

How to open your data responsibly

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Management**



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DENMARK



Member of the Open Science Expert Group

AGENDA

- The need – and promise - of more open data
- What is data?
- Repositories – the platforms for open data
- FAIR – a framework to evaluate (more than) open data
- What to share?
- Facilitating reuse through a license
- A complete guide for irresponsibility
- Exploring further options
- Data go live



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THE OPEN DATA AGENDA

“As open as possible,
as restricted as
necessary”

L 172/56

EN

Official Journal of the European Union

26.6.2019

DIRECTIVE (EU) 2019/1024 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on open data and the re-use of public sector information (recast)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 114 thereof,

Having regard to the proposal from the European Commission,



National strategy for data management based on the FAIR principles

SPRINGER NATURE

Authors



Research data policies

Research Data Policies

- Data policy types
- Data availability statements
- Data policy FAQs
- Data repository guidance
- Research Data Helpdesk

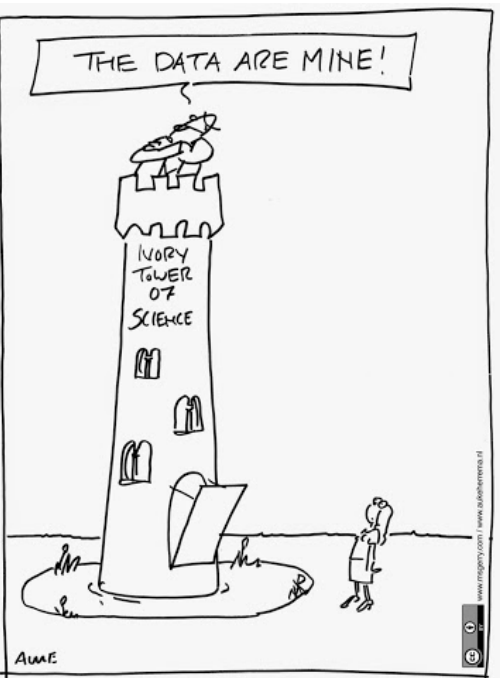
Research Data Policies

At Springer Nature we want to enable all of our authors and researchers to share their data, which includes achieving community best practices in the field. We also aim to facilitate compliance with research funder and institutional data.

To help accomplish this we provide a set of standardised research data policies that can be easily adopted by journals.

These policies:

on the draft legisla
the opinion of the
the Committee of



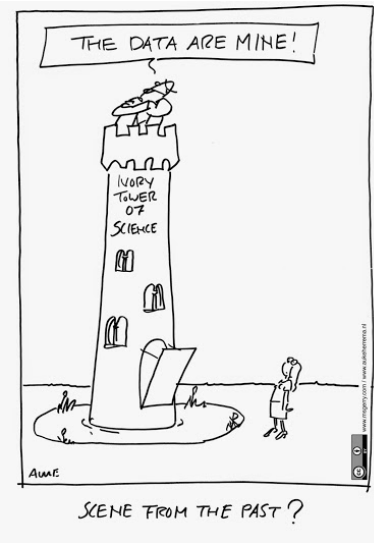
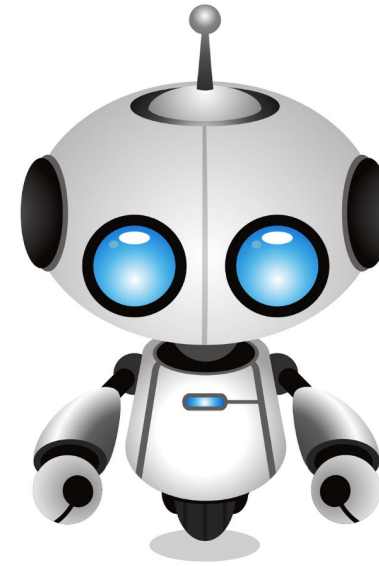
SCENE FROM THE PAST?



DATA SHARING

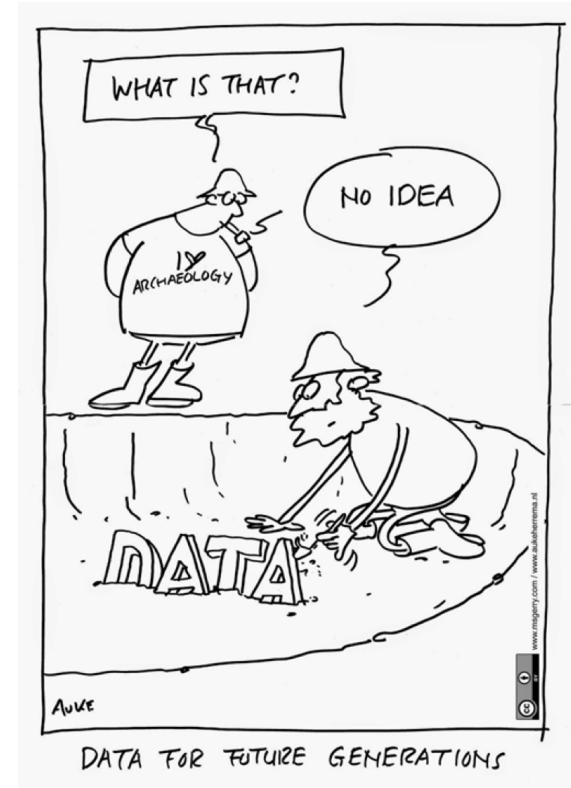
#PLEASEDONTSTEALMYWORK

THE OPEN DATA AGENDA



- Journal paper
- Equipment
- Citations
- Protocol
- Person
- Dataset
- Project
- Institution
- Grant

THE OPEN DATA AGENDA



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WHAT IS DATA?

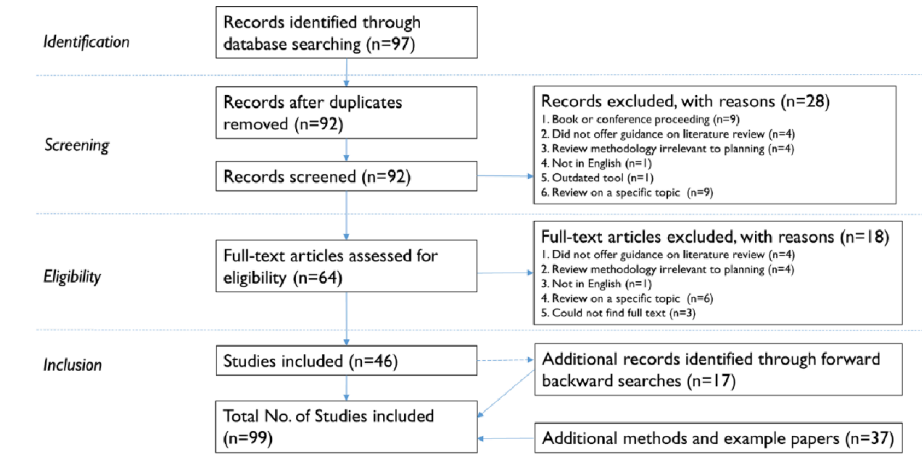
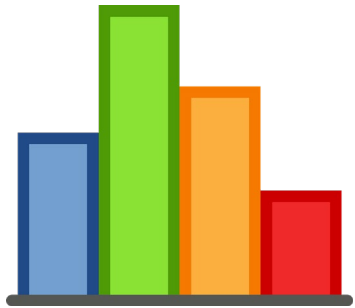


Figure from: Xiao, Y., & Watson, M. (2019). Guidance on Conducting a Systematic Literature Review. *Journal of Planning Education and Research*, 39(1), 93-112. <https://doi.org/10.1177/0739456X17723971>



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October 16, 2022

A large-scale COVID-19 Twitter stream for open scientific research - a collaboration

Bandu, Juan M.; Tekumalla, Ramya; Wang, Guanyu; Yu, Jingyuan; Liu, T. Elena; Chowell, Gerardo

Version 136 of the dataset. MAJOR CHANGE NOTE: The dataset files: full_dataset have been split in 1 GB parts using the Linux utility called Split. So make sure make this change as we had huge issues uploading files larger than 2GB's (the peer-reviewed publication for this dataset has now been published in Epidemiology here: <https://doi.org/10.3390/epidemiologia2030024>. Please cite this when using the dataset.

Due to the relevance of the COVID-19 global pandemic, we are releasing our Twitter Stream related to COVID-19 chatter. Since our first release we have had collaborators, allowing this resource to grow to its current size. Dedicated to yielding over 4 million tweets a day. We have added additional data provided from 27th to March 27th, to provide extra longitudinal coverage. Version 10 adds language collected between January 1st and May 8th, gracefully provided by Elena Tutubalina (KFU). From version 12 we have included daily hashtags, and the respective zip files. From version 14 we have included the tweet identifier and clean version of the dataset. Since version 20 we have included language

The data collected from the stream captures French. We release all tweets and retweets of French. We release all tweets and retweets of French. We release all tweets and retweets of French.

More details can be found (and will be updated pre-print about the dataset (<https://arxiv.org/abs/2005.01232>)). As always, the tweets distributed here are on conditions of Twitter to re-distribute Twitter

Search all beacons for allele

GRCh37 13 : 32936732 G > C Search

Response	All	None
<input checked="" type="checkbox"/> Found	8	
<input type="checkbox"/> Not Found	32	
<input type="checkbox"/> Not Applicable	42	

Access	All	None
<input checked="" type="checkbox"/> Controlled	1	
<input checked="" type="checkbox"/> Public	01	

[Log in with Science ID](#) to search controlled access beacons

- BRCA Exchange**
Hosted by BRCA Exchange Show Metadata Found
- Cafe Variome** Found



NCI Clinical Trials Search API

For information on NCI's efforts to improve how patients and oncologists find information and learn about cancer clinical trials please visit: <https://www.cancer.gov/syndication/api>

Fetching Daily Updates

Updates to the API are made daily (the refresh occurs each morning at 7:30 AM ET). Unfortunately, the API does not do a diff to track changes, and there is no one field in the underlying database (which the API taps into) which captures when a trial has been modified. Future modifications to the database architecture are being scheduled to change this by adding date_created and date_updated fields to each table.

Until these updates are made, the best field to use to see which trials have possibly been changed in the past 24 hours is the record_verification_date field. This field is updated whenever a human auditor verifies a clinical trial record. It is important to note that verification does not necessarily imply that a change was made to the clinical trial record, simply that an auditor took another look at it - but this is inclusive of any instances where the auditor made modifications to the trial.

As an example, to see which clinical trials have been verified by an auditor since 2016-08-25...

Example: [clinical-trials?record_verification_date_gte=2016-08-25](https://www.cancer.gov/syndication/api/clinical-trials?record_verification_date_gte=2016-08-25)

For the time-being, if you simply wish to track when a trial has changed its status, the current_trial_status_date field might be more helpful...

Example: [clinical-trials?current_trial_status_date_gte=2016-08-25](https://www.cancer.gov/syndication/api/clinical-trials?current_trial_status_date_gte=2016-08-25)

Issues

Please ask questions or report issues to ctr_support@mail.nih.gov

Clinical trials

Method	Endpoint	Action
GET	/v1/clinical-trial/{id}	Get Trial
GET	/v1/clinical-trials	Search Trials by GET
POST	/v1/clinical-trials	Search Trials by POST

Interventions

Terms

Diseases

Google search for covid-19 results on data.world

100+ data sets found

- Coronavirus (Covid-19) Data in the United States**
github.com www.openicpsr.org +4more
csv
- Coronavirus Disease (COVID-19) - the data**
ourworldindata.org
csv
- COVID-19 Data portal statistics**
www.covid19dataportal.org
Updated Apr 19, 2020
- Data from: COVID-19 in Germany**
data.world
csv, zip
Updated Oct 11, 2022

Data from: COVID-19 in Germany
COVID-19 cases and deaths in Germany
Related Article

Explore at data.world

zip, csv

Data set updated
Oct 11, 2022

Dataset provided by
data.world, Inc.

Authors
Liz Friedman

Time period covered
Mar 2, 2020 - Oct 10, 2022

Description
Software engineer Jan-Philip Gehrcke has consolidated COVID-19 data from several sources into standardized csv files. These include:

- counts of cases and deaths from the Robert Koch-Institut (RKI), updated daily
 - cases-rki-by-ags
 - cases-rki-by-state

WE WANT DATA IN REPOSITORIES

Generic

They don't

zenodo

 MENDELEY DATA

 figshare

Domain specific

They care

 **GBIF** | Global Biodiversity Information Facility

WormBase

CLARIN 

WE WANT DATA IN REPOSITORIES

Generic



Domain specific

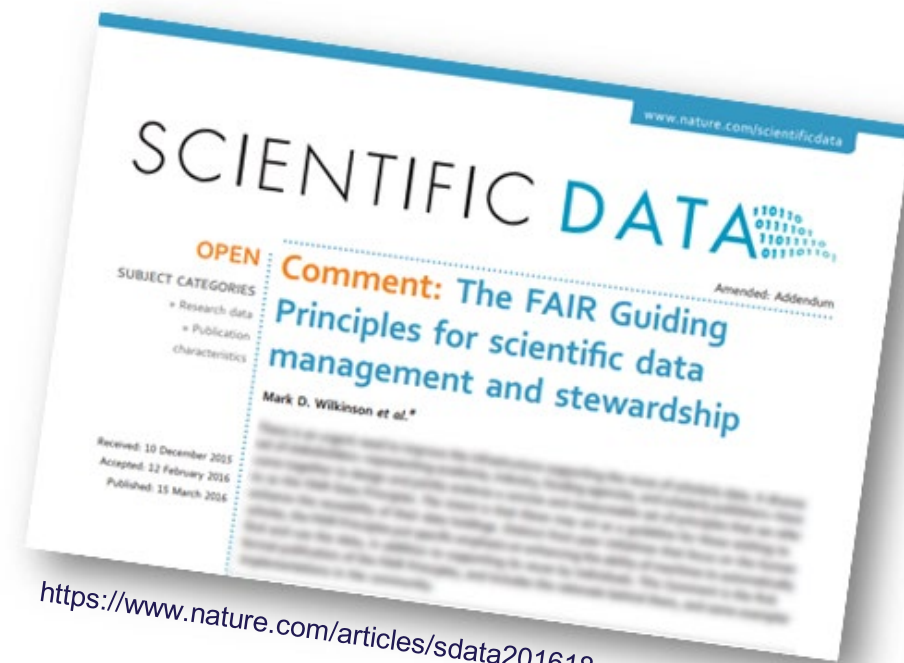


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... WITH CERTAIN CHARACTERISTICS



FAIR does not equal open!

PLAN AND INVESTIGATE ON METADATA



PLAN AND INVESTIGATE ON METADATA

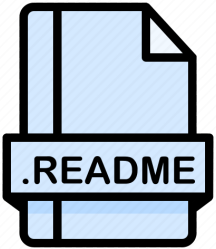
Collect



Analyze



Publish



JSON
XML

FAIR learning.pptx Properties

General Summary Statistics Contents Custom

Title: PowerPoint Presentation

Subject:

Author: Karsten Kryger Hansen

Manager:

Company: Aalborg Universitet

Category:

Keywords:

Comments:

Hyperlink base:

Template: AAU 16_9 (EN)

Save preview picture

IMG_9719.CR2

Basic Camera Information

Camera Data

Origin

IPTC

IPTC Extension

GPS Data

Audio Data

Video Data

Photoshop

DICOM

AEM Properties

Raw Data

Make: Canon

Model: Canon EOS 500D; S/N: 530120093

Owner: Karsten Kryger Hansen

Lens: EF-S18-55mm f/3.5-5.6 IS

Shot Information

Focal Length: 20,00 mm

Exposure: 1/60 sec; f/5,0; ISO 400; Normal program; Pattern metering

Image Size: 3168 x 4752

Orientation:

employee_id	first_name	last_name	nin	department_id
44	Simon	Martinez	HH 45 09 73 D	1
45	Thomas	Goldstein	SA 75 35 42 B	2
46	Eugene	Comelsen	NE 22 63 82	2
47	Andrew	Petculescu	XY 29 87 61 A	1
48	Ruth	Stadick	MA 12 89 36 A	15
49	Bary	Scardelis	AT 20 73 18	2
50	Sidney	Hunter	HW 12 94 21 C	6
51	Jeffrey	Evans	LX 13 26 39 B	6
52	Doris	Berndt	YA 49 88 11 A	3
53	Diane	Eaton	BE 08 74 68 A	1
54	Bonnie	Hall	WW 53 77 68 A	15
55	Taylor	Li	ZE 55 22 80 B	1

Metadata

Column	Data Type	Description
employee_id	int	Primary key of a table
first_name	nvarchar(50)	Employee first name
last_name	nvarchar(50)	Employee last name
nin	nvarchar(15)	National Identification Number
position	nvarchar(50)	Current position title, e.g. Secretary
department_id	int	Employee department. Ref: Department
gender	char(1)	M = Male, F = Female, Null = unknown
employment_start_date	date	Start date of employment in organization.
employment_end_date	date	Employment end date. Null if employee st

Data

FAIRsharing.org
standards, databases, policies

PLAN AND INVESTIGATE ON METADATA



zenodo Search Upload Communities kqh@aub.aau.dk

Delete Save Publish

New upload

Instructions: (i) Upload minimum one file or fill-in required fields (marked with a red star). (ii) Press "Save" to save your upload for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

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Publication Poster Presentation Dataset Image Video/Audio Software Lesson Other

Publication type Journal article

Basic information required

Digital Object Identifier e.g. 10.1234/foo.bar

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Reserve DOI

Publication date * 2020-08-29

Required. Format: YYYY-MM-DD. In case your upload was already published elsewhere, please use the date of first publication.

Title *

Required.

Authors * Family name, given names Affiliation ORCID (e.g.: 0000-0002-18:)

Optional.

+ Add another author

Description *

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ARE WE SHARING THE RIGHT THINGS?

The screenshot shows a Zenodo record for a book titled "A FAIRy tale". The record is dated December 13, 2018, and is categorized as "Book" and "Open Access". The authors listed are Karsten Kryger Hansen, Mareike Buss, and Lea Sztuk Haahr. The description states: "The book explains the FAIR data principles with both a fictitious story and a easy understandable explanation of each principle." A preview of the book cover is shown, featuring a stylized landscape with a large sun, a castle on a hill, and a boat. The cover is titled "A FAIRy tale book digital.pdf" and is 3.1 MB in size. The record has 4,601 views and 2,650 downloads. It is indexed in OpenAIRE. The publication date is December 13, 2018, and the DOI is 10.5281/zenodo.2248200. The keyword(s) are "FAIR guide" and "Research Data Management". The license (for files) is Creative Commons Attribution Share Alike 4.0 International. The record has one version, Version 1, published on December 13, 2018.

Request ...

"We would like to make a translation to German"

Response ...

"Great, go ahead. It's CC-BY 4.0, but ..."



ARE WE SHARING THE RIGHT THINGS?



ARE WE SHARING THE RIGHT THINGS?



ARE WE SHARING THE RIGHT THINGS?



Highest value to possible re-users of data?

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FACILITATE REUSE BY ASSIGNING A LICENSE TO OPEN DATA

Data with undeclared usage rights is useless

- ▶ Reduce friction of reuse
- ▶ Declare usage rights
- ▶ Get credit for your work

Access right *

-  Open Access
-  Embargoed Access
-  Restricted Access
-  Closed Access

Required. Open access uploads have considerably higher visibility on Zenodo.

License *

Start typing a license name...

- Creative Commons Attribution 4.0 International**
- Creative Commons Attribution 1.0 Generic
- Creative Commons Attribution 2.0 Generic
- Creative Commons Attribution 3.0 Unported
- Creative Commons Attribution 3.0 Austria
- Creative Commons Attribution 3.0 Germany
- Creative Commons Attribution 3.0 Netherlands

MACHINE READABLE LICENSES



Google search results for "energy meter". The search bar shows "energy meter" and the "Creative Commons licenses" filter is active. The results are filtered by "Creative Commons licenses".

Filters: single phase, digital, three phase, circuit diagram, smart

License filter: Creative Commons licenses, Commercial & other licenses

- File:Hydro quebec meter... commons.wikimedia.org
- File:Vorarlberger Kraft... commons.wikimedia.org
- File:Vorarlberger Kraft... commons.wikimedia.org
- macro photo, energy consumption ... pxhere.com
- File:Kamstrup-Metro e... commons.wikimedia.org



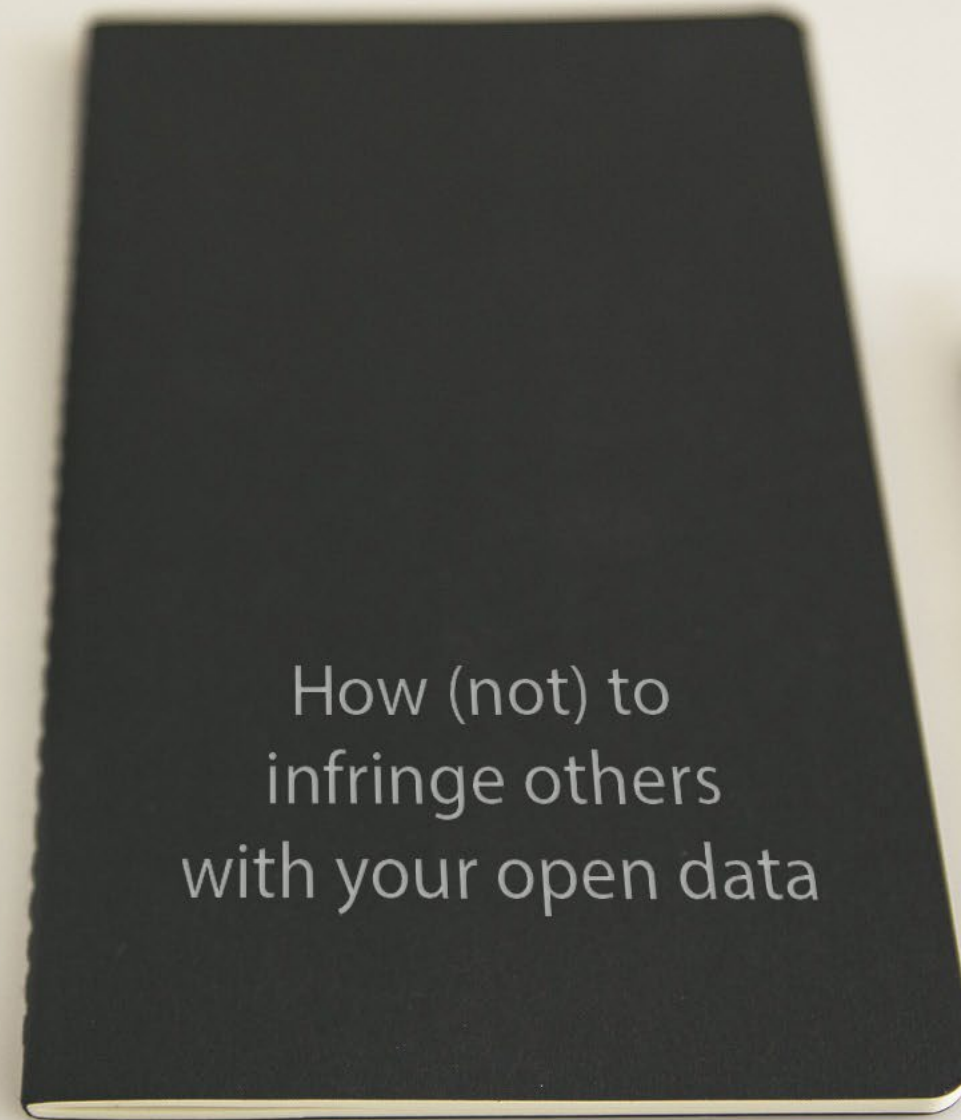
Layers by Shaddim / [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/)

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BUT ...

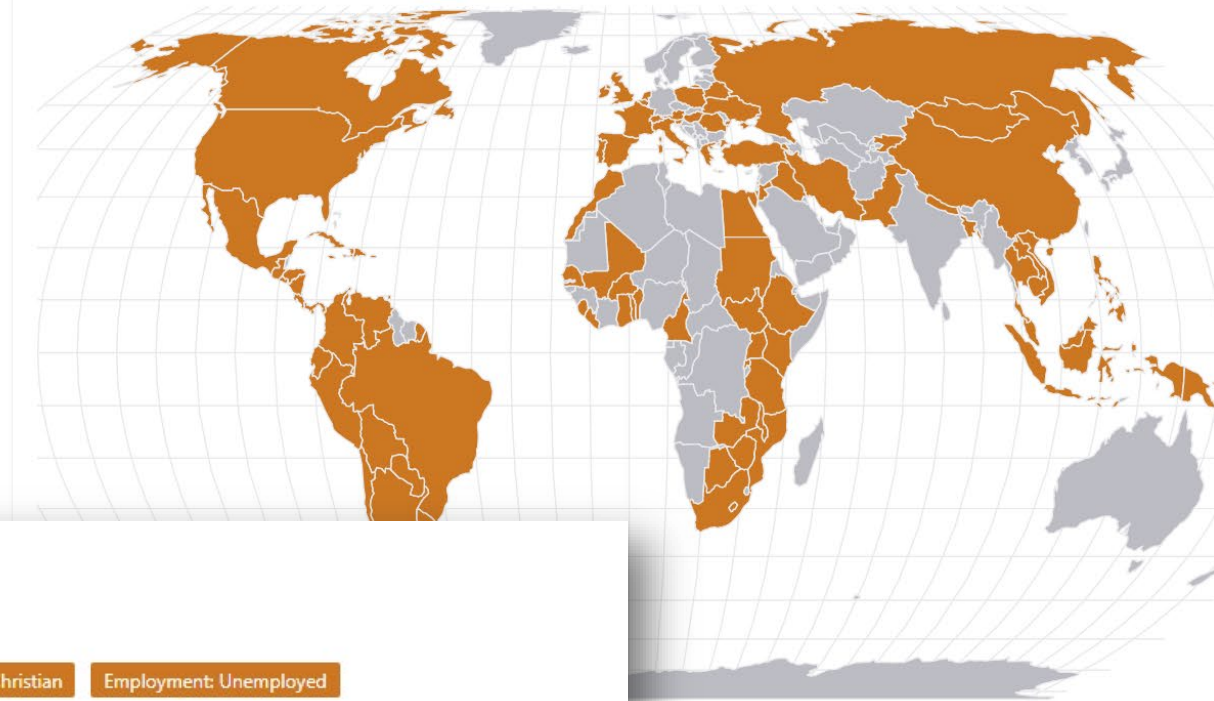


CONSIDERATIONS FOR AVAILABILITY AND LICENSABILITY OF DATA

- ▶ News worthiness
- ▶ Funding
- ▶ Collaboration partners
- ▶ Nondisclosure agreements
- ▶ Intellectual contributions from others
- ▶ Personal information
- ▶ Copyrighted material embedded
- ▶ Patentable results
- ▶ Software descriptions
- ▶ Dual use
- ▶ Classified information (NATO, EU and/or national)
- ▶ Critical infrastructure
- ▶ Ethical considerations

”As restricted as possible, as open as necessary”?

Available Countries



Hi, where do you live?

Argentina

Start!

Number of people that share these attributes

12 out of 4.9M

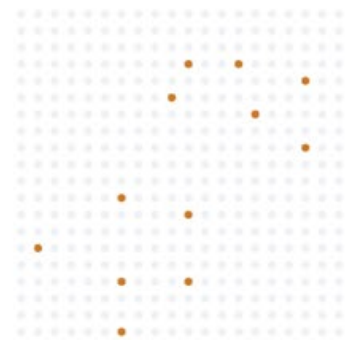
COUNTRY: Ireland

Birthdate: 1979-09-17

Sex: Male

Religion: Christian

Employment: Unemployed



Likelihood of being correctly re-identified

8%



THE CASE OF RESTRICTED ACCESS – THE 404 OF EMAILS?


License required ▾

Access right *

- Open Access
- Embargoed Access
- Restricted Access
- Closed Access

Required. Open access uploads have considerably higher visibility on Zenodo.

Conditions *



Specify the conditions under which you grant users access to the files in your upload. User requesting access will be asked to justify how they fulfil the conditions. Based on the justification, you decide who to grant/deny access. You are not allowed to charge users for granting access to data hosted on Zenodo.

RESTRICTED ACCESS

- ▶ No, you cannot just put restricted data out there, marked as restricted.
Eg. no sharing of confidential data with restricted access on platforms trusted for open data
- ▶ Take action: Discuss with your institution how to keep restricted data accessible
- ▶ Declare impartial reuse options if possible.
- ▶ Put restricted data in repos where fulfillment of restrictions is possible

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DATA WITHOUT CODE?

Building the social and technical bridges to enable open sharing and re-use of data

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Q

FAIR Principles for Research Software (FAIR4RS Principles)

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 16 Mar 2022	<h3>FAIR Principles for Research Software (FAIR4RS Principles)</h3> <p>By Neil Chue Hong</p>	<h3>FAIR for Research Software (FAIR4RS) WG</h3> <p>Status: Recognised & Endorsed Chair(s): Michelle Barker, Paula Andrea Martinez, Leyla Jael Castro, Daniel S. Katz, Neil Chue Hong, Jennifer Harrow, Fotis Psomopoulos, Carlos Martinez-Ortiz, Morane Gruenpeter Secretariat Liaison: Bridget Walker TAB Liaison: Rob Quick</p>
	<p>FAIR for Research Software (FAIR4RS) WG</p>	
	<p>Group co-chairs: Michelle Barker, Paula Andrea Martinez, Leyla Garcia, Daniel S. Katz, Neil Chue Hong, Jennifer Harrow, Fotis Psomopoulos, Carlos Martinez-Ortiz, Morane Gruenpeter</p>	
	<p>Recommendation Title: FAIR Principles for Research Software (FAIR4RS Principles)</p>	

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 - Data Availability Statement
 - Acknowledgments
 - Conflicts of Interest
 - References

IK
⚙️

Open Access
Data Descriptor

Cheating, Trust and Social Norms: Data from Germany, Vietnam, China, Taiwan, and Japan

by [Toan L. D. Huynh](#)^{1,*}, [Marc Oliver Rieger](#)^{1,2}, [Mei Wang](#)^{1,3}, [David Berens](#)⁴, [Duy-Linh Bui](#)⁵, [Hung-Ling Chen](#)⁶, [Tobias Peter Emering](#)⁷, [Sen Geng](#)⁸, [Yang Liu-Gerhards](#)⁹, [Thomas Neumann](#)¹⁰, [Thanh Dac Nguyen](#)¹¹, [Thong Trung Nguyen](#)¹, [Diefeng Peng](#)¹², [Thuy Chung Phan](#)¹, [Denis Reinhardt](#)¹³, [Junyi Shen](#)¹⁴, [Hiromasa Takahashi](#)¹⁵ and [Bodo Vogt](#)¹⁰

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- Thyssenkrupp Bilstein, 54429 Kell, Germany
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- Department of International Business, College of Management, Shih Chien University, Taipei 116, Taiwan
- Axxion, 60325 Spire, Germany
- Wang Yanan Institute for Studies in Economics, Xiamen University, Xiamen 361005, China
- Department of Economics, Trier University of Applied Science, 54293 Trier, Germany
- Faculty of Economics, Otto-von-Guericke University Magdeburg, Universitätsplatz 2, 39106 Magdeburg, Germany

* Author to whom correspondence should be addressed.

Academic Editor: Francisco Gujarró

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Received: 16 August 2022 / Revised: 19 September 2022 / Accepted: 20 September 2022 / Published: 28 September 2022

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Mendeley Data

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Cheating, trust and social norms: data from Germany, Vietnam, China, Taiwan, and Japan

Published: 16 May 2022 | Version 1 | DOI: 10.17632/fpp33zgd57.1
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Description

The data presented here contains information on cheating behaviour from experiments and general self-reported attitudes related to honesty-related social norms and trust, together with individual-level demographic variables. Our sample includes 493 university students in five countries, namely Germany, Vietnam, Taiwan, China, and Japan. The experiment was monetary incentivized based on performance on a math task. The participants also answered a survey questionnaire. Supplemental material contains the full text, codes and numerical values of survey and experiment instruments. The dataset is valuable to academic researchers in sociology, psychology and economics who are interested in honesty, norms and cultural differences.

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Files

[Dataset.xlsx](#)

115 KB

Dataset metrics

Usage

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Cite this dataset

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	ID	DIV	Y	Magnitude	Underreport	Magnor	Yrobust	Magrob	Age	Gender	Major	Income	Member	Fairness	Polliteness	Honesty	Courage	Responsibility
2	B1	1	0	0	0	0	0	0	21	1	1	4000	4	5	4	1	2	3
3	B2	1	0	0	0	0	0	0	22	1	1	10000	4	4	3	5	1	2
4	B3	1	0	0	0	0	0	0	26	1	0	10000	4	3	1	2	5	4
5	B4	1	0	0	0	0	0	0	21	0	1	600	1	5	1	4	3	2
6	B5	1	0	0	0	0	0	0	25	1	0	2500	2	4	1	2	3	5
7	B6	1	0	0	0	0	0	0	25	0	1	1700	1	1	1	1	3	3
8	B7	1	1	14	0	2,70805	1	2,70805	27	0	1	6000	7	2	5	1	3	4
9	B8	1	0	0	0	0	0	0	25	1	1	800	3	4	1	5	2	3
10	B9	1	0	0	0	0	0	0	24	1	1	2650	2	1	3	5	2	4
11	B10	1	0	0	0	0	0	0	24	1	1	6000	4	4	5	1	2	3
12	B11	1	0	0	0	0	0	0	24	0	1	1450	2	3	4	5	2	1
13	B12	1	1	14	0	2,70805	1	2,70805	33	0	1	1600	2	5	5	5	5	5
14	B13	1	0	0	0	0	0	0	22	1	1	0	4	2	5	1	3	4
15	B14	1	1	11	0	2,484907	1	2,484907	21	0	1	3000	2	5	4	3	1	2
16	B15	1	0	0	0	0	0	0	22	0	1	530	4	2	2	1	3	2
17	B16	1	0	0	0	0	0	0	20	1	1	1125	1	2	1	1	3	2
18	B17	1	1	3	0	1,386294	1	1,386294	25	1	0	650	1	4	1	3	2	5
19	B18	1	1	6	0	1,94591	1	1,94591	29	1	0	1000	2	5	3	4	3	4
20	B19	1	0	0	0	0	0	0	23	1	1	12500	4	3	5	4	1	2
21	B20	1	1	11	0	2,484907	1	2,484907	21	0	1	800	0	4	3	5	1	2
22	B21	1	1	11	0	2,484907	1	2,484907	21	0	1	750	2	5	5	5	4	4
23	B22	1	1	9	0	2,302585	1	2,302585	21	1	1	2000	2	5	5	5	4	5
24	B23	1	0	0	0	0	0	0	22	0	1	500	1	5	5	5	2	4
25	B24	1	1	9	0	2,302585	1	2,302585	24	0	1	3000	5	4	3	5	1	2
26	B25	1	1	1	0	0,693147	0	0	21	1	1	600	1	1	3	5	2	4
27	B26	1	1	5	0	1,791759	1	1,791759	20	1	1	400	1	2	3	1	5	4
28	B27	1	1	18	0	2,944439	1	2,944439	22	0	1	4000	5	5	5	5	5	5
29	B28	1	1	18	0	2,944439	1	2,944439	22	0	1	3500	5	5	5	5	1	4
30	B29	1	0	0	0	0	0	0	21	1	0	0	4	2	5	3	4	1
31	B30	1	0	0	0	0	0	0	29	1	0	8100	1	5	2	1	3	4
32	B31	1	1	16	0	2,833213	1	2,833213	21	0	1	2000	2	3	1	4	2	5
33	B32	1	0	0	0	0	0	0	20	1	0	1000	6	3	1	4	2	5
34	B33	1	0	0	0	0	0	0	22	0	1	500	3	5	1	4	2	3
35	B34	1	1	18	0	2,944439	1	2,944439	27	1	1	750	1	2	4	5	1	3
36	B35	1	0	0	0	0	0	0	28	1	0	3700	2	5				
37	B1	2	0	0	0	0	0	0	24	0	1	1000	1	5	1	4	2	3
38	B3	2	0	0	0	0	0	0	29	1	0	450	6	5	3	4	1	2
39	B6	2	0	0	0	0	0	0	19	0	0	5500	6	2	4	5	1	3

SUMMARY

- ▶ Try publishing *some* data
- ▶ Clarify on the possibility of making data:
 - ▶ Accessible
 - ▶ Licensed
- ▶ Ask and talk about data
 - ▶ ... a data management plan can help, but less can do.

AGENDA

- The need – and promise - of more open data
- What is data?
- Repositories – the platforms for open data
- FAIR – a framework to evaluate (more than) open data
- What to share?
- Facilitating reuse through a license
- A complete guide for irresponsibility
- Exploring further options
- **Data go live**



LET'S TAKE A LOOK AT DATA GOING LIVE

- ▶ <https://sandbox.zenodo.org/>

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