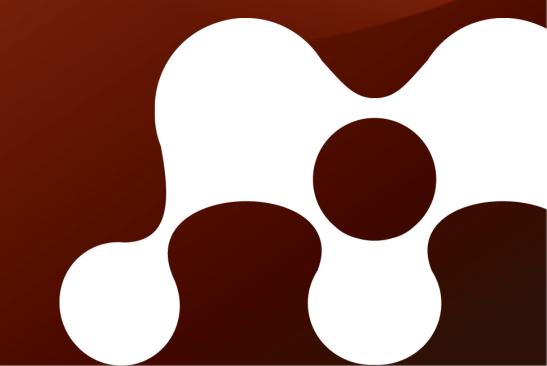
Vision, Users, Developers - what drives innovation at Mendeley?

Dr. Victor Henning Co-Founder & CEO Mendeley



www.mendeley.com

"Innovation is the creation of better or more effective products, processes, services, technologies, or ideas that are accepted by markets, governments, and society."

Wikipedia

A brief introduction to Mendeley

Back in 2008:





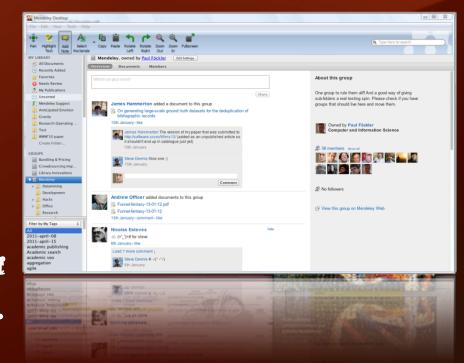


3 GERMAN PLD STUDENTS WITH SKYPE ACCOUNTS





..lekhenskednylebitscausstahitier andræktentolfringskiplebs, ...



..and aggregates everything in the cloud



research in groups, ...

A global research network with 1.6 million users, growing by 130,000 per month:

University of Cambridge MIT

Stanford University Imperial College London University of Michigan University of Oxford Harvard University **University College London Cornell University** University of Washington Columbia University Sao Paulo University University of California at Berkeley **University of Toronto** University of Edinburgh

Network of 1,200 "Mendeley Advisors" on campuses around the world:



Innovation needs to be directed by vision Mendeley wants to make science more efficient, collaborative, and open

Innovation needs to be directed by vision

..and vision needs
to be communicated
internally and externally

Regular internal "Strategy/ Vision" talks, and putting our vision into context

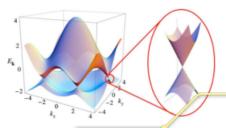
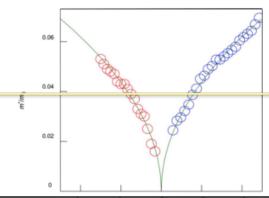


FIG. 3. (Color online) Electronic dispersion in the honeycomb lattice. Left: energy spectrum (in units of t) for finite values of t and t', with t=2.7 eV and t'=-0.2t. Right: zoom in of the energy bands close to one of the Dirac points.



$$f(\mathbf{k}) = 2\cos(\sqrt{3}k_y a) + 4\cos\left(\frac{\sqrt{3}}{2}k_y a\right)\cos\left(\frac{3}{2}k_x a\right), \quad (6)$$

where the plus sign minus sign the lower that the spectrum is =0. For finite values broken and the π an Fig. 3, we show the fu both t and t'. In the s of the band structure close to one of the Dira the BZ). This disper Ca the K or K' point if obtained by expanding the full band structure, Eq. close to the K (or K') vector, Eq. (3), as k=K+ $|\mathbf{q}| \ll |\mathbf{K}|$ (Wallace, 19)

$$E_{\pm}(\mathbf{q}) \approx \pm v_F |\mathbf{q}| + O[(q/K)^2],$$
 (7)

where q is the momentum Dirac points and v_F is the Fermi velocity, given by v_F =3ta/2, with a value $v_F \approx 1 \times 10^6$ m/s. This result was first obtained by Wallace (1947).

The most striking difference between this result and the usual case, $\epsilon(\mathbf{q}) = q^2/(2m)$, where m is the electron mass, is that the Fermi velocity in Eq. (7) does not depend on the energy or momentum: in the usual case we have $v=k/m=\sqrt{2E/m}$ and hence the velocity changes substantially with energy. The expansion of the spectrum around the Dirac point including t' up to second order in q/K is given by

$$E_{\pm}(\mathbf{q}) \simeq 3t' \pm v_F |\mathbf{q}| - \left(\frac{9t'a^2}{4} \pm \frac{3ta^2}{8}\sin(3\theta_{\mathbf{q}})\right) |\mathbf{q}|^2,$$
 (8)

where

$$\theta_{\mathbf{q}} = \arctan\left(\frac{q_x}{q_y}\right)$$
 (9)

(#) band, It is clear Month of their electron in Positive and the commettric around ze Mendele en Commette electron in Positive and the commetter of the clear of their electron in Positive and the commetter of the clear of their electron in Positive and the commetter of the clear of their electron in Positive and the commetter of the clear of their electron in Positive and the commetter of the clear of their electron in Positive and the commetter of the clear of their electron in Positive and the commetter of the clear of their electron in Positive and the commetter of the clear of the Vision Team

clotron mass that depends on the electronic density as its square root (Novoselov, Geim, Morozov, et al., 2005; Zhang et al., 2005). The cyclotron mass is defined, within the semiclassical approximation (Ashcroft and Mermin,

$$m = \frac{1}{2\pi} \begin{bmatrix} \partial A(E) \\ \partial E \end{bmatrix}_{E=E_F},$$
(10)

with A(E) the area in k space enclosed by the orbit and

$$A(E) = \pi q(E)^2 = \pi \frac{E^2}{v_E^2}$$
 (11)

Using Eq. (11) in Eq. (10), one obtains

$$m^* = \frac{E_F}{v_F^2} = \frac{k_F}{v_F}$$
. (12)

The electronic density n is related to the Fermi momentum k_E as $k_E^2/\pi = n$ (with contributions from the two tum k_E as $k_E/\pi = n$ (with contributions from the two Annotation



Steve Dennis - 6 days ago

A method for mitigating the effects of chromatic dispersion in fiber-optic communication links with electronic components in the receiver.

Save - Comment

×

Rosario García de Zúñiga Canivell - 6 days ago

Reduction of Fermi velocity in folded graphene served by resonance Raman spectroscopy enhua Ni, et al. in Physical Review B (2008)

 $E_{\pm}(\mathbf{q}) \approx \pm v_F |\mathbf{q}| + O[(q/K)^2],$

Comment

Supports



Reduction of Fermi velocity in folded graphene observed by resonance Raman spectroscopy Zhenhua Ni, et al. in Physical Review B (2008)

Comment

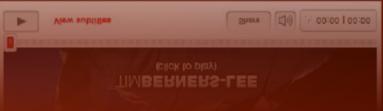
 $o_q = \arctan(\frac{1}{q_y})$

The electronic density n is related to the Fermi momen-

Putting our vision into context



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Giving the vision a human face



Giving the vision a human face



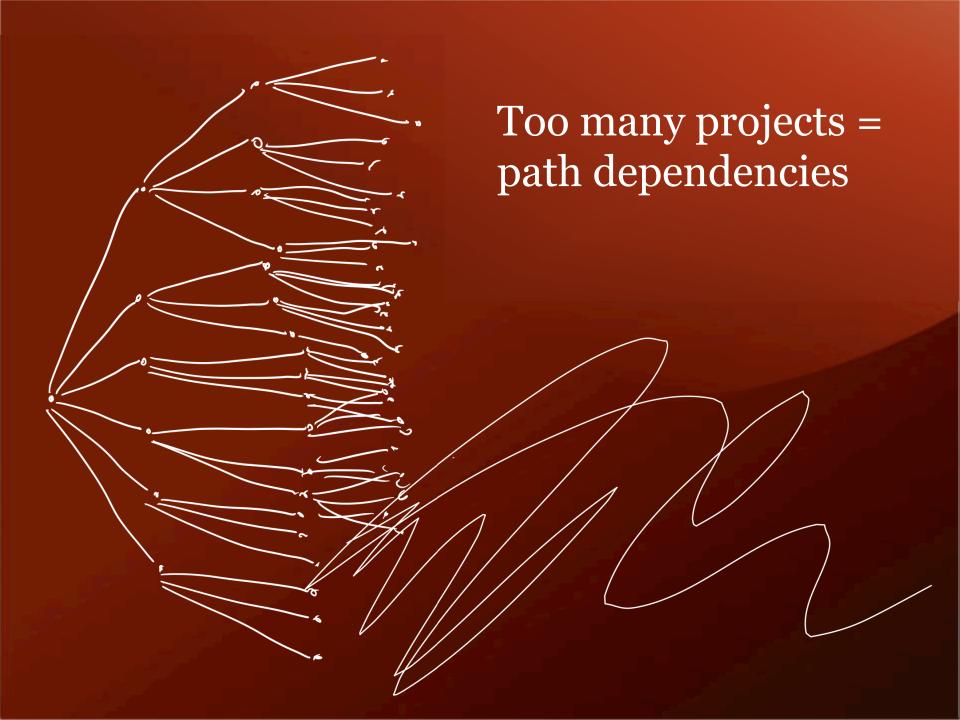
Giving the vision a human face



Understanding our vision and our users attracts talent into the organization and guides the innovation pushed by our developers.

What enables innovation?

Focus

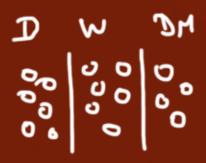


Team Structure

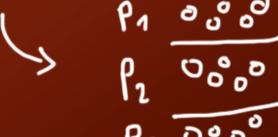
One big family

The evolution of our team structure

Functional teams



Project teams



Product family teams

Processes and tools



Search RESEARCH NETWORKS logged in as victor.henning | Logout | Help/Guide | About Trac | RPC API | Preferences

Wiki Timeline Roadmap Browse Source View Tickets Search Ship It? User Pain Dashboard New Bug-Report

Roadmap



42%

67%

85%

Milestone: Desktop Sprint 15

8 months late (09/09/11)

Closed tickets: 5 Active tickets: 7 / Total tickets: 12

Closed tickets: 14 Active tickets: 7 / Total tickets: 21

Milestone: Datamining Sprint 45

7 months late (16/09/11)

7 months late (15/10/11)

Closed tickets: 2 Active tickets: 1 / Total tickets: 3

Milestone: Graz Secondment (James)

Closed tickets: 11 Active tickets: 2 / Total tickets: 13

Todo

#17028 Analyse arXiv data #17034 Code to evaluate clustering of user documents with a specified identifier type

Current

No results

Done

- #16697 Stop GetAuthors, GetTags, GetReaders from using old category map.
- #16702 Extract PubMed documents and user docs with PubMed IDs
- #16745 Compute distribution of similarities between imported PubMed/arXiv docs and their corresponding user docs #16911 Create ground truth data set out of arXiv data.
- #16954 Take user docs with identifiers and output those where the identifier can be validated.
- #17015 Congrate duplicate and non-duplicate pairs of documents from user documents with validated arviv ide



Projects -

Issues ▼ Agile

+ Create Issue

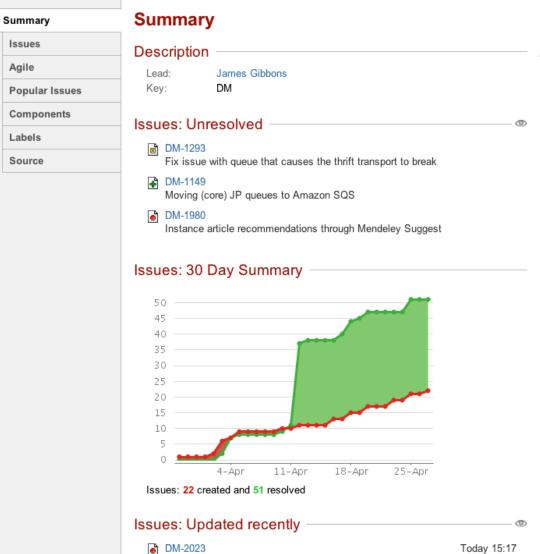
ShipIt? ShipIt.



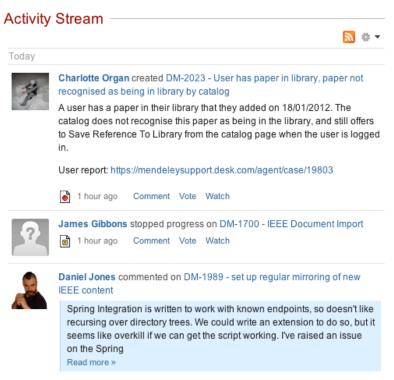


III Reports ▼

Quick Search



User has paper in library, paper not recognised as being in library by catalog



Daniel Jones changed the Assignee to 'Robin Stephenson' on DM-1989 -

This looks like some local Linux-y issue. I can run the script fine when

copying to a directory that's not /srv/leee-mirror/, and I can similarly copy the files to my machine without issue. Deleting the troublesome files and

1 hour ago Comment Watch

re-running the script

Read more »

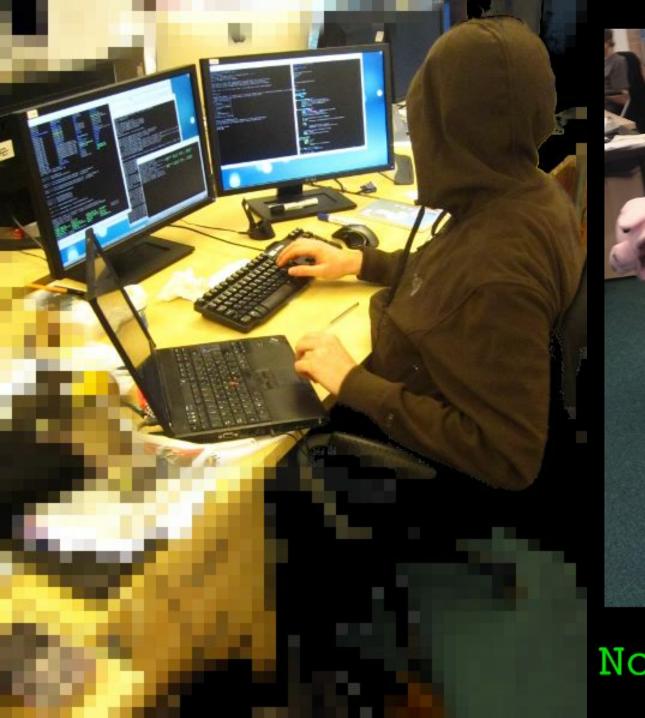
set up regular mirroring of new IEEE content

2 hours ago Comment Vote Watch



Playfulness







Not a hacker.

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N 55°56' 0'' / W 3°11' 0''

Open Science, Open Access, and bringing more experimental techniques to the biosciences. I work for the UK STFC but tweets are my personal opinion. http://cameronneylon.net

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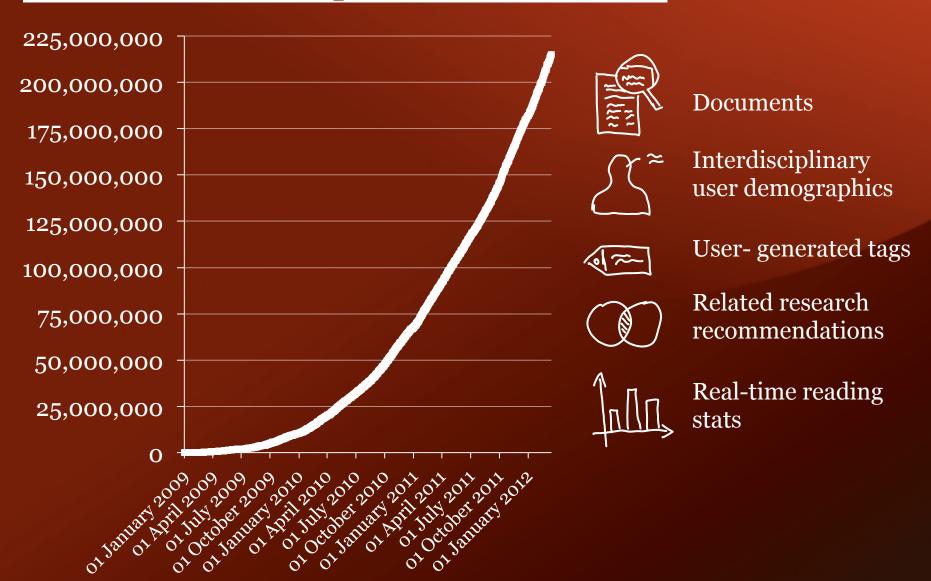
an altmetrics project.

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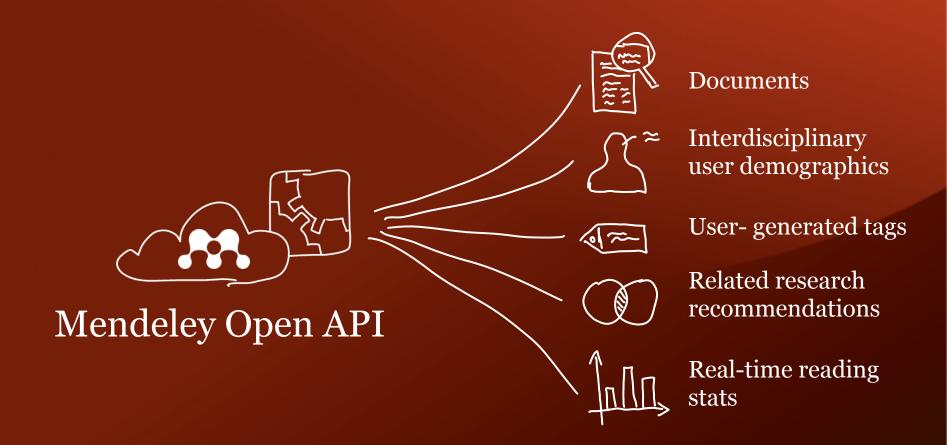
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