

zenodo

Research. Shared.

Pablo Panero
IT-CA-OSR



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Credit: By Bryan Tong Minh / CC-BY-2.5
(http://commons.wikimedia.org/wiki/File:Brand_bouwkunde_-_TU_Delft_-_13_Mei_2008.jpg)





The result?

50% of the links in papers are inaccessible after 10 years

89% of 53 landmark cancer research papers are irreproducible

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PLOS ONE



How Do Astronomers Share Data? Reliability and Persistence of Datasets Linked in AAS Publications and a Qualitative Study of Data Practices among US Astronomers

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Abstract

We analyze data sharing practices of astronomers over the past fifteen years. An analysis of URLs linked in papers published by the American Astronomical Society reveals that the total number of links included in the literature rose dramatically from 1990 until 2005, when it leveled off at around 1500 per year. The analysis also shows that the availability of linked material decays with time: in 2011, 44% of links published a decade earlier, in 2001, were broken. A rough analysis of link types reveals that links to data hosted on astronomers' personal websites become unobscured much faster than links to datasets on curated institutional sites. To gauge astronomers' current data sharing practices and preferences further, we performed in-depth interviews with 12 scientists and online surveys with 173 scientists, each at a large astrophysical research institution in the United States: the Harvard-Smithsonian Center for Astrophysics, in Cambridge, MA, both the Earth Institute and the online survey indicate that, in principle, there is no physical objection to data-sharing among astronomers at this institution. Key reasons that motivate data are not presently shared more efficiently in astronomy include the difficulty of sharing large data sets; over-reliance on non-rebut, non-reproducible mechanisms for sharing data (e.g., emailing); its uncertainty with options that make data-sharing easier (e.g., arXiv) and/or more robust; and, lastly, a sense that other researchers would not want the data to be shared. We conclude with a short discussion of a new effort to implement an easy-to-use, robust system for data sharing in astronomy, at <https://doi.org/10.26434/chemrxiv-2018-08>.

Chaitin, Peter A., Goodman A., Muench A., Crosas M., Erdmann C. (2014) How Do Astronomers Share Data? Reliability and Persistence of Datasets Linked in AAS Publications and a Qualitative Study of Data Practices among US Astronomers. PLOS ONE 9(8): e104798. doi:10.1371/journal.pone.0104798

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Introduction

No, I don't have a website where I store these data. Most of it is in various stages of mess... —An astronomer

Automated observations can generate ever large volumes of data, and observations taken at a particular time are by definition irreproducible and unrepeatable. As such, making astronomical data publicly available in a structured, intelligible format of fundamental importance to enable scientific transparency and long-term data curation and preservation, facilitating data reuse [1]. To date, some of the most prominently planned data sharing in astronomical research has focused on archival preservation and dissemination of observations recorded in so-called "sky surveys." The purpose of these surveys is to collect and archive data from extended regions of the sky, in a systematic and controlled fashion. Modern optical sky surveys, such as the Sloan Digital Sky Survey (SDSS), the 2dMerges All-Sky Survey (2MASX), and the future

Large Synoptic Survey Telescope (LSST) generate massive datasets, ranging in size from hundreds of terabytes to hundreds of petabytes [2]. Surveys that rely on sporadic-visited observations, often made with wide-field-of-view instruments, generate "B" class cubes" rather than "D" images," and they are already so large that it is not possible to keep all the raw data after analysis is complete.

Despite their sheer volume, the data collected in the context of large surveys represent only a portion of all the data generated in Astronomy. Most discoveries rely upon smaller studies, and/or are based on heavily processed subsets of many surveys, in any field of scientific endeavor, many different levels of data exist [3]. From "raw" data to "processed" data, from "calibration" data to "publishable" data, if we imagine all data in Astronomy to be a pyramid, primary data from large sky surveys occupies the bottom half of the pyramid. But, as we just mentioned, these primary data are used by astronomers all over the world to produce more specific studies, where astronomical data are processed primary data in many ways producing derived data.

News in focus

Africa and the news suggest that the variant is highly transmissible – spreading several times faster than Delta – and might be able to infect people who are immune to other variants. Omicron carries a large number of mutations in its spike protein – the prime target of immune responses – and some of these changes, when present in other variants, affect the ability of antibodies to recognize the virus and block infection.

Scientists used two types of laboratory assays to test how well Omicron can evade neutralizing, or virus-blocking, antibodies. One approach uses infectious SARS-CoV-2 particles, typically isolated from individuals infected with Omicron. The other relies on pseudovirus particles – genetically modified versions of another virus (often HIV) that use the SARS-CoV-2 spike protein to infect cells.

The results from the four teams all suggest that Omicron has the potential to evade neutralizing antibodies more extensively than any other circulating SARS-CoV-2 variant. But the magnitude of Omicron's impact relative to other variants, which examined blood from people with different vaccination and infection histories.

A study led by virologist Alex Sigal, at the Africa Health Research Institute in Durban, South Africa, found that serum – the antibody-containing portion of blood – from 12 people who received the Pfizer-BioNTech vaccine was around 40 times less potent against Omicron, on average, than against an earlier strain of SARS-CoV-2. The finding was similar to the results from two other studies: one reported by Pfizer and BioNTech in an 8 December press release, and the other released on Twitter and pre-print posted on medRxiv by virologist Sandra Ciesek at the Goethe University Frankfurt am Main (A. Wilhelm et al. Preprint at medRxiv <https://doi.org/10.1101/2021.12.01.21261821>).

A word is usually led by Marelli and virologist Daniel Sheppard, also at the Karolinska Institute, reported a smaller reduction in levels of Omicron neutralizing antibodies in two groups of participants: 17 health care workers, who had all been previously infected, and 17 Swedish blood donors. The researchers cannot determine the vaccine status of the anonymous blood donors, but they are already so large that it is not possible to keep all the raw data after analysis is complete.

Despite differences in results – which are common in such virus-neutralization assays – the researchers' conclusions are similar, and about how Omicron's effects on neutralizing antibodies are "not completely knock-out," says Marelli. "The magnitude is still up to the question of whether it's a game-changer."

Booster protection

The results suggest that vaccine's effectiveness is likely to be significantly modified by Omicron – but precisely how much is hard to

say. Sigal's team found that people who had already been infected before vaccination tended to have higher levels of neutralizing antibodies against Omicron than vaccinated people with no known history of infection. "I think retaining some neutralizing capacity against Omicron can only be helpful," says Moore, co-author on the study, whose lab is also working on neutralization experiments.

"Omicron is scarier than anything we've known before, because it's a little bit worse still than Delta."

A previous case of COVID-19 isn't the only way to improve antibody levels against Omicron. The Pfizer-BioNTech study found that people who had received a third dose of vaccine had neutralizing antibody levels against Omicron comparable to those triggered by two vaccine doses, against other SARS-CoV-2 variants. On the basis of those results, "we expect significant protection against any type of COVID-19 mediated by Omicron in individuals who have received

the third vaccine," said BioNTech's chief executive, Ulf Sahin, at a press conference on 8 December.

Edward Altman, an immunologist at Imperial College London, agrees that lacking up antibody levels with booster shots should help protect against Omicron, just as boosters have improved protection against the Delta variant. "Omicron is scarier than anything we've known before, because it's a little bit worse still than Delta. But we were in quite a bad situation with Delta in unvaccinated populations," Altman says.

Jesse Bloom, an evolutionary biologist at the Fred Hutchinson Cancer Research Center in Seattle, Washington, says that it will be important to determine the extent to which immune mechanisms other than neutralizing antibodies, such as T cells, mediate severe disease caused by infection.

It will also be important to see further studies confirming the test results, because variables such as the type of cell used can affect antibody responses, says Pei Song ZH, a virologist at the University of Texas Medical Branch at Galveston. "In the next week or so, there will be a lot of confirmatory results coming out," he says.

HALF OF CANCER STUDIES FAIL HIGH-PROFILE REPLICATION TEST

Barriers to reproducing preclinical results included unhelpful author communication.

By Asher Mullard

A US\$2-million, 8-year attempt to replicate influential preclinical cancer research papers has released its final results – and it's disappointing – fewer than half of the experiments assessed stood up to scrutiny. Reports the Reproducibility Project: Cancer Biology (RPCB) team in its paper, one of the most robust reproducibility studies performed so far – documented how hurdles including vague research protocols and uncooperative authors delayed the initiative by five years and halved the number of papers' original authors. Other analyses have reported low replication rates in drug discovery, neuroscience and psychology.

"These results are surprising, And, simultaneously, they're shocking," says Brian Nosek, director of the Center for Open Science in Charlottesville, Virginia.

The RPCB – a partnership between the Center for Open Science and Science Exchange, a marketplace for research services and tools

The low replication rate is "frankly, outrageous," says Glenn Begley, an oncologist and co-founder of Pathogenesis Therapeutics in Cambridge, Massachusetts, who was not involved in the study, but it is unexpected, he agrees. In 2012, while at the biotech firm Amgen in Thousand Oaks, California, Begley's team helped to draw attention to growing evidence of irreproducibility crisis, the concern that many research findings cannot be replicated. Over the previous decade, his biotechnology and oncology team had been able to confirm the results of only of the 53 (11%) landmark papers' assessed despite working alongside the papers' original authors. Other analyses have reported low replication rates in drug discovery, neuroscience and psychology.

Double take

The RPCB – a partnership between the Center for Open Science and Science Exchange, a marketplace for research services and tools

What to improve?

50% of the links in papers are
inaccessible after 10 years

Disseminate & Archive

89% of 53 landmark cancer research
papers are irreproducible

Reproducibility

Ships logs from the 18th century
used for climate research

Reusability

What to improve?

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used for climate research

Reusability

Science = Explain + Repeat

How do we prevent this?

Zenodo!

The screenshot displays the Zenodo website interface. At the top, there is a navigation bar with the Zenodo logo, a search bar, and links for 'Upload' and 'Communities'. On the right side of the navigation bar, there are 'Log in' and 'Sign up' buttons. Below the navigation bar, the 'Featured communities' section is visible, featuring a community titled 'Transform to Open Science' with a NASA logo and a description of the TOPS mission. Below this, the 'Recent uploads' section shows two entries: 'GS2 v8.1.2' and 'A large-scale COVID-19 Twitter chatter dataset for open scientific research - an international collaboration'. Each entry includes a 'View' button. On the right side of the page, there are two help sections: 'Need help?' with a search bar and 'Contact us' button, and 'Why use Zenodo?' with a list of benefits such as 'Safe', 'Trusted', 'Citeable', and 'No waiting time'.

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Featured communities Need help uploading? Contact us

Transform to Open Science Browse New upload

Transform to Open Science (TOPS) is a \$40 million, 5-year mission, led by NASA's Science Mission Directorate's Open-Source Science initiative. Within the TOPS mission, NASA is designating 2023 as the Year Of Open Science, a community initiative to spark change and inspire open science...

Curated by: nasatransformtoopen

Recent uploads

July 26, 2022 (v8.1.2) Software Open Access View

GS2 v8.1.2

Barnes, Michael; Dickinson, David; Dorland, William; Hill, Peter Alec; Parker, Joseph Thomas; Roach, Colin Malcolm; Biggs-Fox, Stephen; Christen, Nicolas; Namata, Ryusuke; Parisi, Jasson; Wilkes, George; Anton, Lucian; Ball, Justin; Baumgartel, Jessica; Colyer, Greg; Hardman, Michael; Heer, Joachim; Highcock, Edmund; Howes, Gregory; Jackson, Adrian; Kotschenreuther, Michael T.; Lee, Junggyo; Leggate, Huw; Mandell, Noah; Maurya, Adviteey; Tatsuno, Tomo; Van Wyk, Ferdinand

GS2 is a physics application, developed to study low-frequency turbulence in magnetized plasma. It is typically used to assess the microstability of plasmas produced in the laboratory and to calculate key properties of the turbulence which results from instabilities. It is also used to simulate...

Uploaded on July 26, 2022
8 more version(s) exist for this record

July 24, 2022 (v124) Dataset Open Access View

A large-scale COVID-19 Twitter chatter dataset for open scientific research - an international collaboration

Bandu, Juan M.; Tokumalia, Ramya; Wang, Guanyu; Yu, Jingyuan; Liu, Tuo; Ding, Yuning; Artemova, Katya; Tutubalina, Elena; Chowell, Gerardo

Version 124 of the dataset. MAJOR CHANGE NOTE: The dataset files: full_dataset.tsv.gz and full_dataset_clean.tsv.gz have been split in 1 GB parts using the Linux utility called Split. So make sure to join the parts before unzipping. We had to make this change as we had huge issues uploading...

Uploaded on July 24, 2022

Need help? Contact us

Zenodo prioritizes all requested related to the COVID-19 outbreak.

We can help with:

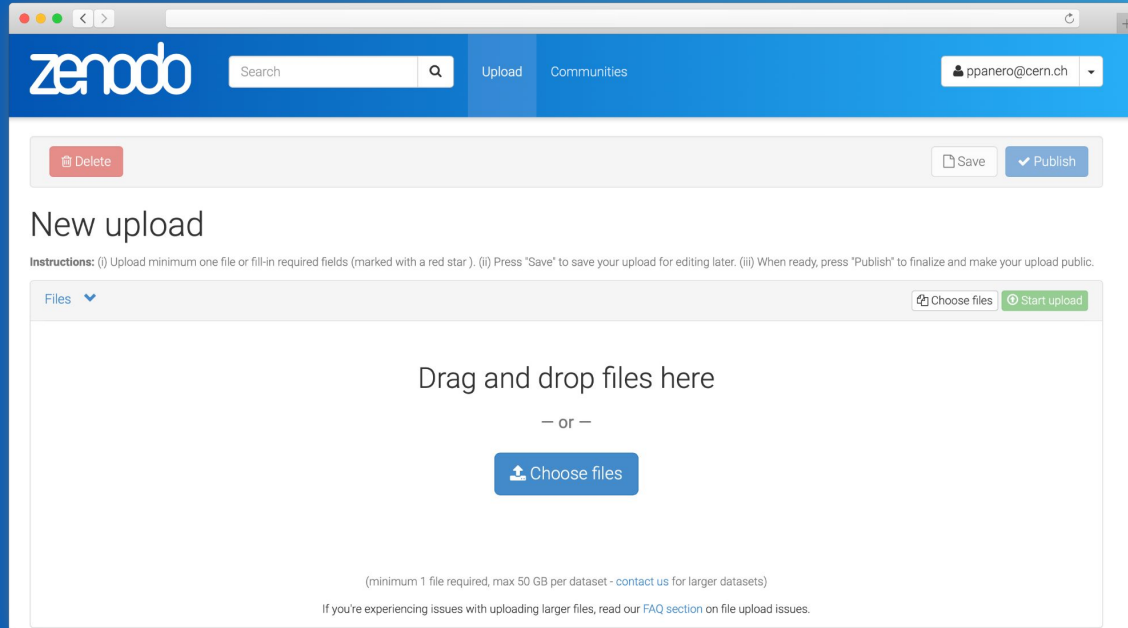
- Uploading your research data, software, preprints, etc.
- One-on-one with Zenodo supporters.
- Quota increases beyond our default policy.
- Scripts for automated uploading of larger datasets.

Why use Zenodo?

- **Safe** – your research is stored safely for the future in CERN's Data Centre for as long as CERN exists.
- **Trusted** – built and operated by CERN and OpenAIRE to ensure that everyone can join in Open Science.
- **Citeable** – every upload is assigned a Digital Object Identifier (DOI), to make them citable and trackable.
- **No waiting time** – 1 uploads are made.

How do I use Zenodo?

Upload files



Describe

Upload type required

Publication Poster Presentation Dataset Image Video/Audio Software Lesson Physical object Workflow Other

Publication type Publication type.

Basic information required

Digital Object Identifier
Optional. Did your publisher already assign a DOI to your upload? If not, leave the field empty and we will register a new DOI for you. A DOI allows others to easily and unambiguously cite your upload. Please note that it is NOT possible to edit a Zenodo DOI once it has been registered by us, while it is always possible to edit a custom DOI.

Reserve DOI

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

Title
Required.

Authors

Optional.

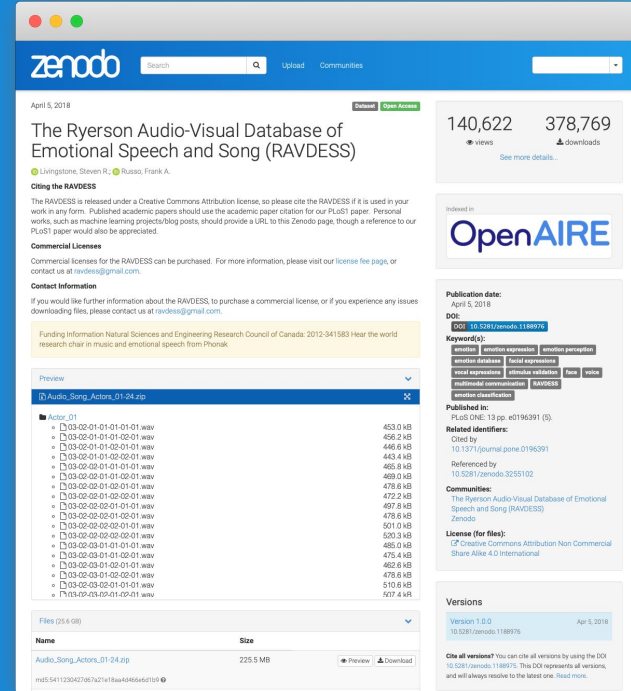
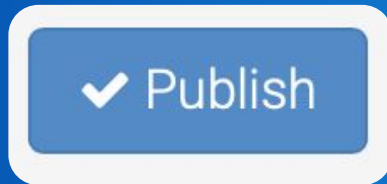
Optional.

[+ Add another author](#)

Description

Required.

Done!



The screenshot shows the Zenodo repository page for the Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS). The page includes the Zenodo logo, a search bar, and navigation links for 'Upload' and 'Communities'. The main content area displays the title, authors (Livingstone, Steven R. and Russ, Frank A.), and a 'Citing the RAVDESS' section. It also features a 'Commercial Licenses' section, 'Contact Information', and 'Funding Information'. A 'Preview' section shows a list of audio files with their names and sizes. The right sidebar contains statistics (140,622 views, 378,769 downloads), an 'OpenAIRE' logo, 'Publication date' (April 5, 2018), 'DOI' (10.5281/zenodo.1188976), 'Keywords', 'Related identifiers', 'Published in', 'Referenced by', 'Communities', 'License (for files)', and 'Versions'.

zenodo Search [] Upload Communities []

April 5, 2018 Dataset Open Access

The Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS)

Livingstone, Steven R. Russ, Frank A.

Citing the RAVDESS
The RAVDESS is released under a Creative Commons Attribution license, so please cite the RAVDESS if it is used in your work in any form. Published academic papers should use the academic paper citation for our PLoS1 paper. Personal works, such as machine learning projects/blog posts, should provide a URL to this Zenodo page, though a reference to our PLoS1 paper would also be appreciated.

Commercial Licenses
Commercial licenses for the RAVDESS can be purchased. For more information, please visit our license fee page, or contact us at ravdess@gmail.com.

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Funding Information Natural Sciences and Engineering Research Council of Canada: 2012-341583 Hear the world research chair in music and emotional speech from Proxik

Preview

Audio_Song_Actors_01_04.zip

- Actor_01
 - D_03-02-01-01-01-01-01.wav 453.0 kB
 - D_03-02-01-01-02-01-01.wav 456.2 kB
 - D_03-02-01-01-02-01-01.wav 446.8 kB
 - D_03-02-01-01-02-02-01.wav 443.4 kB
 - D_03-02-02-01-01-01-01.wav 465.8 kB
 - D_03-02-02-01-01-02-01.wav 489.0 kB
 - D_03-02-02-01-02-01-01.wav 478.6 kB
 - D_03-02-02-01-02-02-01.wav 472.2 kB
 - D_03-02-02-02-01-01-01.wav 497.8 kB
 - D_03-02-02-02-01-02-01.wav 478.6 kB
 - D_03-02-02-02-02-01-01.wav 501.0 kB
 - D_03-02-02-02-02-02-01.wav 520.3 kB
 - D_03-02-03-01-01-01-01.wav 485.0 kB
 - D_03-02-03-01-01-02-01.wav 475.4 kB
 - D_03-02-03-01-02-01-01.wav 462.6 kB
 - D_03-02-03-01-02-02-01.wav 478.6 kB
 - D_03-02-03-02-01-01-01.wav 510.8 kB
 - F15149-zLzPz-01-02-01.wav 507.4 kB

Files (25 of 68)

Name	Size	Preview	Download
Audio_Song_Actors_01_04.zip	225.5 MB		

140,622 views **378,769** downloads [See more details.](#)

indexed in: **OpenAIRE**

Publication date: April 5, 2018

DOI: [10.5281/zenodo.1188976](https://doi.org/10.5281/zenodo.1188976)

Keywords: emotional, emotion, expression, emotional, perception, emotion, database, facial, expressions, vocal, expressions, stimulus, validation, RAVDESS, emotion, classification

Published in: PLoS ONE, 13 pp, e0196391 (5)

Related identifiers: Cited by: 10.1371/journal.pone.0196391

Referenced by: 10.5281/zenodo.3235102

Communities: The Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS) Zenodo

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Versions

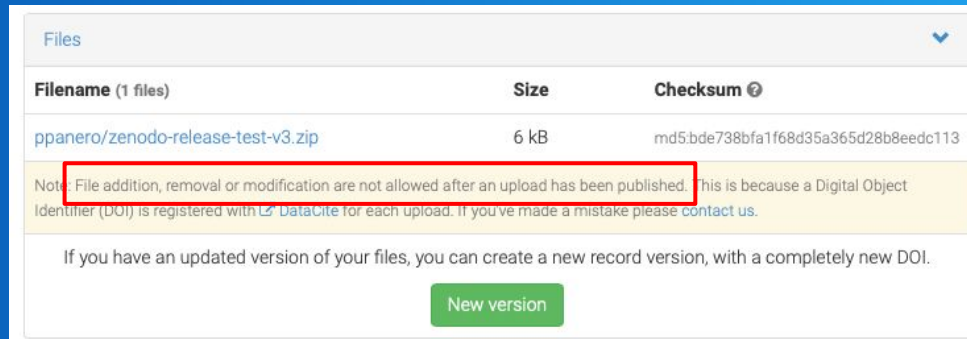
Version 1.0.0 April 5, 2018
[10.5281/zenodo.1188976](https://doi.org/10.5281/zenodo.1188976)

Cite all versions? You can cite all versions by using the DOI 10.5281/zenodo.1188976. This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)


Archive


After publishing...

- You **can** edit the metadata
- You **cannot** edit the files



The screenshot shows a file management interface with a table of files. The table has three columns: 'Filename (1 files)', 'Size', and 'Checksum'. The first row contains the file 'ppanero/zenodo-release-test-v3.zip' with a size of '6 kB' and a checksum of 'md5:bde738bfa1f68d35a365d28b8eedc113'. Below the table, a yellow note states: 'Note: File addition, removal or modification are not allowed after an upload has been published. This is because a Digital Object Identifier (DOI) is registered with DataCite for each upload. If you've made a mistake please contact us.' A green button labeled 'New version' is located at the bottom of the interface.

Filename (1 files)	Size	Checksum 
ppanero/zenodo-release-test-v3.zip	6 kB	md5:bde738bfa1f68d35a365d28b8eedc113

Note: File addition, removal or modification are not allowed after an upload has been published. This is because a Digital Object Identifier (DOI) is registered with  DataCite for each upload. If you've made a mistake please contact us.

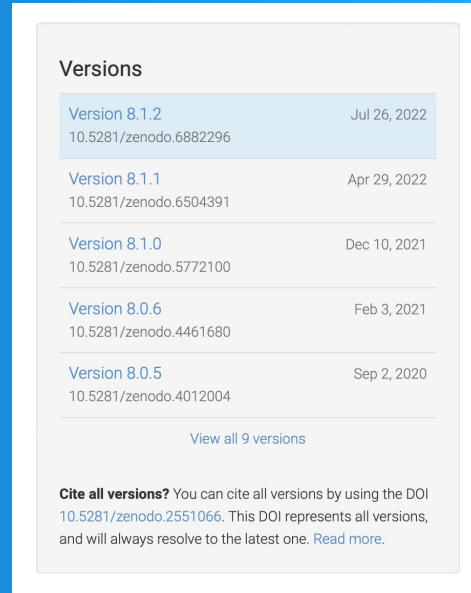
If you have an updated version of your files, you can create a new record version, with a completely new DOI.

[New version](#)

Versioning

To edit data, create a new version

- Same as with code



The screenshot shows a 'Versions' section with a list of data releases. Each entry includes the version number, a DOI, and the release date. The versions are listed in descending order of date. A link to 'View all 9 versions' is provided below the list. At the bottom, there is a note about citing all versions using a specific DOI.

Version	DOI	Date
Version 8.1.2	10.5281/zenodo.6882296	Jul 26, 2022
Version 8.1.1	10.5281/zenodo.6504391	Apr 29, 2022
Version 8.1.0	10.5281/zenodo.5772100	Dec 10, 2021
Version 8.0.6	10.5281/zenodo.4461680	Feb 3, 2021
Version 8.0.5	10.5281/zenodo.4012004	Sep 2, 2020

[View all 9 versions](#)

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Citable DOIs

zenodo

April 5, 2018

The Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDLESS)

140,622 views 378,769 downloads

OpenAIRE

Publication date: April 5, 2018

DOI: **10.5281/zenodo.1188976**

Author(s): Steven R. Livingstone, Frank A. Russo

Published in: PLoS ONE 13(5): e0196391 (2018)

Related identifier: 10.1177/1099891X18769391

Referenced by: 10.3389/fpsyg.2018.01512

Communities: The Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDLESS), Zenodo

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File(s) (2/5): Audio_Song_Actors_01-04.ap (225.5 MB)

DOI:

DOI 10.5281/zenodo.1188976

Cite as

Livingstone, Steven R., & Russo, Frank A. (2018). The Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDLESS) [Data set]. In PLoS ONE (1.0.0, Vol. 13, Number 5, p. e0196391). Zenodo. <https://doi.org/10.5281/zenodo.1188976>

American Psychological Association 7th edition



https://doi.org/10.5281/zenodo.1188976

zenodo Search Upload Communities

April 5, 2018 **Dataset** **Open Access**

The Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS)

Livingstone, Steven R.; Russo, Frank A.

140,622 views 378,769 downloads

Indexed in **OpenAIRE**

Publication date: April 5, 2018
DOI: [10.5281/zenodo.1188976](https://doi.org/10.5281/zenodo.1188976)
Keyword(s): emotion, emotion expression, emotion perception, emotion database, facial expression, vocal expressions, stimulus validation, face, voice, multimodal communication, RAVDESS, emotion classification

Published in: PLoS ONE: 13 pp. e0196391 (5).
Related identifiers: Cited by 10.1371/journal.pone.0196391
 Referenced by 10.5281/zenodo.2255102

Communities: The Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS), Zenodo
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Versions
 Version 1.0.0 Apr 5, 2018
[10.5281/zenodo.1188976](https://doi.org/10.5281/zenodo.1188976)

Cite all versions? You can cite all versions by using the DOI 10.5281/zenodo.1188976. This DOI represents all versions, and will always resolve to the latest one. Read more.

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 The RAVDESS is released under a Creative Commons Attribution license, so please cite the RAVDESS if it is used in your work in any form. Published academic papers should use the academic paper citation for our PLoS1 paper. Personal works, such as machine learning projects/blog posts, should provide a URL to this Zenodo page, though a reference to our PLoS1 paper would also be appreciated.

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Funding Information
 Natural Sciences and Engineering Research Council of Canada: 2012-341583 Hear the world research chair in music and emotional speech from Phonak

Preview

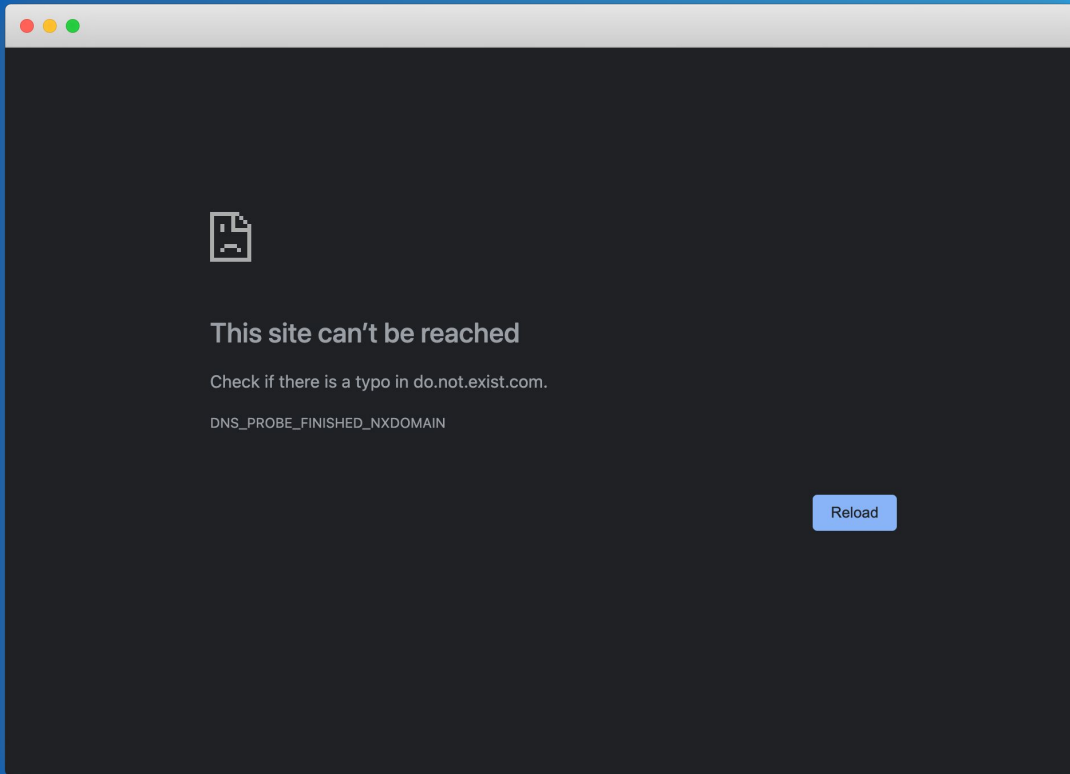
Audio_Song_Actors_01-24.zip

Actors_01

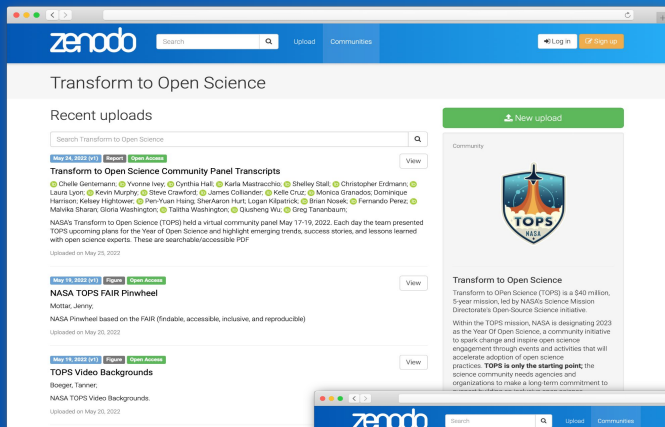
- 03-02-01-01-01-01-01.wav 453.0 KB
- 03-02-01-01-02-01-01.wav 456.2 KB
- 03-02-01-01-03-02-01.wav 443.4 KB
- 03-02-02-01-01-01-01.wav 465.8 KB
- 03-02-02-01-02-01-01.wav 469.0 KB
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- 03-02-03-01-02-01-01.wav 462.6 KB
- 03-02-03-01-02-02-01.wav 476.6 KB
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Files (25 x 08)

Name	Size	Preview	Download
Audio_Song_Actors_01-24.zip	225.5 MB		
md5:5411230427067a7e198aa4866ed1919			



Communities



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Transform to Open Science

Recent uploads

Search Transform to Open Science []

View []

Transform to Open Science Panel Transcripts

Chella Gensemann, Yvonne Ivey, Cynthia Hall, Karla Mastroianni, Shelley Staff, Christopher Erdmann, Laura Lynn, Kevin Murray, Steve Crawford, James Collander, Alec Cruz, Monica Gonzalez, Dominique Harison, Kelley Hightower, Pan-Yuan Hsing, Shekaron Hart, Logan Kiparick, Brian Kosak, Fernando Perez, Makiba Shiran, Cora Washington, Tanya Washington, Qunsheng Wu, Ding Tanakaum

NASA Transform to Open Science (TOS) held a virtual community panel May 17-19, 2020. Each day the team presented TOS upcoming plans for the Year of Open Science and highlight emerging trends, success stories, and lessons learned with open science reports. These are searchable/accessible PDF

Updated on May 20, 2022

NASA TOPS FAIR Pinwheel

NASA Pinwheel based on the FAIR (Findable, accessible, interoperable, and reproducible)

Updated on May 20, 2022

TOPS Video Backgrounds

Beiges, farmer

NASA TOPS Video Backgrounds

Updated on May 20, 2022

Transform to Open Science

Transform to Open Science (TOS) is a \$43 million, 5-year mission, led by NASA's Science Mission Directorate & Open-Source initiative.

Within the TOS mission, NASA is designating 2023 as the Year of Open Science, a community initiative to spark change and inspire open science engagement through events and activities that will accelerate adoption of open science practices. TOS is only the starting point; the science community needs agencies and organizations to make a long-term commitment to



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Coronavirus Disease Research Community - COVID-19

Recent uploads

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View []

A large-scale COVID-19 Twitter chatter dataset for open scientific research - an international collaboration

Banks, Juan M., Tsunuma, Rinya, Wang, Guang, Yu, Jingyan, Liu, Tao, Ding, Yuning, Artemova, Kalya, Tutubalina, Elena, Zhawal, Gerardo

Version 120 of the dataset. MAJOR CHANGE NOTE: The dataset files: full_dataset.tsv.gz and full_dataset_clean.tsv.gz have been split in 1 GB parts using the Linux utility called Split. So make sure to join the parts before unzipping. We had to make this change as we had huge

Updated on June 23, 2022

Published in Epidemiology, vol. 3, issue 5, pp. 315-324.

120 more versions exist for this record

A qualitative RT-PCR assay for the specific identification of the SARS-CoV-2 B.1.1.529 (Omicron) Variant of Concern

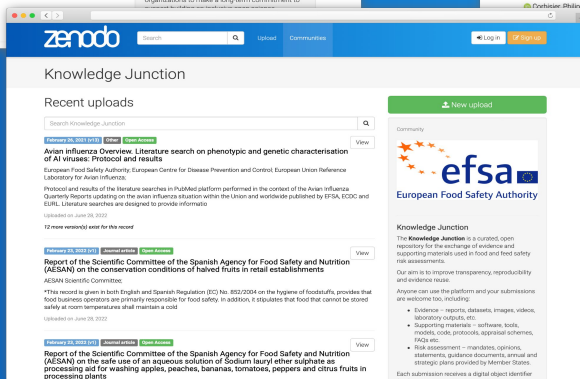
Prabhuase, Ashwin, Perillo, Mauro, Marchi, Antonio, Quarc, Mariakelena, Bhatnagar, Ashish, Bakshi, Madan, Srinivasan, Sridhar, Forstgaard, Anders, Van den Beek, Guy

The aim of this study was to develop a RT-PCR assay (VOC) as a rapid alternative to sequenced-verified samples co

Updated on June 23, 2022

Coronavirus Disease Research Community - COVID-19

This community collects research outputs that may be relevant to the Coronavirus Disease (COVID-19) or the SARS-CoV-2. Scientists are encouraged to upload their outcome in this collection to facilitate



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Knowledge Junction

Recent uploads

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View []

Axian influenza Overview, Literature search on phenotypic and genetic characterisation of AI viruses, Protocol and results

European Food Safety Authority, European Centre for Disease Prevention and Control, European Union Reference Laboratory for Avian Influenza

Protocol and results of the literature searches in PubMed published in the context of the Avian Influenza Quarterly Reports ongoing on the avian influenza situation within the Union and worldwide published by EFSA, ECDC and ECDC. Literature searches are designed to provide information

Updated on June 06, 2022

12 more versions exist for this record

Report of the Scientific Committee of the Spanish Agency for Food Safety and Nutrition (AESAN) on the conservation conditions of halved fruits in retail establishments

AESAN Scientific Committee

*This record is given in both English and Spanish (Español) (EC No. 853/2004 on the hygiene of foodstuffs, provides that food business operators are primarily responsible for food safety; in addition, it stipulates that food that cannot be stored safely at room temperature shall maintain a cold

Updated on June 06, 2022

Report of the Scientific Committee of the Spanish Agency for Food Safety and Nutrition (AESAN) on the safe use of an aqueous solution of Sodium lauryl ether sulphate as processing aid for washing apples, peaches, bananas, tomatoes, peppers and citrus fruits in processing plants

efsa European Food Safety Authority

Knowledge Junction

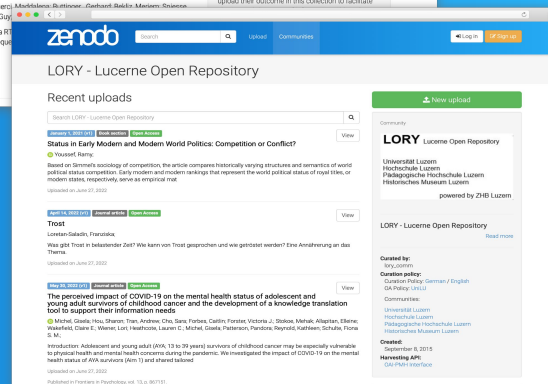
The Knowledge Junction is a curated open repository for the exchange of evidence and supporting materials used in food and feed safety risk assessments.

Our aim is to improve transparency, reproducibility and evidence reuse.

Anyone can use the platform and your submissions are welcome too, including:

- Evidence - reports, datasets, images, videos, supporting materials, etc.
- Supporting materials - software tools, models, code, protocols, assessment schemes, FAQs, etc.
- Risk assessment - narratives, opinions, statements, guidance documents, annual and strategic plans provided by Member States.

Each submission receives a digital object identifier



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LORY - Lucerne Open Repository

Recent uploads

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View []

Status in Early Modern and Modern World Politics: Competition or Conflict?

Walden, Beny

Based on Sherrin's sociology of competition, the article compares historically varying structures and semantics of world political systems: competition, early modern and modern kingdoms that represent the world political state of royal title, or modern states, respectively, serve as empirical case

Updated on June 27, 2022

Trost

Loenen-Geldijk, Françoise

Was gibt Trost in belastender Zeit? Wie kann von Trost gesprochen und wie gestaltet werden? Eine Annäherung an das Thema.

Updated on June 27, 2022

The perceived impact of COVID-19 on the mental health status of adolescent and young adult survivors of childhood cancer and the development of a knowledge translation tool to support their information needs

Michel, Ghislain, Ho, Sharon, Tan, Andrew, Chu, Sara, Fortner, Carlin, Farnes, Victoria, J., Shook, Mehak, Allaman, Elene, Wawrzyniak, Clara E., Wawrzyniak, Lauren E., Michel, Ghislain, Patterson, Theodor, Bennett, Kathleen, Schulte, Florine S. M.

Introduction: Adolescent and young adult (AYA, 13 to 39 years) survivors of childhood cancer may be especially vulnerable to physical health and mental health concerns during the pandemic. We investigated the impact of COVID-19 on the mental health status of AYA survivors (AYA 13+) and explored related

Updated on June 27, 2022

Published in Frontiers in Psychology, vol. 10, pp. 877077

LORY - Lucerne Open Repository

powered by ZENODO

Created by: Beny Walden

Current policy: German Policy / German / English / DA Policy / Latin

Communities: Universität Luzern, Hochschule Luzern, Pädagogische Hochschule Luzern, Historisches Museum Luzern

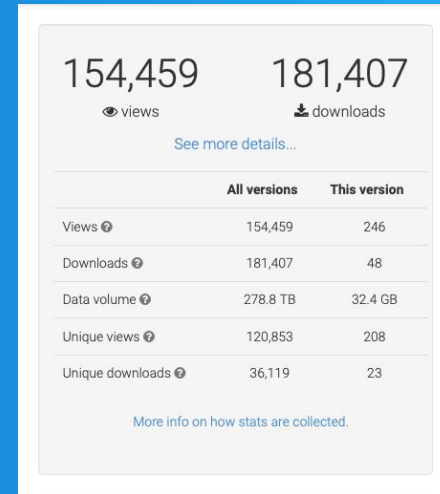
Created: September 6, 2015

Harvesting API: Zenodo

Metrics and statistics

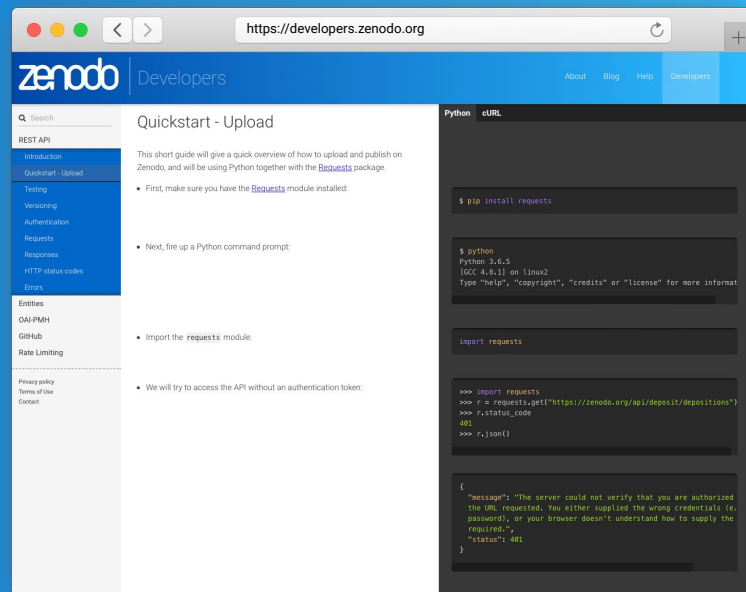
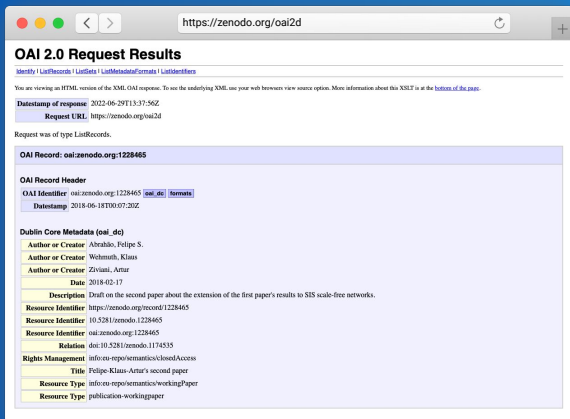
When data is disseminated...

- We can compare to other sites
- They can be aggregated



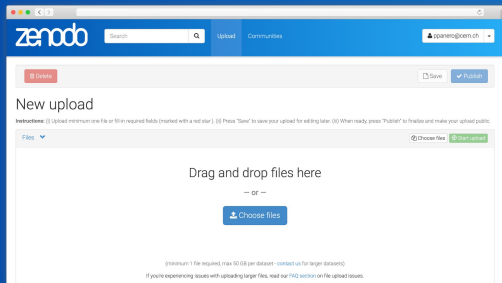
OAI-PMH and RESTful API

- Features developed with “REST API”-first mindset
- OAI-PMH for harvesting parts of Zenodo (open access, communities)

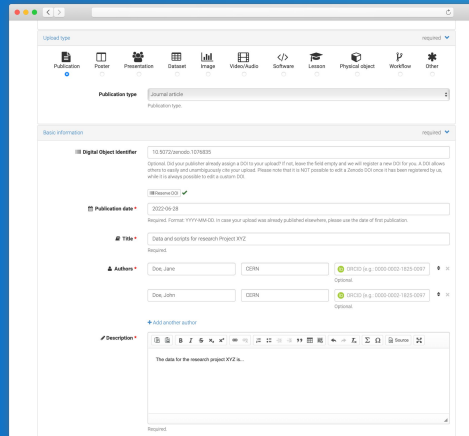


3 simple steps!

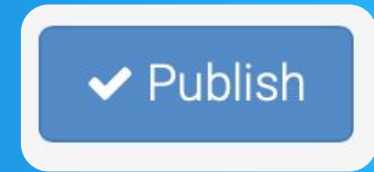
Upload files



Describe

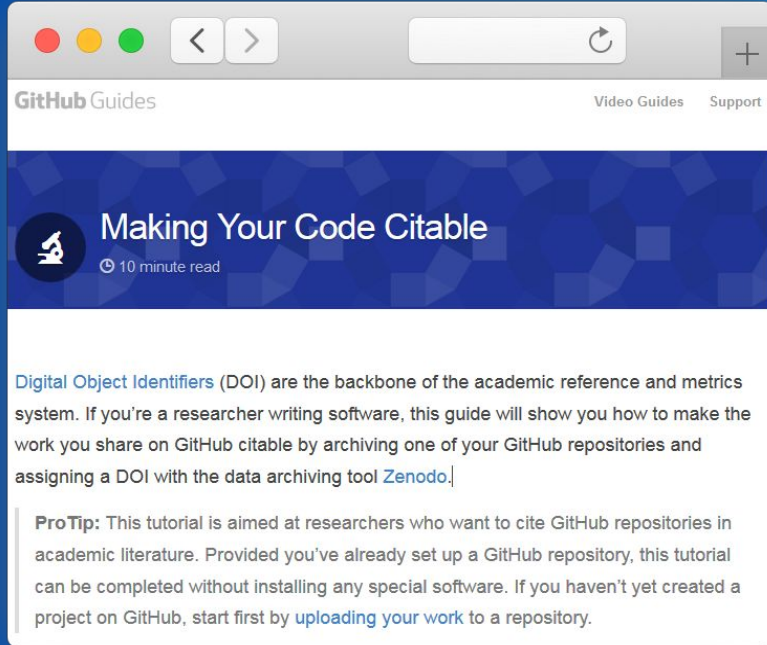


Publish!



What about software?

GitHub integration



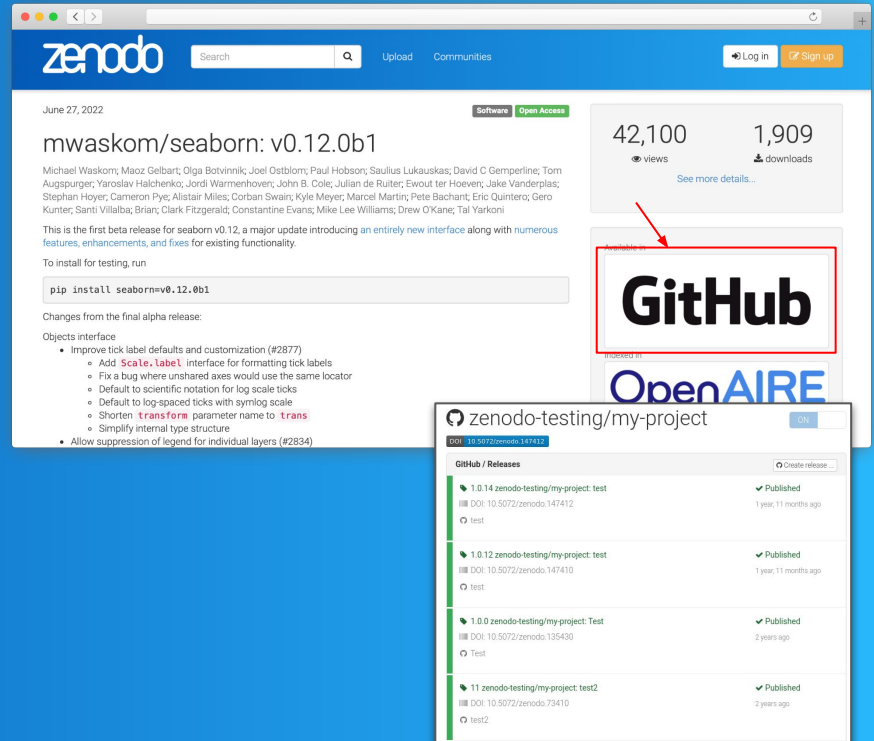
GitHub Guides Video Guides Support

Making Your Code Citable

10 minute read

Digital Object Identifiers (DOI) are the backbone of the academic reference and metrics system. If you're a researcher writing software, this guide will show you how to make the work you share on GitHub citable by archiving one of your GitHub repositories and assigning a DOI with the data archiving tool [Zenodo](#).

ProTip: This tutorial is aimed at researchers who want to cite GitHub repositories in academic literature. Provided you've already set up a GitHub repository, this tutorial can be completed without installing any special software. If you haven't yet created a project on GitHub, start first by [uploading your work to a repository](#).



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June 27, 2022 Software Open Access

mwaskom/seaborn: v0.12.0b1

42,100 views 1,909 downloads [See more details...](#)

Michael Waskom; Maoz Gelbart; Olga Botvinnik; Joel Ostblom; Paul Hobson; Saulius Lukauskas; David C Gemperline; Tom Augspurger; Yaroslav Halchenko; Jordi Warmenhoven; John B. Cole; Julian de Ruijter; Ewout ter Hoeven; Jake Vanderplas; Stephan Hoyer; Cameron Pye; Alistair Miles; Corban Swain; Kyle Meyer; Marco Martin; Pete Bachant; Eric Quintero; Gero Kunter; Santi Villalba; Brian; Clark Fitzgerald; Constantine Evans; Mike Lee Williams; Drew O'Kane; Tal Yarkoni

This is the first beta release for seaborn v0.12, a major update introducing an entirely new interface along with numerous features, enhancements, and fixes for existing functionality.

To install for testing, run

```
pip install seaborn==v0.12.0b1
```

Changes from the final alpha release:

Objects interface

- Improve tick label defaults and customization (#2877)
 - Add **Scale**, **Label** interface for formatting tick labels
 - Fix a bug where unshared axes would use the same locator
 - Default to scientific notation for log scale ticks
 - Default to log-spaced ticks with **symlog** scale
 - Shorten **transform** parameter name to **trans**
 - Simplify internal type structure
- Allow suppression of legend for individual layers (#2834)

GitHub

zenodo-testing/my-project

DOI: 10.5072/zenodo.147412

GitHub / Releases Create release...

1.0.14 zenodo-testing/my-project: test	✓ Published
DOI: 10.5072/zenodo.147412	1 year, 11 months ago
test	
1.0.12 zenodo-testing/my-project: test	✓ Published
DOI: 10.5072/zenodo.147410	1 year, 11 months ago
test	
1.0.0 zenodo-testing/my-project: Test	✓ Published
DOI: 10.5072/zenodo.135430	2 years ago
Test	
11 zenodo-testing/my-project: test2	✓ Published
DOI: 10.5072/zenodo.73410	2 years ago
test2	

REANA integration

The screenshot shows the Zenodo record page for the dataset 'Excess of mortality data processing'. The page includes the Zenodo logo, search bar, and navigation links. The record title is 'Excess of mortality data processing' by Anna Ferrari, Ines Pinto Pereira Da Cruz, Nihal Ezgi Yuceturk, and Alexandros Ioannidis. It is categorized as 'Software' and 'Open Access'. The record has 138 views and 196 downloads. A file tree is visible, showing the main file 'circular-health-data-processing-v0.2.1.zip' and its sub-files. The 'Execute on:' section shows a button for 'REANA'.

zenodo Search Upload Communities Log in Sign up

December 3, 2021 Software Open Access

Excess of mortality data processing

Anna Ferrari; Ines Pinto Pereira Da Cruz; Nihal Ezgi Yuceturk; Alexandros Ioannidis

Other(s)
Claudio Buongiorno Sottoriva

Download and Standardize French, Italian, English and European all causes mortality data.

Preview

- circular-health-data-processing-v0.2.1.zip
- circular-health-data-processing-v0.2.1
 - gignore 711 Bytes
 - README.md 76 Bytes
 - circular-health-data-processing
 - download_and_clean.py 3.7 kB
 - eu_map.ipynb 17.7 kB
 - normalization.py 2.0 kB
 - requirements.txt 143 Bytes
 - src
 - datasets_download_and_clean
 - change_column_type.py 1.6 kB
 - column_filter.py 517 Bytes
 - convert_dateformat.py 2.1 kB
 - convert_values.py 534 Bytes
 - data_to_dataframe.py 2.1 kB
 - download.py 1.7 kB
 - download_parameters_europe.json 1.6 kB
 - download_parameters_france.json 4.9 kB
 - download_parameters_italy.json 6.1 kB

Files (46.2 MB)

Indexed in
OpenAIRE

Publication date:
December 3, 2021

DOI:
DOI 10.5281/zenodo.6653276

Execute on:
Launch on REANA

Related identifiers:
Compiled by
https://reana.cern.ch/launch?url=https%3A%2F%2Fzenodo.org%2Frecord%2F6653276%2Ffiles%2Fcircular-health-data-processing-v0.2.1.zip

Communities:
Circular Health

License (for files):
Creative Commons Attribution 4.0 International

The screenshot shows the REANA interface for the same dataset. It features the REANA logo and navigation links. The main heading is 'Launch on REANA'. Below it, the dataset title and DOI are displayed, along with a 'Launch' button. The file name 'reana.yaml' is also visible.

reana Help

Launch on REANA

Excess of mortality data processing
<https://zenodo.org/record/6653276/files/circular-health-data-processing-v0.2.1.zip> Launch

reana.yaml

A red-bordered callout box with the text 'Execute on:' followed by a 'Launch on REANA' button. A red arrow points from the 'Execute on:' text to the 'REANA' part of the button in the screenshot above.

Execute on:
Launch on REANA

Why use Zenodo?

Why not...?

Prevent research invalidation

- Data cannot be changed
- Data cannot be removed

Improve citability and findability

- DOI, URLs do not change



Why use Zenodo?

Why use Zenodo?

Trust



Sustainability / Archiving plan

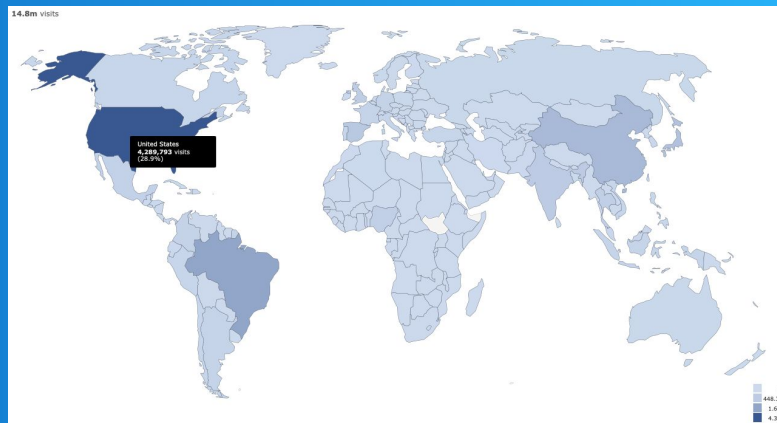
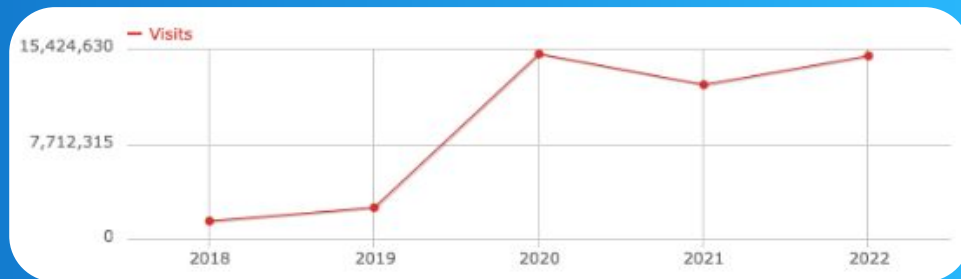
+10y of experience



Open Source

Zenodo in numbers

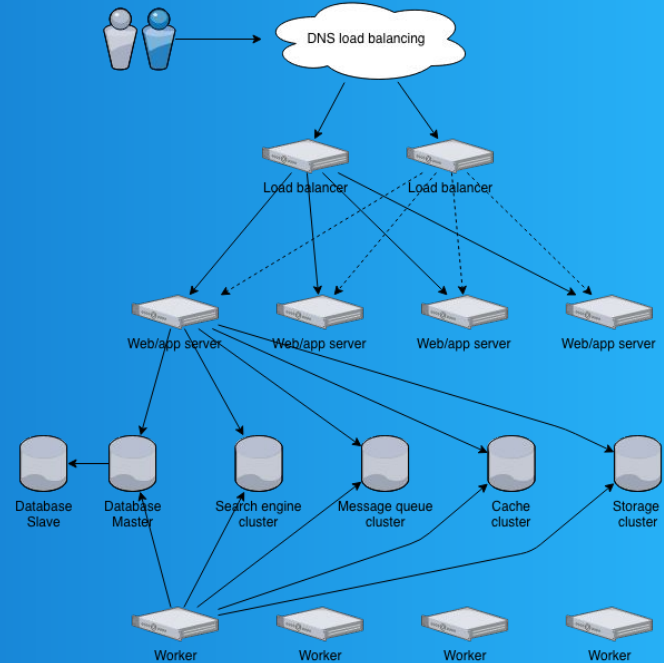
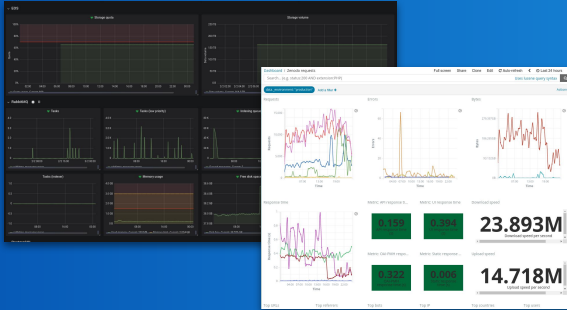
- ~2.8M records
 - 1.5M text
 - 750k images
 - **200k software**
 - 200k datasets
- ~1PB data, ~8M files
- 15M visitors/year
 - **Already 14.8M as of June 2022**



How does Zenodo look?

Architecture

- Monolith, no microservices
- Layered architecture
- Operations and incident response



Technology stack



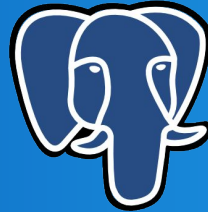
SQLAlchemy



python



elasticsearch



PostgreSQL



redis

Coming soon!

InvenioRDM

- Turn-key RDM solution
- Based on Invenio and Zenodo's
- 21+ partners
- Maximize impact
- Minimize costs
- Optimize Efforts

The screenshot shows the top section of the InvenioRDM website. At the top center is the InvenioRDM logo, which consists of a magnifying glass icon followed by the text 'RDM'. Below the logo is the tagline 'The turn-key research data management repository' and a release announcement: '🚀 July 12, 2022: InvenioRDM v9.1 Released'. Below this header is a grid of logos for various partner institutions and organizations, including Brookhaven National Laboratory, Caltech Library, CERN, Cornell University, data futures, eXtreme KOnNECT, GEO GROUP ON EARTH OBSERVATIONS, HZDR HELMHOLTZ ZENTRUM DRESDEN ROSENDOORF, INFN, JRC, NYU, NORTHWESTERN UNIVERSITY, OpenAIRE, TIND, ULAKBIM, TU Graz, TU WIEN, Universität Hamburg, WWU MÜNSTER, UNIVERSITÄT TUBINGEN, and WUGREN.

zenodo

- **Archive** your data and software...
- Make it **citable**...
- Do it easily!

zenodo.org