

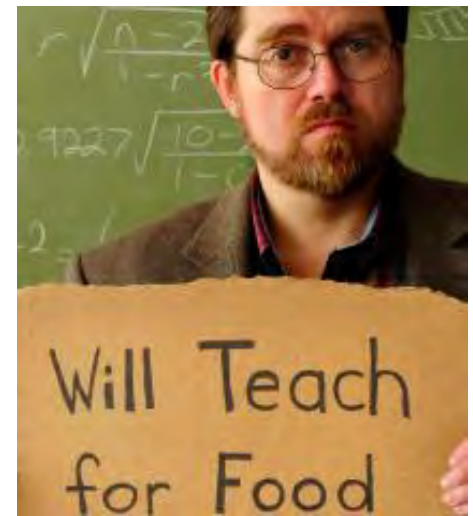
Flickschusterei in der infrastrukturellen Steinzeit: Wohin mit den Forschungsdaten?

Björn Brembs

Universität Regensburg

<http://brembs.net>

WISSEN SCHAFFEN



Wissenschaftler produzieren
Publikationen, Daten und
Software

KRISE I



Dysfunktionale Literatur

Dysfunktionale Literatur



Digitale Steinzeit!

- Schwer zugänglich
- Keine globale Suche
- Keine Hyperlinks
- Keine Daten-visualisierung
- Keine Text-Normen
- (Fast) keine Statistik
- Kein Text/Daten-Mining
- Keine effektive Sortier-, Filter- oder Entdeckungs-Funktionalität
- Keine wissenschaftl. Bewertung
- Keine soziale Vernetzung
- etc.

KRISE II



Wissenschaftliche Daten in Gefahr

⚠ PubMed has been designated to be maintained with minimal staff during the lapse in government funding. The information on this website will be kept as up to date as possible, and the agency will attempt to respond to urgent operational inquiries during this period.

Updates regarding government operating status and resumption of normal operations can be found at <http://www.usa.gov>.

nature

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NATURE | NEWS

Databases fight funding cuts

Online tools are becoming ever more important to biology, but financial support is unstable.

Monya Baker

05 September 2012



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TAIR launches new corporate sponsorship program (7/23/2010)

Dear TAIR user community,

To help us through the **current funding crisis** we recently established a new TAIR corporate sponsorship program. We feel that this approach is preferable to implementing a subscription requirement for the private sector because it will allow us to keep TAIR open and free of login requirements, facilitating the free exploration of data by all scientists. Two companies (Dow AgroSciences and Syngenta) and one research organization (Gregor Mendel Institute) have already become TAIR sponsors. More information can be found on our [sponsorship page](#).

TAIR Funding Crisis (10/16/2009)

Dear TAIR user community,

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Swiss Institute of
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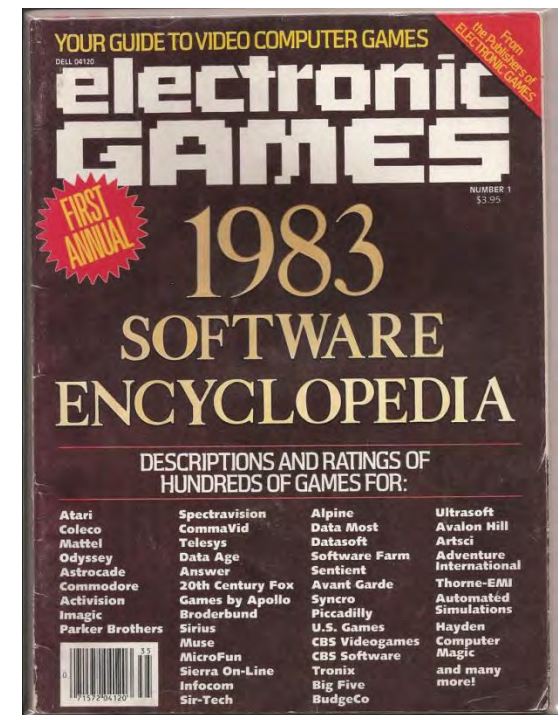
You are here: [ExPASy CH](#) > [Databases](#) > [Around UniProtKB](#)



SWISS-PROT should have been 10 years old in July 1996, but it may disappear on June 30, 1996

Due to funding problems, SWISS-PROT as well as PROSITE, and the ENZYME nomenclature databases will disappear on June 30, 1996 if no solution is found before that date. The ExPASy WWW server and all services associated with it will also shut down. The distribution of the SWISS-2DPAGE database will also be discontinued. Other external databases, WWW services and software packages that depend on SWISS-PROT,

KRISE III



Inexistente Software-Archive



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PERSPECTIVE

Reproducible Research in Computational Science

Roger D. Peng

[±](#) [Author Affiliations](#)

To whom correspondence should be addressed. E-mail: rpeng@ihspsh.edu

ABSTRACT

Computational science has led to exciting new developments, but the nature of the work has exposed limitations in our ability to evaluate published findings. Reproducibility has the potential to serve as a minimum standard for judging scientific claims when full independent replication of a study is not possible.

The case for open computer programs

[Darrel C. Ince](#), [Leslie Hatton](#) & [John Graham-Cumming](#)

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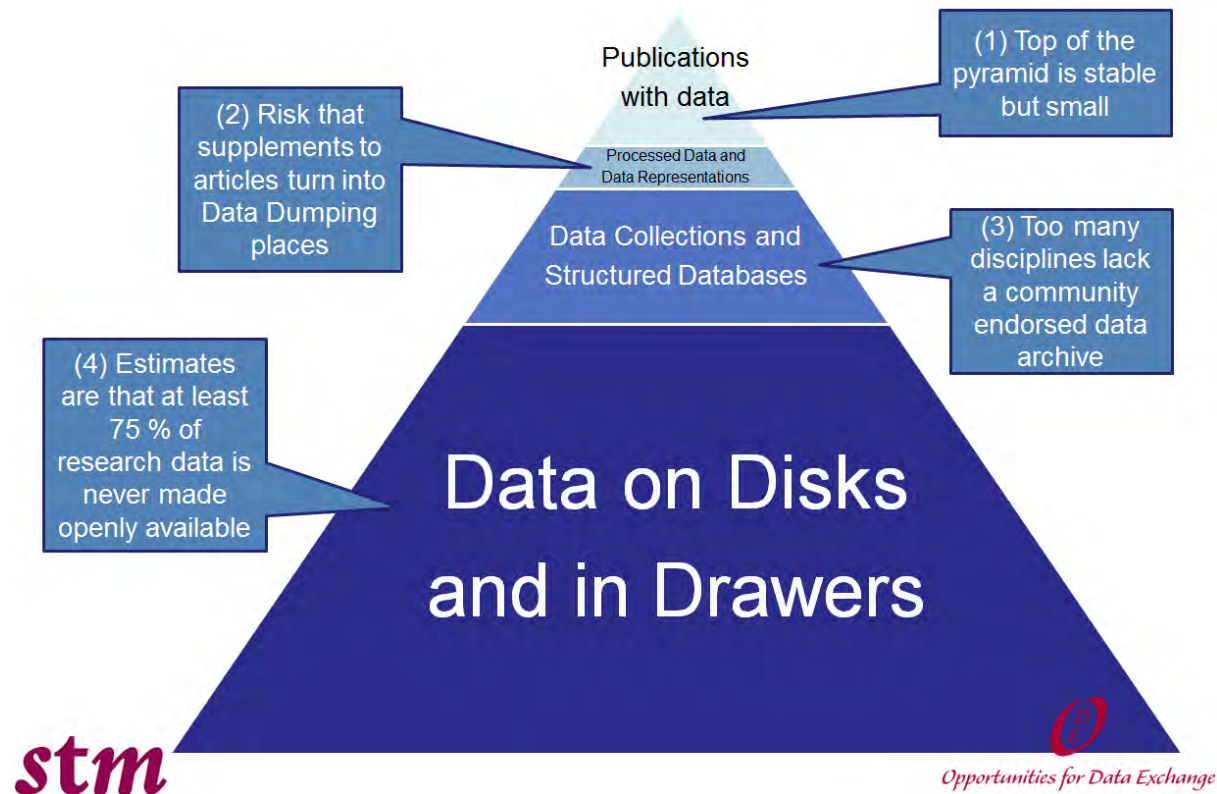
Nature **482**, 485–488 (23 February 2012) | doi:10.1038/nature10836

Received 09 May 2011 | Accepted 05 January 2012 | Published online 22 February 2012

Scientific communication relies on evidence that cannot be entirely included in publications, but the rise of computational science has added a new layer of inaccessibility. Although it is now accepted that data should be made available on request, the current regulations regarding the availability of software are inconsistent. We argue that, with some exceptions, anything less than the release of source programs is intolerable for results that depend on computation. The vagaries of hardware, software and natural language will always ensure that exact reproducibility remains uncertain, but withholding code increases the chances that efforts to reproduce results will fail.

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Umgang mit Forschungsdaten „small data – long tail“



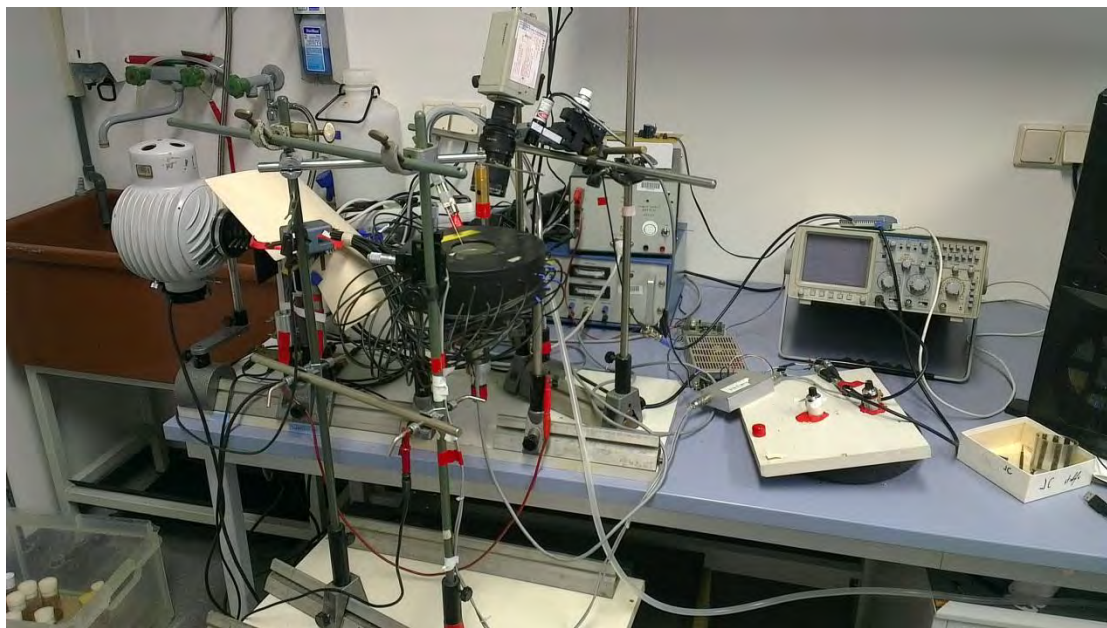
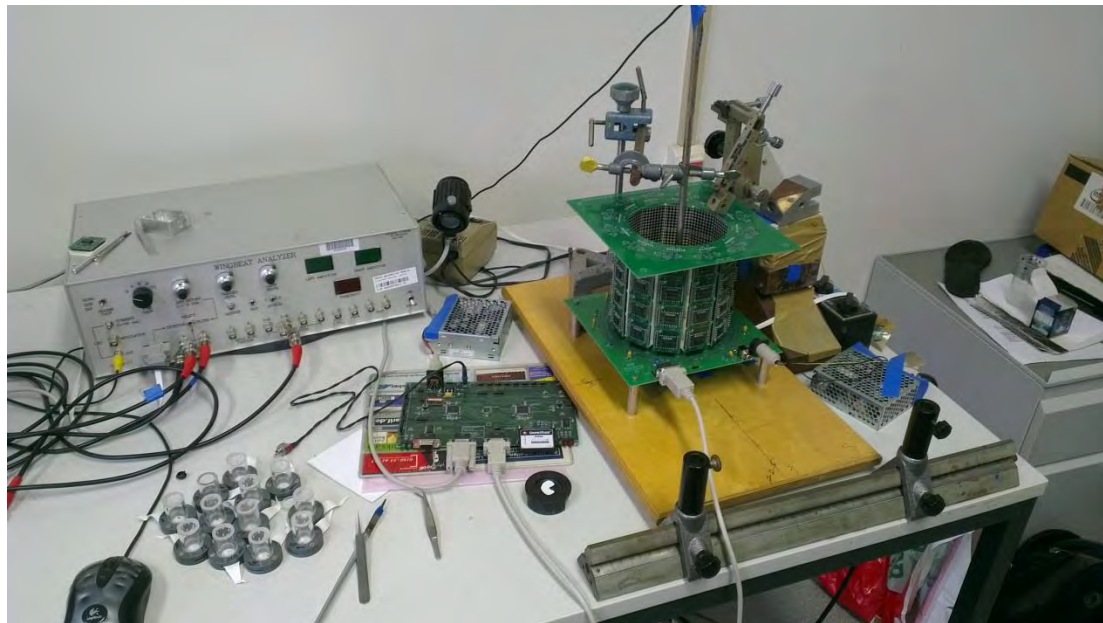
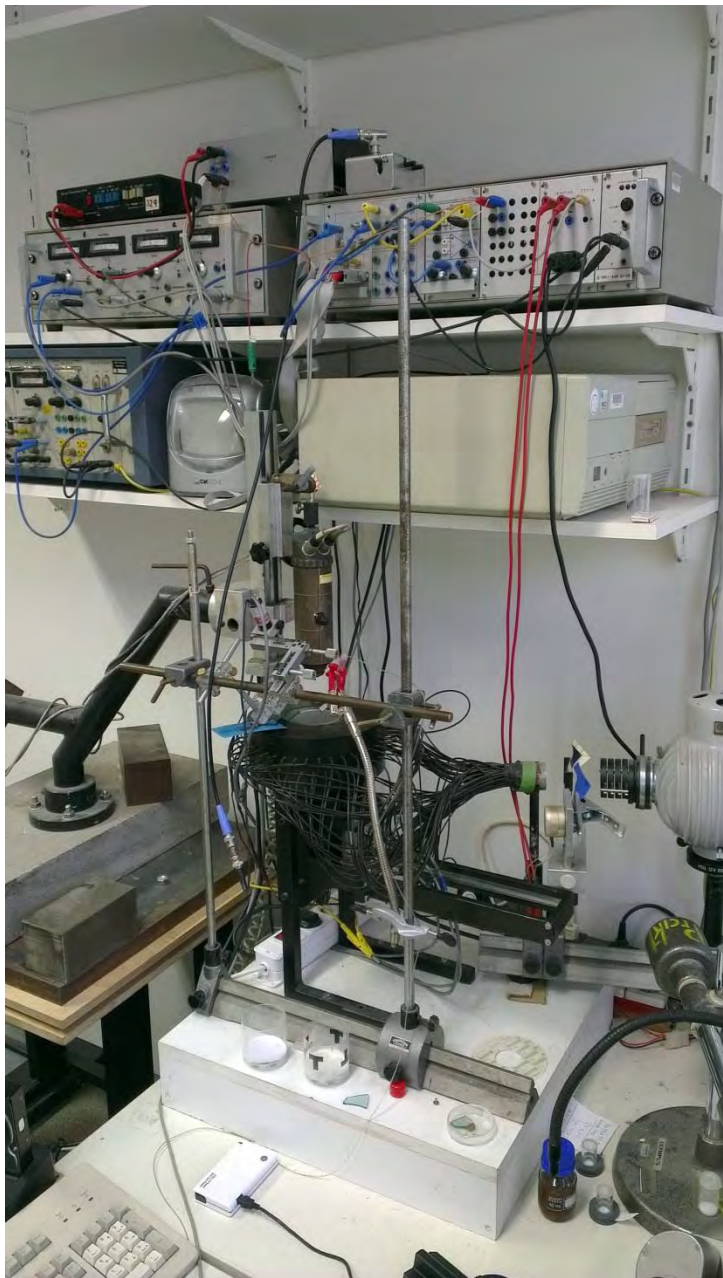
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JULIEN COLOMB



Flickschusterei!



Software zur Experimentkontrolle und Datenerfassung

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OPEN ACCESS

Open Source Tracking and Analysis of Adult *Drosophila* Locomotion in Buridan's Paradigm with and without Visual Targets

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Julien Colomb^{1*}, Lutz Reiter¹, Jędrzej Blaszkiwicz¹, Jan Wessnitzer², Bjoern Brembs^{1,3}

1 FB Biologie, Chemie, Pharmazie, Institut für Biologie-Neurobiologie, Freie Universität Berlin, Berlin, Germany, **2** Institute for Perception, Action and Behaviour, School of Informatics, University of Edinburgh, Edinburgh, United Kingdom, **3** Department of Genetics, Universität Leipzig, Leipzig, Germany

Abstract [Top](#)

Background

1 Insects have been among the most widely used model systems for studying the control of locomotion by nervous systems. In *Drosophila*, we implemented a simple test for locomotion: in Buridan's paradigm, flies walk back and forth between two inaccessible visual targets [1]. Until today, the lack of easily accessible tools for tracking the fly position and analyzing its trajectory has probably contributed to the slow acceptance of Buridan's paradigm.

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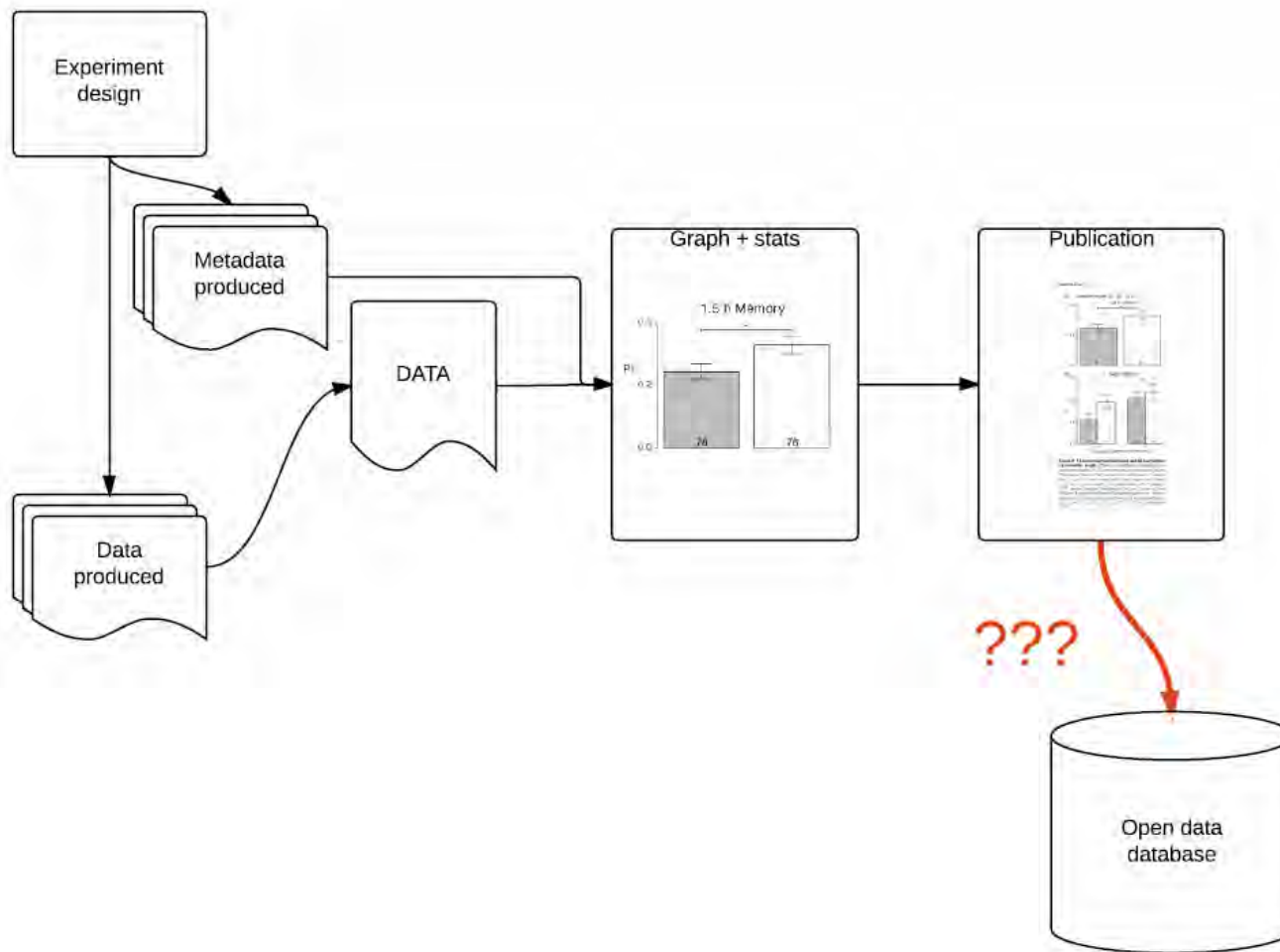
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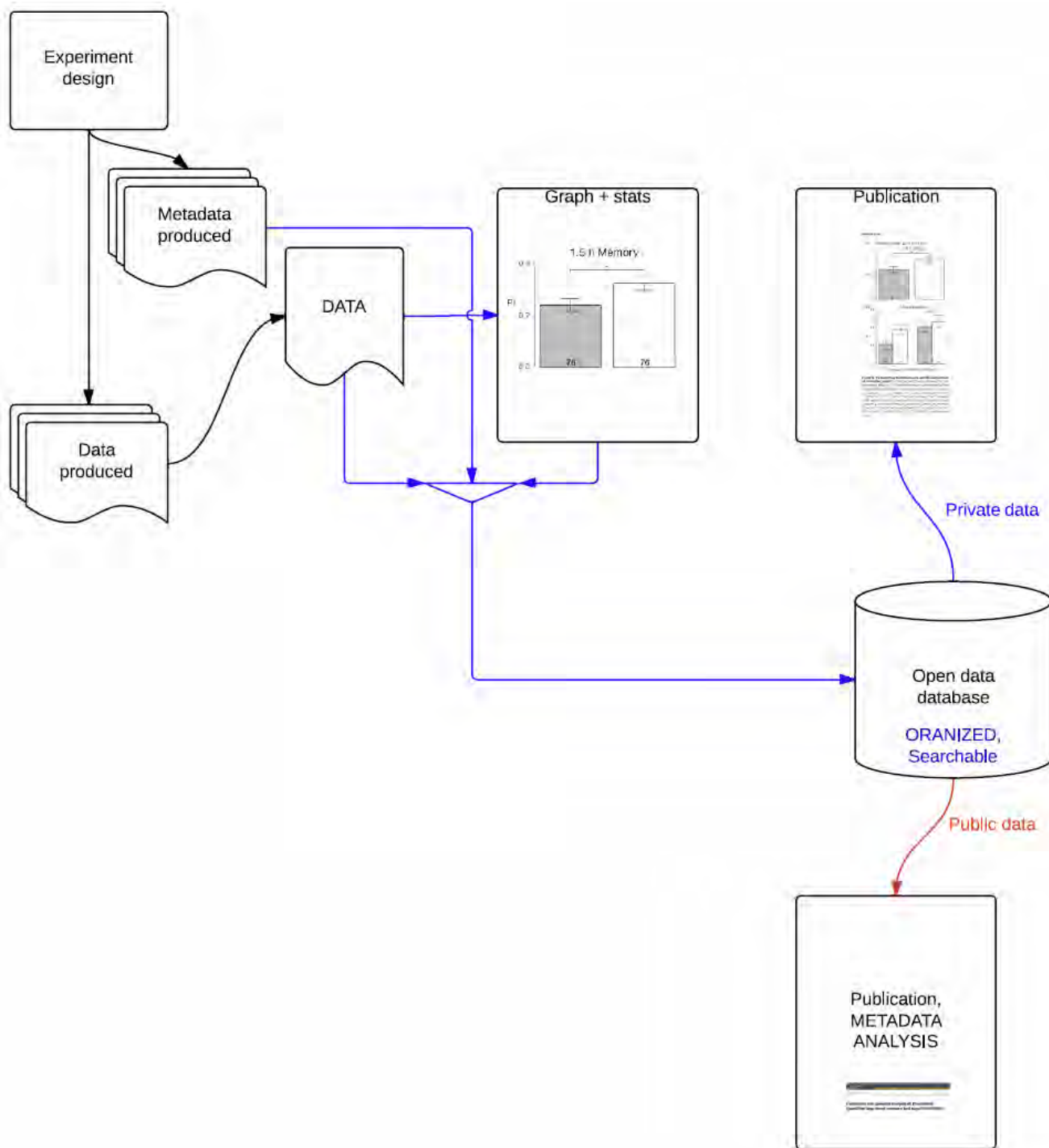
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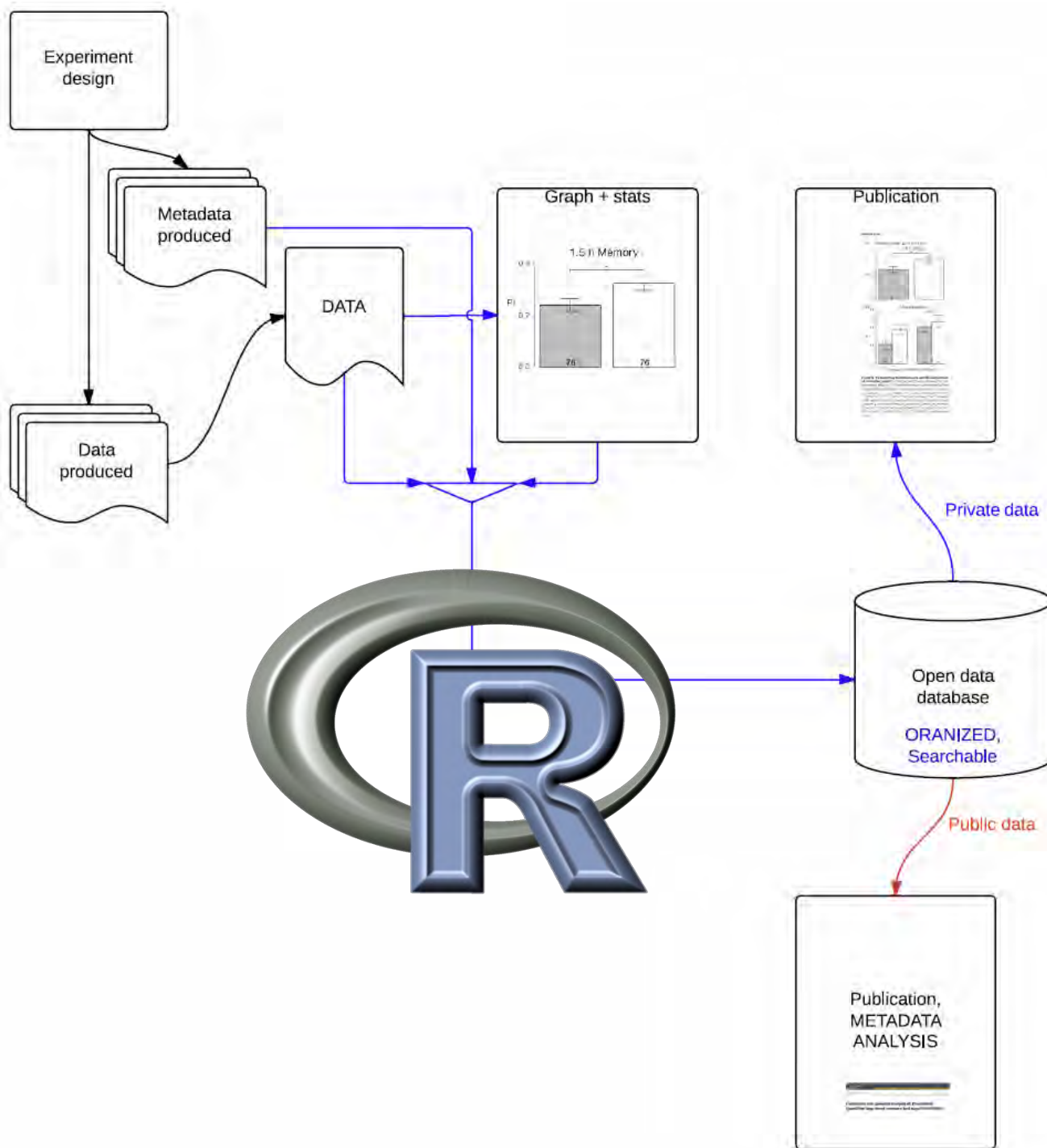
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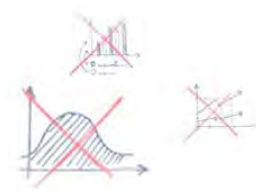
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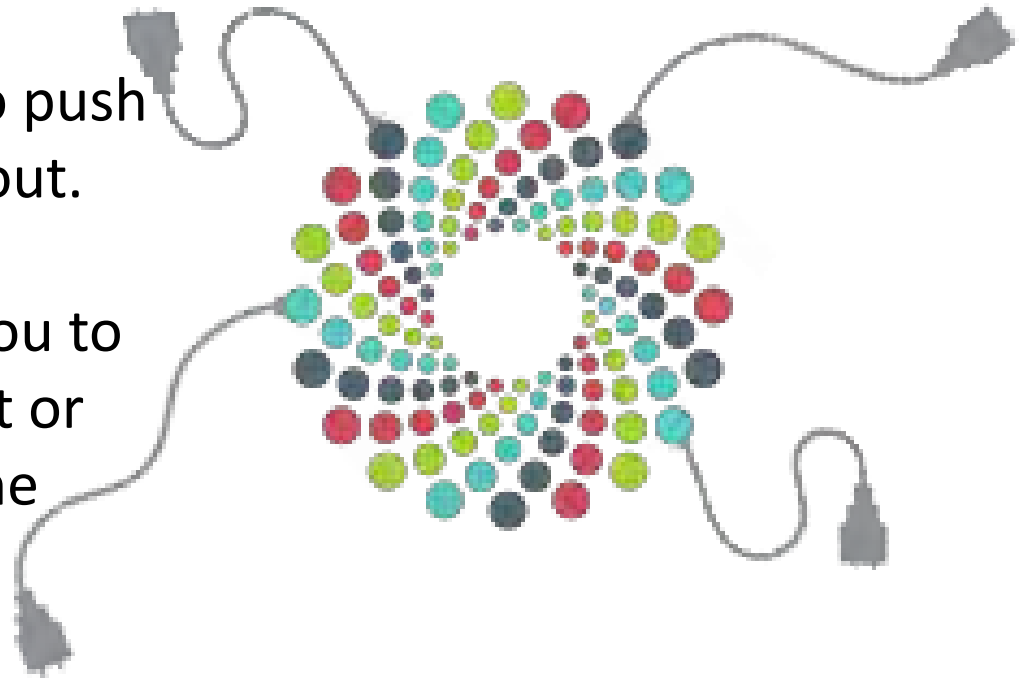
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Collaborative spaces

FigShare API

The **figshare** API allows you to push data to **figshare**, or pull data out. This first version is a basic implementation that allows you to manage your **figshare** account or build applications on top of the **figshare** platform and public research.





Installing Stable version available

[Development Version](#) [API Keys](#)

```
install.packages('rfigshare')  
# If you would like to install a development version:  
library(devtools)  
install_github("rfigshare", "ropensci")
```

The dev version of rfigshare has newer functions currently in development. Some of these may not be stable.

[View this project on github](#)

Quick start guide

```
library("rfigshare")
```

For a full list of functions and a web manual, visit the [package repository](#) on GitHub.

Tutorials

Tutorials coming shortly.

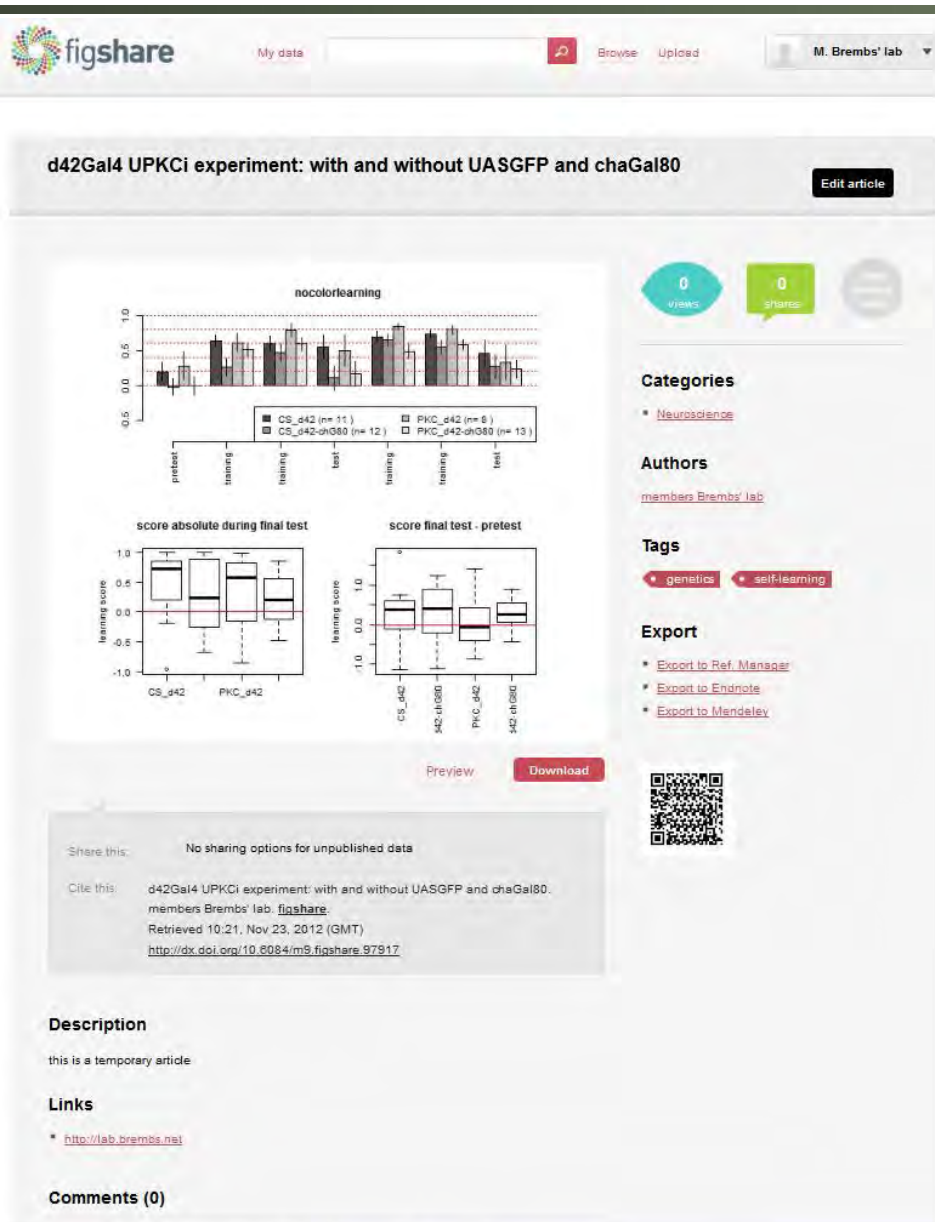
Use cases & resources

If you have ideas for use-cases or have written about this package anywhere, please drop us a line.

Add new, or update an existing article

```
55 #brembs lab account
56 options(FigshareKey = "A...g")
57 options(FigsharePrivateKey = "0...3A")
58 options(FigshareToken = "...Q")
59 options(FigsharePrivateKey = "0...A")
60 ###end figshare info
61
62 require(rfigshare)
63 fs_auth()
64
65 ##need to create the article and get its id here: do it only once, then write the id and comment this part:
66
67 if (is.na(id_test)){
68   # article_title= "d42Gal4 UPKCi experiment: with and without UASGFP and chaGal80"
69   # article_description = "this is a temporary article"
70   # article_type = "figure" #, "dataset" #,"media", "poster", "paper", "fileset"
71   # article_tags = c("self-learning","genetics")
72   # article_categories="Neuroscience"
73   # article_files = "T:dataforfigshare.png"
74   # article_visibility= "draft" #"private" "public" #
75   # article_authors= c("julien colomb")
76   # article_links="http://lab.brembs.net"
77
78
79   id <- fs_new_article(title = article_title, description = article_description,
80                       type = article_type, tags = article_tags, categories=article_categories ,
81                       files = article_files, visibility= article_visibility, #authors = article_authors,
82                       links=article_links)
83   ##add björn as author (the "ö" leads to error on figshare at this time):
84   rfigshare::fs_add_author(article_id = id_test, author_id = 96464)
85
86   id
87 }else{
88   newfile= "T:dataforfigshare.png"
89   fs_upload(id_test, file =newfile)
90 }
91
```

Run your script and...



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Description

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problems on figshare side: the file upload does not work anymore, the preview of pdf file seem not to work anymore...

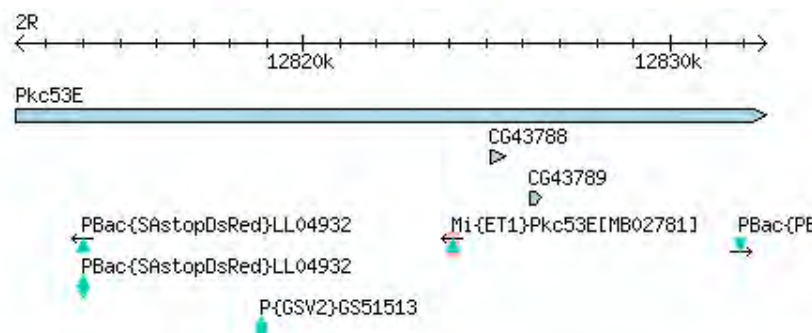
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General Information

Symbol	Dmel\Pkc53E ^{MB02781}	Species	<i>D. melanogaster</i>
Name		FlyBase ID	FBal0197029
Feature type	allele	Associated gene	Dmel\Pkc53E

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