Useful open science tools to do research in psychiatry

Thomas Gargot
thomas_gargot@hotmail.com
EPA Congress,
Sunday March 29th

CC BY

Who I am

- Psychiatrist in Paris
- PhD Student in Computer Science :

Algorithms and robotics to detect and treat writing learning difficulties in neurodevelopmental disorders

La pitié Salpétrière

- Former IT secretary and Psychotherapy WG chairman

efpt EUROPEAN FEDERATION OF PSYCHIATRIC TRAINEES

- Secretary of EPA psychotherapy section
- Research Officer, Telemental Health section

ΨEPA

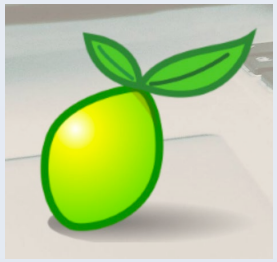
Disclosure

- None

Useful open science tools to do research in psychiatry

Randomizer.org

Collect data
Limesurvey

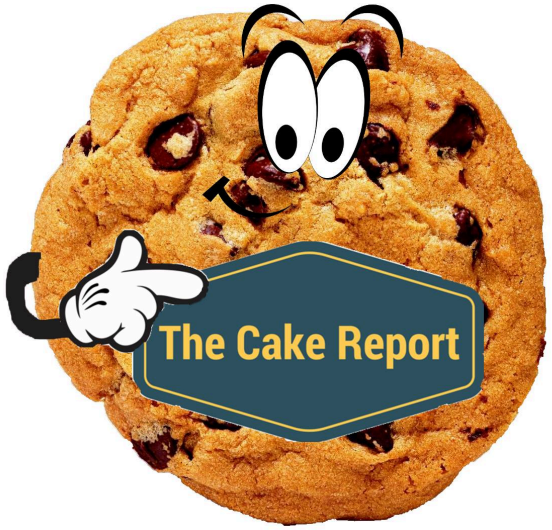


Analyse data

Share data
OSF and
GitHub

Write an article

Make the knowledge more visible



Anne, Yann, Corentin

TASTE | TEXTURE | LOOK

The Cake Report

Because we love eating

https://thecakereportblog.wordpress.com/

MENU

nature

Commentary | Published: 30 April 1992

The growing inaccessibility of science

Donald P. Hayes

Nature **356**, 739–740(1992) | Cite this article

1015 Accesses | **44** Citations | **27** Altmetric | Metrics

Access options

Rent or Buy article

Get time limited or full article access on ReadCube.

from $8.99

Rent or Buy

All prices are NET prices.

Subscribe to Journal

Get full journal access for 1 year

$199.00

only $3.83 per issue

Subscribe

All prices are NET prices.
VAT will be added later in the checkout.

European Psychiatric Association - EPA
21 février, 12:21 ·

Artificial intelligence (AI) algorithm accurately predicts sertraline efficacy in patients with with major depressive disorder: https://www.medscape.com/viewarticle/925225 by Medscape Psychiatry & Mental Health #EPA2020

MEDSCAPE.COM

EEG Signature Predicts Antidepressant Response

A novel artificial intelligence algorithm can accurately predict which...

33 2 commentaires 8 partages

J'aime Commenter Partager

Tous les commentaires

Votre commentaire...

Thomas Ggtfb Not so sure https://twitter.com/gustavn.../status/1229388242044248064...

TWITTER.COM

Gustav Nilsonne on Twitter

J'aime · Répondre · Supprimer l'aperçu · 10 h

https://twitter.com/GustavNilsonne/status/1229388242044248064

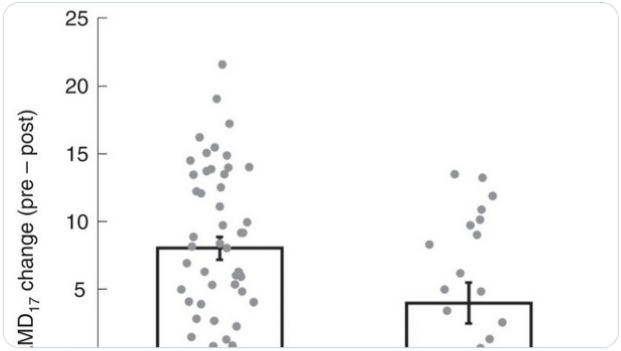
Gustav Nilsonne @GustavNilsonne · 17 févr.
En réponse à @GustavNilsonne
The model was trained on data from the treatment arm of the EMBARC study. Next, they tested the model on data from the placebo arm. Finding that the model did not predict improvement, they argued that this suggests the predicted effect is specific to SSRI. (2/x)

2 4 13

Gustav Nilsonne @GustavNilsonne · 17 févr.
But an alternative explanation is that the model predictions did not generalize well due to overfitting on the training dataset. Luckily, they also tested the "antidepressant-predictive signature" in a second independent sample. But wait! The variables are switched around. (3/x)

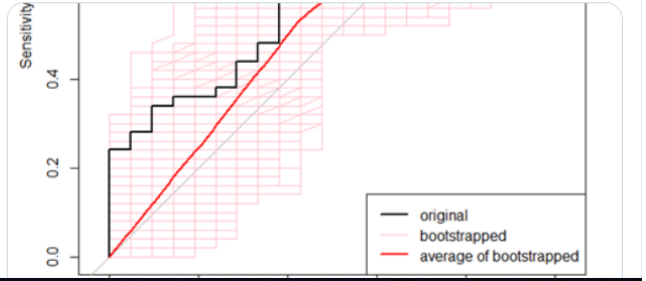
1 2 23

Gustav Nilsonne @GustavNilsonne · 17 févr.
Instead of using the model to predict patient status, they used patient status to predict the model predictions. (4/x)



2 4 19

Gustav Nilsonne @GustavNilsonne · 17 févr.
So I grabbed their data and tested how well the model predicted patient outcome, compared to 1000 bootstraps with labels switched randomly. Result: no better than chance. (5/x)



European Psychiatry turns open access

European Psychiatry
@EP_Editors

Attention authors - we're going Gold! Any articles submitted from this point will be considered for our 2020 volume; accepted articles will be published open access. For more information please see our new homepage: bit.ly/349NHak @CambUP_Psych @CambridgeCore

Traduire le Tweet

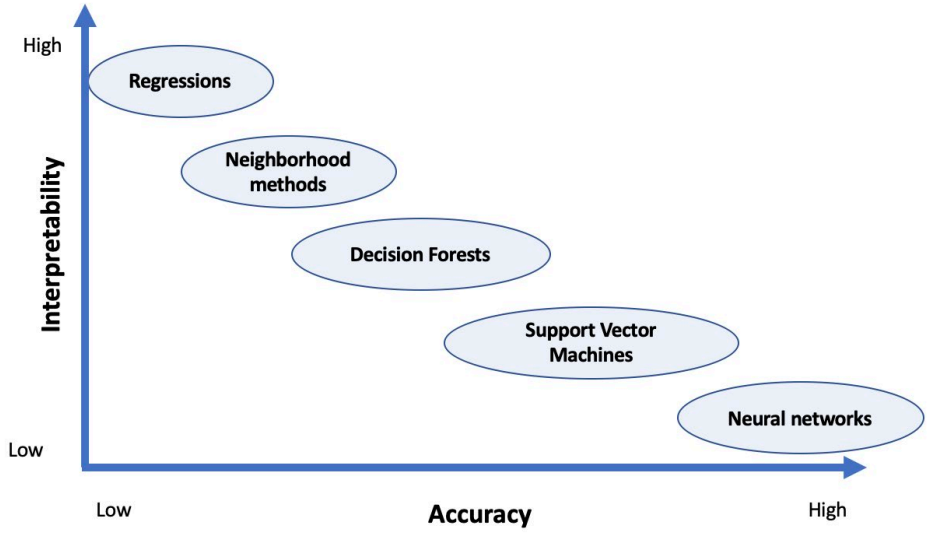
European Psychiatry ask to share data

How to share resources

European Psychiatry encourages the sharing of resources through repositories that make content as Findable, Accessible, Interoperable and Reusable (FAIR) as possible. Wherever possible, authors are encouraged to use repositories that:

- Are committed to the long-term preservation and accessibility of their content.
- Are supported and recognised by the community as appropriate for the resources they hold.
- Provide stable, unique identifiers for the information they hold.
- Support linking between their database records and associated published research articles.
- Allow free public access to their holdings, with reasonable exceptions (such as administration charges for the distribution of physical materials).

Psychiatry data can be analysed with a lot of different methods



Goals of the workshop

- Understand the challenges of open science
- Learn the names of few tools
- Consider you own research/projects
- Rate cakes

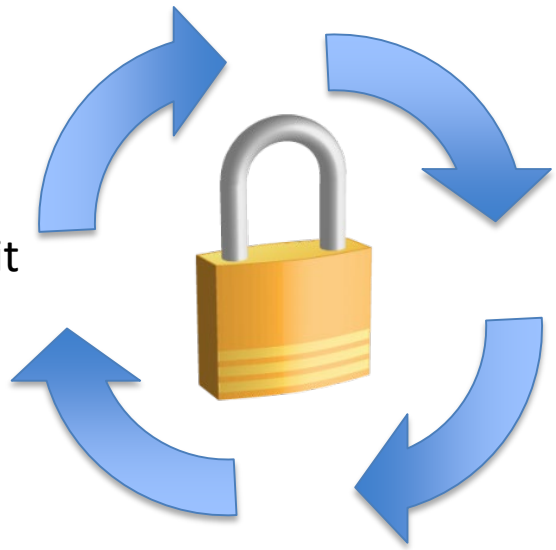
Principles

Problems

- **Cost:** How much will it cost to run this study?
- **Method**: What do they mean when they did this analysis?
- **Licence**: Does someone has the last version of this software ?
- **Memory**: where is my data, how to re-use, share it?
- **Paywall**: I can’t get this article
- **Visibility**: Nobody cares about what we did

Publication lucrative vicious circle
How the life of publishers changed

Publishers collect articles for free

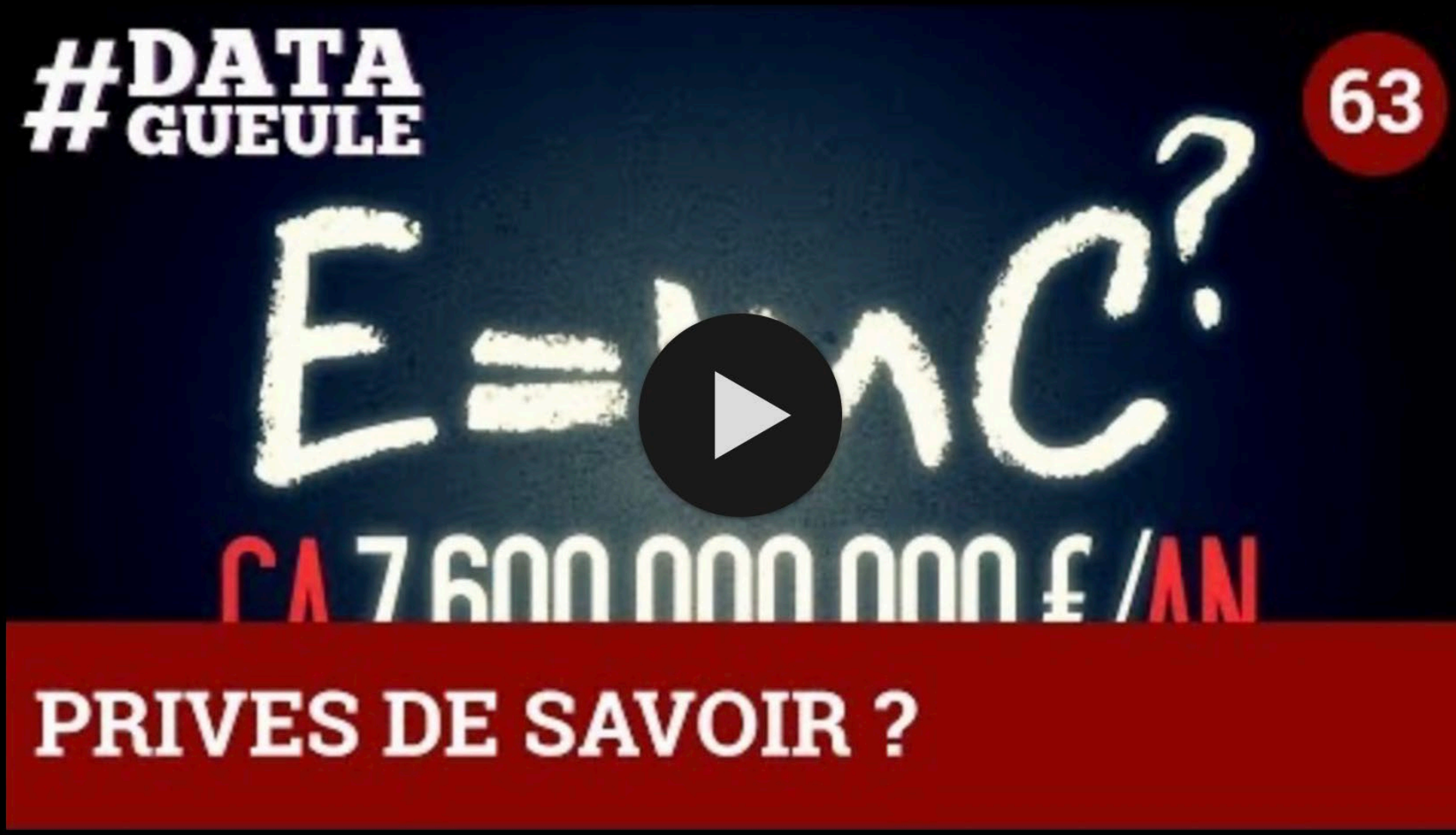


Editorial management for free
Reviewing for free

Publishing
(cost decrease)

Paywall
and Sell it

Research privatization
(profit margins
approach 40%)


#DATA GUEULE
63
E=mc?
PRIVES DE SAVOIR ?

Goals

- Dicrease costs
- Improve transparency
- Improve accessibility to software, articles, and re-use of data
- Improve visibility for public and increase citations

- Is that really possible ?!?

Why is there a need for open science?

nature human behaviour

PERSPECTIVE

PUBLISHED: 10 JANUARY 2017 | VOLUME: 1 | ARTICLE NUMBER: 0021

OPEN

A manifesto for reproducible science

Marcus R. Munafò[1,2*], Brian A. Nosek[3,4], Dorothy V. M. Bishop[5], Katherine S. Button[6], Christopher D. Chambers[7], Nathalie Percie du Sert[8], Uri Simonsohn[9], Eric-Jan Wagenmakers[10], Jennifer J. Ware[11] and John P. A. Ioannidis[12,13,14]

Data from many fields suggests reproducibility is lower than is desirable[8–14]; one analysis estimates that 85% of biomedical research efforts are wasted[14], while 90% of respondents to a recent survey in *Nature* agreed that there is a 'reproducibility crisis'[15].

Information world

- Share of information don’t decrease the ownership of the sharer
- Rather, better accessibility improve possibilities of not anticipated use (hacking) and feedback
- Open softwares are more flexible and have fewer bugs that closed one (servers, cryptography algorithms)

Free / Open?

Open software: Free use, study, modification, duplication and sharing

≠ Freemium strategy (demonstration)

≠ centralisation and user data collection

https://www.qwant.com/?q=you%20are%20the%20product&t=images&o=0:0a530ac5ad25daeb329762e4a2da88f3

An example of Open science pathway

Hands-on

Research protocol

- Make a data base of cookies tasting
- Rate them in an international context
- Select the best cakes in the worlds

Sampling process during EPA congress, Madrid, 2016

Useful open science tools to do research in psychiatry

Randomizer.org

Randomizer.org

Randomizer.org

RESULTS

PRINT DOWNLOAD CLOSE

1 Set of 10 Numbers
Range: From 1 to 2

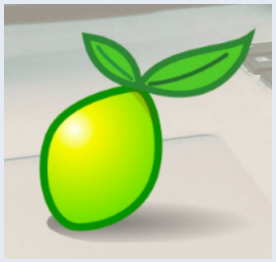
Set #1

2, 2, 2, 1, 1, 2, 2, 1, 2, 1

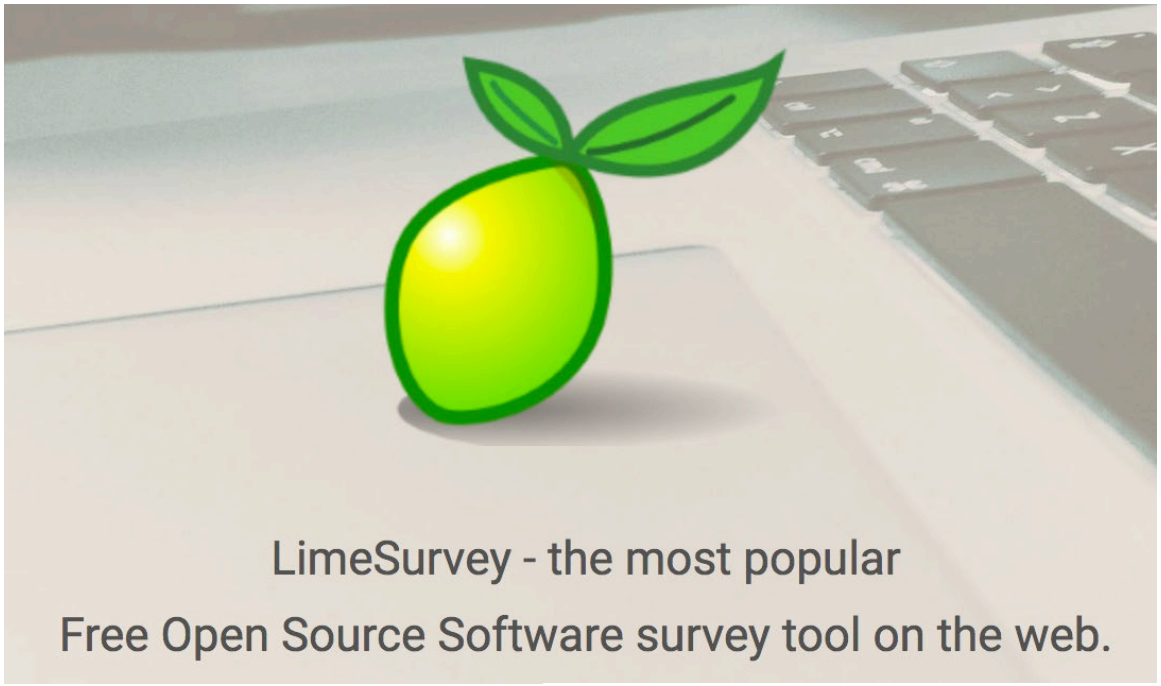
Useful open science tools to do research in psychiatry

Randomizer.org

Collect data
Limesurvey



Limesurvey



Create professional online surveys
LimeService
"Truth fears no questions."

https://www.limesurvey.org/

How does it look like ?

○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ● No answer

How does it taste ?

○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ● No answer

How is the texture ?

○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ● No answer

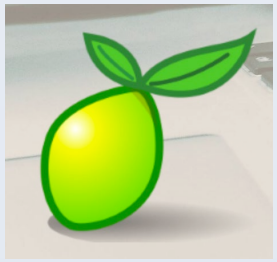
How is the packaging ?

○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ● No answer

Useful open science tools to do research in psychiatry

Randomizer.org

Collect data
Limesurvey



Analyse data

RStudio®

RStudio

File Edit Code View Project Workspace Plots Tools Help

Go to file/function

Project: (None)

diamondPricing.R* | formatPlot.R | diamonds

Source on Save | Source

```
1  library(ggplot2)
2  source("plots/formatPlot.R")
3
4  view(diamonds)
5  summary(diamonds)
6
7  summary(diamonds$price)
8  aveSize <- round(mean(diamonds$carat), 4)
9  clarity <- levels(diamonds$clarity)
10
11 p <- qplot(carat, price,
12             data=diamonds, color=clarity,
13             xlab="Carat", ylab="Price",
14             main="Diamond Pricing")
15
```

15:1 (Top Level) R Script

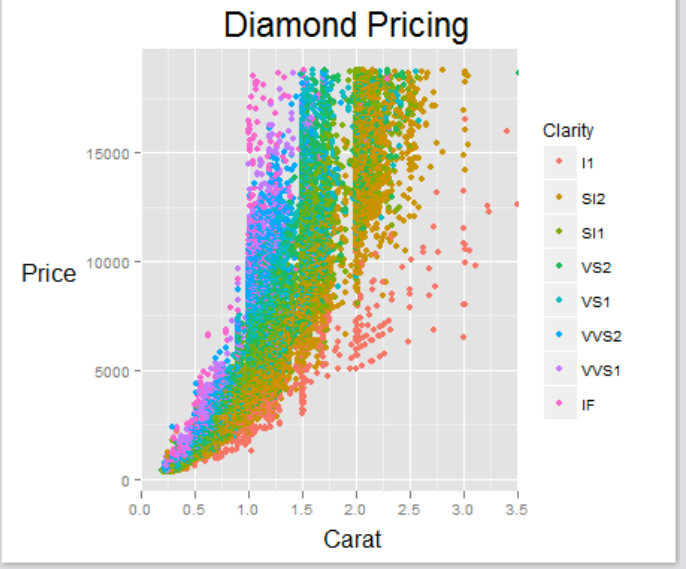
Workspace | History

Load | Save | Import Dataset | Clear All

Data	
diamonds	53940 obs. of 10 variables
Values	
aveSize	0.7979
clarity	character[8]
p	ggplot[8]
Functions	
format.plot(plot, size)	

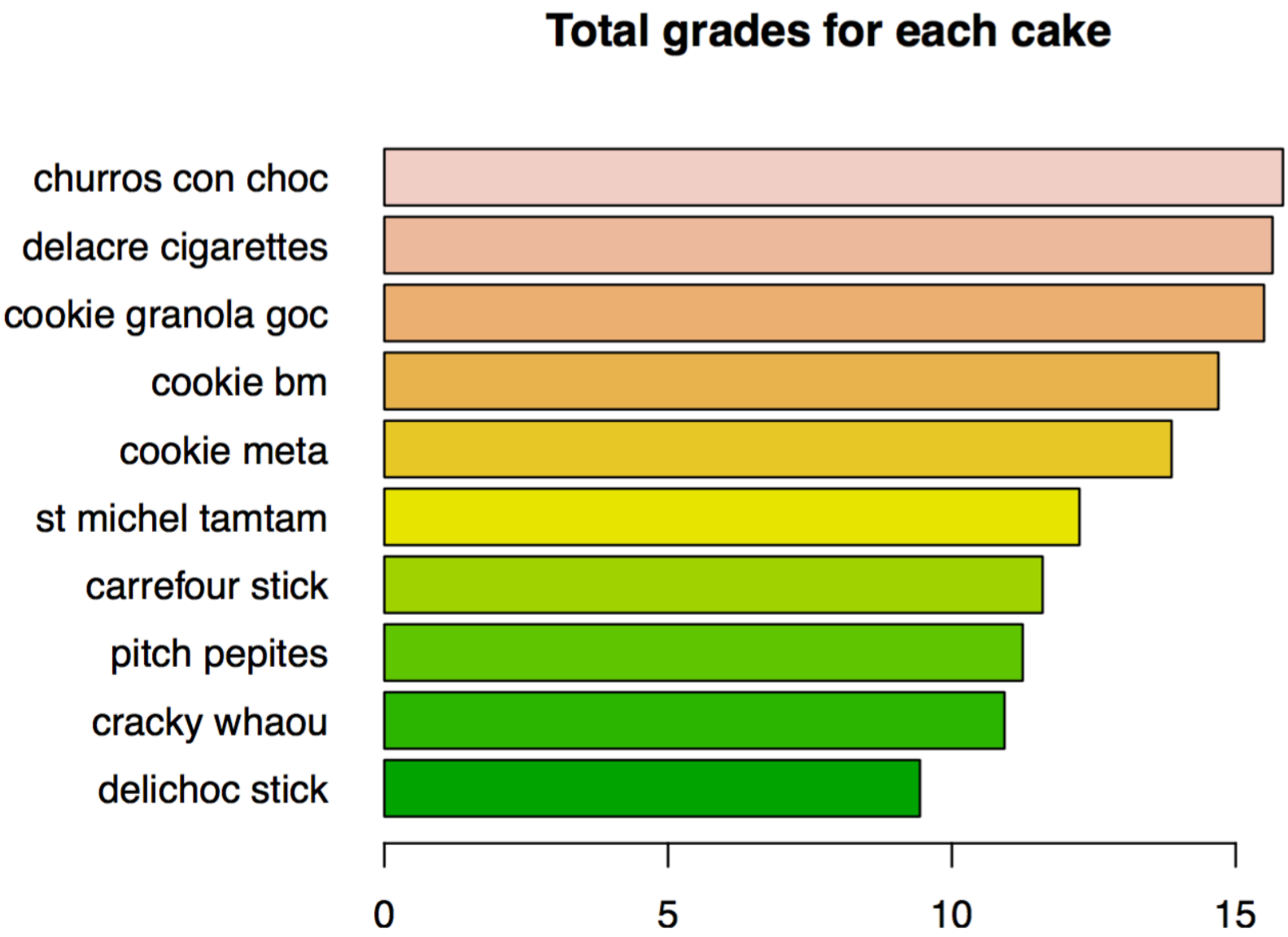
Files | Plots | Packages | Help

Zoom | Export | Clear All



Console ~/

```
       x                y                z
 Min.   : 0.000   Min.   : 0.000   Min.   : 0.000
 1st Qu.: 4.710   1st Qu.: 4.720   1st Qu.: 2.910
 Median : 5.700   Median : 5.710   Median : 3.530
 Mean   : 5.731   Mean   : 5.735   Mean   : 3.539
 3rd Qu.: 6.540   3rd Qu.: 6.540   3rd Qu.: 4.040
 Max.   :10.740   Max.   :58.900   Max.   :31.800
> summary(diamonds$price)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
    326     950    2401    3933    5324   18820
> aveSize <- round(mean(diamonds$carat), 4)
> clarity <- levels(diamonds$clarity)
> p <- qplot(carat, price,
+            data=diamonds, color=clarity,
+            xlab="Carat", ylab="Price",
+            main="Diamond Pricing")
>
> format.plot(p, size=24)
>
```


Total grades for each cake
churros con choc
delacre cigarettes
cookie granola goc
cookie bm
cookie meta
st michel tamtam
carrefour stick
pitch pepites
cracky whaou
delichoc stick
0
5
10
15

Connect Limesurvey with R ? : Shinyapps

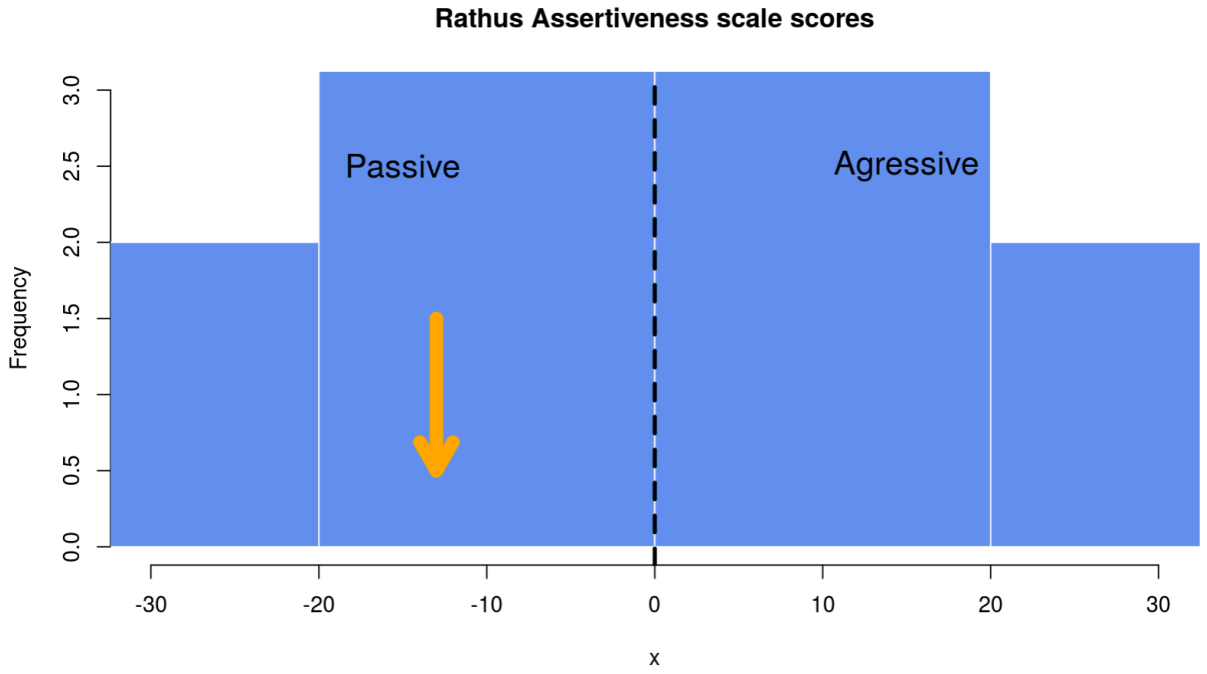
Assertiveness Rathus Scale

What is your pseudo ?

thog1

Number of observations to view:

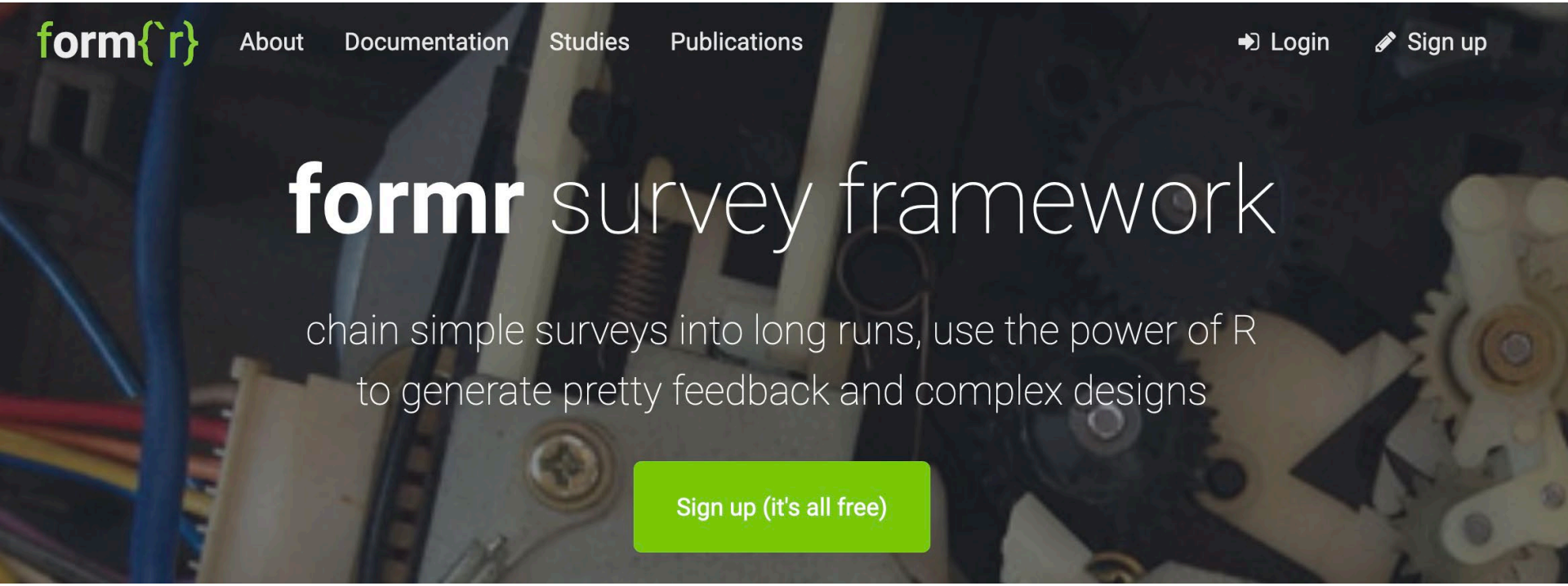
10




```
Your pseudo is thog1. Your score is -13. You are passive.
```

A score toward -90 is a sign than the subject has a lack of assertivity (passive style).

A score around 0 is found in normal assertive behaviour.


form{`r}
About
Documentation
Studies
Publications
Login
Sign up
formr survey framework
chain simple surveys into long runs, use the power of R
to generate pretty feedback and complex designs
Sign up (it's all free)

JASP

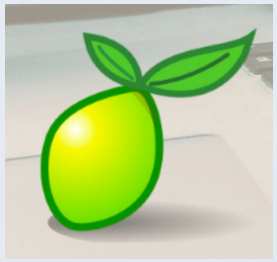
Python

- A little more fundamental and less user friendly, very used by computer scientists.
- Python has very large possibilities :
  - collect data during a psychological experiment with pygame
  - Data analysis
  - Code a robot
  - Make a website

Useful open science tools to do research in psychiatry

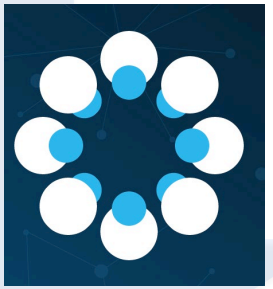
Randomizer.org

Collect data
Limesurvey



RStudio®

Analyse data



Share data
OSF and
GitHub

Git Hub

- Share data

This repository Search Pull requests Issues Gist

Ouphix / TCR

Unwatch 2 Star 0 Fork 1

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

The Cake Report https://thecakereportblog.wordpress.com/ — Edit

6 commits 1 branch 0 releases 2 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

AnneCha yann vous sauve la vie Latest commit 174c9af on 5 Apr

.RData	Rmarkdown v1	7 months ago
.Rhistory		7 months ago
README.md		7 months ago
TheCakeReport.Rmd		6 months ago
TheCakeReport.Rproj		6 months ago
TheCakeReport.pdf		6 months ago
carrefour stick.png		6 months ago

zenodo

CERN

OpenAIRE

CAPACITIES

GitLab

GitLab named a Leader in Cloud-Native CI

Learn why GitLab was evaluated as a Leader by independent research firm

Try GitLab for FREE

Watch a demo

READ THE FULL REPORT

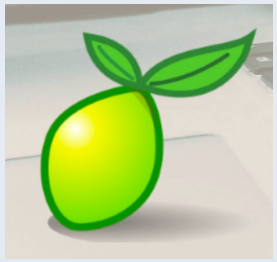
Open Science Framework

A scholarly commons to connect the entire research cycle

Useful open science tools to do research in psychiatry

Randomizer.org

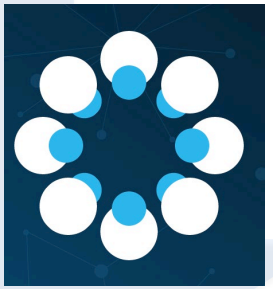
Collect data
Limesurvey



RStudio®

Analyse data

Share data
OSF and
GitHub



GitHub

equator network

Write an article

Equator Network

equator network

Enhancing the QUAlity and Transparency Of health Research

EQUATOR resources in Portuguese | Spanish

Home | Library | Toolkits | Courses & events | News | Blog | Librarian Network | About us | Contact

Essential resources for writing and publishing health research

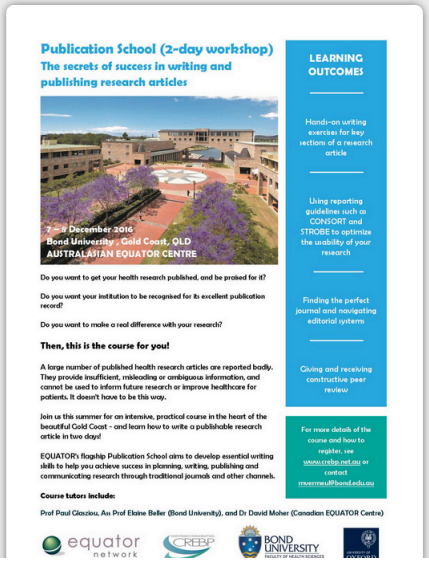
Library for health research reporting

The Library contains a comprehensive searchable database of reporting guidelines and also links to other resources relevant to research reporting.

- Search for reporting guidelines
- Not sure which reporting guideline to use?
- Reporting guidelines under development
- Visit the library for

Reporting guidelines for main study types

Randomised trials	CONSORT	Extensions	Other
Observational studies	STROBE	Extensions	Other
Systematic reviews	PRISMA	Extensions	Other
Case reports	CARE		Other
Qualitative research	SRQR	COREQ	Other
Diagnostic / prognostic studies	STARD	TRIPOD	Other
Quality improvement studies	SQUIRE		Other
Economic evaluations	CHEERS		Other
Animal pre-clinical studies	ARRIVE		Other
Study protocols	SPIRIT	PRISMA-P	Other



Collaborative writing

Overleaf PROJECT HISTORY & REVISIONS SHARE PDF JOURNALS & SERVICES SIGN UP SIGN IN

Source Rich Text Edit Find § B I π Preview Manual Auto up-to-date and saved

```
1  \documentclass[a4paper]{article}
2
3  %% Language and font encodings
4  \usepackage[english]{babel}
5  \usepackage[utf8x]{inputenc}
6  \usepackage[T1]{fontenc}
7
8  %% Sets page size and margins
9  \usepackage[a4paper,top=3cm,bottom=2cm,left=3cm,right=3cm,marginparwidth=1.75cm]
   {geometry}
10
11 %% Useful packages
12 \usepackage{amsmath}
13 \usepackage{graphicx}
14 \usepackage[colorinlistoftodos]{todonotes}
15 \usepackage[colorlinks=true, allcolors=blue]{hyperref}
16
17 \title{Your Paper}
18 \author{You}
19
20 \begin{document}
21 \maketitle
22
```

Your Paper

You

December 14, 2017

Abstract

Your abstract.

1 Introduction

Your introduction goes here! Some examples of commonly used commands and features are listed below, to help you get started. If you have a question, please use the help menu ("?") on the top bar to search for help or ask us a question.

2 Some examples to get started

2.1 How to add Comments

Comments can be added to your project by clicking on the comment icon in the toolbar above. To reply to a comment, simply click the reply button in the lower right corner of the comment, and you can close them when you're done.

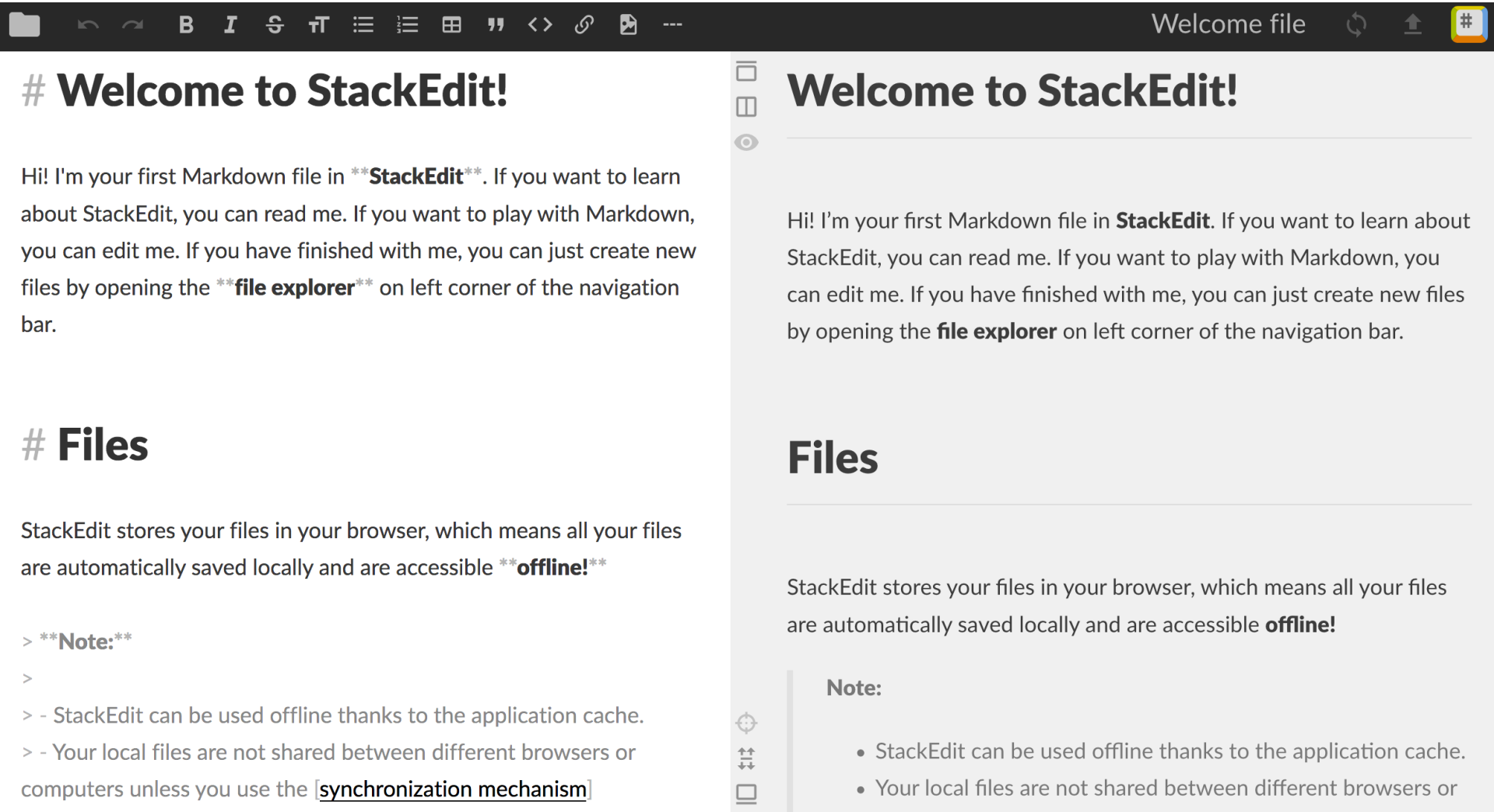
2.2 How to include Figures

First you have to upload the image file from your computer using the upload link the project menu. Then use the includegraphics command to include it in your document. Use the figure environment and the caption command to add a number and a caption to your figure. See the code for Figure 1 in this section for an example.

2.3 How to add Tables

Use the table and tabular commands for basic tables — see Table 1, for example.

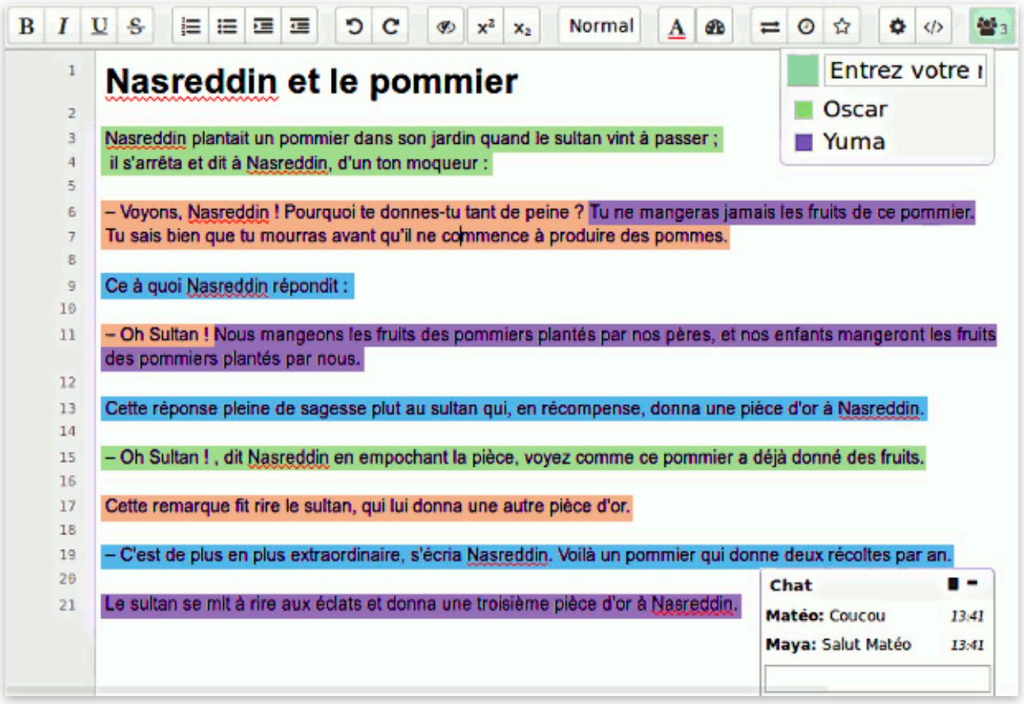
Figure 1: This frog was uploaded via the project menu.


Welcome file
Welcome to StackEdit!
Hi! I'm your first Markdown file in **StackEdit**. If you want to learn about StackEdit, you can read me. If you want to play with Markdown, you can edit me. If you have finished with me, you can just create new files by opening the **file explorer** on left corner of the navigation bar.
Files
StackEdit stores your files in your browser, which means all your files are automatically saved locally and are accessible **offline!**
> **Note:**
>
> - StackEdit can be used offline thanks to the application cache.
> - Your local files are not shared between different browsers or computers unless you use the [synchronization mechanism]
Welcome to StackEdit!
Hi! I'm your first Markdown file in StackEdit. If you want to learn about StackEdit, you can read me. If you want to play with Markdown, you can edit me. If you have finished with me, you can just create new files by opening the file explorer on left corner of the navigation bar.
Files
StackEdit stores your files in your browser, which means all your files are automatically saved locally and are accessible offline!
Note:
• StackEdit can be used offline thanks to the application cache.
• Your local files are not shared between different browsers or

Framapad

Language

Collaborating online has never been easier



How does it work?

- Create a pad.
- Start to **write** your text
- and **invite** your collaborators.
- Each participant is distinguished by a **color**
- and can **chat** with the group.
- If necessary, restore an old version from **history**
- and when your work is done, **export** it.

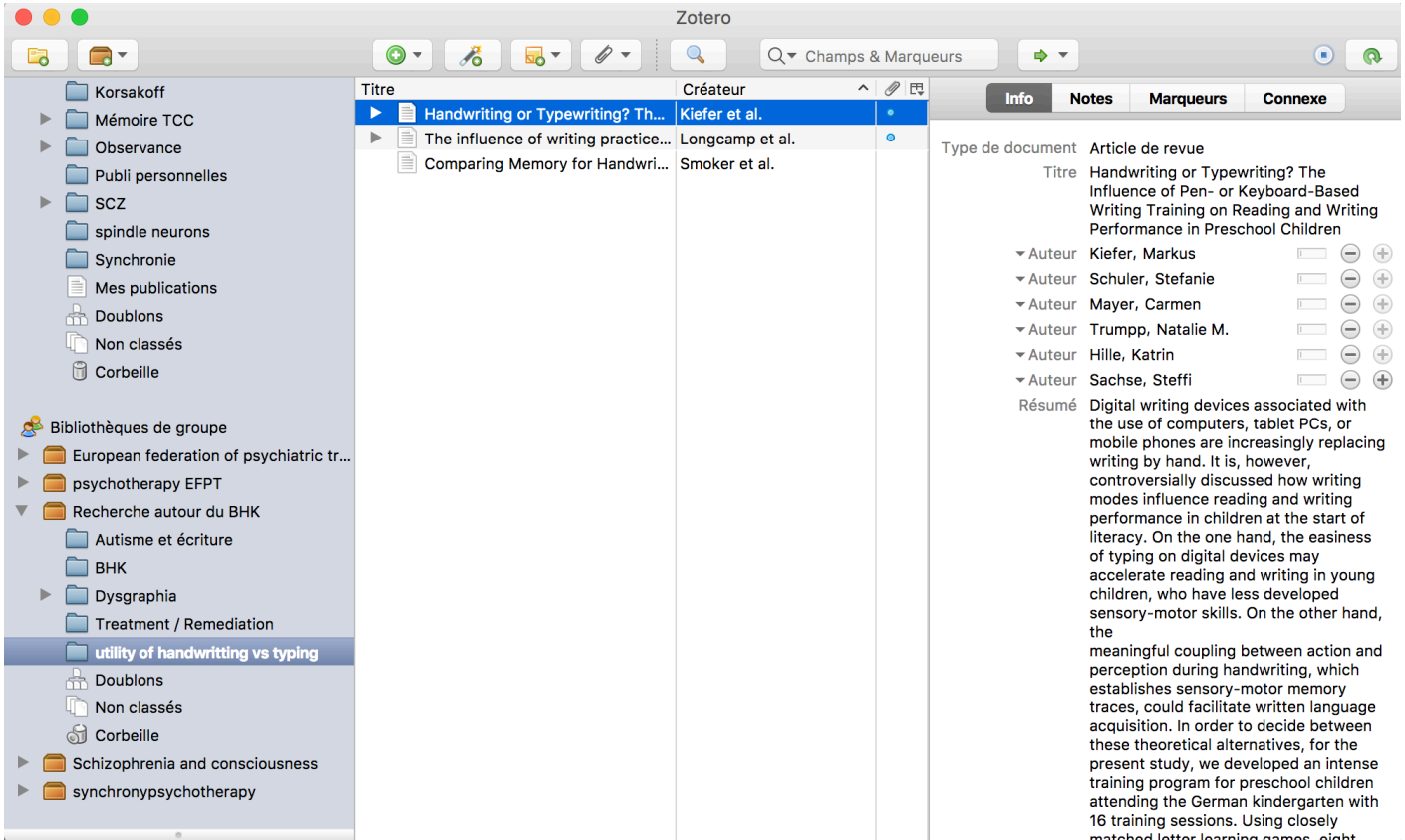
Want a demonstration?

Sharing files in a synchronized way

and doing instant messaging and video calls

zotero

- Select, gather, write and share bibliography



New ways to publish ?

ArXiv : Preprints

bioRxiv beta

PsyArXiv

SOC ARXIV
Open archive of the social sciences

Cold Spring Harbor Laboratory

bioRxiv

THE PREPRINT SERVER FOR BIOLOGY

HOME | ABO

Search

bioRxiv is receiving many new papers on coronavirus SARS-CoV-2. A reminder: these are preliminary reports that have not beer
practice/health-related behavior, or be reported in news media as established information.

New Results

4 comments

A human monoclonal antibody blocking SARS-CoV-2 infection

Chunyan Wang, Wentao Li, Dubravka Drabek, Nisreen M.A. Okba, Rien van Haperen, Albert D.M.E. Osterhaus, Frank J.M. van Kuppeveld, Bart L. Haagmans, Frank Grosveld, Berend-Jan Bosch

doi: https://doi.org/10.1101/2020.03.11.987958

This article is a preprint and has not been certified by peer review [what does this mean?].

Abstract Full Text **Info/History** Metrics Preview PDF

ARTICLE INFORMATION

doi https://doi.org/10.1101/2020.03.11.987958

History March 12, 2020.

Copyright The copyright holder for this preprint is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under a CC-BY-NC-ND 4.0 International license.

AUTHOR INFORMATION

Chunyan Wang [a **], **Wentao Li** [a **], **Dubravka Drabek** [b c **], **Nisreen M.A. Okba** [d], **Rien van Haperen** [b c], **Albert D.M.E. Osterhaus** [e], **Frank J.M. van Kuppeveld** [a], **Bart L. Haagmans** [d], **Frank Grosveld** [b c $] **and Berend-Jan Bosch** [a * $]

HAL

One journal found when searched for: **european psychiatry**

Journal:	European Psychiatry [1] (ISSN: 0924-9338, ESSN: 1778-3585)
RoMEO:	This is a RoMEO **green** journal
Paid OA:	A paid open access option is **available** for this journal.

Author's Pre-print:	✓ author **can** archive pre-print (ie pre-refereeing)
Author's Post-print:	✓ author **can** archive post-print (ie final draft post-refereeing)
Publisher's Version/PDF:	✗ author **cannot** archive publisher's version/PDF
General Conditions:	• Authors pre-print on any website, including arXiv and RePEC • Author's post-print on author's personal website immediately • Author's post-print on open access repository after an embargo period of 12 months • Permitted deposit due to Funding Body, Institutional and Governmental policy or mandate, may be required to comply with embargo period of 12 months • Author's post-print may be used to update arXiv and RepEC • Publisher's version/PDF cannot be used • Must link to publisher version with DOI • Author's post-print must be released with a Creative Commons Attribution Non-Commercial No Derivatives License

Badges

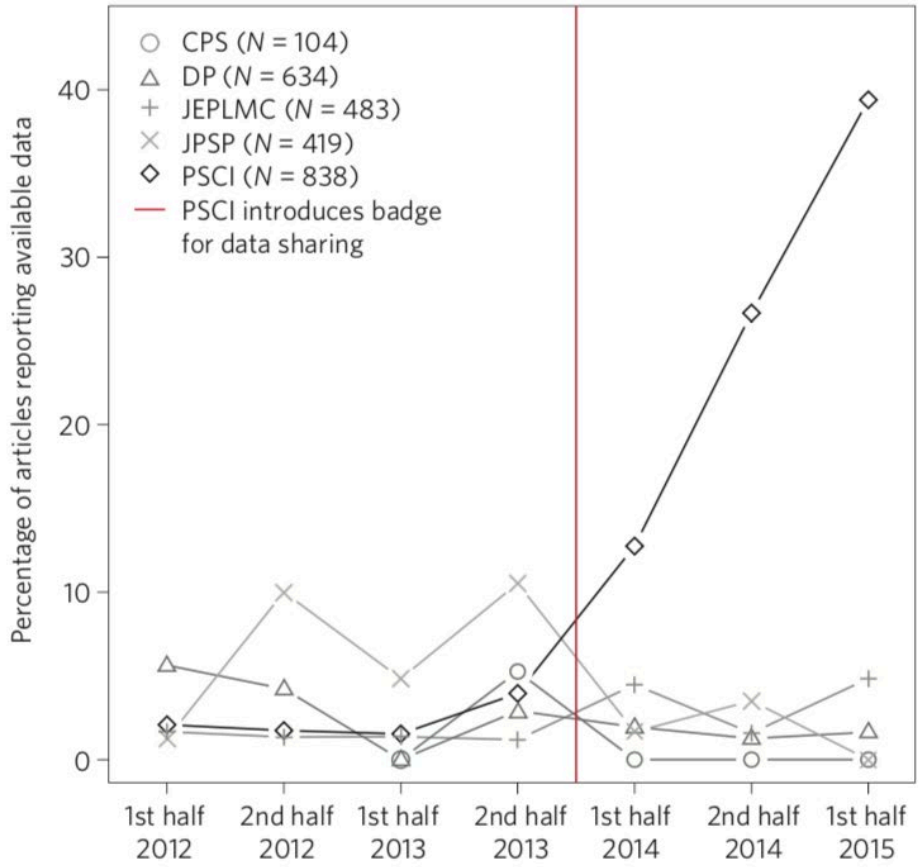
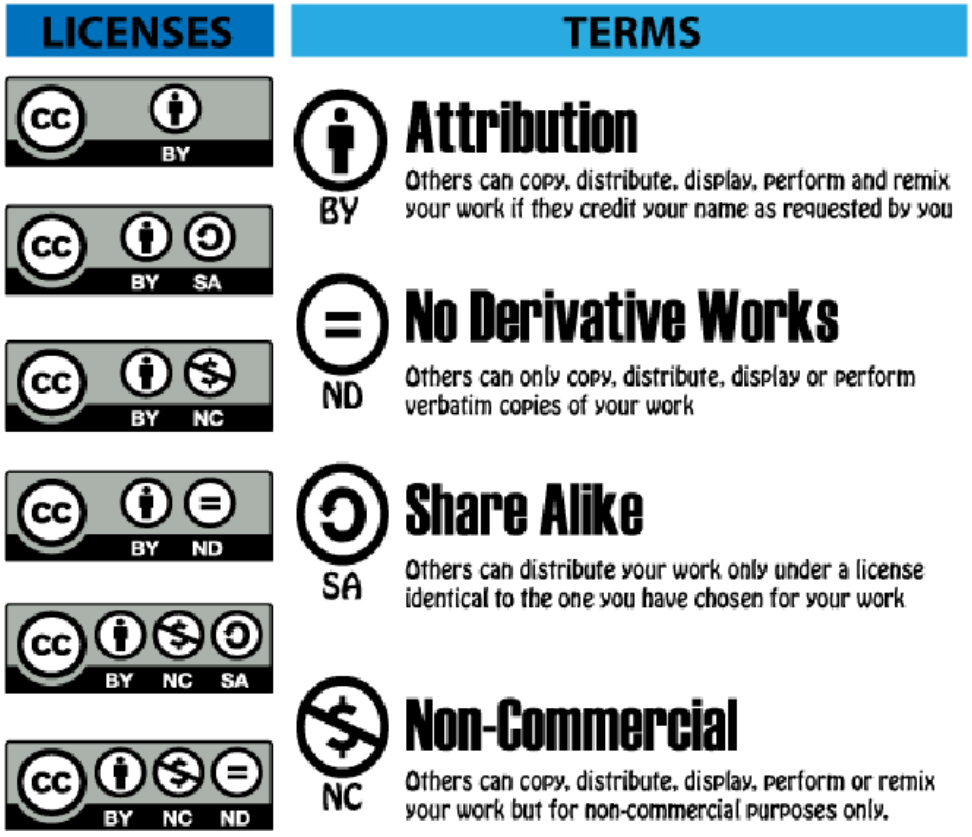


Figure 2 | The impact of introducing badges for data sharing. In January 2014, the journal *Psychological Science* (PSCI) introduced badges for articles with open data. Immediately afterwards, the proportion of articles with open data increased steeply, and by October 2015, 38% of articles in *Psychological Science* had open data. For comparison journals (*Clinical Psychological Science* (CPS), *Developmental Psychology* (DP), *Journal of Experimental Psychology: Learning, Memory and Cognition* (JEPLMC) and *Journal of Personality and Social Psychology* (JPSP)) the proportion of articles with open data remained uniformly low. Figure adapted from ref. 75, PLoS.

License

Creative commons

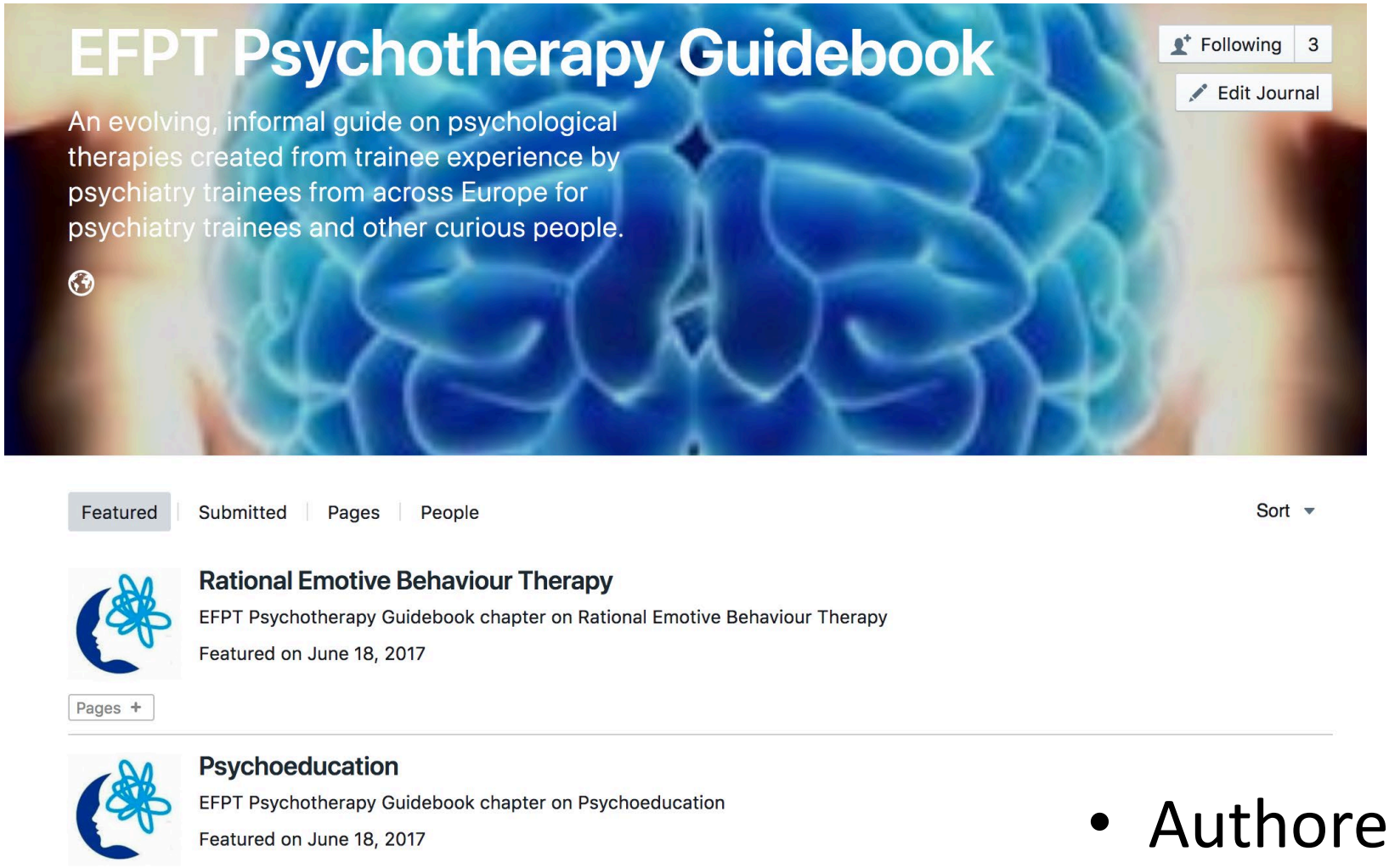


ORCID

Connecting research and researchers

Distinguish yourself in three easy steps

https://www.pubpub.org/



- Authorea

And after publication ?

PUBPEER
The online Journal club

DOI, PMID, arXiv ID, keyword, autl

Home / Publications

Hydroxychloroquine and Azithromycin as a treatment of COVID-19: preliminary results of an open-label non-randomized clinical trial

bioRxiv (2020) - 38 Comments
issn: 0924-8579 doi: 10.1101/2020.03.16.20037135

Philippe GAUTRET, Jean Christophe LAGIER, Philippe PAROLA, Van Thuan HOANG, Line MEDDED, Morgan MAILHE, Barbara DOUDIER, Johan COURJON, Valerie GIORDANENGO, Vera ESTEVES VIEIRA, Herve TISSOT DUPONT, Stephane HONORE, Philippe COLSON, Eric CHABRIERE, Bernard LA SCOLA, Jean Marc ROLAIN, Philippe BROUQUI, Didier RAOULT

#2 David C. Norris commented 4 days ago

1. Those NEG test results in Supplementary Table 1 which I have highlighted in pink below would seem to be **false negatives** (FN), as positive results follow on subsequent days. A reanalysis with these FN's imputed as POS seems indicated.

Supplementary Table 1.

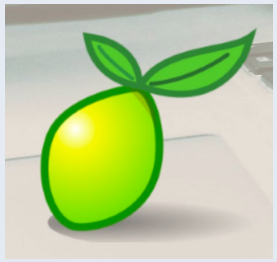
Patient	Age (years)	Sex	Clinical status	Time between onset of symptoms and inclusion (days)	Hydroxychloroquine treatment	Hydroxychloroquine serum concentration µg/ml (day of dosage)	Azithromycin treatment	D0	D1	D2	D3	D4	D5	D6
1	10	M	Asymptomatic	-	No	-	No	31	NEG	NEG	NEG	NEG	NEG	NEG
2	12	F	Asymptomatic	-	No	-	No	26	ND	33	34	NEG	34	NEG
3	14	F	Asymptomatic	-	No	-	No	26	31	23	22	27	NEG	26
4	10	M	Asymptomatic	-	No	-	No	24	NEG	33	33	NEG	NEG	32
5	20	M	URTI	4	No	-	No	24	24	24	27	NEG	31	29
6	65	F	URTI	2	No	-	No	POS	ND	POS	ND	POS	ND	POS
7	46	M	URTI	Unknown	No	-	No	28	ND	ND	ND	26	ND	30
8	69	M	LRTI	2	No	-	No	POS	ND	POS	ND	POS	POS	POS
9	62	F	LRTI	10	No	-	No	POS	ND	POS	ND	POS	ND	POS
10	66	F	URTI	0	No	-	No	POS	ND	POS	ND	ND	ND	POS
11	75	F	URTI	3	No	-	No	POS	ND	POS	ND	POS	ND	ND
12	23	F	URTI	5	No	-	No	ND	ND	POS	ND	POS	ND	ND
13	45	F	URTI	Unknown	No	-	No	POS	ND	POS	ND	POS	ND	POS
14	16	M	URTI	2	No	-	No	POS	ND	POS	ND	ND	POS	ND
15	42	F	URTI	5	No	-	No	ND	ND	ND	POS	ND	POS	ND
16	23	F	URTI	6	No	-	No	POS	ND	ND	ND	ND	POS	ND

Share to general public

Useful open science tools to do research in psychiatry

Randomizer.org

Collect data
Limesurvey



Analyse data

Share data
OSF and
GitHub

Write an article

Make the knowledge more visible

WIKIPEDIA
The Free Encyclopedia

Main page
Contents
Featured content
Current events
Random article
Donate to Wikipedia
Wikipedia store

Interaction
Help
About Wikipedia
Community portal
Recent changes
Contact page

Tools
What links here
Related changes
Upload file
Special pages
Permanent link
Page information

Biscuit

From Wikipedia, the free encyclopedia

See also: Biscuit (bread) and Cookie
For other uses, see Biscuit (disambiguation).

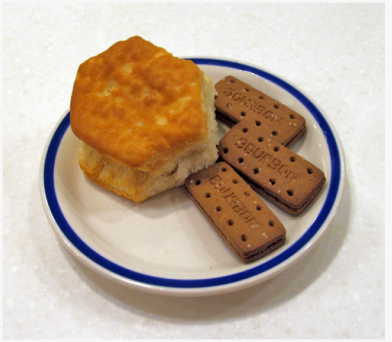
This article **may lack focus or may be about more than one topic**. Please help improve this article, possibly by splitting the article and/or by introducing a disambiguation page, or discuss this issue on the talk page. *(May 2016)*

Biscuit is a term used for a diverse variety of baked, commonly flour-based food products. The term is applied to two distinct products in North America and the Commonwealth of Nations and Europe. The North American biscuit is typically a soft, leavened quick bread, and is covered in the article Biscuit (bread). This article covers the other type of biscuit, which is typically hard, flat and unleavened.

Contents [hide]

1 Variations in meaning
2 Etymology
3 History
3.1 Biscuits for travel
3.2 Confectionery biscuits
4 Biscuits today
4.1 Commonwealth of Nations and Europe

Biscuit



American biscuit (left) and one variety of British biscuit (right) – the American biscuit is

https://en.wikipedia.org/

WIKIPEDIA
The Free Encyclopedia

Main page
Contents
Featured content
Current events
Random article
Donate to Wikipedia
Wikipedia store

Interaction
Help
About Wikipedia
Community portal
Recent changes
Contact page

Tools
What links here
Related changes
Upload file
Special pages
Permanent link
Page information

Biscuit

From Wikipedia, the free encyclopedia

See also: Biscuit (bread) and Cookie
For other uses, see Biscuit (disambiguation).

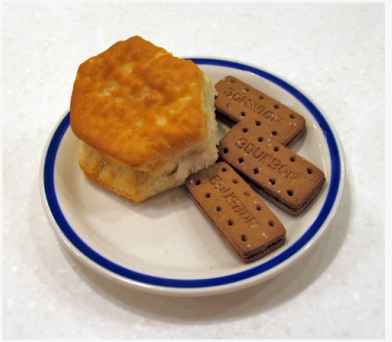
This article **may lack focus or may be about more than one topic**. Please help improve this article, possibly by splitting the article and/or by introducing a disambiguation page, or discuss this issue on the talk page. *(May 2016)*

Biscuit is a term used for a diverse variety of baked, commonly flour-based food products. The term is applied to two distinct products in North America and the Commonwealth of Nations and Europe. The North American biscuit is typically a soft, leavened quick bread, and is covered in the article Biscuit (bread). This article covers the other type of biscuit, which is typically hard, flat and unleavened.

Contents [hide]

1 Variations in meaning
2 Etymology
3 History
3.1 Biscuits for travel
3.2 Confectionery biscuits
4 Biscuits today
4.1 Commonwealth of Nations and Europe

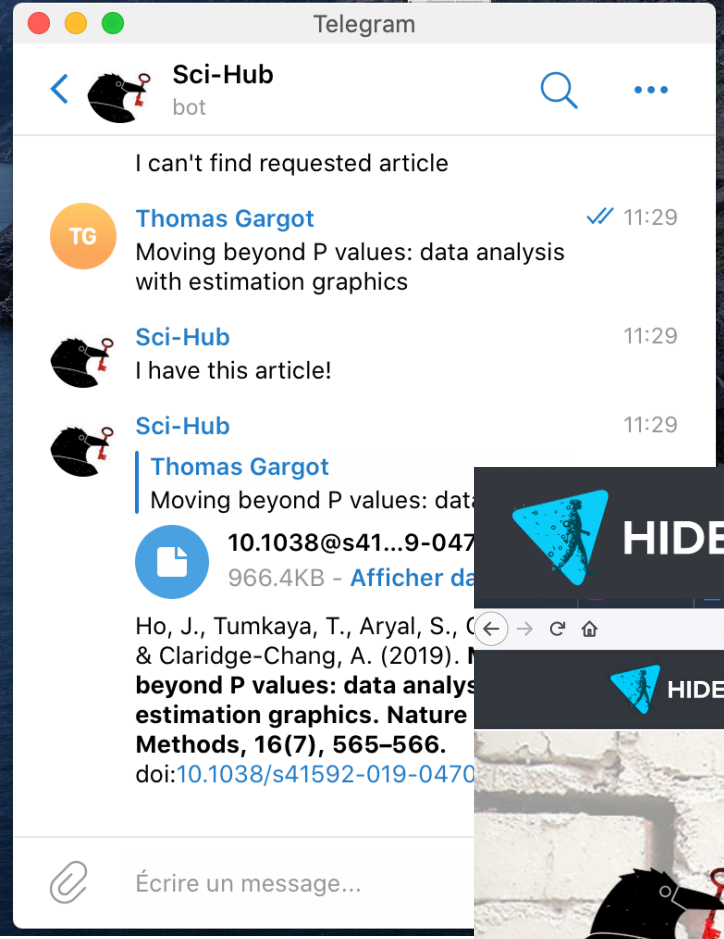
Biscuit



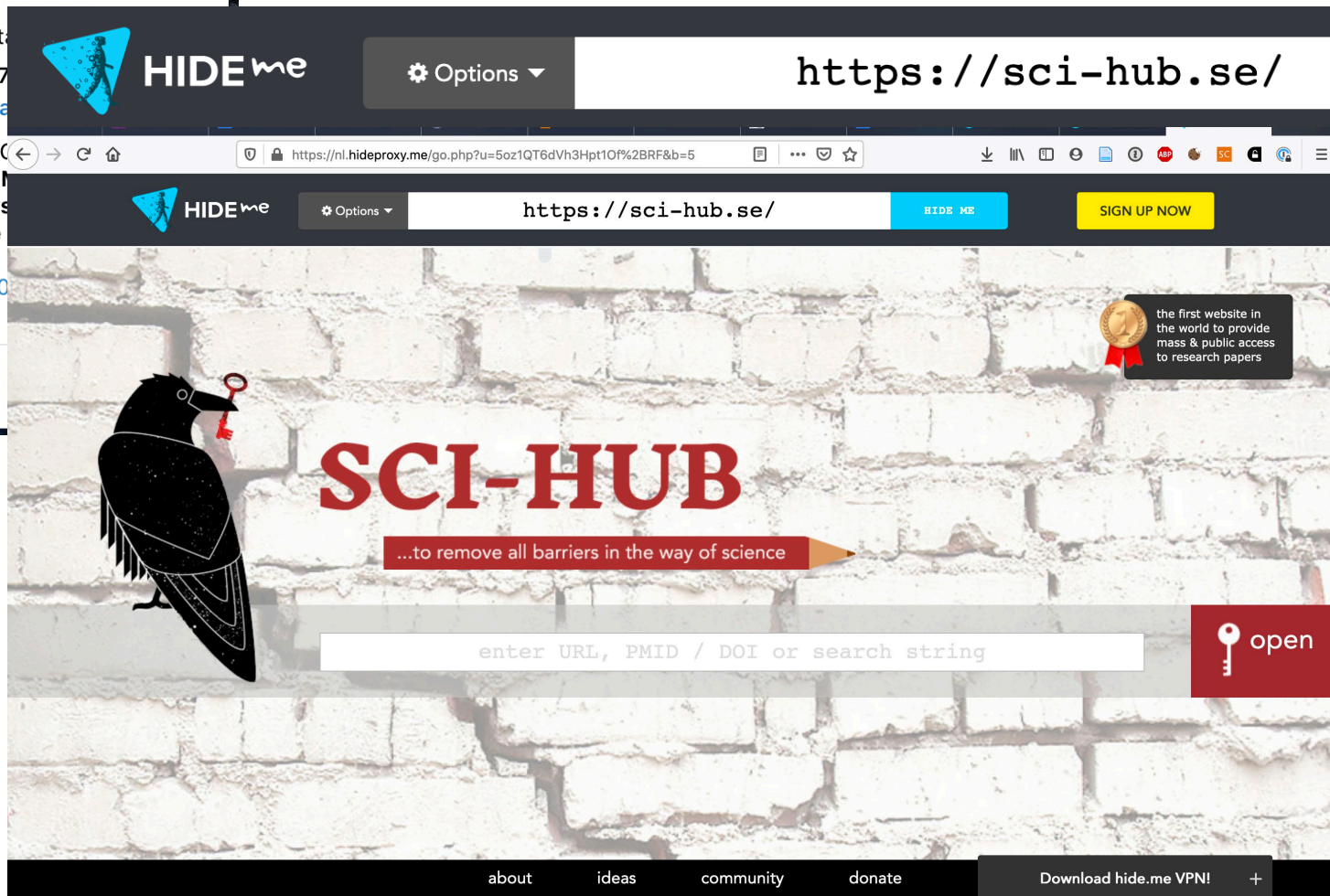
American biscuit (left) and one variety of British biscuit (right) – the American biscuit is

https://en.wikipedia.org/

WordPress.org
Search WordPress.org
Showcase
Themes
Plugins
Mobile
Support
Get Involved
About
Blog
Hosting
Download WordPress
Meet WordPress
WordPress is open source software you can use to create a beautiful website, blog, or app.
European Federation of Psychiatric Train...
0
New
Security
Hi, Thomas Gargot
Dashboard
Jetpack
Posts
All Posts
Add New
Categories
Tags
Media
Pages
Comments
Events
Feedback
Screen Options
Help
Add a New Post
Wordfence could not get an API key from the Wordfence scanning servers when it activated. You can try to fix this by going to the Wordfence "options" page and hitting "Save Changes". This will cause Wordfence to retry fetching an API key for you. If you keep seeing this error it usually means your WordPress server can't connect to our scanning servers. You can try asking your WordPress host to allow your WordPress server to connect to noc1.wordfence.com.
Enter title here
Add Media
Add Contact Form
Visual
Text
b
i
link
b-quote
del
ins
img
ul
ol
li
code
more
close tags
contact form
proofread
Publish
Save Draft
Preview
Status: Draft Edit
Visibility: Public Edit
Publish immediately Edit
Publicise: Not Connected
Show
Publish

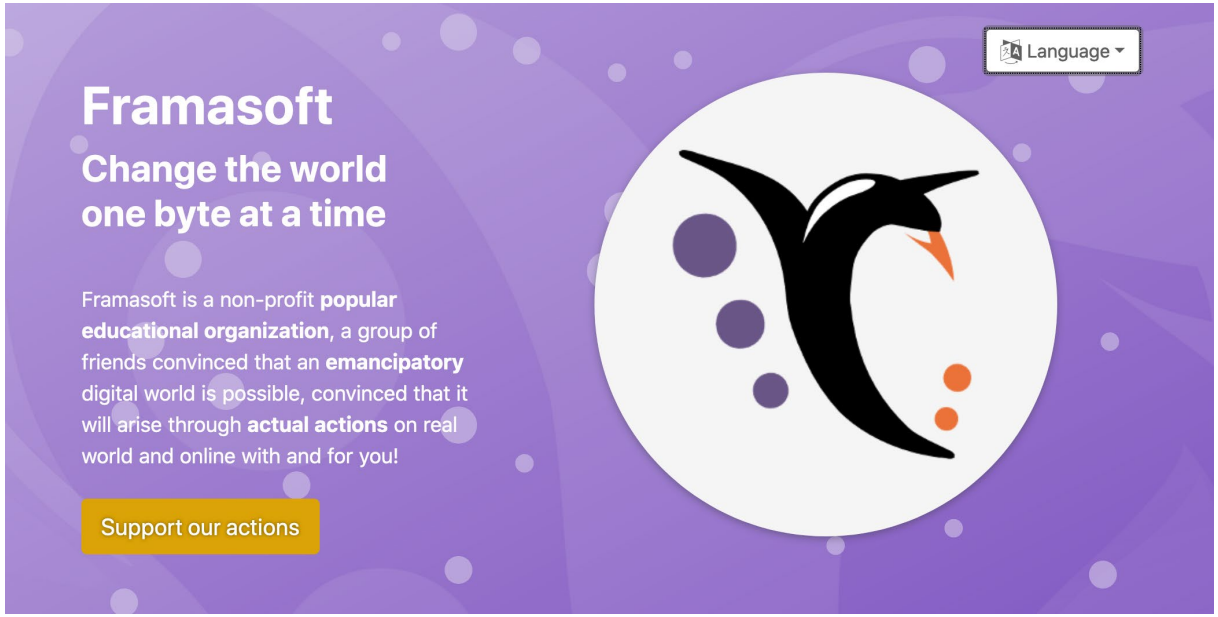


Article access



Visio conference

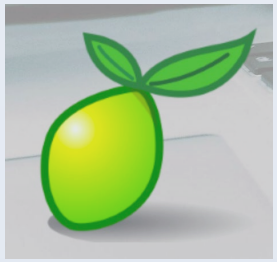
https://meet.jit.si/



Useful open science tools to do research in psychiatry

Randomizer.org

Collect data :
Limesurvey



RStudio®

Analyse data

Share data
OSF and
GitHub

equator
network

Write an article

Make the knowledge more visible

Dear Dr. Gargot,

Allow me to respond in place of Adam, as your request touches some association-specific issues.

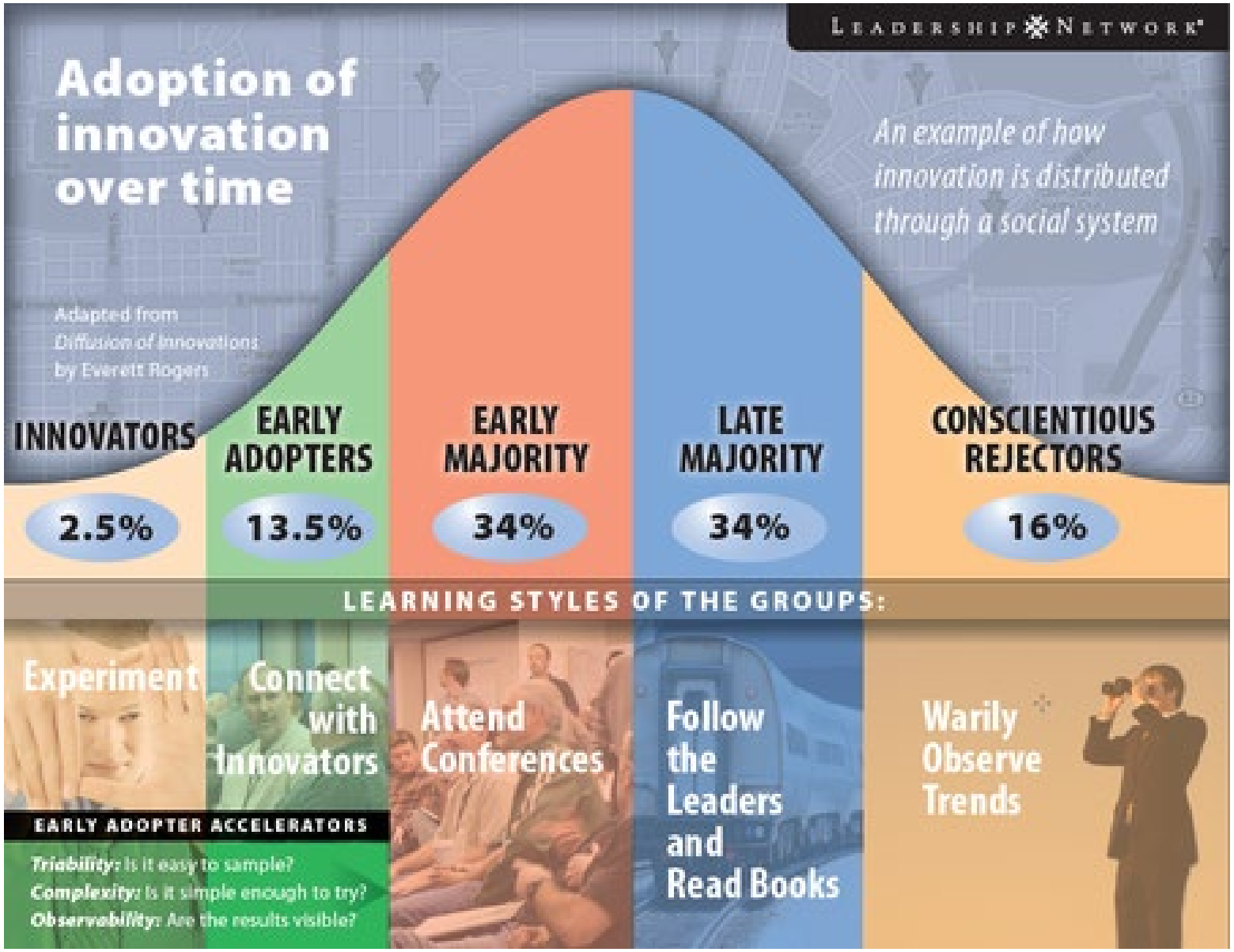
While we do appreciate the logic of making a course on open science accessible to all, I'm sure you can understand that as EPA Courses require a fee for attendance, it may seem slightly unfair to paying participants to provide these course materials to all delegates.

However, perhaps a compromise could be to make the slides freely available within the ECP-themed pages of the EPA website *after* the congress?

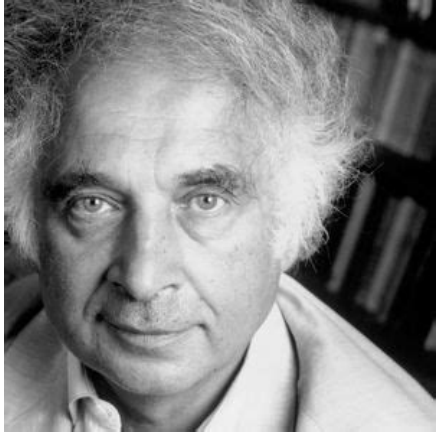
Best regards,

Meaghan Dreyer
Project Manager - Congress and Communication

Open science
Flexitarian ?


LEADERSHIP NETWORK
Adoption of innovation over time
An example of how innovation is distributed through a social system
Adapted from Diffusion of Innovations by Everett Rogers
INNOVATORS
2.5%
EARLY ADOPTERS
13.5%
EARLY MAJORITY
34%
LATE MAJORITY
34%
CONSCIENTIOUS REJECTORS
16%
LEARNING STYLES OF THE GROUPS:
Experiment
Connect with Innovators
Attend Conferences
Follow the Leaders and Read Books
Warily Observe Trends
EARLY ADOPTER ACCELERATORS
Triability: Is it easy to sample?
Complexity: Is it simple enough to try?
Observability: Are the results visible?

Minority Influence



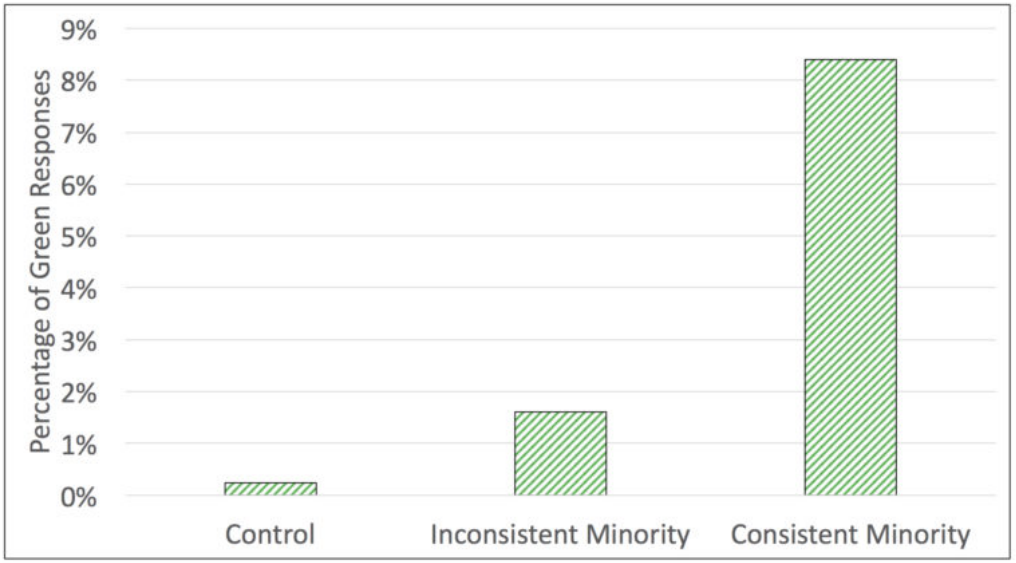
Moscovici (1969)

1. **Consistency**: The minority must be consistent in their opinion

2. Confidence in the correctness of ideas and views they are presenting

3. Appearing to be unbiased

4. Resisting social pressure and abuse



To learn more

- http://open-neuro.org/program/

Thank you for your attention

Hack Your Research

thomas_gargot@hotmail.com