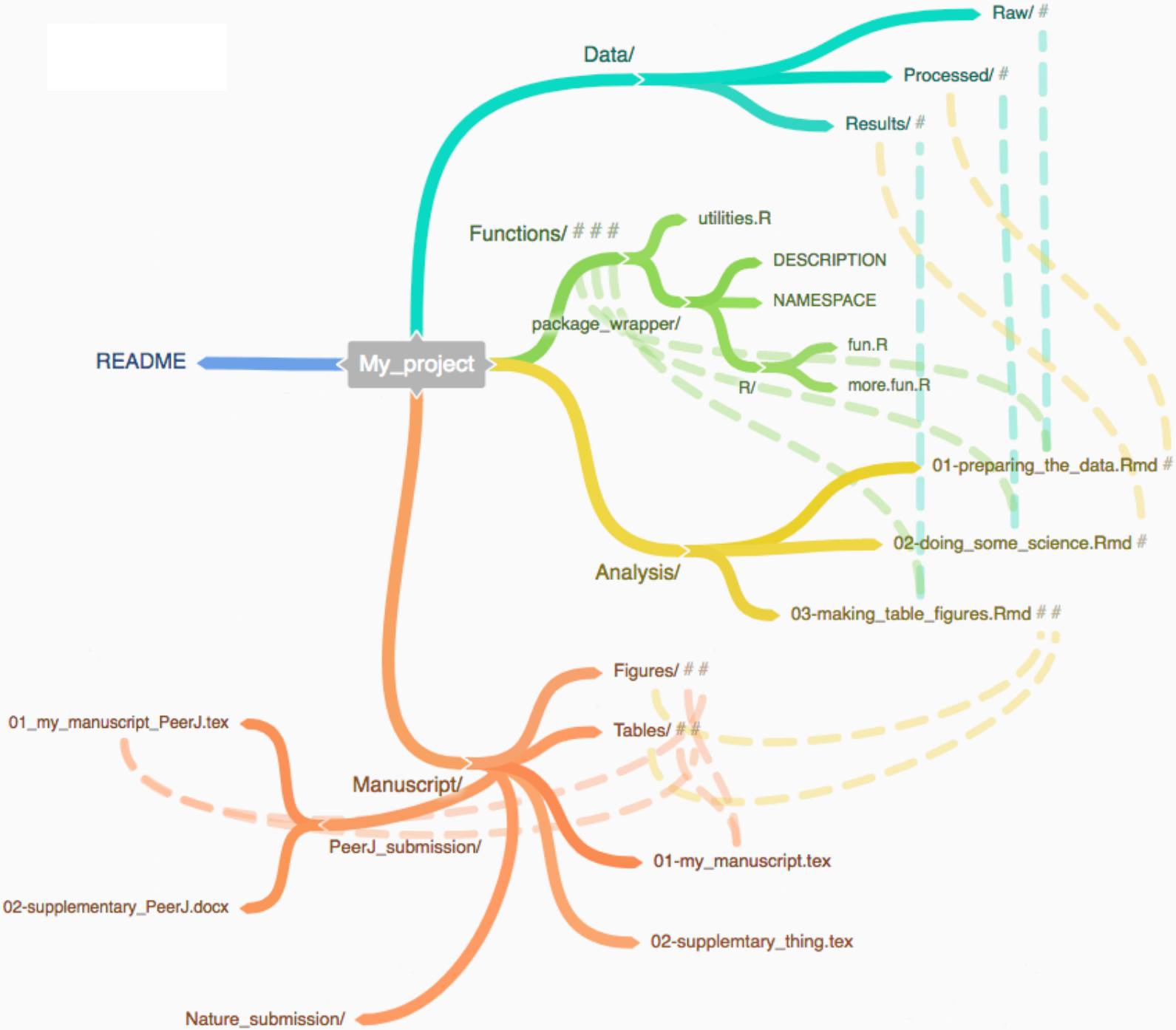
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utilities.R
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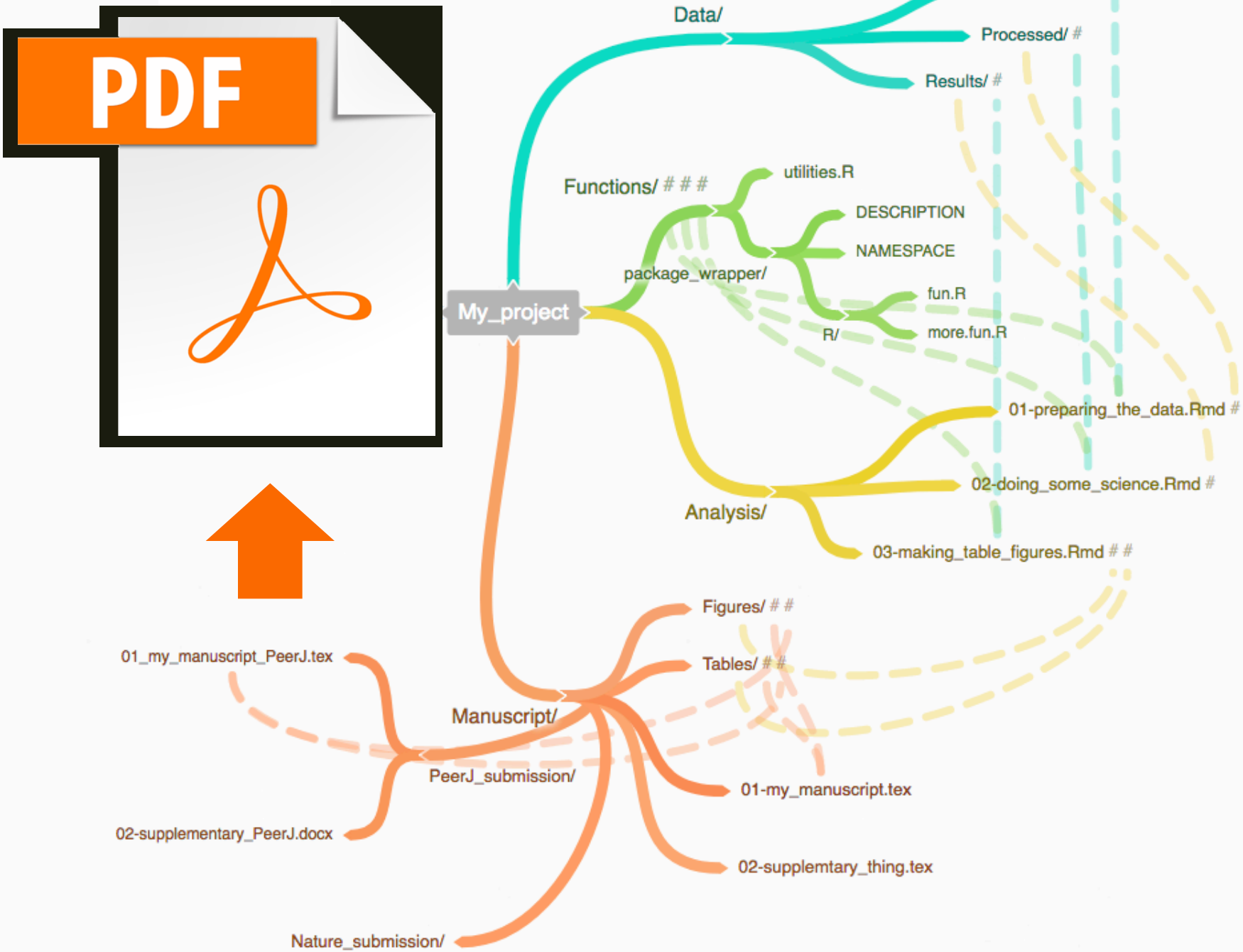
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utilities.R
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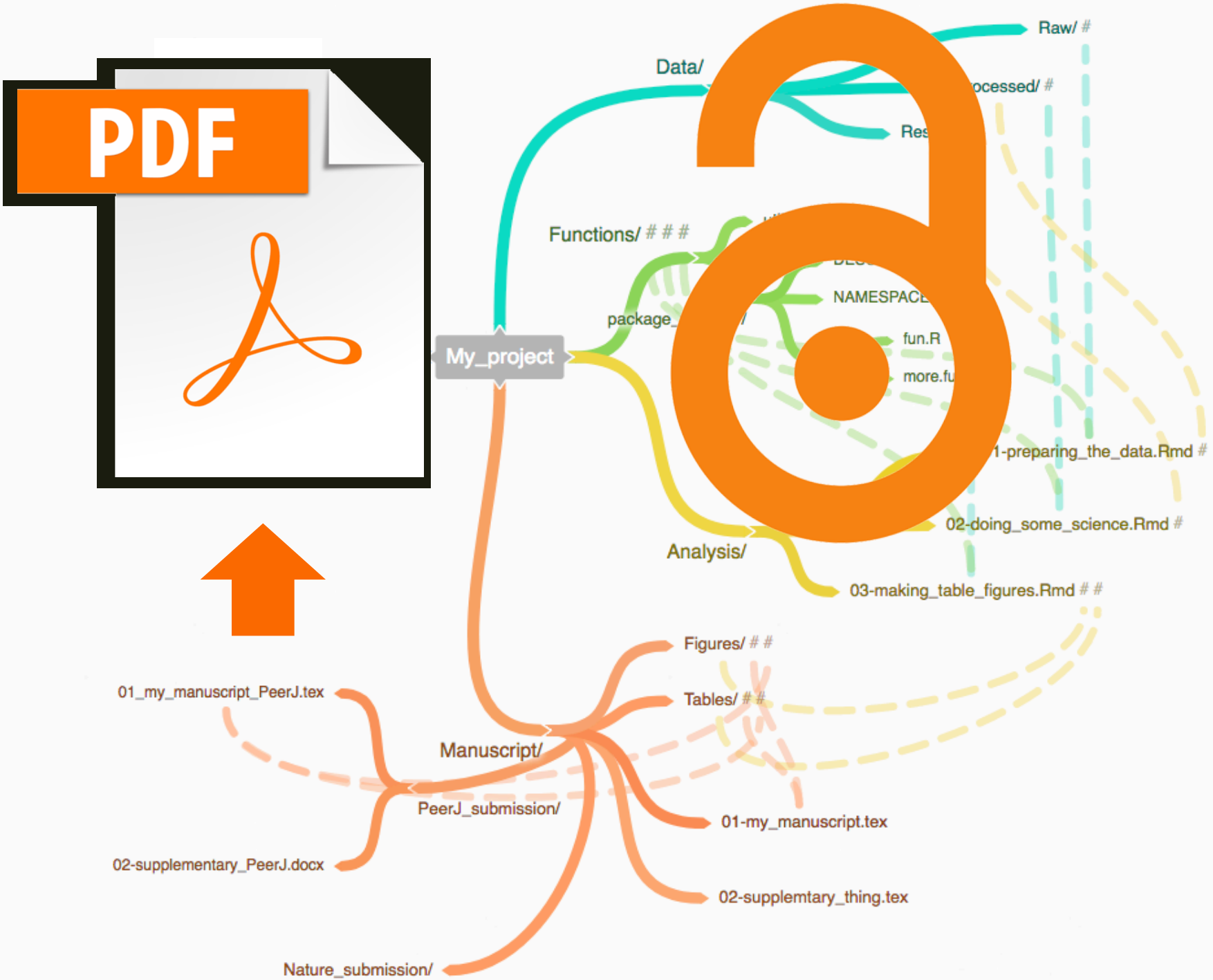
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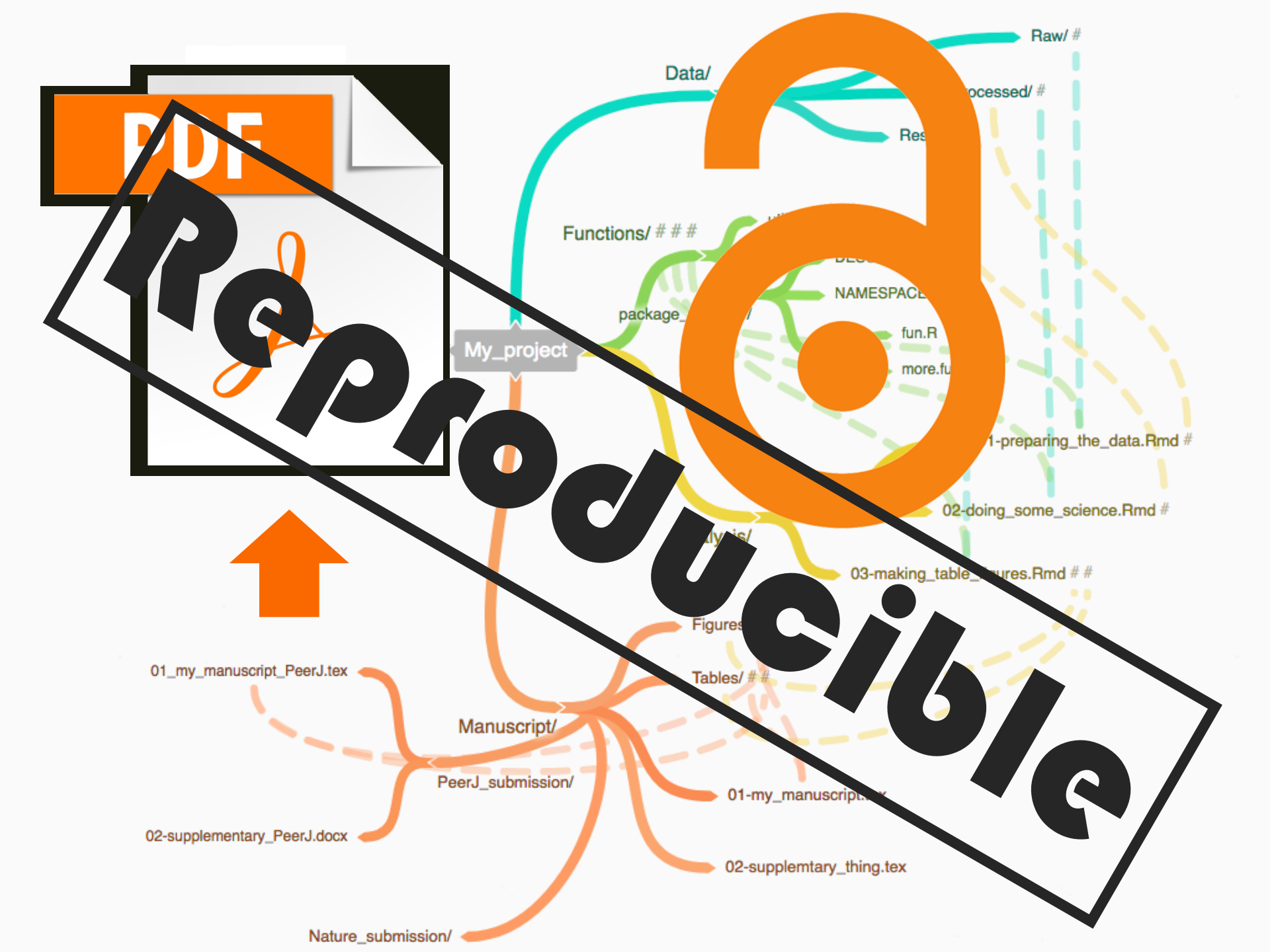
PDF
Reproducible
My_project
Data/
Raw/ #
Functions/ # # #
NAMESPACE
fun.R
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02-doing_some_science.Rmd #
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Tables/ # #
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github.com/
TGuillermeTeaching/
OrganiseProjects