LA CAJA DE HERRAMIENTAS DEL INVESTIGADOR

ENCONTRAR, LEER Y REDACTAR

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GLOSARIO

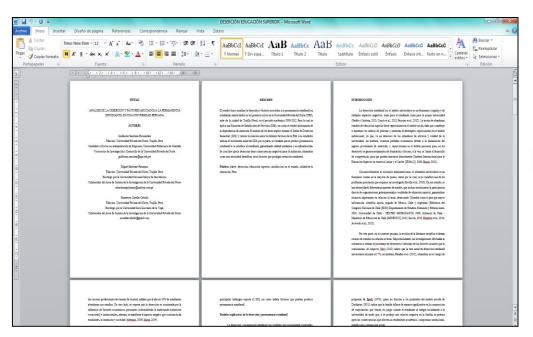


- Manuscrito = documento no publicado que informa los resultados de una investigación, generalmente presenta la estructura I M R y D. Donde, I es Introducción, M es Método, R es Resultados y D es Discusión.
- Artículo científico = documento publicado en una revista científica, generalmente presenta la estructura I M R y D.
- Revista científica = Publicación que contiene artículos científicos. Las revistas científicas además pueden publicar otro tipo de documentos (editoriales, artículos teóricos, artículos metodológicos, reseñas, cartas al editor, noticias, comentarios...). Se pueden identificar dos tipos de revistas científicas: «categoría normal», «de corriente principal».
- Base de datos (Bibliotecas virtuales) = Sistema virtual que agrupa revistas científicas (Algunas agrupan también libros). Determinan la categoría de la revista científica = «categoría normal», «de corriente principal».
- Citación = Cuando otros investigadores consideran de forma explicita el artículo científico en el desarrollo de nuevas investigaciones.



¿CUÁL ES LA ASPIRACIÓN DE LOS INVESTIGADORES?

• En el contexto nacional, se puede afirmar que es hacer público su investigación (Publicar en una revista científica).







¿CUÁL ES LA ASPIRACIÓN DE LOS EDITORES DE LAS REVISTAS CIENTÍFICAS?



• En el contexto nacional, se puede afirmar que es hacer visible la revista. La visibilidad se lograr «indexando o indizando» la revista a una base de datos.



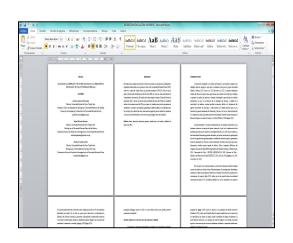






¿CUÁL ES LA ASPIRACIÓN DE LAS UNIVERSIDADES?

 La discusión vigente en relación a la calidad de las universidades está orientando a lograr que sus «académicos» planifiquen, desarrollen y publiquen los resultados de investigaciones científicas, de preferencia, en las revistas denominadas «de corriente principal».









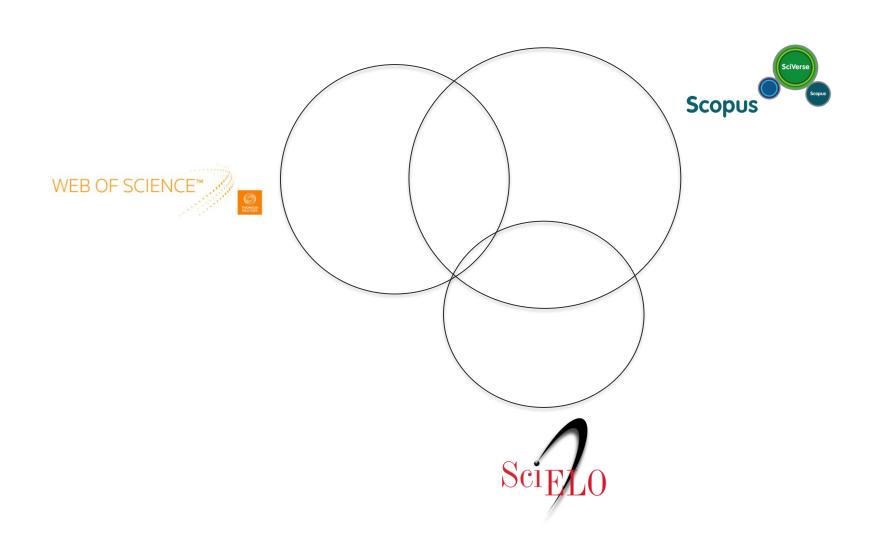


Scopus



BASES DE DATOS QUE AGRUPAN REVISTAS CIENTÍFICAS DE CORRIENTE PRINCIPAL





BASES DE DATOS QUE AGRUPAN REVISTAS CIENTÍFICAS «NORMALES»

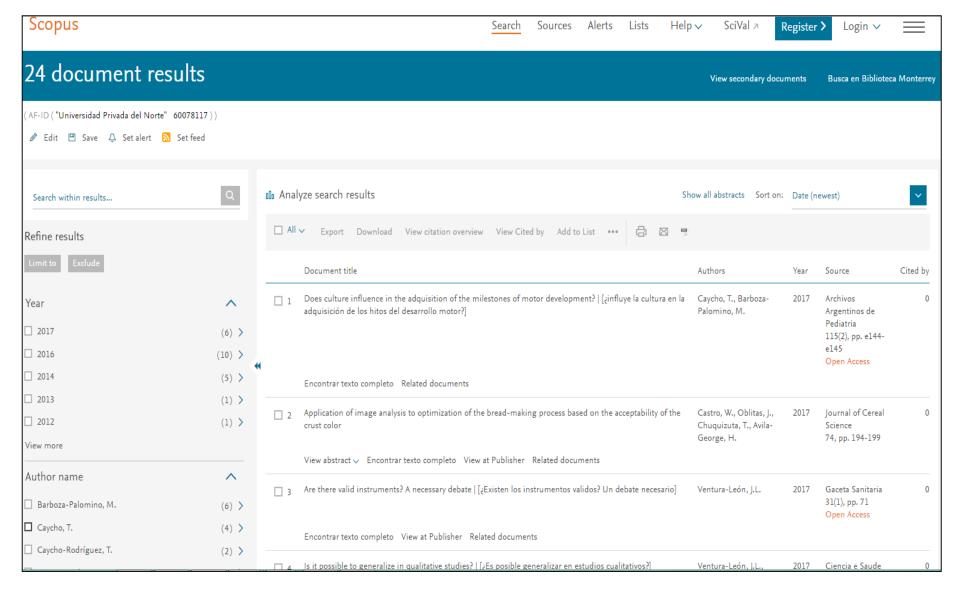








¿CUÁL ES LA ASPIRACIÓN DE LAS UNIVERSIDADES?









LA RUTA DE LA INVESTIGACIÓN CIENTÍFICA (I)



Viewpoint @

Publish or Perish

PHIL CLAPHAM

The physicist Wolfgang Pauli reportedly once told a colleague, "I don't mind your thinking slowly. I mind your publishing faster than you can think." Certainly, biology has its share of individuals whose zeal for publication exceeds the thoroughness of their analyses, and who seem more interested in getting their research into a highprofile journal than in, well, getting it right. But a much larger problem lies with scientists who work for years but rarely submit their results to a refereed journal.

There are many reasons why this failure to publish is a scientific crime. The most obvious is that the information is lost to the world. When the scientist who has studied species X for two decades—and published not one jot of data—gets hit by a truck, most of that knowledge will be buried with him or her. The person lying under the truck's wheels may well have stimulated many colleagues, probably by presenting some findings at conferences (a common dodge to avoid actually writing something up). But without publications, that scientist's work will have been largely wasted.

Part of the problem, if I may be permitted a dubious food-related metaphor, is that some scientists live for the hunt, not for the cooking and serving. These are individuals who love to solve problems. For them, results always lead to more questions, which lead to more studies, which lead to more questions, and on and on. Instead of taking time to write up the work they've finished, they keep returning to the field. The field is fun.

Yet all research scientists—especially if they receive public funding—have a solemn obligation to publish their results. We don't disseminate information just for amusement or academic satisfaction. We do so because, ultimately,

judgments about the management and protection of any animal or plant population should be based upon the best—make that the best available—scientific data. Information that sits around unpublished for years is worthless to managers and to other scientists, and thus does nothing for the conservation of the organisms, we study.

Publications are indeed everything in science. They are the fertilizer (no jokes, please, especially about any of my papers) that stimulates ideas in other scientists. Published knowledge is assimilated by colleagues and leads to more research: hypotheses are modified, rebutted, or confirmed, new paradigms are developed or old ones discarded. In a very real sense, publications are the scientific method.

Another vital reason to publish is peer review. Granted, the peer-review process is far from perfect, and we've all seen papers that are inadequate or just plain wrong, but which nonetheless managed to sneak through review unscathed. Ironically, some of these are in the highest-ranked journals, some of whose reviewers are, I fear, too busy or ill-chosen to do a good job. My friend Paul Wade and I joke about starting a journal called Nature and Science Rebutals; we're convinced it would have a huge following.

But most of the time peer review is a very useful, constructive process. I have probably learned more about the business of conducting research from referec comments than from any other single source. Some of those reviews spared no feelings, but that's olay; I have never taken comments personally when they were given in good faith, which they almost always are.

Those who do not submit their research to peer review are preventing their work from attaining its full potential. Worse, they risk making uncorrectable mistakes in study design. You can fix bad analysis and poor interpretation, but you can never redo a long-term field study. Imagine someone who has toiled away forever without publishing, and who finally submits his or her life's work to a journal—only to be told by the referees that because X, X, and Z weren't incorporated into the study design 10 years ago, the work was largely a waste of effort.

It is all too easy to talk endlessly about one's ideas, and toose who do this often become trapped in an illusory feedback loop. Talk to the public or to any non-specialist audience, and they'll of course tell you how terrific your theories are (they don't know any better); and if you hear enough of this unfettered praise, you may actually start to believe it. But run those same ideas past an expert referee, and you may find them suddenly wilting under the scrutiny.

This brings me to a rather less obvious reason to publish. As someone who has published around 100 papers, I can unequivocally tell you this: committing your work to paper forces you to think about your research in ways that you never will by simply talking about it. First, it requires that you carefully organize that sprawling mass that is your data. When that's done, the act of putting your methods, results, and discussion into words obliges you to define your thoughts quite precisely, and to consider the meaning of your work far more deeply than you ever will for a talk. Start to write, and you'll find ideas occurring to you that had never surfaced before. What's more, reading other papers will expose you to many concepts (and problems) that you had not previously considered. But if you do not do this, you will not be doing your research justiceBASE DE DATOS (WoS, SCOPUS, Scielo)



REVISTA CIENTÍFICA DE CORRIENTE PRINCIPAL



MANUSCRITO

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LA RUTA DE LA INVESTIGACIÓN CIENTÍFICA (II)

POINTS FOR DEBATE

Does 'get visible or vanish' herald the end of 'publish or perish'?

Joanne Doyle^{a*} and Michael Cuthill^b

^aAustralian Digital Futures Institute, University of Southern Queensland, Toowoomba, Australia; ^bInstitute for Resilient Regions, University of Southern Queensland, Toowoomba, Australia

In the contemporary higher education environment, the academic philosophy of 'publish or perish' is being challenged. 'Publish or perish' refers to the pressure in academia to develop and sustain a research career by disseminating research findings in peer-reviewed journals. The philosophy was first documented in 1942 (Garfield, 1996) yet its origins date back to 1665 when peer review was first used as a form of quality control to distinguish scientific journals from book publishing (Tobin, 2002). Peer review remains a principal procedure for judging the quality of research, and weeding out 'the charlatans, the misguided, and the fools' (Gad-el-Hak, 2004, p. 61).

The academic publishing process is important for communicating research findings and demonstrating research quality, and has remained an academic imperative encouraged by research funders and institutional leaders (Colquhoun, 2011). Professional recognition is achieved by publishing in high reputation journals that are regarded as prestigious. Academia tends to reward those with the longest CVs and the most publications (Neill, 2008). Yet there are multiple issues with using academic metrics for determining research quality.

For example, citation analysis is regarded as a poor substitute for qualitative review and peer assessment (Nightingale & Marshall, 2012) and focusing on impact factors may be a disincentive to pursue innovative research that has longer publication timeframes (Alberts, 2013). Quantity does not imply quality and as Gad-el-Hak warns, 'counting the publications of individuals should not be used to evaluate them' (Gad-el-Hak, 2004, p. 61).





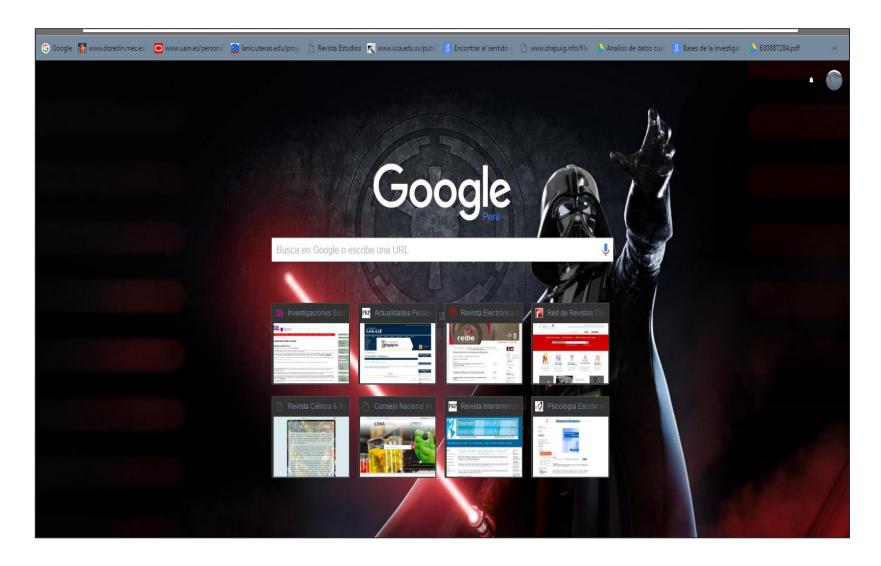


ALGUNAS CONSIDERACIONES ACERCA DE LA CIENCIA

- La ciencia es un bien público.
- La división Norte-Sur tiene implicancias para la forma cómo se produce, implementa y comunica la ciencia.
- Los investigadores tenemos intereses.
- Se aprende a investigar haciendo investigación.
- Rol docente y rol investigador: ¿Qué piden las universidades?

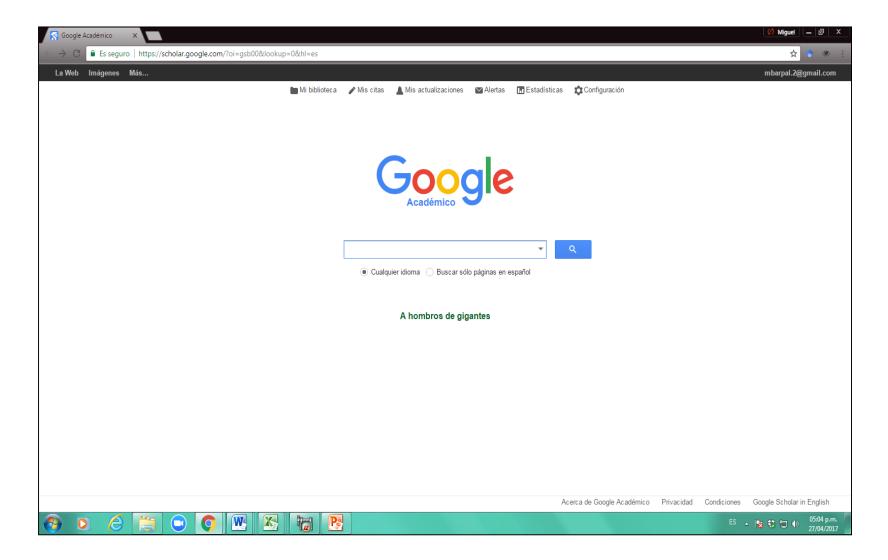


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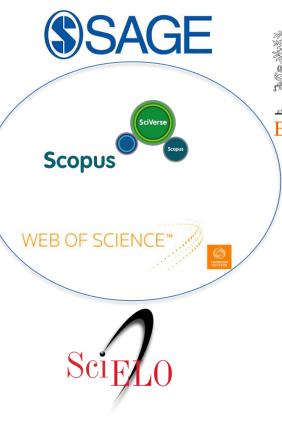
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¿Qué comunica? Contextualizar el escenario	

ENCONTRAR: BASES DE DATOS









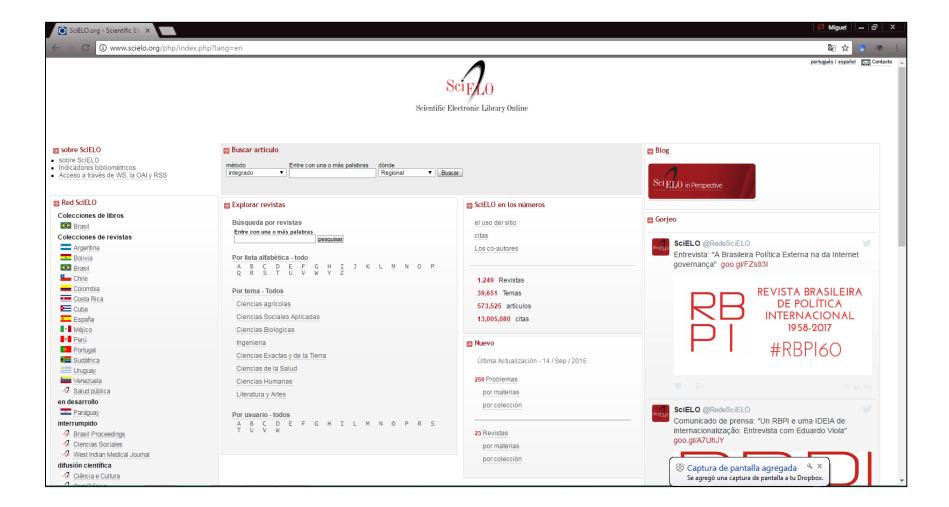






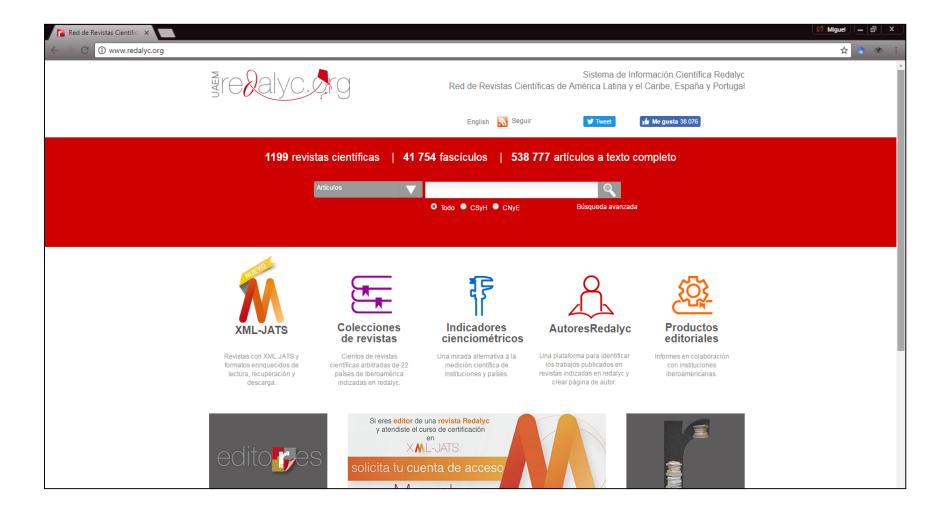


ENCONTRAR: SCIELO





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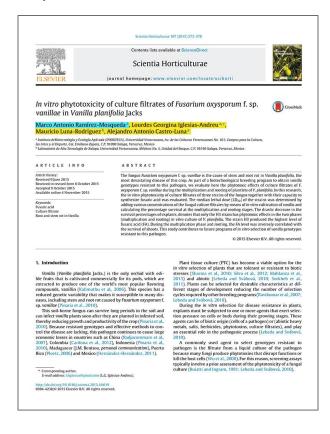








- I M R y D. Donde, I es Introducción, M es Método, R es Resultados y D es Discusión.
- Una investigación tiene que considerar investigaciones previas desarrolladas. ¿Qué tipo de información requiero para otro documento académico?







FICHA PARA LA LECTURA DE ARTÍCULOS CIENTÍFICOS	
Título	
Autor(es)	
Objetivo(s)	
Método	
Resultados	
Conclusiones	

REDACTAR: ALGUNAS CONSIDERACIONES



- La redacción varía en función del documento académico o científico que se elabore (tesis, monografía, ensayo, artículo científico, carta al editor, reseña...).
- Antes de redactar, primero se requiere leer.
- Elaborar un «esqueleto» con los puntos a tratar. No pierda de vista el objetivo.
- Cuando se tenga todos los elementos encajados, «apriete».
- Revisión crítica por pares o expertos.
- Si estás trabajando un documento en función a un estilo de redacción, aprenda «reglas básicas»

REDACTAR: ESTILO APA



- Diferencias entre citas, referencias, bibliografía y literatura científica.
- Principio de correspondencia CITA REFERENCIA.
- Tipos de citas.
- Un solo autor, dos autores, tres autores...
- Cita de cita (es preferible evitarlo).
- Tablas y figuras.
- Algunos consideraciones para las referencias. DOI.

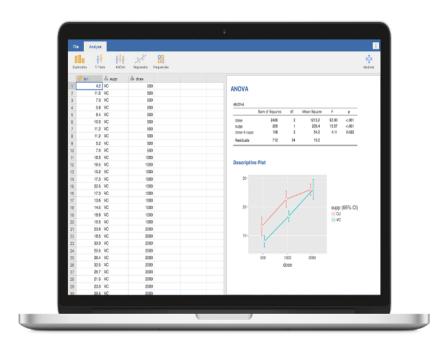








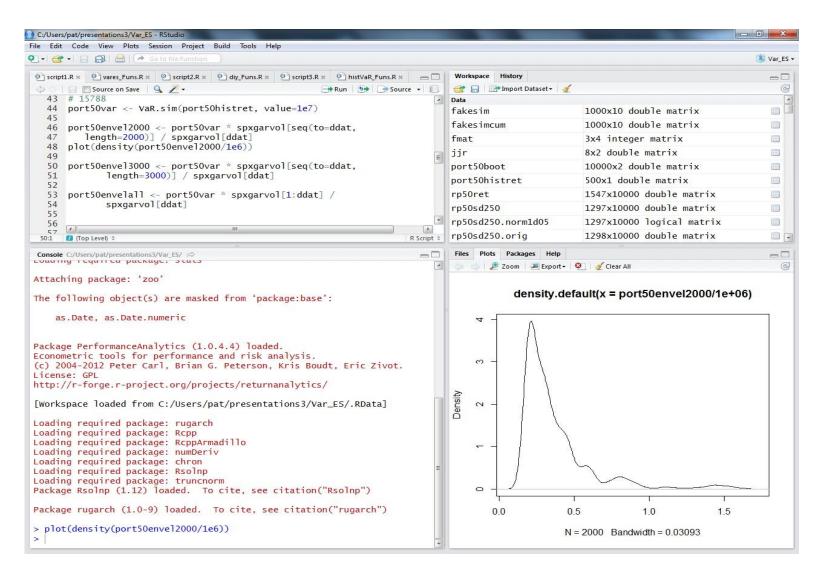
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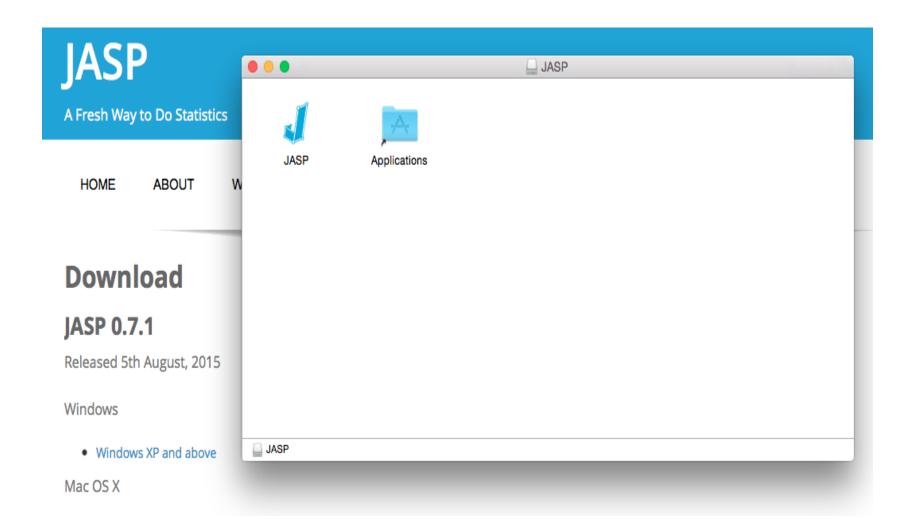


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REDACTAR: JASP







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