

Title: TBA

Date: Mar 27, 2018 09:45 AM

URL: <http://pirsa.org/18030112>

Abstract:

What's not to like? Open science will fail unless it takes the costs seriously

twitter



Scoop.**it!**

Professor Rosie Redfield
Department of Zoology
University of British Columbia



WORDPRESS.COM



Cornell University
Library

arXiv.org

ACADEMIA'S
BIGGEST
BLIND SPOT

Arfon Smith (@arfon)



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STScI | SPACE TELESCOPE
SCIENCE INSTITUTE

How I Stumbled Upon The Internet's Biggest Blind Spot

Let's make software even better.

I left my job in venture capital last May. When I said goodbye, I explained that I initially joined Collaborative Fund to help launch a nontraditional, non-venture fund, but ended up in a traditional venture role instead. (So it goes.)

Let's get this out of the way first: everybody likes to complain about VC, yet most successful tech companies are venture-backed. The accessibility of venture capital today might be gluttonous, sure, but we also owe our industry's success to its existence.

When I talk about finding alternatives, then, I don't mean replacing what is clearly working in some contexts, but rather expanding the pie. And it starts with a question: *What is not venture backable in tech right now?*

1.5K 82

Next story
I hate the term "open source"

Software

Software
DATA?

Software is important



SOFTWARE TURNS A THEORETICAL MODEL INTO
QUANTITATIVE PREDICTIONS; SOFTWARE CONTROLS AN
EXPERIMENT; AND SOFTWARE EXTRACTS FROM RAW DATA
EVIDENCE SUPPORTING OR REJECTING A THEORY.

Gaël Varoquaux

BECOMING INCREASINGLY
Software is important



DEEP INTELLECTUAL CONTRIBUTIONS
(ARE) NOW ENCODED IN SOFTWARE.

Victoria Stodden

NUMBERS
DATA



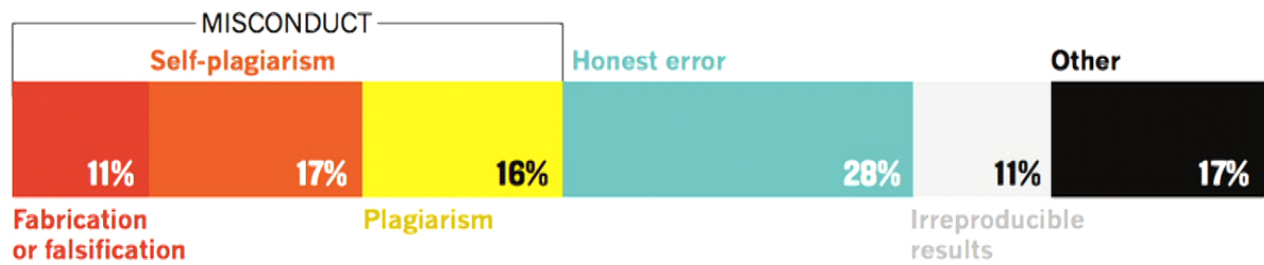
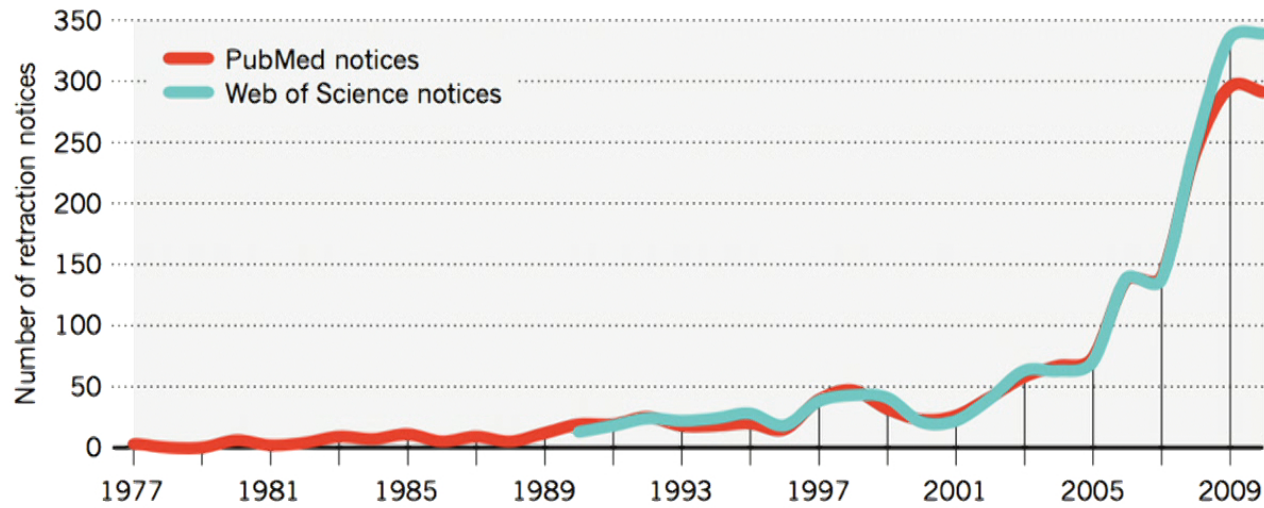
Complex
things



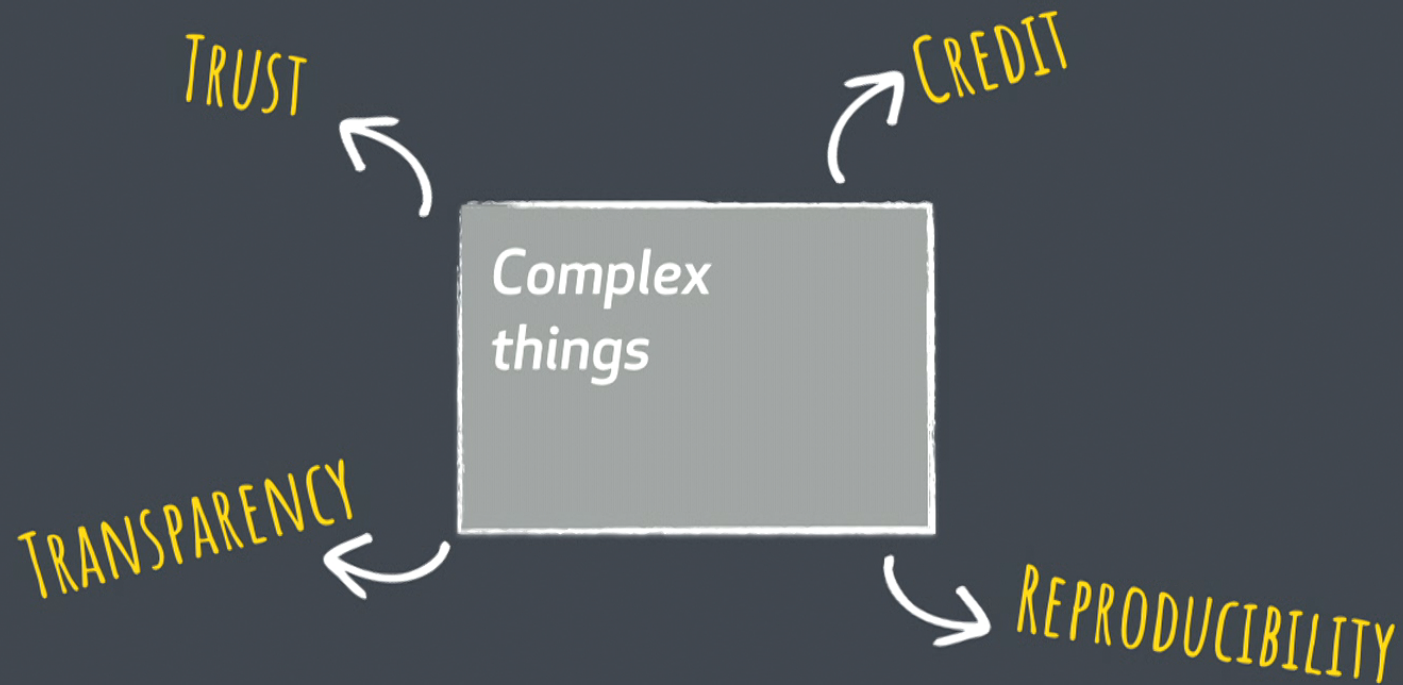
SCIENCE!

SCIENCE!

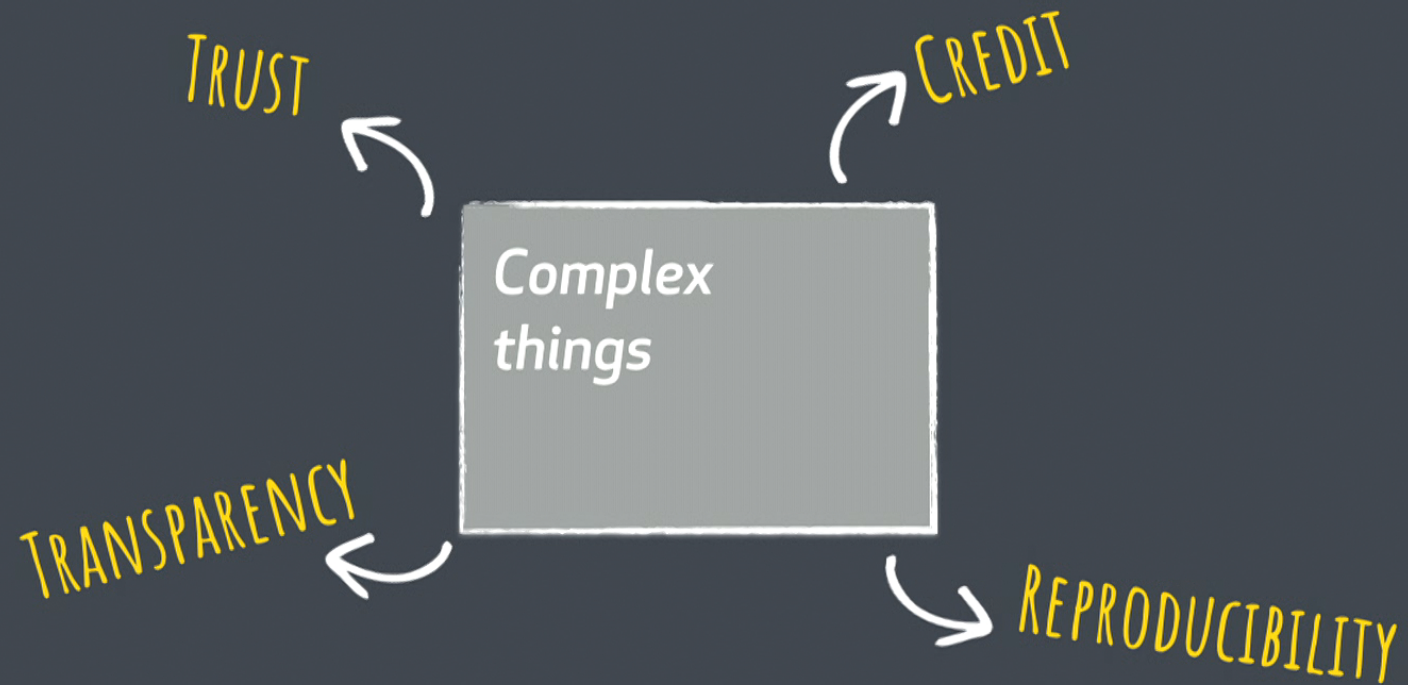
SCIENCE!



<http://www.nature.com/news/2011/111005/full/478026a.html>

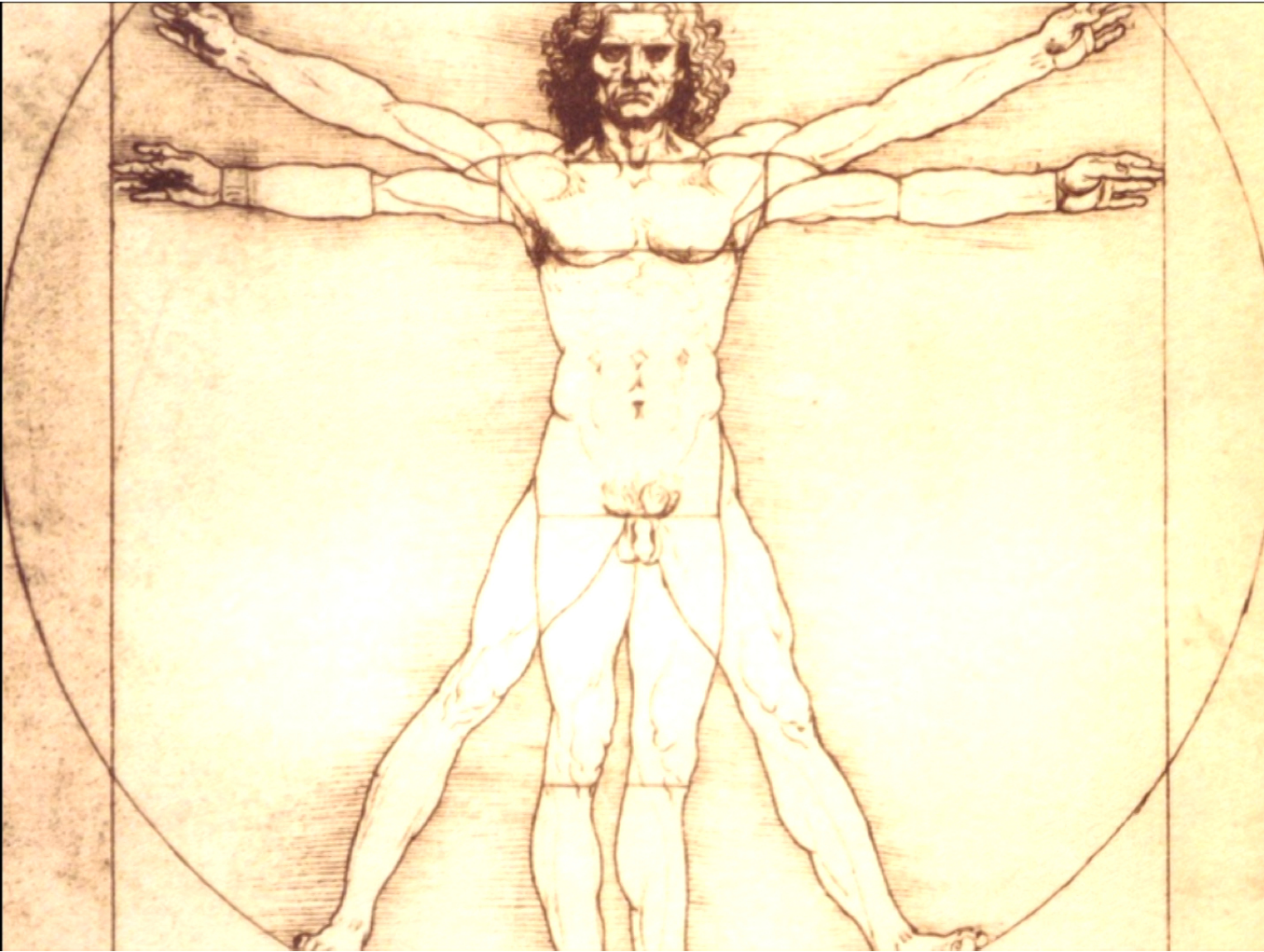


Unpacking the box



Few incentives for the individual

Software can be a
competitive advantage





15 YEARS

3 BILLION BASES

\$3 BILLION

Human Genome project



15 YEARS

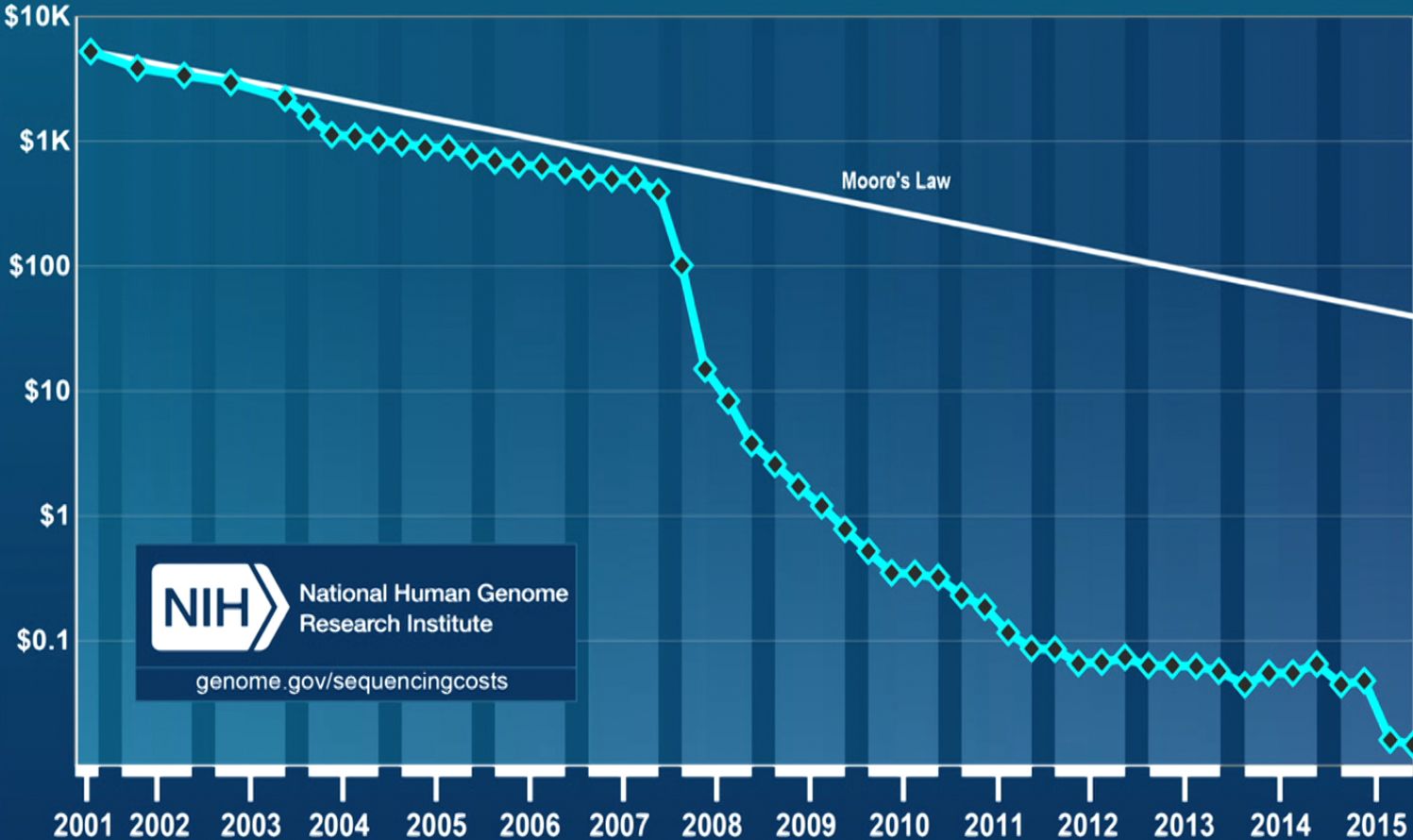
3 BILLION BASES

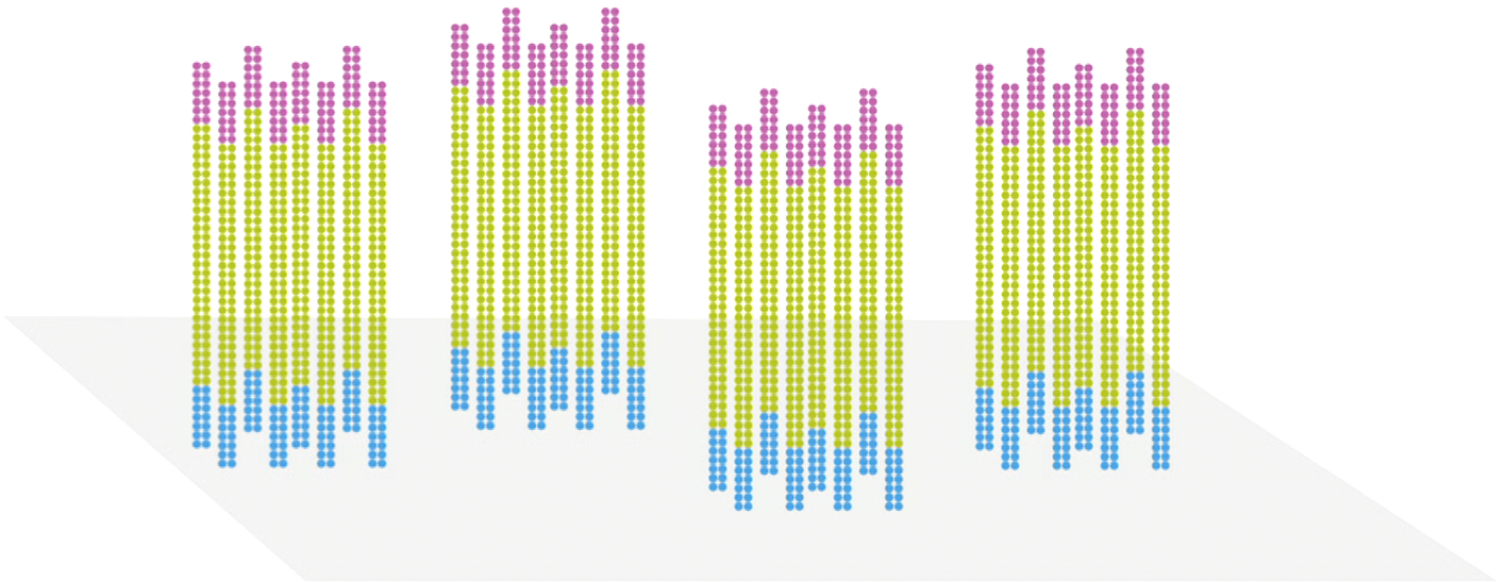
\$3 BILLION

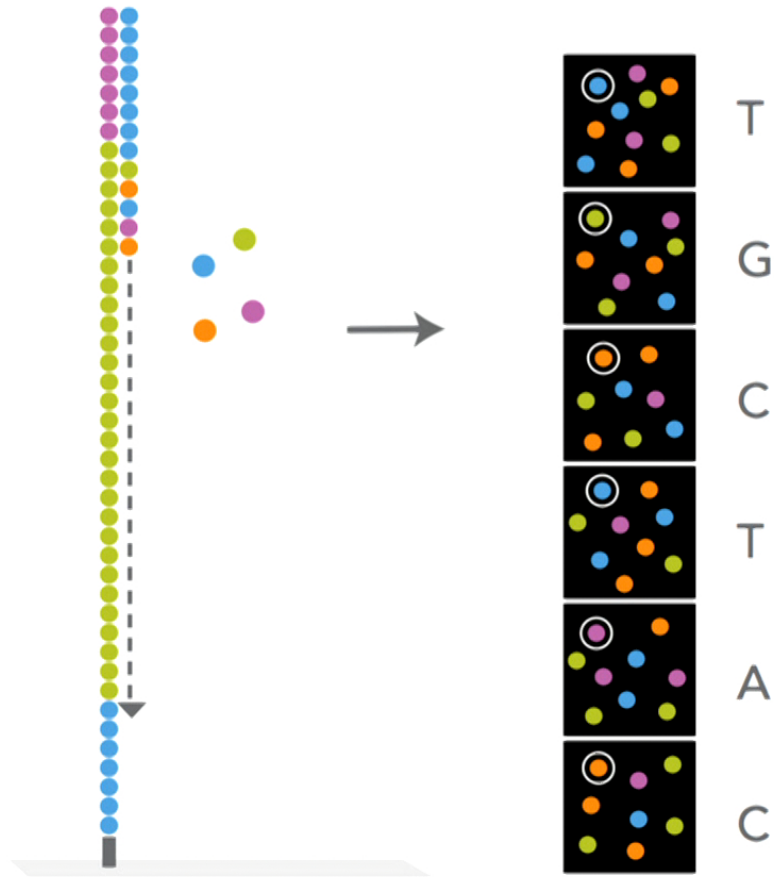
5000 PERL MODULES

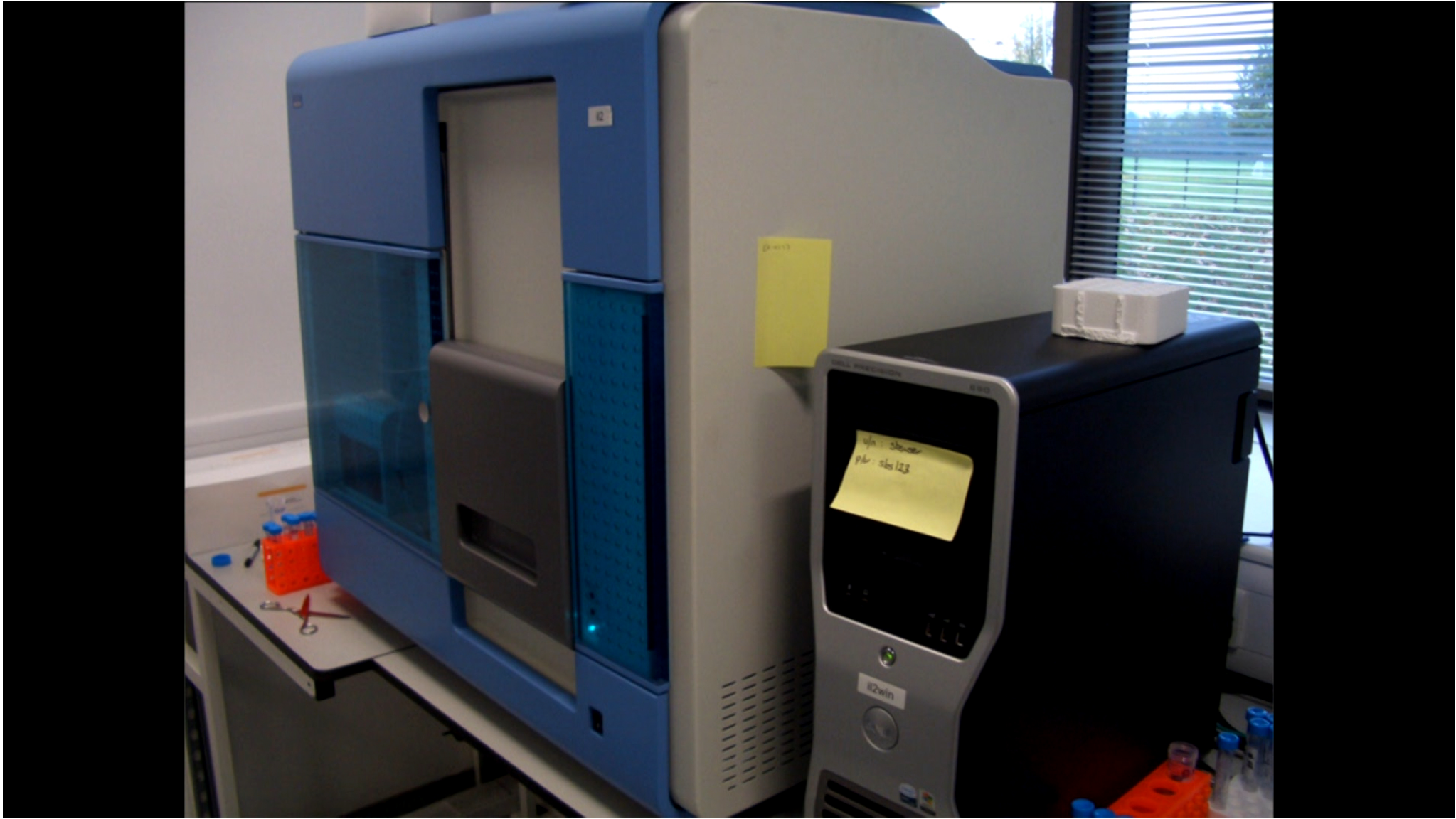
Human Genome project

Cost per Raw Megabase of DNA Sequence









*Change was the
only constant*

Sequencescape : Projects - status
 http://psd-dev.internal.sanger.ac.uk:6610/projects/status/23

Wellcome Trust Sanger Institute [Settings](#) · [Sign out](#) · [Help](#)

PROJECTS

[PROJECTS](#) [SAMPLES](#) [REPORTS](#) [FAMILIES](#) [SEARCH](#)

SEQUENCING PROJECT 23: MALARIA CP6 - PARASITE GENOME DIVERSITY [Full details →](#)

This page gives you a high level view of the sequencing status for a particular project.

[Register a new sample →](#)
[Project history](#)
[2 comments](#)

[Close project](#)

[Manage project](#)
[Project ownership](#)

[← Back to your projects](#)

Single ended bases sequenced:	1,567,271,001 (greater than Q20)
Paired end bases sequenced:	97,192,666,648 (greater than Q20)
Library creation quota:	351
Single ended sequencing quota:	25
Paired end sequencing quota:	277

PROJECT QUOTA FULFILMENT	PROJECT QUOTA FULFILMENT	PROJECT QUOTA FULFILMENT
Library creation 123 of 351	Single ended sequencing 13 of 25	Paired end sequencing 279 of 277

	Library creation	Single ended sequencing	Paired end sequencing
Sequencing requests	123	13	287
↳ Completed	116	13	238
↳ Pass	116	13	230
↳ Fail	0	0	8
↳ Outstanding requests	7	0	49
Quota remaining	228	12	0 (2 over)

SAMPLES

[Library creation](#) [Single ended sequencing](#) [Paired end sequencing](#)

Current status for library creation:

Sample name	Bases at > Q20	Requested	Passed QC	Failed QC	Completed	Outstanding
• PBO001-C (afnf)	2,074,430,019	1	1	0	1	0

1 MILLION GALAXIES
300,000 PEOPLE
TWO POSTDOCS & A STUDENT

Galaxy Zoo

Galaxy Analysis | Galaxy Zoo: x Arfon

zoo1.galaxyzoo.org/GalaxyAnalysis.aspx

ENGLISH | POLSKI

GALAXY ZOO.org

Welcome | Home | The Science | How to Take Part | Galaxy Analysis | Forum | Press | Blog | FAQ | Links | Contact Us | Login | Register

- Galaxy Tutorial
- Galaxy Analysis
- Galaxy Zoo - Thank You

Galaxy Analysis

Welcome to Galaxy Zoo's view of the Universe. If you're here you should already have seen the [Tutorial](#), but feel free to go and remind yourself. There's no need to agonise for too long over any one image, just make your best guess in each case.



Galaxy Ref: **587731514217660581**

Choose the Galaxy Profile by clicking the buttons below

SPIRAL GALAXY

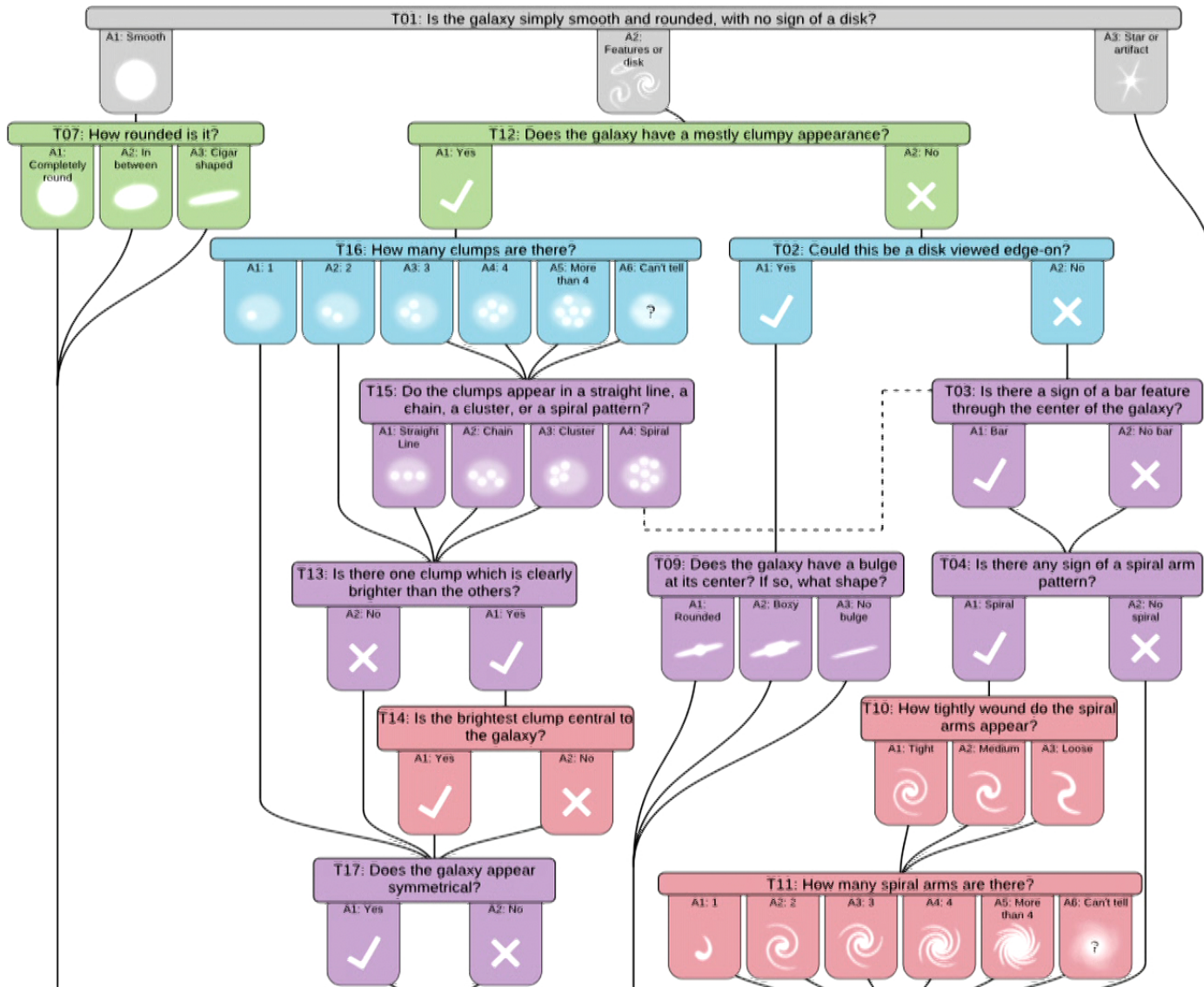
Show Grid Overlay on the next Image

If you find something REALLY unusual or strange and it does not look like anything in the [how to get started section](#) or in the [FAQ](#), then post it up on the [Forum](#) or drop us an email with the reference number.

Dear Galaxy Zoo users,

Thanks for making Galaxy Zoo such a success!

With your help, we've been able to collect millions of classifications, with which to do science faster than we



Snapshot Serengeti is a Zooniverse project. [Our Projects](#)

username password Login Sign Up
Forgot Password?

English

SNAPSHOT SERENGETI

Home About Classify Profile Discuss Blog Authors

You're not signed in!

Wildebeest

Long-legged, with dark grey-brown fur with faint stripes of darker fur on neck and flank. Large head with a rounded black nose and white 'beard'. Stands higher at the shoulder than the rump. Both sexes have horns that extend out sideways then curve sharply back towards head.

Often confused with: [Buffalo](#) [Cattle](#)

How many: 1 2 3 4 5 6 7 8 9 10 11-50 51+

Behavior: Standing Resting Moving Eating Interacting

Young present

[Tutorial](#) [Clear filters](#)

Fire No animals present

Planet Four

Arfon

https://www.planetfour.org

A Zooniverse project SIGN UP SIGN IN English

PLANET FOUR

Classify

About

Profile

Talk

Blog

Come help explore the surface of Mars

135,749
participants worldwide

4,985,771
MRO images classified

Help map the exotic terrains of Mars' south pole with our new project
Planet Four: Terrains

Follow the project on social media to stay updated on our status and how we are using your efforts to produce science.

f t g+

Start Exploring

SCALABLE/FAST
FLEXIBLE DOMAIN MODEL
HIGHLY AVAILABLE
CHEAP

Zooniverse

ZOONIVERSE

STAFFED BY ENGINEERS
WHO'D GIVEN UP ON
A RESEARCH CAREER

BECOMING INCREASINGLY
Software is important

*How do we enable people
who want software to be
their contribution?*

THE SKILLS REQUIRED TO BE A
SUCCESSFUL SCIENTIFIC RESEARCHER
ARE INCREASINGLY INDISTINGUISHABLE
FROM THE SKILLS REQUIRED TO BE
SUCCESSFUL IN INDUSTRY.

Jake VanderPlas



WE MUST FIND A WAY TO
LEGITIMIZE SOFTWARE AS A
FORM OF SCHOLARSHIP.

Phil Bourne, Director for Data Science, NIH

Challenge	Technical	Cultural
HOW DO YOU CITE SOFTWARE?	✓	✗
SOFTWARE CITATIONS AREN'T ALLOWED	✗	✓
SOFTWARE ISN'T CITABLE	✓	✗
SOFTWARE CITATIONS AREN'T	✓	✓
SOFTWARE ISN'T PEER REVIEWED	✗	✓
SOFTWARE CAN'T CITE OTHER	✓	✗

Possible solutions

SELF-SERVICE (INDIVIDUAL)
SELF-SERVICE (GROUPS)
EXTERNAL (ECOSYSTEM)

Three categories of solutions

WRITE SOFTWARE PAPERS

Solution #1

WRITE SOFTWARE PAPERS



We now have something to cite!

WRITE SOFTWARE PAPERS



BUT: It's a ton of work...

WRITE SOFTWARE PAPERS



And what about authorship?

WRITE SOFTWARE PAPERS



Many papers = citation dilution

MAKE IT POSSIBLE TO CITE SOFTWARE

Solution #2

TO SHOW WE'VE DONE OUR RESEARCH

TO CREDIT THE WORK OF OTHERS

TO ENRICH THE SCHOLARLY RECORD

TO AVOID PLAGIARISM

Why do we cite?

MAKE IT POSSIBLE TO CITE SOFTWARE

Smith et al., My Awesome Codes, v1.0.0,
<http://github.com/arfon/awesome-codes>

Solution #2

MAKE IT POSSIBLE TO CITE SOFTWARE

<http://github.com/arfon/awesome-codes>

Solution #2

MAKE IT POSSIBLE TO CITE SOFTWARE



BUT: Many journals don't allow it

MAKE IT POSSIBLE TO CITE SOFTWARE



And have citation limits...

MAKE IT POSSIBLE TO CITE SOFTWARE



And indexers don't count them

11 Comment on Software Cite x

https://www.force11.org/software-citation-principles

FORCE11
The Future of Research Communications and e-Scholarship

Search Search

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FORCE11 Software Citation Working Group

(EDITORS: ARFON M. SMITH, DANIEL S. KATZ, KYLE E. NIEMEYER)

This document, created by the [FORCE11 Software Citation Working Group](#), is a draft set of Software Citation Principles and related discussion. It is now posted for comments from the full FORCE11 membership and wider community. After a roughly two-week period (ending 20 May 2016), we will respond to the comments we receive by updating the [document](#). That updated document will then be published (so please do not cite this draft) through a publisher that will assign a DOI, and will also be reposted here with that DOI attached.

We welcome feedback and comments, although we would prefer actionable suggestions to general comments. If you have recommended changes or comments, please do one of the following:

- Comment on the document here directly using the FORCE11 Hypothesis plugin. Please tag your annotations with #F11SC to allow us to easily collate the comments in the future.
 - If you don't have an account, sign up for one here: [Hypothes.is](#).
 - If you have an account, [log into your FORCE11 account](#) and then simply annotate on the page.
- Or create a [new GitHub issue](#) on the [Software Citation Working Group's repository](#)
- Or suggest a change in the [comments at the bottom of the document](#). You must be logged into the [FORCE11 website](#) to comment.

Abstract: Software is a critical part of modern research and yet there is little support across the scholarly ecosystem for its acknowledgement and citation. Inspired by the activities of the FORCE11 working group focussed on data citation, this document summarizes the recommendations of the FORCE11 Software Citation Working Group and its activities between June 2015 and April 2016. Based on a review of existing community practices, the goal of the working group was to produce a consolidated set of citation principles that may encourage broad adoption of a consistent policy for software citation across disciplines and venues. Our work is presented here as a set of software citation principles, a discussion of the motivations for developing the principles, reviews of existing community practice, and a discussion of the requirements these principles would place upon different stakeholders. Working examples and possible technical solutions for how these principles can be

BACK TO TOP

The screenshot shows a web browser window with the URL <https://www.force11.org/software-citation-principles>. The page header features the FORCE11 logo and navigation menus for ABOUT, COMMUNITY, GROUPS, RESOURCES, NEWS + EVENTS, CONFERENCES, PUBLICATIONS, MEDIA, and DONATE. The main content area is titled "FORCE11 Software Citation Working Group" and lists editors: ARFON M. SMITH, DANIEL S. KATZ, and KYLE E. NIEMEYER. The text explains that the document is a draft set of Software Citation Principles and is open for comments from the FORCE11 membership and wider community. A yellow callout box provides instructions on how to provide feedback, including using the FORCE11 Hypothesis plugin, logging into a FORCE11 account, or creating a GitHub issue. The abstract discusses the importance of software in modern research and the goal of the working group to produce a consolidated set of citation principles. A "BACK TO TOP" button is visible in the bottom right corner of the content area.

11 Comment on Software Cita x Arfon

<https://www.force11.org/software-citation-principles>

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The Future of Research Communications and e-Scholarship

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(EDITORS: ARFON M. SMITH, DANIEL S. KATZ, KYLE E. NIEMEYER)

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<https://www.force11.org/software-citation-principles>



http://www.newslocker.com/en-uk/news/uk_news/family-struggle-to-force-giant-sofa-into-tiny-car/

*Already an incredible
ecosystem around software*

*What does (open source)
software do especially well?*

Authorship

scikit-learn/scikit-learn: scikit-learn

GitHub, Inc. [US] <https://github.com/scikit-learn/scikit-learn>

This repository Search Pull requests Issues Gist

scikit-learn / scikit-learn Watch 1,222 Star 11,426 Fork 6,640

Code Issues 737 Pull requests 446 Wiki Pulse Graphs

scikit-learn: machine learning in Python <http://scikit-learn.org>

20,814 commits 16 branches 57 releases 595 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

GaelVaroquaux Merge pull request #6790 from arokem/patch-1 Latest commit 2f28ebe 11 hours ago

benchmarks	[MRG+1] Fix: Replace pylab with matplotlib.pyplot #6754 (#6762)	8 days ago
build_tools	MAINT temporary disable MKL in Travis	2 months ago
doc	DOC minor whats_new tweaks	3 days ago
examples	Typo in `plot_cv` example`	11 hours ago
sklearn	FIX bug where expected_mutual_information may miscalculate	3 days ago
.coveragerc	coverall added	3 years ago
.gitattributes	ENH added elkan k_means algorithm	a month ago
.gitignore	[DOC] Added return values to _intercept_dot docstring in linear.logistic	19 days ago
.landscape.yml	make landscape.io much more useful	a year ago
.mailmap	Adding email to the mailmap	6 months ago
.travis.yml	[MRG+1] Reenable MKL for python 3.5 in Travis (#6661)	14 days ago
AUTHORS.rst	DOC add jmetzen and tomdit to authors.rst	4 months ago
CONTRIBUTING.md	DOC: refactor issue and PR template (#6470)	29 days ago
COPYING	First pull request of 2016!	5 months ago

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learn.org

branches

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👤 595 contributors

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branch-1

...

Latest commit 2f28ebe 11 hours ago

replace pylab with matplotlib.pyplot #6754 (#6762)

8 days ago

try disable MKL in Travis

2 months ago

ats_new tweaks

3 days ago

example`

11 hours ago

expected_mutual_information may miscalculate

3 days ago

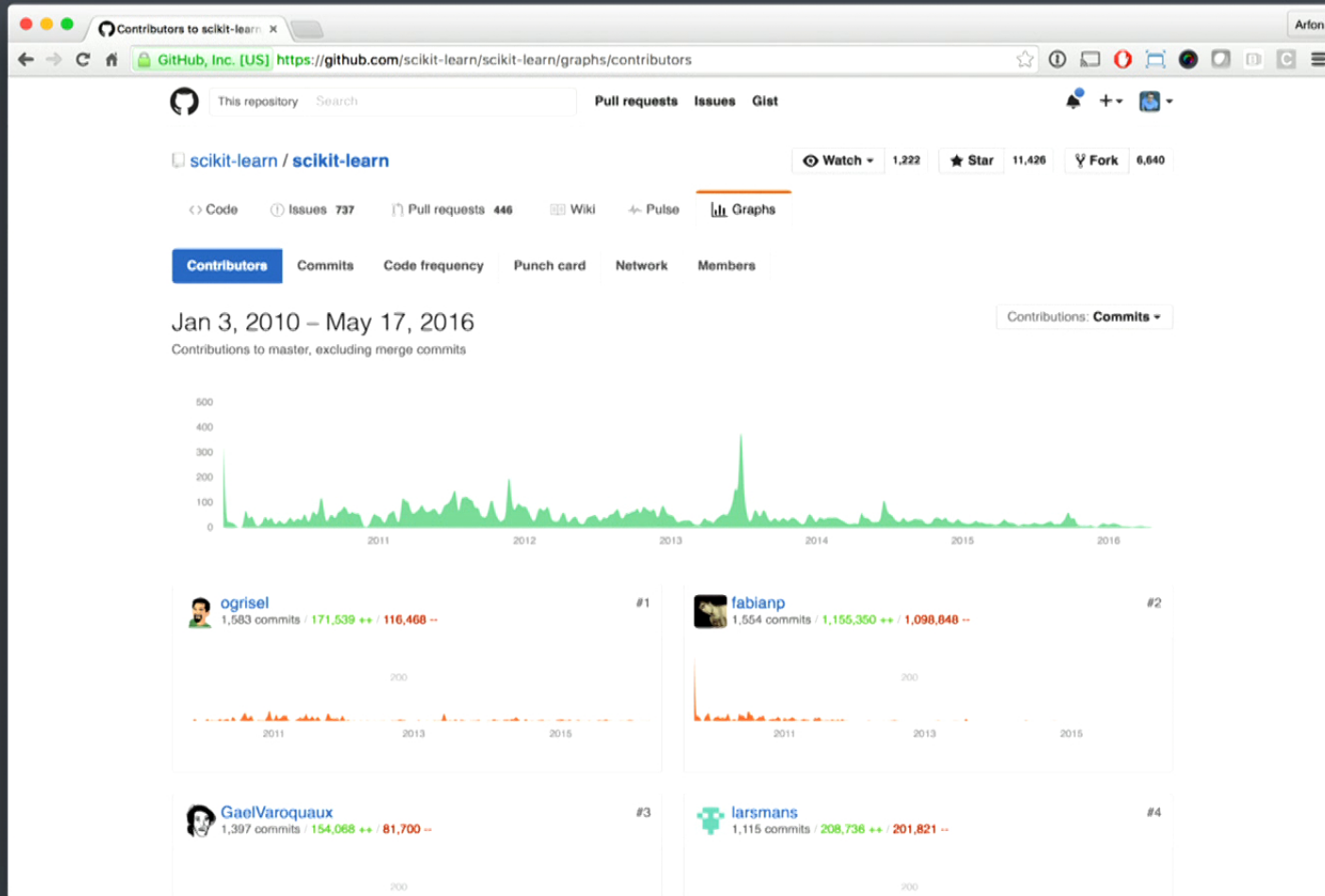
3 years ago

an k_means algorithm

a month ago

return values to intercept_dot_dotting in linear logistic

10 days ago



Metrics & Verification

The image shows a browser window displaying the GitHub README for scikit-learn. At the top, there is a navigation bar with the text "scikit-learn/scikit-learn: scikit-learn" and a user profile icon for "Arfon". The address bar shows the URL "https://github.com/scikit-learn/scikit-learn". Below the navigation bar, there is a "README.rst" header. A horizontal bar contains several status indicators: "build passing", "coverage 94%", "circledci passing", "python 2.7", "python 3.5", "pypi package 0.17.1", and "DOI 10.5281/zenodo.49910". The main content of the README includes the title "scikit-learn", a description of the project as a Python module for machine learning, its history starting in 2007, and its current maintenance by volunteers. A "Note" section mentions the previous name "scikits.learn". An "Important links" section lists various resources such as the official source code repo, HTML documentation (stable and development), download releases, issue tracker, mailing list, and IRC channel. A "Dependencies" section states that scikit-learn is tested to work under Python 2.6, 2.7, and 3.5, and lists required dependencies like NumPy and SciPy.

scikit-learn/scikit-learn: scikit-learn

GitHub, Inc. [US] https://github.com/scikit-learn/scikit-learn

Arfon

README.rst

build passing build passing coverage 94% circledci passing python 2.7 python 3.5 pypi package 0.17.1 DOI 10.5281/zenodo.49910

scikit-learn

scikit-learn is a Python module for machine learning built on top of SciPy and distributed under the 3-Clause BSD license.

The project was started in 2007 by David Cournapeau as a Google Summer of Code project, and since then many volunteers have contributed. See the AUTHORS.rst file for a complete list of contributors.

It is currently maintained by a team of volunteers.

Note scikit-learn was previously referred to as scikits.learn.

Important links

- Official source code repo: <https://github.com/scikit-learn/scikit-learn>
- HTML documentation (stable release): <http://scikit-learn.org>
- HTML documentation (development version): <http://scikit-learn.org/dev/>
- Download releases: <http://sourceforge.net/projects/scikit-learn/files/>
- Issue tracker: <https://github.com/scikit-learn/scikit-learn/issues>
- Mailing list: <https://lists.sourceforge.net/lists/listinfo/scikit-learn-general>
- IRC channel: #scikit-learn at irc.freenode.net

Dependencies

scikit-learn is tested to work under Python 2.6, Python 2.7, and Python 3.5. (using the same codebase thanks to an embedded copy of [six](#)). It should also work with Python 3.3 and 3.4.

The required dependencies to build the software are NumPy $\geq 1.6.1$, SciPy ≥ 0.9 and a working C/C++ compiler. For the

scikit-learn/scikit-learn | x Arfon

https://coveralls.io/github/scikit-learn/scikit-learn

COVERALLS

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- PRICING
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- BLOG
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SCIKIT-LEARN / SCIKIT-LEARN

94%

BRANCH: MASTER GITHUB REPO

LATEST BUILDS

BUILD	BRANCH	COVERAGE	COMMIT	COMMITTER	TYPE	TIME	VIA
#18605	master	94.24	Merge pull request #6790 from arokem/patch-1. Typo in 'plot_cv example'.	GaelVaroquaux	push	about 11 hours ago	travis-ci
#18604	master	94.24	Typo in 'plot_cv example'.	aroquem	PULL #6790	about 11 hours ago	travis-ci
#18603	master	94.24	FIX test for Python 3.5 and NumPy 1.12	jnothman	PULL #6789	about 13 hours ago	travis-ci
#18602	master	94.24	FIX support memmap scalars as CV scores	jnothman	PULL #6789	about 18 hours ago	travis-ci
#18601	master	94.24	TST correct syntax use	jnothman	PULL #6789	about 18 hours ago	travis-ci
#18600	master	94.24	FIX support memmap scalars as CV scores	jnothman	PULL #6789	about 18 hours ago	travis-ci
#18595	master	94.24	Some more changes to indicator features	maniteja123	PULL #6782	2 days ago	travis-ci
#18586	master	94.24	Some more fixes	maniteja123	PULL #6782	3 days ago	travis-ci
#18585	master	94.24	DOC minor whats_new tweaks	jnothman	push	3 days ago	travis-ci
#18582	master	94.24	ENH: Add boxcox transform to preprocess input data	maniteja123	PULL #6781	3 days ago	travis-ci

REPO STATS

94.24% COVERED

51321 OF 54458 RELEVANT LINES COVERED

LANGUAGES
PYTHON, C, C++, POWERSHELL, SHELL, BATCHFILE, MAKEFILE

REPO ADDED 16 DEC 2015

TOTAL FILES 345

BUILDS 1399 LAST BUILD #18605

JOBS 1401 LAST JOB #3

LAST COMMIT
Merge pull request #6790 from arokem/patch-1. Typo in 'plot_cv example'.

README BADGE
coverage 94%
EMBED

Build #18605 - scikit-learn

https://travis-ci.org/scikit-learn/scikit-learn/builds/130821175

Travis CI Blog Status Help Arfon Smith

Search all repositories

scikit-learn / scikit-learn build passing

My Repositories +

- ✓ github/developer.github.com #1733
 - Duration: 4 min 23 sec
 - Finished: 19 minutes ago
- ✓ github/git-lfs #2397
 - Duration: 8 min 35 sec
 - Finished: about 5 hours ago
- ✗ education/classroom #2478
 - Duration: 2 min 47 sec
 - Finished: about 12 hours ago
- ✓ openjournals/joss #167
 - Duration: 4 min 1 sec
 - Finished: about 13 hours ago
- ! github/maven-plugins #66
 - Duration: 1 min 7 sec
 - Finished: a day ago
- ✗ leereilly/swot #1769

Current Branches Build History Pull Requests > Build #18605 More options

✓ master Merge pull request #6790 from arokem/patch-1 #18605 passed

Time in "relat. ex. example"

- Commit 2f28ebe
- Compare 417788c..2f28ebe
- Gael Varoquaux authored and committed

Elapsed time 15 min

Total time 31 min 33 sec

about 11 hours ago

Build Jobs

Job ID	Language	Environment	Duration
✓ #18605.1	</> no language set	DISTRIB="ubuntu" PYTHON_VERSION="2.7" CY	9 min 38 sec
✓ #18605.2	</> no language set	DISTRIB="conda" PYTHON_VERSION="2.6" INST	6 min 40 sec
✓ #18605.3	</> no language set	DISTRIB="conda" PYTHON_VERSION="3.5" INST	8 min 19 sec
✓ #18605.4	</> Python: 3.5	DISTRIB="scipy-dev-wheels" CACHED_BUILD_D	6 min 56 sec

Allowed Failures ?

Dependencies

CITATIONS?



scikit-learn on PyPI - Libraries.io

https://libraries.io/pypi/scikit-learn

Libraries.io Login with GitHub Features Search.. Search

Hello! Libraries.io helps you track packages and its dependencies so your applications are always up to date. [Learn more](#)

scikit-learn 0.17.1

A set of python modules for machine learning and data mining

Homepage: <http://scikit-learn.org>

Platform: [PyPI](#)

License: [BSD-3-Clause](#)

View on registry: <https://pypi.python.org/pypi/scikit-learn/>

Dependent Repositories

- [donnemartin/data-science-ipython-notebooks](#)
- [cmusatyalab/openface](#)
- [awentzonline/image-analogies](#)
- [mnielsen/neural-networks-and-deep-learning](#)
- [aigamedev/scikit-neuralnetwork](#)
- [dnour/nolearn](#)
- [kvlh/ramp](#)
- [paulgb/sklearn-pandas](#)
- [mailgun/talon](#)
- [librosa/librosa](#)

[See all dependent repositories](#)

[Subscribe to releases](#)

Releases

- [0.17.1](#) - February 18, 2016 18:12
- [0.17](#) - November 05, 2015 21:50
- [0.17b1](#) - October 16, 2015 17:38
- [0.16.1](#) - April 14, 2015 20:00
- [0.16.0](#) - March 27, 2015 16:20
- [0.16b1](#) - March 09, 2015 15:32
- [0.15.2](#) - September 06, 2014 18:00
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SourceRank	9
Dependent repositories	2.13K
Total releases	20
Latest releases	2016-02-18
First releases	2011-09-22

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scikit-learn on PyPI - Libraries.io

https://libraries.io/pypi/scikit-learn

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scikit-learn 0.17.1

A set of python modules for machine learning and data mining

Homepage: <http://scikit-learn.org>

Platform: [PyPI](#)

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View on registry: <https://pypi.python.org/pypi/scikit-learn/>

Dependent Repositories

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- [cmusatyalab/openface](#)
- [awentzonline/image-analogies](#)
- [mnielsen/neural-networks-and-deep-learning](#)
- [aigamedev/scikit-neuralnetwork](#)
- [dnour/nolearn](#)
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- [0.16.0](#) - March 27, 2015 16:20
- [0.16b1](#) - March 09, 2015 15:32
- [0.15.2](#) - September 06, 2014 18:00
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The screenshot shows a web browser window displaying the GitHub repository page for 'openjournals / joss'. The browser's address bar shows the URL 'https://github.com/openjournals/joss/blob/master/Gemfile'. The repository page includes navigation links for 'Code', 'Issues 21', 'Pull requests 1', 'Wiki', 'Pulse', 'Graphs', and 'Settings'. The current file is 'joss / Gemfile' on the 'master' branch. A commit by 'arfon' is shown, dated '11 days ago'. The Gemfile content is displayed with line numbers and syntax highlighting.

```
1 source 'https://rubygems.org'
2
3 gem 'aasm'
4 gem 'github-markdown'
5 gem 'honeybadger'
6 gem 'html-pipeline'
7 gem 'omniauth-orcid'
8 gem 'octokit'
9 gem 'pg'
10 gem 'will_paginate', '~> 3.1'
11 gem 'rails', '4.2.5.1'
12 gem 'newrelic_rpm'
13 gem 'sanitize'
14 gem 'sass-rails', '~> 5.0'
15 gem 'uglifier', '~> 1.3.0'
16 gem 'coffee-rails', '~> 4.1.0'
17
18 # Use jquery as the JavaScript library
19 gem 'jquery-rails'
20
21 gem 'custom_error_message', '~> 1.1', '~> 1.1.1'
22 # Use Unicorn as the app server
23 gem 'unicorn'
24
25 group :development, :test do
26   # Call 'byebug' anywhere in the code to stop execution and get a debugger console
```


joss/Gemfile at master · openjournals · GitHub

GitHub, Inc. [US] https://github.com/openjournals/joss/blob/master/Gemfile

This repository Search Pull requests Issues Gist

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Code Issues 21 Pull requests 1 Wiki Pulse Graphs Settings

Branch: master joss / Gemfile Find file Copy path

arfon Fixes #80 77dde95 11 days ago

1 contributor

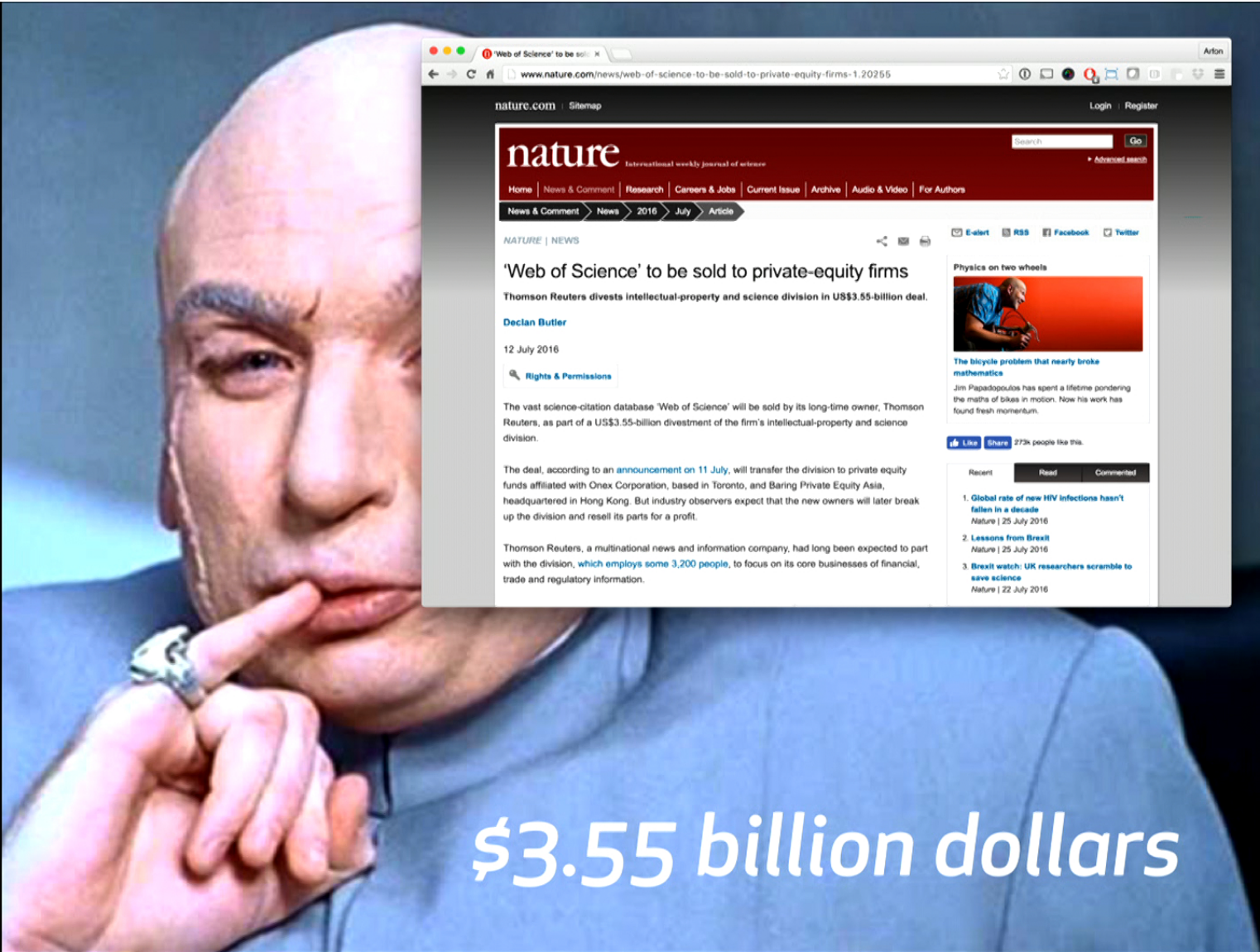
47 lines (39 sloc) 1.09 KB Raw Blame History

```
1 source 'https://rubygems.org'
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5 gem 'honeybadger'
6 gem 'html-pipeline'
7 gem 'omniauth-orcid'
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```

*What if we built a better
academic credit model?*

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Web of Science' to be sold to private-equity firms-1.20255

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'Web of Science' to be sold to private-equity firms

Thomson Reuters divests intellectual-property and science division in US\$3.55-billion deal.

Declan Butler

12 July 2016

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The vast science-citation database 'Web of Science' will be sold by its long-time owner, Thomson Reuters, as part of a US\$3.55-billion divestment of the firm's intellectual-property and science division.

The deal, according to an [announcement on 11 July](#), will transfer the division to private equity funds affiliated with Onex Corporation, based in Toronto, and Baring Private Equity Asia, headquartered in Hong Kong. But industry observers expect that the new owners will later break up the division and resell its parts for a profit.

Thomson Reuters, a multinational news and information company, had long been expected to part with the division, [which employs some 3,200 people](#), to focus on its core businesses of financial, trade and regulatory information.

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The bicycle problem that nearly broke mathematics

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Implementing Transitive Credit with JSON-LD

Daniel S. Katz, Arfon M. Smith

(Submitted on 18 Jul 2014 (v1), last revised 2 Sep 2014 (this version, v3))

Science and engineering research increasingly relies on activities that facilitate research but are not currently rewarded or recognized, such as: data sharing; developing common data resources, software and methodologies; and annotating data and publications. To promote and advance these activities, we must develop mechanisms for assigning credit, facilitate the appropriate attribution of research outcomes, devise incentives for activities that facilitate research, and allocate funds to maximize return on investment. In this article, we focus on addressing the issue of assigning credit for both direct and indirect contributions, specifically by using JSON-LD to implement a prototype transitive credit system.

Comments: accepted by WSSPE2 – [this http URL](#)

Subjects: **Computers and Society (cs.CY)**; Digital Libraries (cs.DL)

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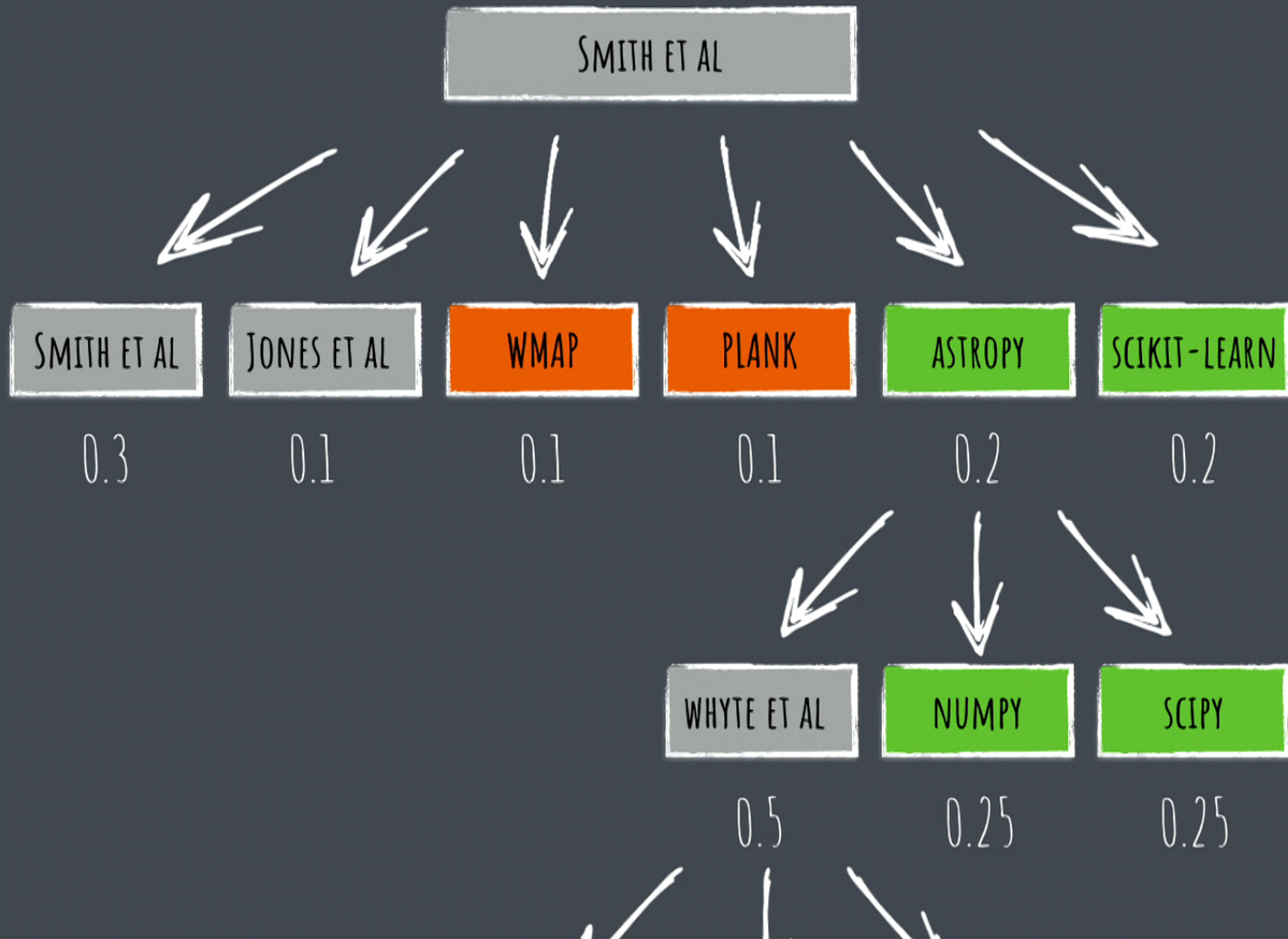
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SMITH ET AL

Transitive Credit

Dan Katz



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Hard because we have no control

ELEVATING THE ROLE OF SOFTWARE

Solution #4

ELEVATING THE ROLE OF SOFTWARE

Solution #4

ASK FOR AUTHORS TO INCLUDE SOFTWARE
WHEN REVIEWING PAPERS

Individual actions

INCLUDE NON-PAPER CONTRIBUTIONS
WHEN ASSESSING CANDIDATES

Individual actions

TAKE A COURSE
(OR SEND YOUR STUDENT ON ONE)

Individual actions

SHARE YOUR SOFTWARE
ON GITHUB :-)

Individual actions

WRITE SOFTWARE PAPERS
MAKE IT POSSIBLE TO CITE SOFTWARE
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ELEVATING THE ROLE OF SOFTWARE

All the fixes