

# OPEN RESEARCH GLOSSARY

This glossary is designed to be a resource to inform people about the culture of 'open scholarship'.

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## Core Definitions

- **Open Access (OA)** - making peer reviewed scholarly manuscripts freely available via the Internet, permitting any user to read, download, copy, distribute, print, search, or link to the full text of these articles, crawl them for indexing, pass them as data to software, or use them for any lawful purpose, without financial, legal or technical barriers other than those inseparable from gaining access to the internet itself. The only constraint on reproduction and distribution, and the only role for copyright in this domain, should be to give authors control over the integrity of their work and the right to be properly acknowledged and cited. May also refer to theses, books, book chapters, monographs and other content. ([BOAI](#))
- **Open data** - making data freely available on the public internet permitting any user to download, copy, analyse, re-process, pass them to software or use them for any other purpose without financial, legal, or technical barriers other

than those inseparable from gaining access to the internet itself. ([Panton Principles](#))

- **Open Educational Resources (OER)** - high quality, openly licensed, online educational materials for sharing, use, and reuse. They act as a mechanism for instructional innovation as networks of teachers and learners share best practices. ([Source](#))
- **Open Source Software (OSS)** - availability of source code for a piece of software, along with an [open source license](#) permitting reuse, adaptation, and further distribution. ([Wikipedia](#))
- **Article Processing Charge (APC)** - a fee charged to the author, creator, or institution to cover the cost of an article, rather than charging the potential reader of the article. APCs may apply to both commercial and Open Access publications. APCs are sometimes charged to authors in order to cover the cost of publishing and disseminating an article in an Open Access scholarly journal. ([Source](#))
- **Repository (article)** - an archive to deposit manuscripts. These can be personal, institutional, on websites such as [ResearchGate](#) or [Academia.edu](#), or subject-based such as [arXiv](#).
- **Repository (software)** - a collection of files managed with version control software (e.g., bzt, hg, git, csv, svn, etc.). Can be hosted by third-party (e.g., github, bitbucket, sourceforge), by an institution, or self-hosted locally.
- **Institutional Repository** - An online database designed to collect the intellectual output of a particular institution or university, including digital collections such as electronic theses and dissertations (ETDs), pre-prints, or faculty scholarship, and presents associated metadata regarding the these items. ([Source](#))
- **Embargo period** - a length of time imposed on a research output for users who have not paid for access, or do not have institutional access, before it is made freely available.
- **Reproducibility** - the similarity between results of a study or experiment and independent results obtained with the same methods but under different conditions (i.e., pertains to results).
- **Repeatability** - the similarity between results of a study or experiment and independent results obtained with the same methods and under identical conditions (i.e., pertains to methods and analysis).
- **Publishing** - to make a research output available to the public. Commonly refers to the release of works by publishers, irrespective of whether public access is granted or not.
- **Sharing** - the joint use of a resource or space. A fundamental aspect of collaborative research. As most research is digitally-authored & digitally-published, the resulting digital content is non-rivalrous and can be shared without any loss to the original creator.
- **Paywall** - restriction via a financial barrier to research, often implemented by legacy publishers. Can be removed by personal or institutional subscription. See Loginwall for a barrier that prevents access, without asking for money to unlock access.

- **Funder** - an institute, corporation or government body that provides financial assistance for research.
- **Publisher** - a company whose purpose is to make the outputs of research publicly available.
- **Creative work** - An original, identifiable piece of content, such as an academic paper, a diagram, a photograph, or a video clip. Owners of creative works have rights, such as copyright, that they might reserve to keep control of the content, or relinquish to allow others to share and reuse that content.
- **Intellectual property (IP)** - a legal term that refers to creations of the mind. Examples of intellectual property include music, literature, and other artistic works; discoveries and inventions; and phrases, symbols, and designs.
- **Intellectual Property Rights (IPR)** - the rights given to the owners of intellectual property. IPR is protected either automatically (eg copyright, design rights) or by registering or applying for it (eg trademarks, patents). Protecting your intellectual property makes it easier to take legal action against anyone who steals or copies it. IPR can be legally sold, assigned or licenced by the creator to other parties, or joint-owned.
- **Copyright** - The aspect of Intellectual property that gives creators the right to permit (or not permit) what happens to their creations, as opposed to trademark rights or moral rights.
- **Copyleft** - a form of licensing that makes a creative work freely available to be modified, and requiring all modified and extended versions of the creative work to be free as well. Open Access does not require works to be copyleft, nor does it necessarily exclude copyleft works from being open access. The recommended licence (CC-BY) for academic publishing is not copyleft.
- **Subscription** - a form of business model whereby a fee is paid in order to gain access to a product or service - in this case, the outputs of scholarly research.
- **Toll access** - whereby a fee is required to pass a paywall to access research.
- **Legacy publisher** - a publisher that historically has operated on a paywall-based business model.
- **Open access publisher** - a publisher that publishes all research articles as open access articles. Most legacy publishers have options to make journals at least partially open access.
- **Open access journal** - a journal that exclusively comprises open access articles.
- **Impact** - the scale of use of research outputs both inside and outside of academia.
- **Self-archiving** - making a copy of a manuscript available through a personal website, institutional repository, or other repository.
- **Scholarly Communication** - The creation, transformation, dissemination, and preservation of knowledge related to teaching, research, and scholarly endeavors; the process of academics, scholars and researchers sharing and publishing their research findings so that they are available to the wider academic community. The creation, transformation, dissemination, and preservation of knowledge related to teaching, research, and scholarly endeavors; the process of academics, scholars and researchers sharing and

publishing their research findings so that they are available to the wider academic community. (Sources: [Wikipedia](#), [University of Pittsburgh](#))

## Types of Open Access

- **Pre-print** - a manuscript draft that has not yet been subject to formal peer review, distributed to receive early feedback on research from peers.
- **Post-print** - a manuscript draft after it has been peer reviewed.
- **Version of Record (VOR)** - the final version of a manuscript, after peer review and processing by a publishers.
- **Hybrid** - a type of journal in which certain articles are made open access for typically a significantly higher price (relative to full OA journals), while others remain toll access.
- **Accepted author manuscript** - the version of a manuscript that has been accepted by a publisher for publication.
- **Eprint** - a digital version of a research document available online for a repository.

## Depreciated terms

*the use of which is not encouraged as they are typically poorly-understood:*

- **Green OA** - making a version of the manuscript freely available in a repository.
- **Gold OA** - making the final version of manuscript freely available immediately upon publication by the publisher.
- **Gratis OA** - the paper is available to read free-of-charge, though its reuse is still restricted, for example by 'All Rights Reserved' copyright. ([source](#))
- **Libre OA** - the paper is made available under an open licence, allowing it to be shared and reused, depending on which licence is used. ([source](#)) (Libre and Gratis refer to copyright and licensing restrictions)
- **Diamond OA** - a form of gold open access in which there is no author fee (APC).

## Declarations And Principles

Taken from:([source](#))

- [The Declaration of Helsinki](#) - 1964
- [Declaration of Havana Towards Equitable Access to Health Information](#) - 2001
- [Budapest Open Access Initiative \(BOAI\)](#) - 2002
- [The Bethesda Statement on Open Access Publishing](#) - 2003
- [The Declaration of Berlin on Open Access to Knowledge in the Sciences and Humanities](#) - 2003
- [Kronberg Declaration on the Future of Knowledge Acquisition and Sharing](#) - 2007
- [The Declaration of Brisbane](#) - 2007
- [Panton Principles for Open Data](#) - 2009
- [The Cost of Knowledge Manifesto](#) - 2012

- [The San Francisco Declaration on Research Assessment \(DORA\) - 2013](#)

## Licensing

- **Creative Commons** - A suite of licences that set out the rights of authors and users, providing alternatives to the standard copyright. CC licences are widely used, simple to state, machine readable and have been created by legal experts. There are a variety of CC licences, each of which use one or more clauses, examples of which are given below. Some licences are compatible with Open Access in the Budapest sense, and some are not. ([Source](#)) ([Choosing a license](#))
- **CC Attribution (BY)** - a licence clause that allows the reuse, sharing, and remixing of materials providing the original author is appropriately attributed. Aside from attribution the CC-BY licence has no other restrictions on copying. Compatible with free cultural works.
- **CC NonCommercial (NC)** - a licence clause allowing the reuse, sharing, and remixing of materials providing that it is for non-commercial purposes. Not compatible with free cultural works.
- **CC NoDerivatives (ND)** - a licence clause requiring that derivatives are not made of the original works. Not compatible with free cultural works.
- **CC ShareAlike (SA)** - a licence clause requiring that derivative works have the same licence as the original. Compatible with free cultural works.
- **CC 0** - waiver of copyright; no rights reserved. Places content as openly as possible in the public domain. ([Source](#))
- **BSD (Berkeley Software Distribution)** - A family of UNIX-like operating systems. ([Wikipedia](#))
- **GNU GPL (General Public License)** - A free copyleft license for software and other kinds of works ([Source](#))
- **Apache License** - A free software license by the Apache Software Foundation. ([Source](#))
- **MIT License** - An open and permissive software license. ([Source](#))
- **Author Addendum** - An author addendum is a supplemental or added agreement to a publishing contract that defines or changes the terms of the contract, often focusing on the transfer of copyright ownership. For authors of scholarly works, an author addendum to a publisher's standard publication contract may be necessary to help ensure that authors protect important rights, such as the right to post their articles online to a personal website or in a digital repository; the right to use their works within a classroom setting; or the right to use their works as the foundation for future research. ([Source](#))

## Journal Types

- **Megajournal** - a journal with editorial criteria based on scientific soundness instead of a priori estimated newsworthiness or 'impact'.
- **Journal** - an aggregation of published research articles. Historically divided into volumes and issues.

- **Overlay journals** - An open access, electronic journal that does not produce its own content, but selects and curates groups of articles that are already freely available online. An example of this is an 'Epijournal'. ([Wikipedia](#))
- **Epub** - A free and open [e-book](#) standard by the [International Digital publishing Forum](#).
- **Hybrid journal** - Some traditional journals offer an option for authors to make their individual articles freely accessible to anyone worldwide, for an additional fee. Other articles in the journal remain accessible only through subscription. Such journals are known as "hybrid journals." ([Source: MIT](#))
- **Library-based publishing** - Many academic libraries are now beginning to act as publishers for scholarly works produced in their institutions and elsewhere. In some cases, the library works with the university scholarly press to publish works. In other cases, the library publishes works independently or separately from the academic press. Library-based publishers are often strongly in favor of Open Access. ([Library Publishing Coalition](#))

## Peer Review

- **Peer review** - a process by which a research article is vetted by experts in community before publication. ([Sense About Science](#))
- **Post publication peer review** - standard peer review, but after a research article has been formally published.
- **Transferable peer review** - reviews that travel with a paper if it is rejected from a journal. ([Wiley pilot](#))
- **Open review** - when reviews are made openly available, typically alongside the article.
- **Signed peer review** - when the individual reviews are publicly signed by those who conducted them.
- **Portable peer review** - independent peer review that travels with a manuscript that is submitted to subsequent different journals, designed to combat redundancy in the peer review process. ([Rubriq](#))
- **Double blind peer review** - when the reviewers don't know who the authors are, and vice versa.
- **Registered Reports** - A type of publication in which peer review of the suggested method is completed prior to data collection and analysis. Accepted papers then are guaranteed publication in the journal if the authors follow through with the registered methodology ([Source](#))

## Assessment And Metrics

- **Altmetrics** - Altmetrics are alternative ways of recording and measuring the use and impact of scholarship. Rather than solely counting the number of times a work is cited in scholarly literature, alternative metrics also measure and analyze social media (e.g., Facebook, Twitter, blogs, wikis, etc.), document downloads, links to publishing and unpublished research, and other uses of

research literature, in order to provide a more comprehensive measurement of scholarships reach and impact. ([Source](#))

- **Article-level metrics** - all types of article-level metrics including download and usage statistics, citations, and article-level altmetrics ([Source](#)).
- **Bibliometrics** - Bibliometrics is the branch of library and information science concerned with the application of mathematical and statistical analysis to bibliography. Bibliometrics involves the statistical analysis of books, articles, or other publications.
- **Impact factor** - a numerical measure that indicates the average number of citations to articles published over the previous two years in a journal, and frequently used as a proxy for a journal's relative importance.
- **H-index** - a personal metric that relates the number of citations to the number of published papers for an academic. ([Wikipedia](#))
- **Journal level metrics** - metrics that apply to all papers published within a journal. A common example is Thomson Reuters' journal impact factor.

## Tools And Technology

- **Extensible Markup Language (XML)** - A language that defines a set of rules for encoding documents in a format that is readable by both machines and humans. ([Wikipedia](#))
- **Machine readable** - data or metadata in a format that can be understood by a computer.
- **Machine Readable Cataloguing (MARC)** - a set of digital formats for the description of items catalogued by libraries. ([Wikipedia](#))
- **Data mining** - an analytic process designed to explore data in search of consistent patterns and/or systematic relationships between variables, and then to transform this information into content for future use. ([Wikipedia](#))
- **Content mining** - large-scale extraction of information from content (e.g., photographs, videos, audio, metadata), usually involving thousands of items. (The [ContentMine](#))
- **Comma-Separated Values, or Character-Separated Values (CSV)** - a plain-text (non-binary) format for tabular data.
- **Hypertext Markup Language (HTML)** - the set of markup symbols or codes inserted in a file intended for display on a browser page. ([Wikipedia](#))
- **LaTeX** - a markup language for typesetting documents, particularly common in mathematics and the sciences. Many academic journals accept submissions in LaTeX. ([Source](#))
- **Digital Object Identifier (DOI)** - a unique text string that is used to identify digital objects such as journal articles or open source software releases. ([Source](#))
- **Journal Article Tag Suite (JATS)** - a common XML format in which publishers and archives can exchange journal content. ([Source](#))
- **Uniform Resource Identifier (URI)** - a string of characters used to identify a name of a resource to enable its digital and networked representation and interaction. ([Wikipedia](#))



- **GitHub** - a web-based service that provides a source code repository that works exclusively with the Git command-line tool. ([Source](#))
- **Git** - an open-source, distributed revision control system. ([Source](#))
- **Bitbucket** - Free source code hosting site. ([Source](#))
- **IPython notebook** - a web-based interactive computational environment where you can combine code execution, text, mathematics, plots and rich media into a single document. ([Source](#))
- **AnnotatorJS / Hypothes.is** - A framework and application for annotating resources online according to an [emerging W3C standard for web annotations](#). Focus is on scholarly applications. ([Source Annotator](#) / [Source Hypothes.is](#))
- **DSpace** - a software for digital open repositories launched by The Massachusetts Institute of Technology (MIT) in 2002. ([Source](#))
- **Flexible Extensible Digital Object and Repository Architecture (FEDORA)** - a software for digital repositories launched by The Cornell and Virginia Universities in 2003. ([Source](#))
- **Eprints** - a software for open digital repositories to self-archiving launched by Southampton University in 2000. ([Source](#))
- **OAI Media Importer Bot** - A computer program, run by [Daniel Mietchen](#), that takes figures and video clips from Open Access articles in PubMed, and copies them to [Wikimedia Commons](#) with full attribution of the original paper. This facilitates the reuse of those files in educational materials or Wikipedia articles.
- **Scraping** - a computing technique to extract information from websites. ([Wikipedia](#))
- **Scalable Vector Graphics (SVG)** - a format for images that is open rather than tied to particular software, resolution-independent (unlike GIF, PNG and JPG), and structured so that with appropriate software it is relatively easy, for example, to translate labels into different languages.
- **Open Journal Systems (OJS)** - a journal management and publishing system. ([Source](#))
- **Open Monograph Press** - an open source software platform for managing the editorial workflow required to see monographs, edited volumes, and scholarly editions through internal and external review, editing, cataloguing, production and publication. ([Source](#))
- **Open Conference Systems (OCS)** - a free Web publishing tool that will create a complete Web presence for scholarly conferences. ([Source](#))
- **Open Harvester Systems** - a free metadata indexing system. ([Source](#))
- **ResearcherID** - assigns a unique identifier for researchers to manager publication ists, track citations, and avoid author mis-identification. ([Source](#))
- **ORCID** - a persistent digital identifier that distinguishes individual researchers. Also supports integration in research workflows. ([Source](#))
- **ProtocolsIO** - Up-to-date crowdsourced protocol repository ([Source](#))
- **Publish or Perish** - software for retrieving and analysing academic citations. ([Source](#))
- **Open lab notebooks** - a concept of blogging about research on a regular basis, such that research notes and data are accumulated and published online as soon as they are obtained. ([Wikipedia](#))



- **Stack Overflow** - A Question and Answer site for programming issues. ([Source](#))
- **Markdown** - a syntax for adding formatting to documents allowing correctly formatted articles to be written in plain text. ([Wikipedia](#))
- **Etherpad** - An online, open source collaborative writing/editing tool operating in real time. ([Source](#))
- **The Open Access Button** - Tracks global encounters with paywalls, and helps provide access to papers through a 'wishlist'. ([Source](#))
- **Open Archives Initiative** - Supplies a common framework to web communities that allows them to gain access to content in a standard manner by means of metadata harvesting. ([Source](#))

## Data Repositories

- **Dryad** - a curated resource that makes the data underlying scientific publications discoverable, freely reusable, and citable. ([Source](#))
- **Global Biodiversity Information Facility (GBIF)** - contains data about all types of life on Earth, published according to common data standards. ([Source](#))
- **Knowledge Network for Biocomplexity (KNB)** - a network for the discoverability, access, and interpretation of complex ecological data. ([Source](#))
- **DataONE** - a framework and infrastructure for Earth observational data. ([Source](#)).
- **figshare** - a repository where users can make all of their research outputs available in a citable, shareable, and discoverable manner. ([Source](#))
- **Morphbank** - an image database documenting a range of specimen-based research, including comparative anatomy and taxonomy. Funded by the National Science Foundation. ([Source](#))
- **Morphobank** - a web application for collaborative evolutionary research, specifically phylogenetic systematics or cladistics, involving morphology. ([Source](#))
- **Genbank** - the NIH sequence database comprising an annotated collection of all publicly available DNA sequences. Part of the [International Nucleotide Sequence Database Collaboration](#). ([Source](#))
- **UniProt** - Central repository of protein sequence and annotation data. ([Source](#))
- **Worldwide Protein Data Bank (wwPDB)** - Publicly available repository of macromolecular structural data. ([Source](#))
- A [list of data repositories](#) approved by F1000Research.
- **Map of Open Educational Resource Repositories** - Map containing locations for items in the directory of Open Educational Resource Repositories. ([Source](#))
- **Zenodo** - An all-purpose free to use repository for all research outputs. DOIs and flexible licensing. ([Source](#))
- **Open Science Framework** - A tool created by the Center for Open Science for scientists. It is both a research and workflow management tool and open repository. Their goal is to link up the entire research ecosystem, from conception through publication. They give the user full control over the

openness of their work and allow for the creation of registrations, which can be used when submitting registered reports. ([Source](#))

- **re3data.org** - a global registry of research data repositories from different academic disciplines. ([Source](#))
- **Databib** - a searchable registry of research data repositories ([Source](#)) [Note that the Databib and re3data.org registries will merge by the end of 2015]

## Funders And Policy-Related

- **Publicly funded research** - refers to research which is, at least in part, funded by Governments, often through Research Councils.
- **Research Councils UK (RCUK)** - The primary government research funding body in the UK. ([Open Access policy](#))
- **Joint Information Systems Committee (JISC)** - A UK educational charity, formerly the of HEFCE but now independent. Provides expertise to universities, colleges and cultural institutions on the use of technology to support research, including publication models, repositories, licensing, and infrastructure. ([Source](#))
- **National Institute of Health (NIH)** - The national medical research agency in the USA. ([Public Access policy](#))
- **National Science Foundation (NSF)** - an independent federal agency in the USA for the funding of research. ([Public Access policy](#))
- **Higher Education Funding Council for England (HEFCE)** - a funding body for higher education, universities and colleges in England. ([Open Access policy](#))
- **Wellcome Trust** - A life sciences funding body in the UK ([Open Access policy](#))
- **The Research Excellence Framework (REF)** - An initiative to assess researchers in the UK. Coordinated by HEFCE.
- **Gates Foundation** - A funding body co-ordinated by Melinda and Bill Gates. ([Open Access policy](#))
- **Max Planck Society** - a German research organisation with 82 Institutes worldwide. ([Open Access policy](#))
- **CrossRef** - an association of scholarly publishers that develops shared infrastructure to support more effective scholarly communication. ([Source](#))
- **Public Knowledge Project (PKP)** - a multi-university initiative developing free, open source software and conducting research to improve the quality and reach of scholarly publishing. ([Source](#))
- **Scholarly Publishing and Academic Resources Coalition (SPARC)** - an international alliance of academic and research libraries working to create a more open system of scholarly communication. ([Source](#))
- **Open Access Scholarly Publishers Association (OASPA)** - represents the interests of open access journal and book publishers in all scientific, technical, and scholarly disciplines. ([Source](#))
- **Mandate** - an authority to carry out a policy. In this context, largely to conform to open access policies.
- **OpenAIRE** - a pan-European infrastructure that supports the EC's Open Access Mandate in Horizon2020. All publications funded by the EC should be made

available in Open Access and OpenAIRE harvests from a range of data sources namely repositories, OA publishers. ([Source](#))

- **Department of Energy (DOE)** - A federal agency addressing US energy, environment, and nuclear challenges. ([Public Access Policy](#))

## Open Research Infrastructure

- **Google Scholar** - a freely accessible search engine for indexing the scholarly literature across an array of publishing formats and disciplines. ([Source](#))
- **Directory of Open Access Repositories (OpenDOAR)** - a directory of academic open access repositories. Also has a search function for repositories and repository contents. ([Source](#))
- **Directory of Open Access Journals (DOAJ)** - a directory indexing open access peer-reviewed journals ([Source](#))
- **Registry of Open Access Repositories (ROAR)** - a registry for open access repositories, hosted by the University of Southampton, UK. ([Source](#))
- **Registry of Research Data Repositories** - An open science tool that serves as a global registry of research data repositories. ([Source](#))
- **PubMed** - a repository comprising more than 24 million citations for the biomedical literature. ([Source](#))
- **PubMed Central (PMC)** - a free full-text archive of biomedical and life sciences journal literature at the US National Institutes of Health's Library of Medicine. ([Source](#))
- **Europe PubMed Central (EuroPMC)** - Based on PubMed Central, and part of a network of repositories supported by funders of life sciences and biomedical research. ([Source](#))
- **Repository 66** - a mashup of data from ROAR and OpenDOAR overlaid onto Google maps. ([Source](#))
- **Scientific Electronic Library Online (SciELO)** - a programme started in Brazil in 1998 which has now expanded to 15 other countries, developed by FAPESP (Fundação de Amparo à Pesquisa do Estado de São Paulo) and BIREME (Centro Latino-americano e do Caribe em Informação em Ciências da Saúde). The objectives are to develop a common methodology for the preparation, storage and dissemination of scientific literature, including standardised evaluation and quality control processes. This comprises a model for cooperative electronic publication of scientific periodicals on the internet using organised bibliographic databases with full text access. ([Source](#) ([Portuguese Language](#)) ([English](#)))
- **Securing a Hybrid Environment for Research Preservation and Access - Rights of Metadata for Open archiving (SHERPA-RoMEO)** - a tool to check what the self-archiving policies for individual journals are. ([Source](#))
- **Connecting Repositories (CORE)** - a collection of open access repositories. ([Source](#))

- **Paperity** - a multidisciplinary aggregator of open access journals and papers, Gold and Hybrid. Aims to include ultimately 100% of open access literature. ([Source](#))

## Miscellaneous

- **Open Access Movement (OAM)** - a global movement started in the late 1990s and early 2000s fuelled by the widespread public access to the World Wide Web. Its prime objective is the free and unrestricted access and reuse of the world's knowledge.
- **Open Archives Initiative (OAI)** - develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content. ([Source](#))
- **Openwashing** - having an appearance of open-source and open-licensing for marketing purposes, while continuing proprietary practices. Coined by [Audrey Watters](#).
- **Curation** - the selection, preservation, maintenance, collection and archiving of [digital] assets. Curation establishes, maintains, and adds value to repositories of digital data for present and future use. ([Wikipedia](#))
- **Typesetting** - the composition of text by arranging physical pieces of type or by using software to prepare a version of the text suitable for printing. Stored letters and other symbols are retrieved and ordered according to a language's orthography (conventional spelling system of a language) for visual display.
- **Copy editing** - a type of editing designed to improve the formatting, style, and accuracy of text. It usually does not involve changing the content of the original text.
- **Annotation** - a comment with specific location and context, either inline or in the margin of a text document, or within a region of an image or video, or located within a specific row or cell of data in a data set.
- **Citation** - a reference to a published or unpublished source embedded in content, for the purposes of acknowledging the work and relevance of others to the topic of discussion where the citation appears.
- **References** - defines a relationship between one object, a designator, and a second object, a source. Usually takes the form of a bibliography of academic papers at the end of a research manuscript.
- **Submission fee** - a fee levied by some publishers for submitting a manuscript to their journals.
- **Accessibility** - refers to the degree of access. Defined by an end-user basis, depending on their ability to understand or reuse content.
- **Mixed citation** - a textual, bibliographic description of a work that is cited within text.
- **Data archiving** - the process of moving data to a storage device for long-term preservation. ([Wikipedia](#))
- **Computational reproducibility** - when publishing computational findings, include details and access to the underlying code, data, and implementation.
- **Empirical reproducibility** - the reproduction of results to obtain 'verifiable facts', through improving existing communication standards and reporting.

- **Statistical reproducibility** - validating the statistical results, errors, and confidence measures in research. Also the statistical assessment of repeated results for validation purposes. ([post from Victoria Stodden](#))
- **Loginwall** - the requirement to log in to a system in order to access content.
- **Shibboleth** - a single sign-in system for computer networks and services on the open Internet. ([Wikipedia](#))
- **Athens** - A sign-in system that provides access to library resources. ([Source](#))
- **Symplectic** - A world-leading products and services company specialised in research information management. Their flagship system [Elements](#), is used by a number of the world's research institutions. ([Source](#))
- **Journal to Wiki publication (J2W)** - Copying text from a published paper to a wiki (such as Wikipedia or Wikibooks), with attribution: legally possible if the licence of the paper is less restrictive than the licence of the wiki.
- **Wiki to Journal publication (W2J)** - Creating a paper on a wiki, using its features for collaboration and informal review, for submission to a journal for formal peer review. Might involve a public wiki such as Wikipedia or Wikiversity, or a specially-created wiki.
- **Fee waiver** - If an institution, research funder or author cannot pay for an Article Processing Charge, many publishers or journals will offer partial or total waiving for fees.
- **Derivative work** - A work based upon one or more pre-existing works, such as a translation, musical arrangement, dramatization, fictionalization, motion picture version, sound recording, art reproduction, abridgment, condensation, or any other form in which a work may be recast, transformed, or adapted. ([Source](#))
- **Double-dipping** - In the context of Open Access, double-dipping occurs when a journal has an article processing charge (APC) for publishing an author's work, as well as requiring payment (usually through a subscription fee) by the potential user of the work. This model makes the institution or author pay twice to access the work. ([Source](#))

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Version 2.0: Released [12 July 2015]

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