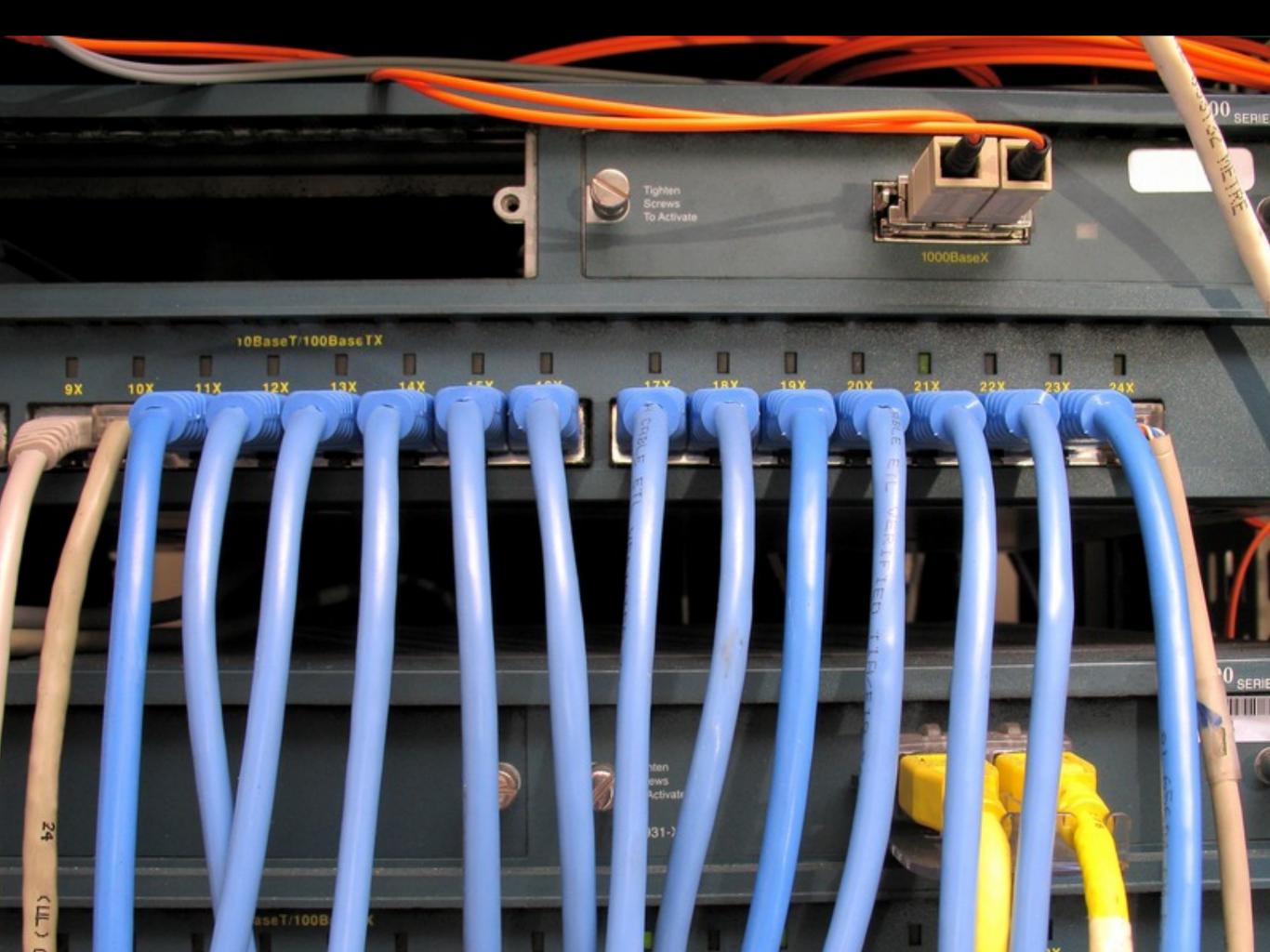
rethinking digital research

kaitlin thaney

(a) kaythaney; (a) digitalsci
wolfram data summit



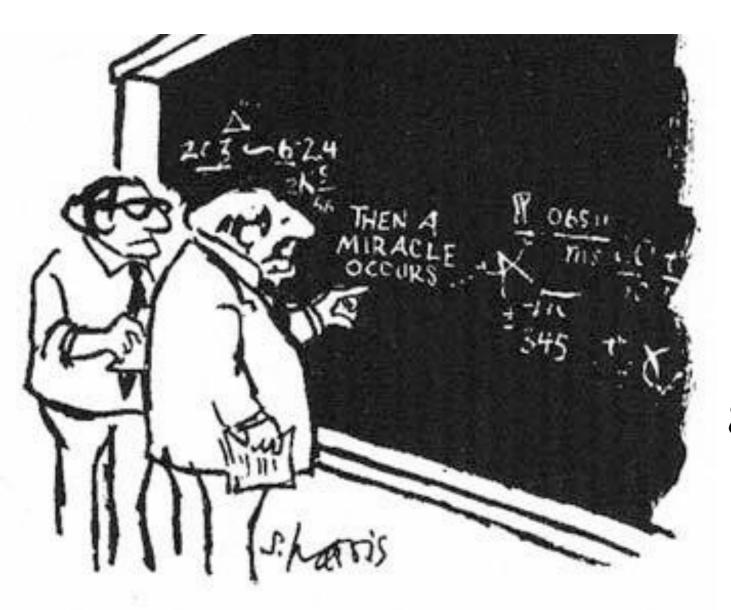


discovery & delivery

changes at the workbench

annotation & curation

social & administrative



significant

(and somewhat silly)

gaps still exist

"I think you should be more explicit here in step two."

DIGITAL SCIENCE

what we know, is research.

research is changing

(as is the research workflow)



discovery is still sub-optimal.

still the starting point

+Kaitlin Web Images Videos Maps News Gmail more -



10,11-dihydro-5-methyl-5H-dibenzo[b,e][1,4]diazepin-11-one





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www.e111-nhs.org

The E111 has been replaced by the European Health Insurance Card.

Dibenzepin | 4498-32-2 🖅 🔍

www.chemicalbook.com/ChemicalProductProperty_EN_CB211059... - Cached

...)ethyl]-5,10-dihydro-5-methyl-11H-dibenzo[b,e][1,4]diazepin-11-one;10 ... -11one; 10,11-Dihydro-10-[2-(dimethylamino)ethyl]-5-methyl-5H-dibenzo[b,e][1 ...

11H-Dibenzo[b,e][1,4]diazepin-11-one,5,10-dihydro-5-[3 ... 🖅 🔍

www.guidechem.com/products/63915-70-8.html - Cached

10-Methyl-10,11-dihydro-5H-dibenzo[b,e][1,4]diazepin-11-one. 10-[2-(Diethylamino)ethyl]-5,10-dihydro-11H-dibenzo[b,e][1,4]diazepin-11-one ...

11H-Dibenzo[b,e][1,4]diazepin-11-one,5,10-dihydro-suppliers ...

www.guidechem.com/products/5814-41-5.html - Cached

10-Methyl-10,11-dihydro-5H-dibenzo[b,e][1,4]diazepin-11-one. 10-[3 ...

♣ Show more results from guidechem.com

8-Chloro-5,10-dihydrodibenzo[b,e][1,4]diazepin-11-one, 8-Chloro-5 ...

www.chemblink.com > Chemical Listing - Cached

Synonyms, 8-Chloro-5,10-dihydro-11H-dibenzo[b,e][1,4]diazepin-11-one; 8-Chloro-11oxo-10,11-dihydro-5H-dibenzo-1,4-diazepine ... 6-Chloro-N4-[3,5-difluoro-4-[(3-methyl-1Hpyrrolo[2,3-b]pyridin-4-yl)oxy]phenyl]-2,4-pyrimidinediamine ...

5H-Dibenzo(b,e)(1,4)diazepin-11(10H)-one, 10-(2-(dimethylamino ...

www.chemindustry.com/chemicals/0287900.html - Cached

5H-Dibenzo(b,e)(1,4)diazepin-11(10H)-one, ... 10-[2-(Dimethylamino)ethyl]-5methyl-5,10-dihydro-11H-dibenzo[b,e][1,4]diazepin-11-one, ...

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

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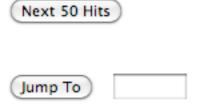
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Searching US Patent Collection...

Results of Search in US Patent Collection db for:

diazepin: 1102 patents.

Hits 1 through 50 out of 1102



specific DBs no better (in this case, likely worse)

Refine Search diazepin

PAT. NO. Title

- 1 7,973,119 Adhesive systems using imines and salts thereof and precursurs to electron deficient olefins
- 2 7,968,566 Pyrrolo(2,3-b) pyridine derivatives, the preparation and the pharmaceutical use thereof in the form of kinase inhibitors
- 3 7,964,618 Chemical compounds
- 4 7,960,556 Thiadiazole derivatives for the treatment of neuro-degenerative diseases
- 5 7,960,428 Enantiomerically pure phosphoindoles as HIV inhibitors
- 6 7,955,852 Expansion of renewable stem cell populations
- 7 7,951,816 Compound containing basic group and use thereof
- 8 7,947,718 Isoxazole compounds as histamine H.sub.3 modulators
- 9 7,939,533 Dual NK1/NK3 receptor antagonists
- 10 7,935,815 Imidazoyl pyridine compounds and salts thereof

name disambiguation

103-90-2

254-465-1

4-(Acetylamino)phenol

4-13-00-01091 (Beilstein Handbook Reference)

4-Acetaminophenol

4'-Hydroxyacetanilide

4-Hydroxyanilid kyseliny octove

Acetamide, N-(4-hydroxyphenyl)-

Acetamide, N-(p-hydroxyphenyl)-

Acetanilide, 4'-hydroxy-

APAP

N-(4-Hydroxyphenyl)acetamid

N-(4-Hydroxyphenyl)acetamide

N-(4-Hydroxy-phenyl)-acetamide

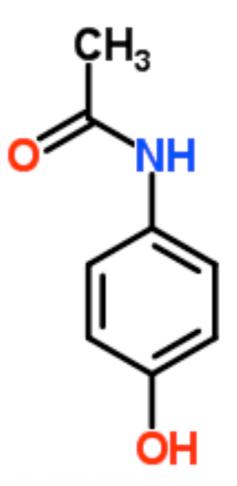
N-(4-Hydroxyphényl)acétamide

N-(4-Hydroxyphenyl)acetanilide

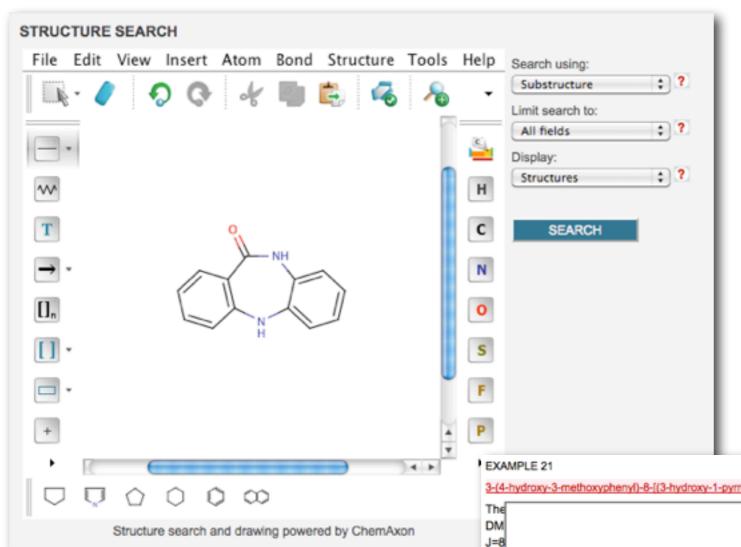
N-(p-hydroxyphenyl)acetamide

N-Acetyl-4-aminophenol

N-Acetyl-p-aminophenol ...



and the list goes on ...



streamline search

e 446 (M+H)+; 1H NMR (500 MHz,

08 (dd, J=8.3, 2.2 Hz, 1H), 7.01 (d,

(4 budges 2 method phone) 9 (/2 budges 1 purplished bodges 4 to 4 budge 11 U dibone) of 4 Millionesis

3-(4-hydroxy-3-methoxyphenyl)-8-[(3-hydroxy-1-pyrrolidinyl)carbonyl]-5,10-dihydro-11H-dibenzo[b,e][1,4]diazepin-11-one

oração

The 3-(4-hydroxy-3-methoxyphenyl)-8-[(3-hydroxy-1-pyrrolidinyl)carbonyl]-5,10-dihydro-11H-dibenzo[b,e][1,4]diazepin-11-one NM (DCI) m/e 460 (M+H)+; ¹H NM (DCI) m/e 460 (M+H)+; 'H NM (DCI) m/e 460 (M

EXAMPLE 23

EX/

3-(4-hydroxy-3-methoxyphenyl)-8-{[2-(hydroxymethyl)-1-piperidinyl]carbonyl}-5,10-dihydro-11H-dibenzo(b.e)[1,4]diazepin-11-one

The desired product was prepared by substituting 2-piperidinylmethanol for 3-pyrrolidin-1-ylpropylamine in Example 14. MS (DCI) m/e 474 (M+H)*; ¹H NMR (500 MHz, DMSO-d₆) δ 9.84 (s, 1H), 9.29 (br s, 1H), 8.08 (s, 1H), 7.72 (d, J=8.3 Hz, 1H), 7.25 (d, J=1.5 Hz, 1H), 7.16-7.21 (m, 2H), 7.09 (m, 1H), 6.98-7.03 (m, 2H), 6.88 (d, J=8.0 Hz, 1H), 4.35 (m, 1H), 3.86 (s, 3H), 3.28-3.34 (m, 4H), 1.48-1.80 (m, 6H).

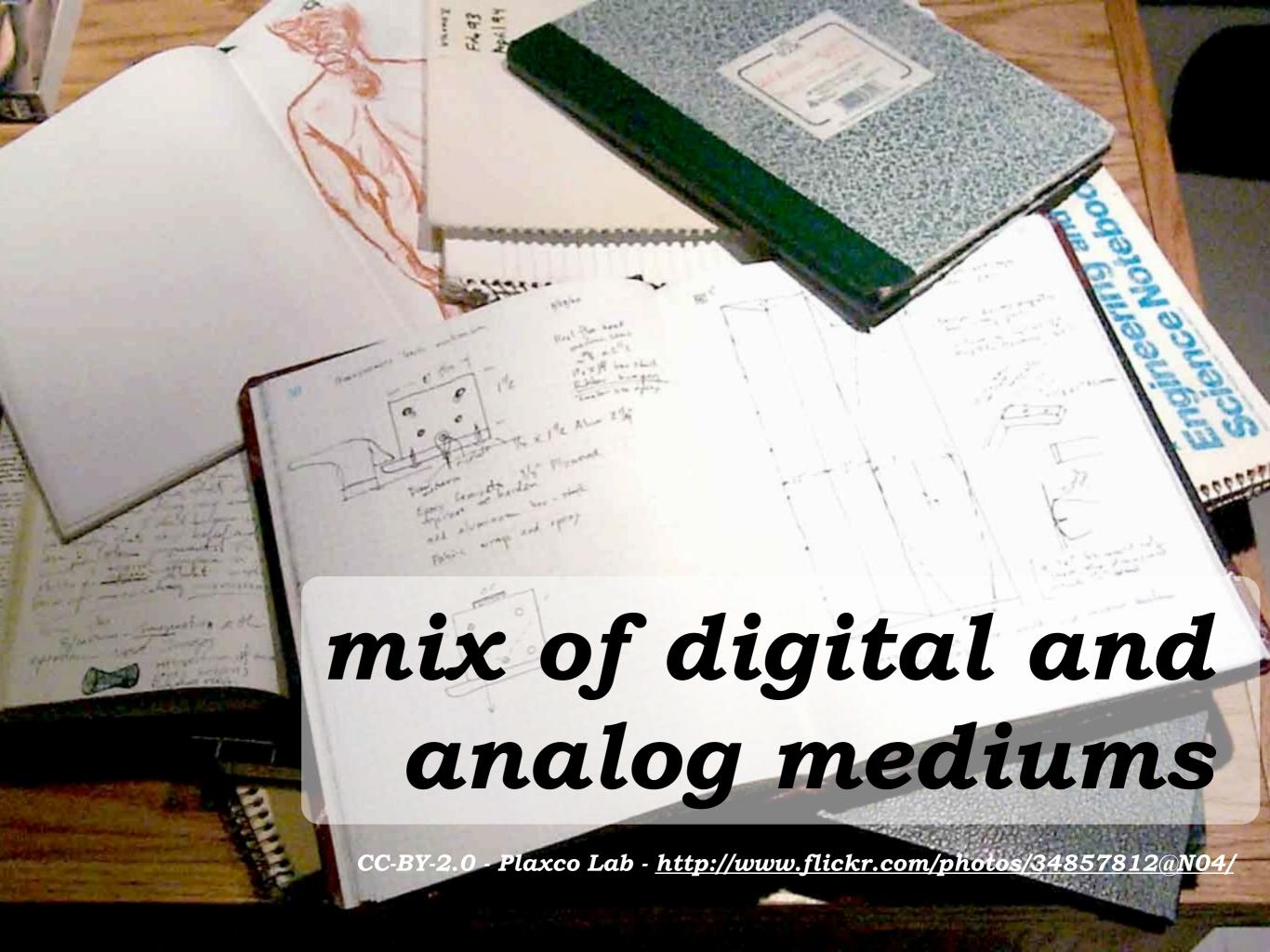
EXAMPLE 24

ethyl 1-([3-(4-hydroxy-3-methoxyphenyl)-11-oxo-10,11-dihydro-5H-dibenzo[b,e][1,4]diazepin-8-y[]carbonyl]-2-piperidinecarboxylate

The desired product was prepared by substituting ethyl 2-piperidinecarboxylate for 3-pyrrolidin-1-ylpropylamine in Example 14. MS (DCI) m/e 516 (M+H)+; ¹H NMR (500 MHz, DMSO-d₆) δ 9.89 (s, 1H), 9.28 (s, 1H), 8.14 (s, 1H), 7.73-7.74 (d, J=8.2 Hz, 1H), 7.24 (d, J=1.2 Hz, 1H), 7.17-7.19 (m, 2H), 7.07-7.09 (dd, J=8.2, 2.1 Hz, 1H), 6.95-7.05 (m, 3H), 6.88 (d, J=8.2 Hz, 1H), 4.16 (br s, 2H), 3.86 (s, 3H), 3.61 (m, 1H), 1.29-1.79 (m, 11H).

our definition of "data" is changing.

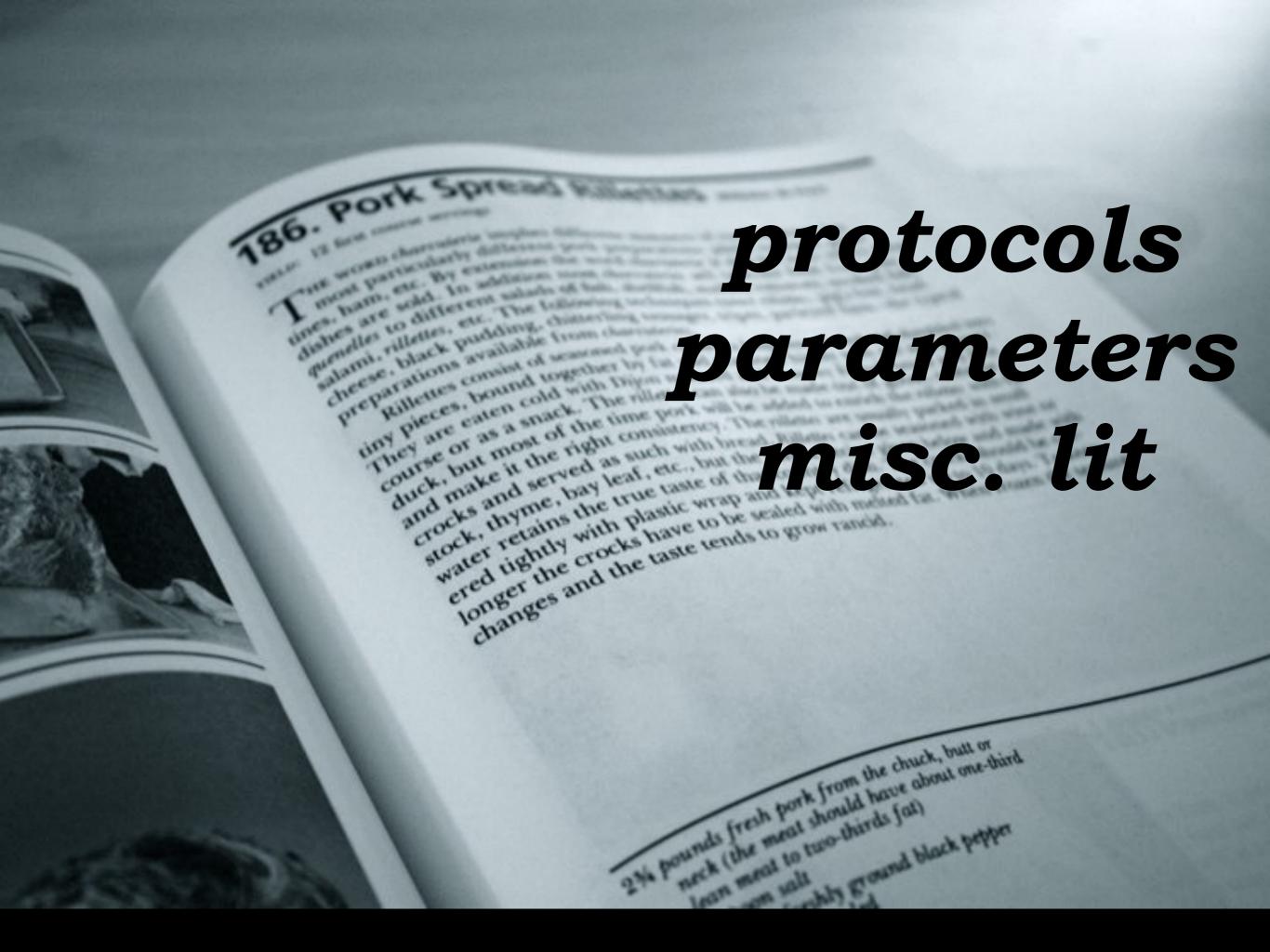
(or, at least, is long overdue to.)











JELLYFISH IN ARMOUR



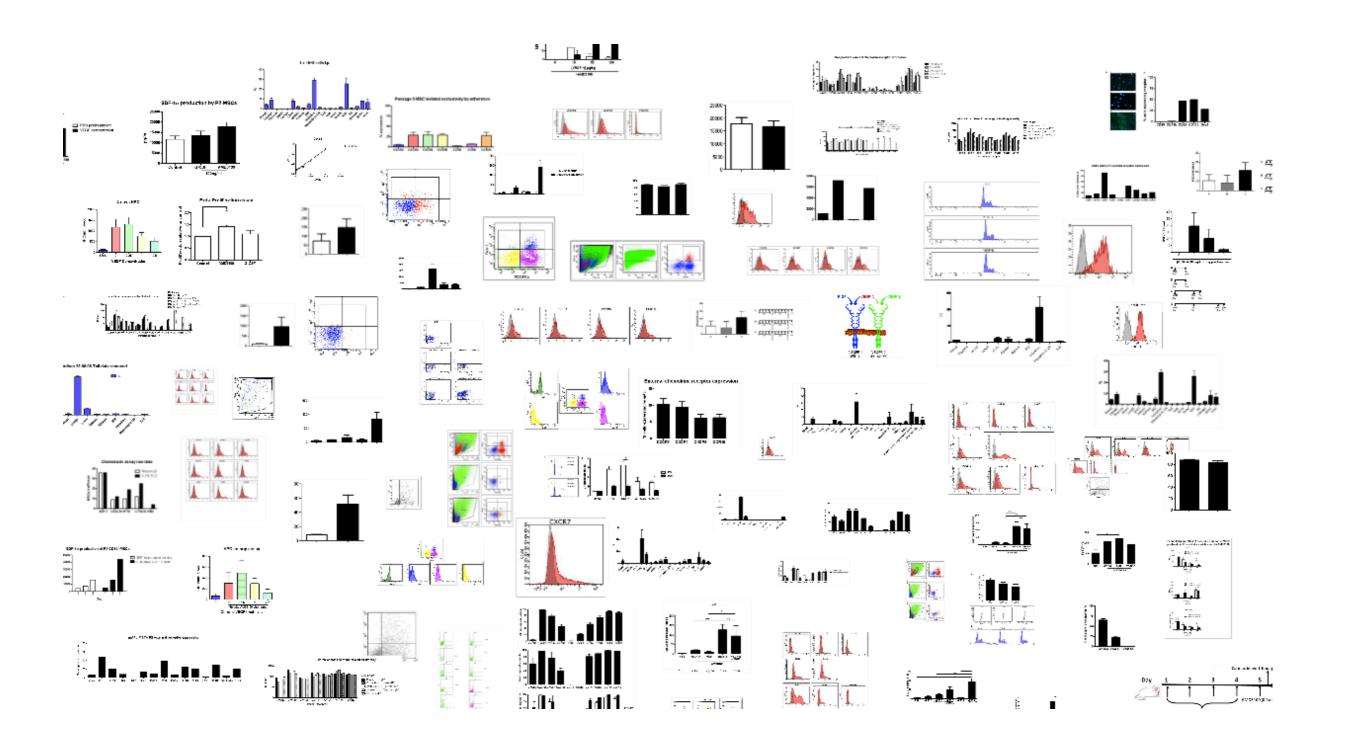
tracking expiration calibration

HOW MILK CONTAINERS SHOULD BE



our practices are limiting us.

(and in some cases, harming.)



3 Gb/year

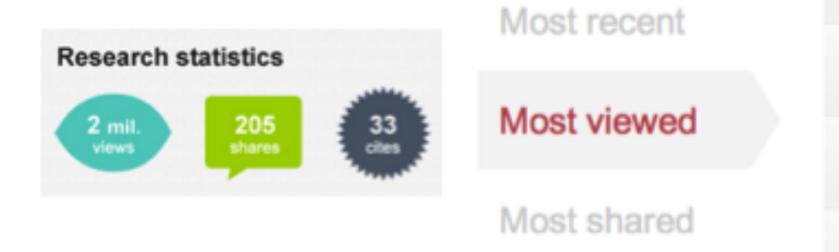
9 Gb/PhD3 Gb/year

30,000,000 Gb/all*9 Gb/PhD3 Gb/year

how much made available? 30,000,000 Gb/all* 9 Gb/PhD 3 Gb/year

make stupidly simple





... and part of the process.

IOS dock evolution V

FTIR spectroscopy of

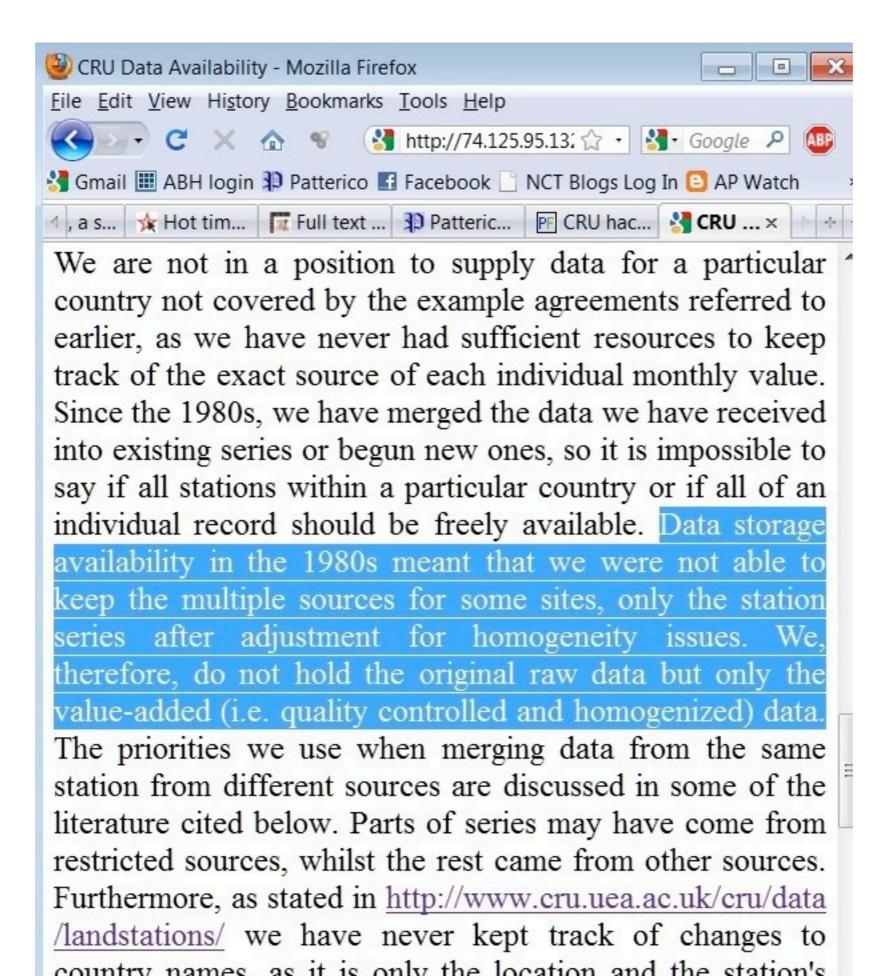
Gliding Motility Assay

"Non-reproducible single occurrences are of no significance to science."

- Karl Popper



"That's Dr. Arnold Moore. He's conducting an experiment to test the theory that most great scientific discoveries were hit on by accident"



rethink the way we rank researchers.

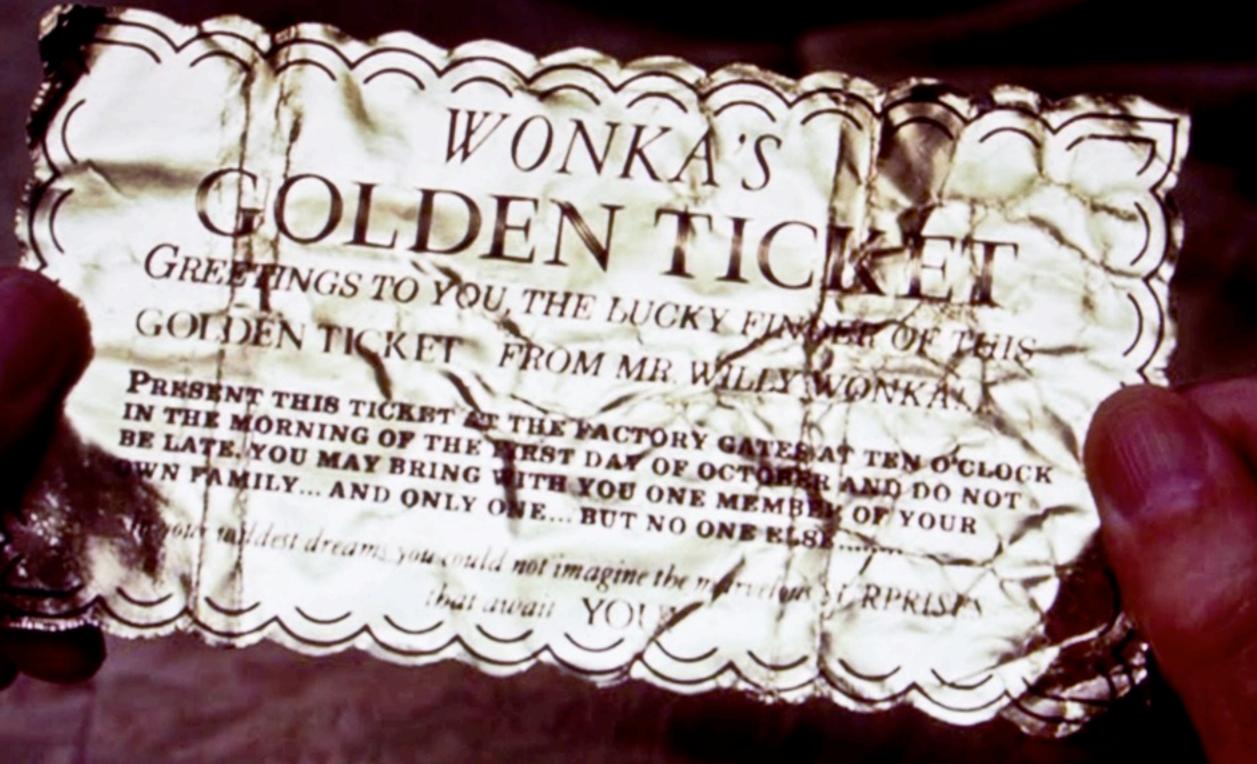
(the big, hairy "social" issue.)

What Des-Cartes did was a good step. You have added much several ways, & especially in taking ye colours of thin plates into philosophical consideration.

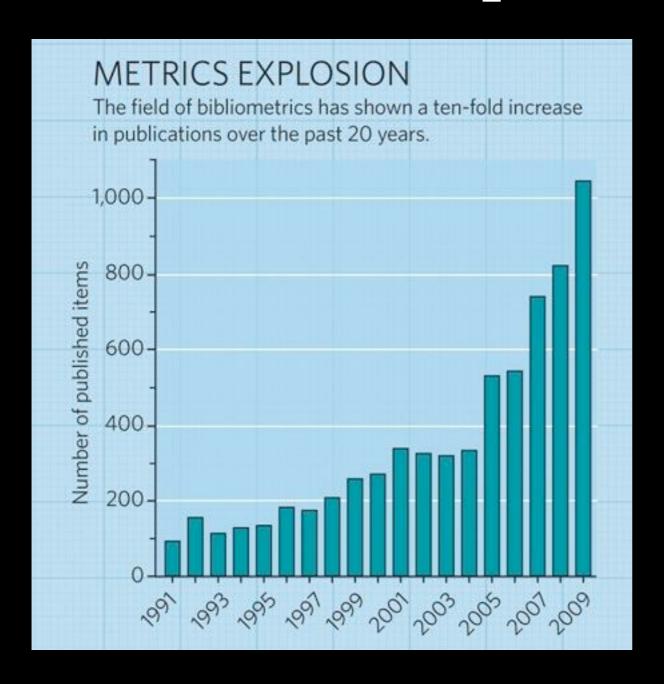
If I have seen further it is by standing on **ye shoulders of Giants**.

- Isaac Newton, 1676

locked in old mechanisms.

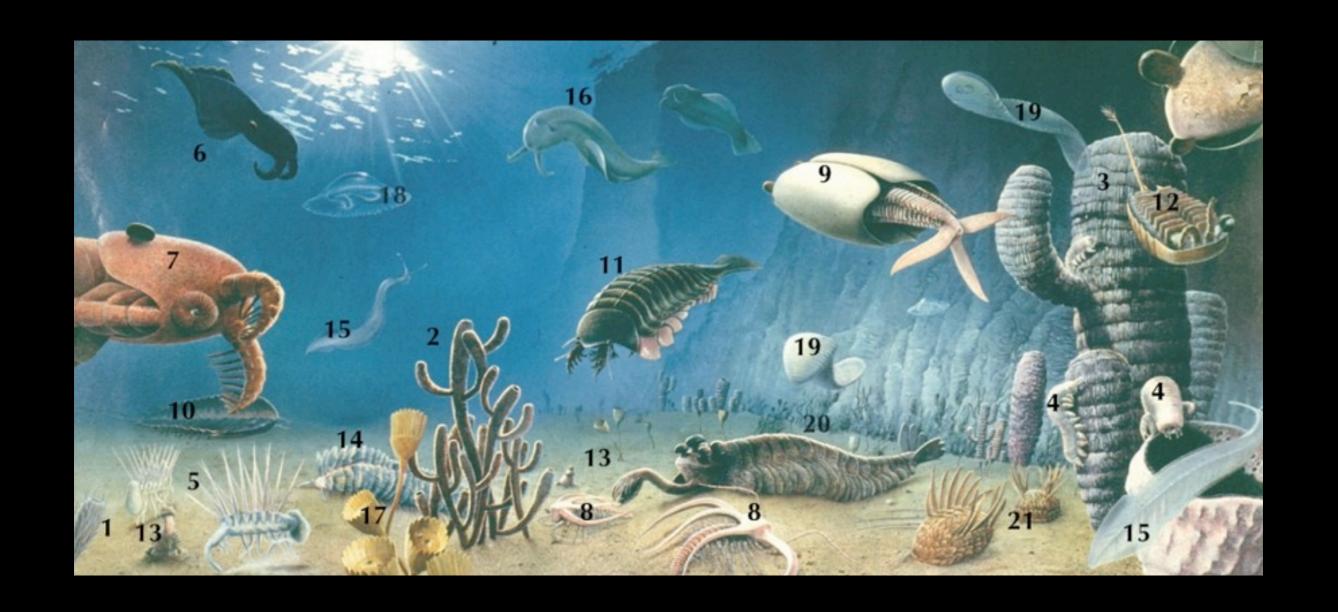


"Right now we're going through a Cambrian explosion of metrics."

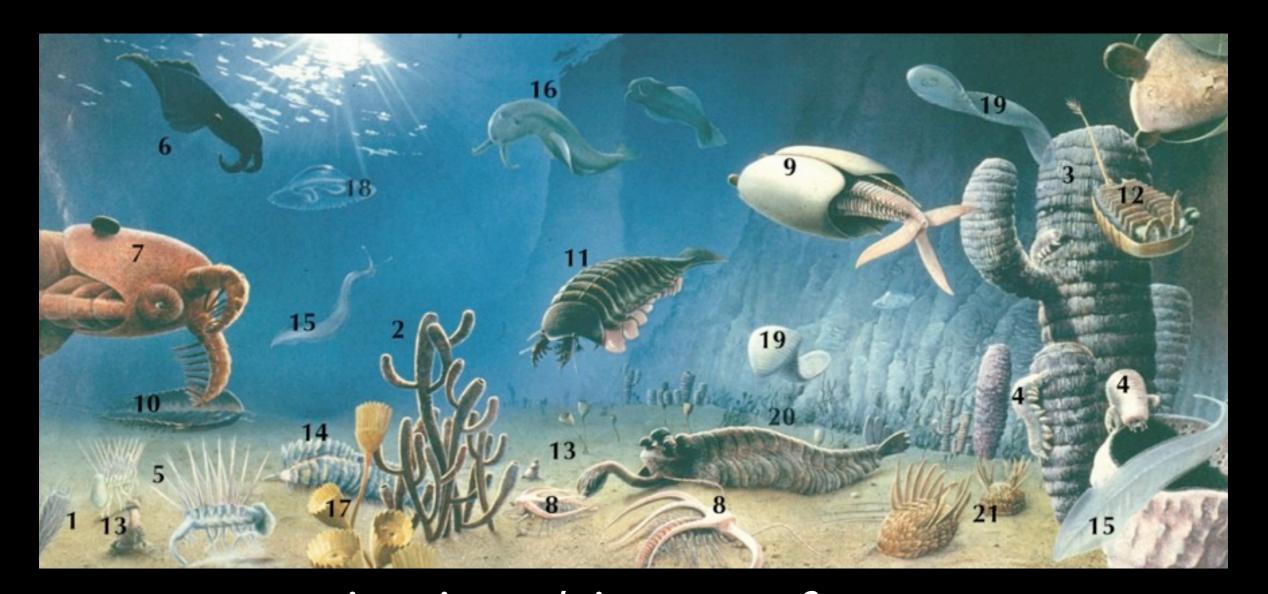


- Johan Bollen

Nature 465, 864-866 (2010) | doi:10.1038/465864a



there's been a drastic spike in terms of sheer *volume* and *type*



citation / impact factor h - index weighted citations (eigenfactor, sjr) "betweenness centrality" alt-metrics, etc.

difficult to ... harmonise track /maintain / map understand (even still measure)









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