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Open Access: nuevos modelos, nuevas métricas. Perspectiva del investigador de ciencias

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Perspectiva del investigador de Ciencias

Francisco R. Villatoro

Ecosistemas del Conocimiento Abierto

UNIVERSIDAD DE MÁLAGA

Open Access: nuevos modelos, nuevas métricas

Ecosistemas del Conocimiento Abierto

ECA 2017

16º Workshop de REBIUN de Proyectos Digitales

7as Jornadas OS-Repositorios

11º Coloquio Internacional de Ciencias de la Documentación

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Mathematical Physics

Self-similar Radiation from Numerical Rosenau-Hyman Compactons

Francisco Rus, Francisco R. Villatoro

(Submitted on 3 Aug 2007)

The numerical simulation of compactons, solitary waves with compact support, is characterized by the presence of spurious phenomena, as numerically-induced radiation, which is illustrated here using four numerical methods applied to the Rosenau-Hyman K(p,p) equation. Both forward and backward radiations are emitted from the compacton presenting a self-similar shape which has been illustrated graphically by the proper scaling. A grid refinement study shows that the amplitude of the radiations decreases as the grid size does, confirming its numerical origin. The front velocity and the amplitude of both radiations have been studied as a function of both the compacton and the numerical parameters. The amplitude of the radiations decreases exponentially in time, being characterized by a nearly constant scaling exponent. An ansatz for both the backward and forward radiations corresponding to a self-similar function characterized by the scaling exponent is suggested by the present numerical results.

Comments:	To be published in Journal of Computational Physics
Subjects:	**Mathematical Physics (math-ph)**
MSC classes:	35Q51, 35Q53
Journal reference:	Journal of Computational Physics 227 (2007) 440-454
DOI:	10.1016/j.jcp.2007.07.024
Cite as:	**arXiv:0708.0486 [math-ph]**
	(or **arXiv:0708.0486v1 [math-ph]** for this version)

Submission history

From: Francisco R Villatoro [view email]
[v1] Fri, 3 Aug 2007 10:25:30 GMT (270kb)

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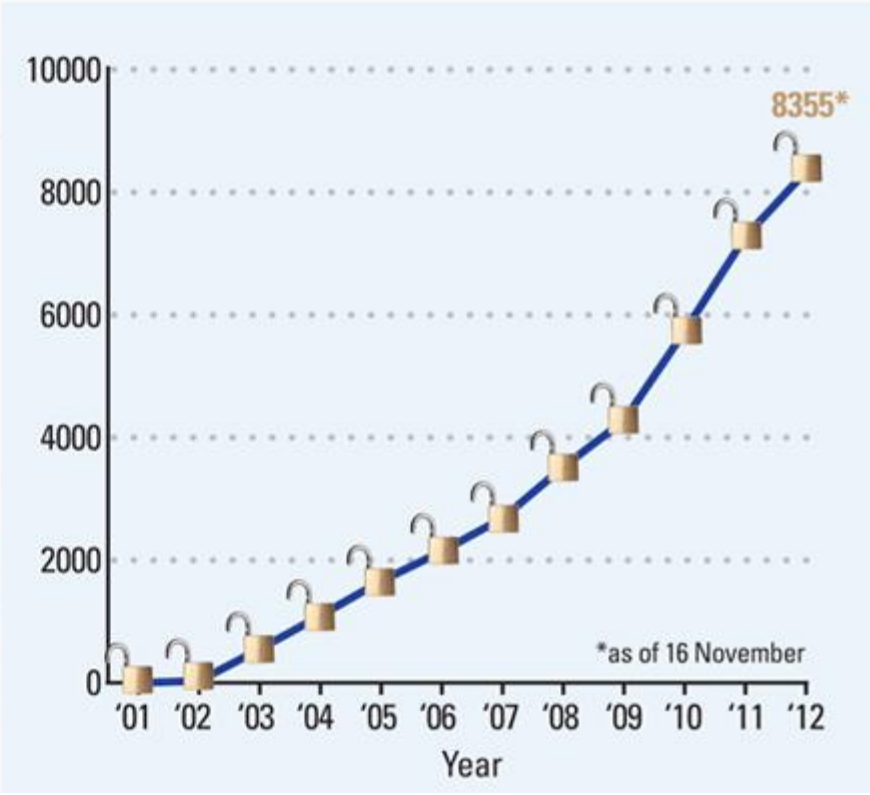

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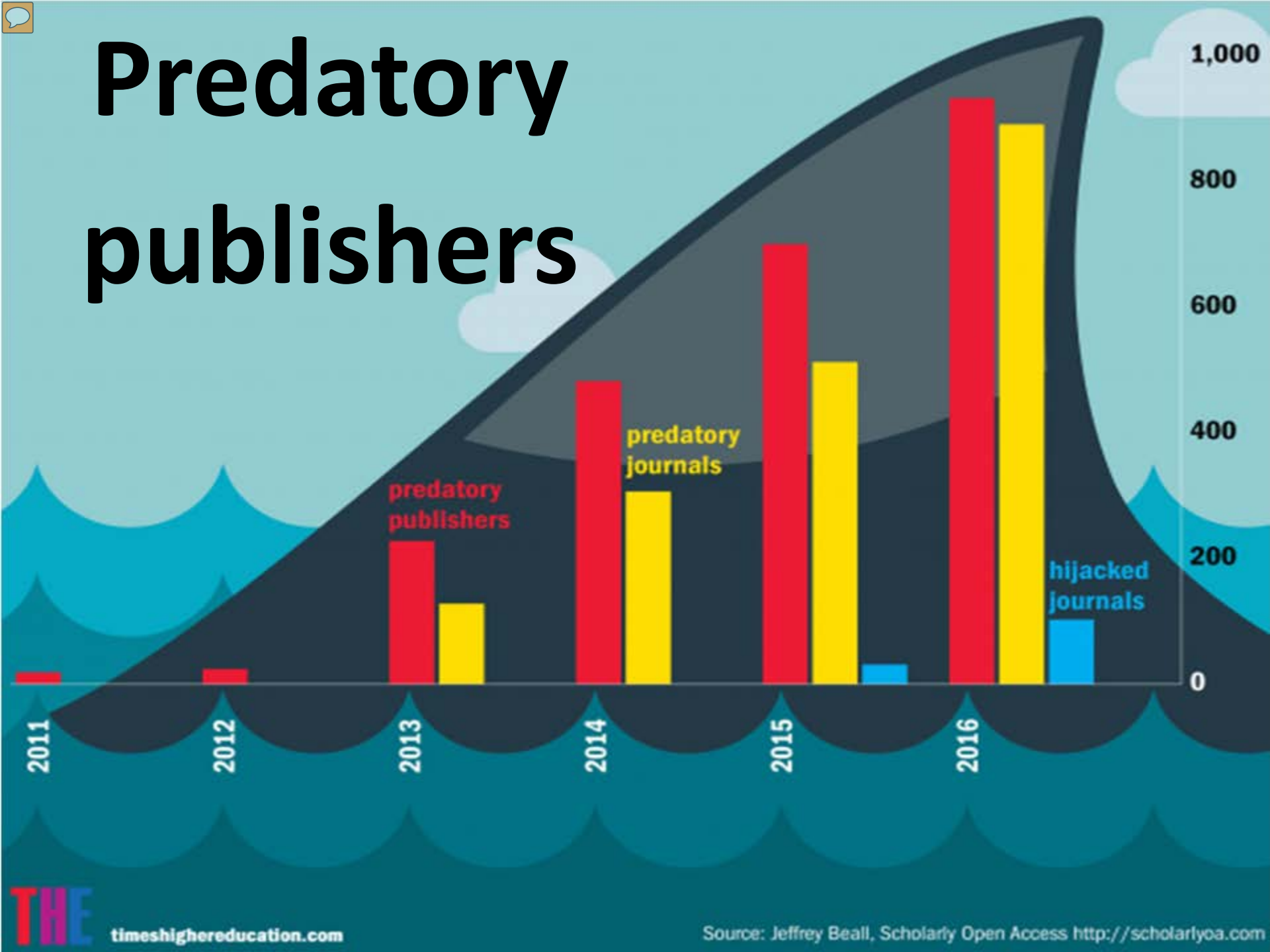

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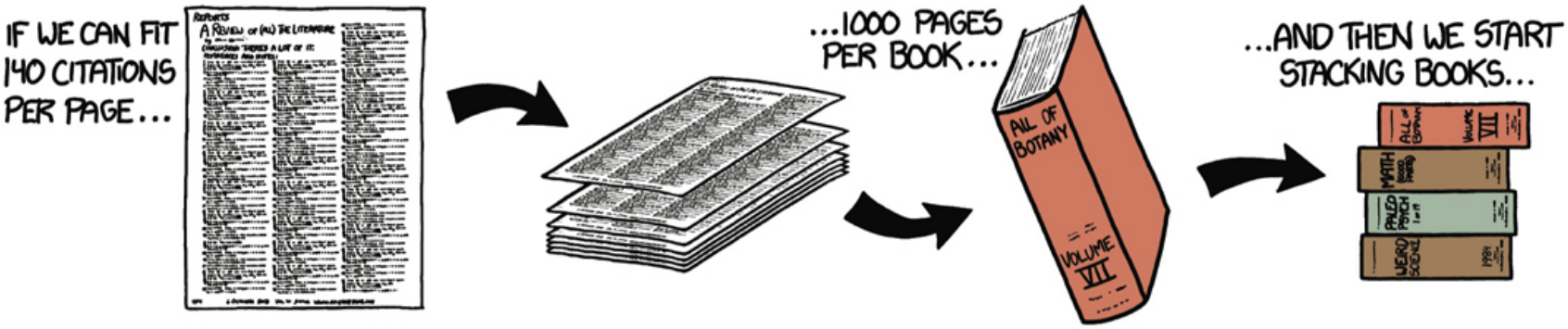

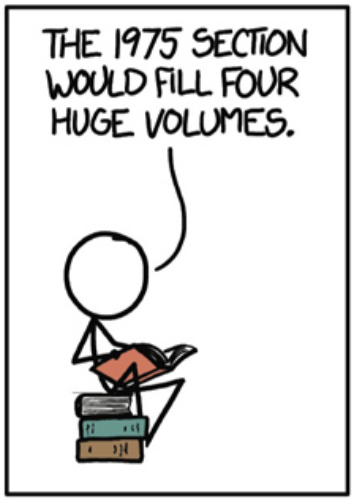

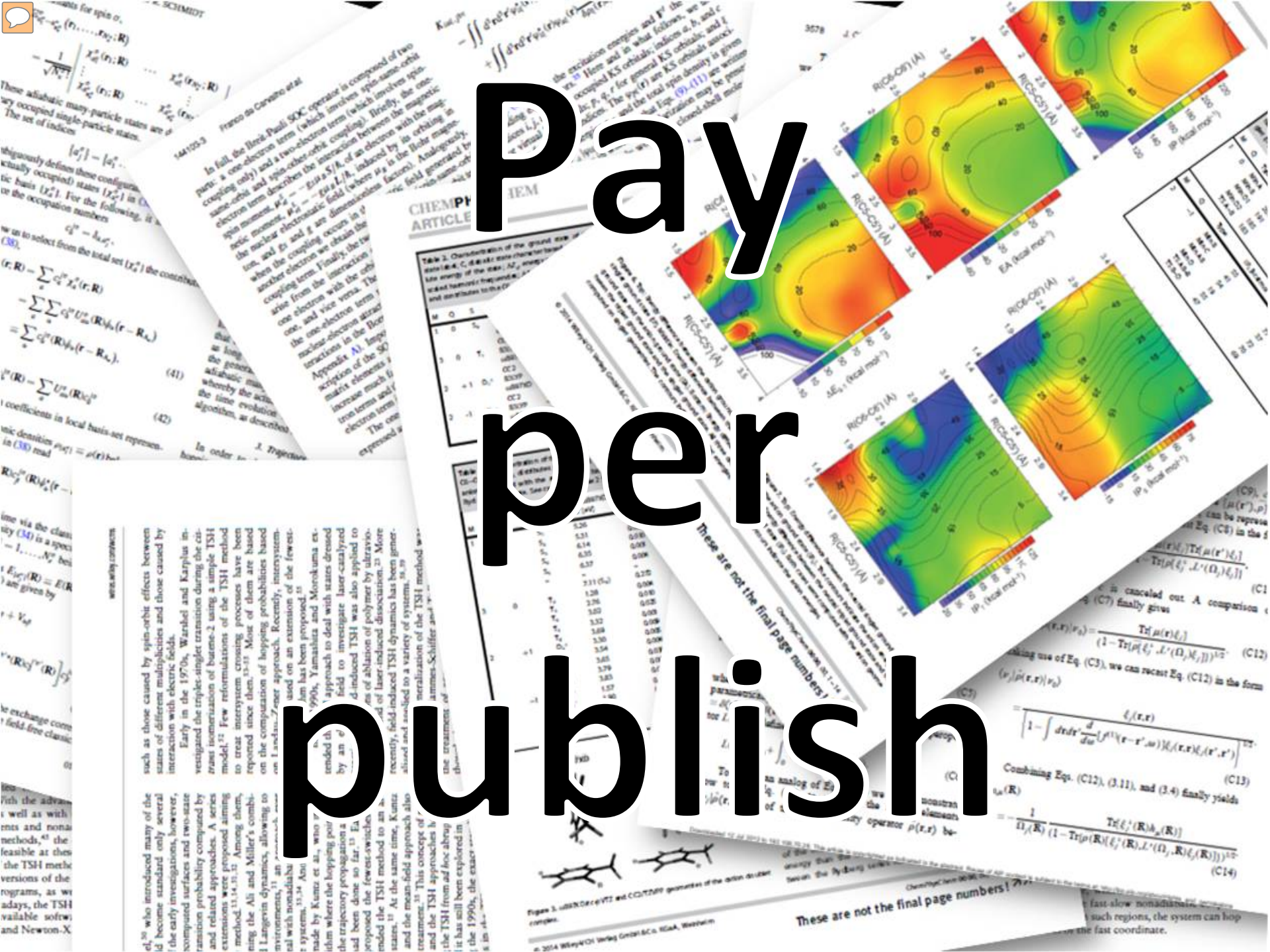
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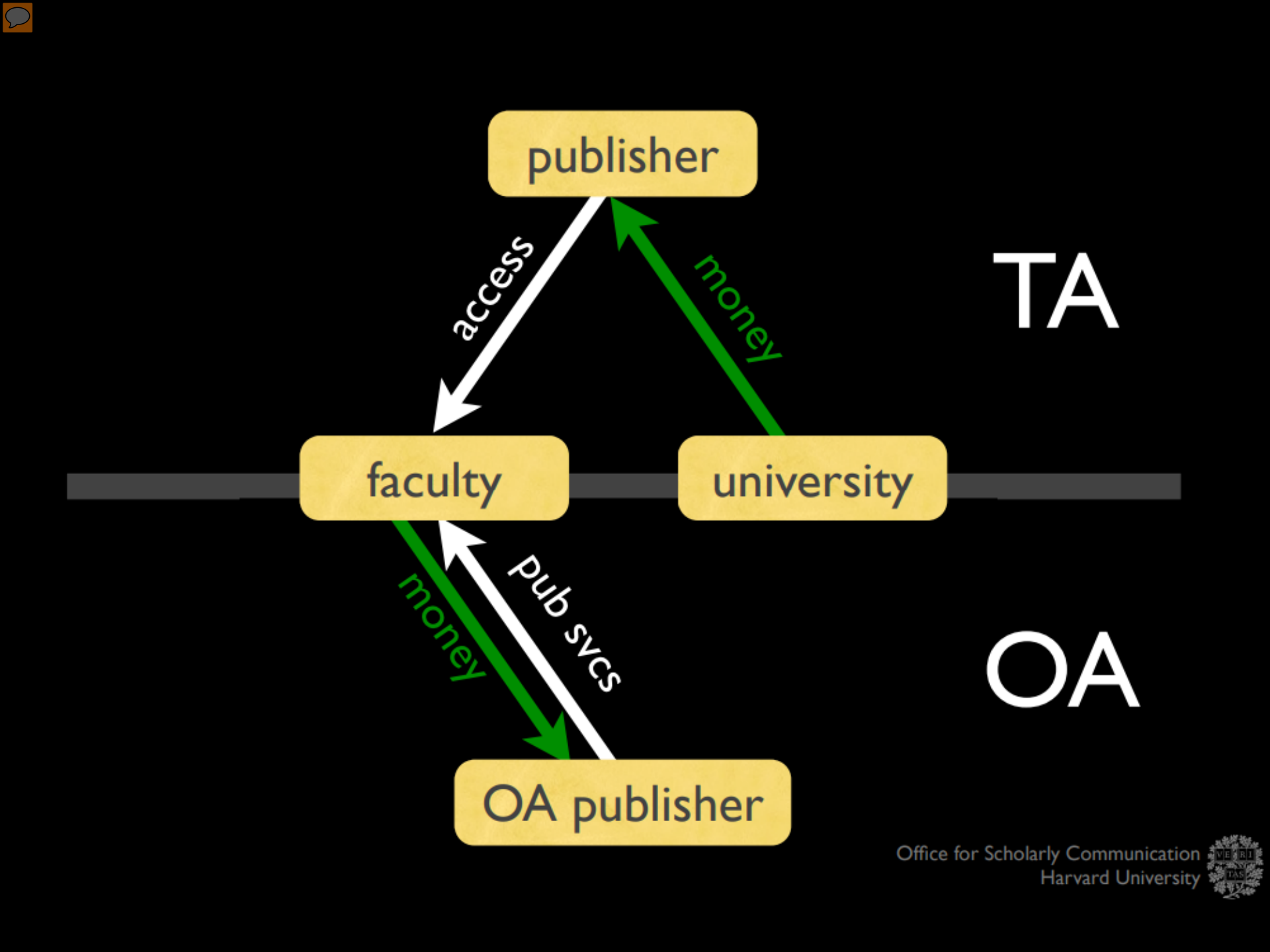

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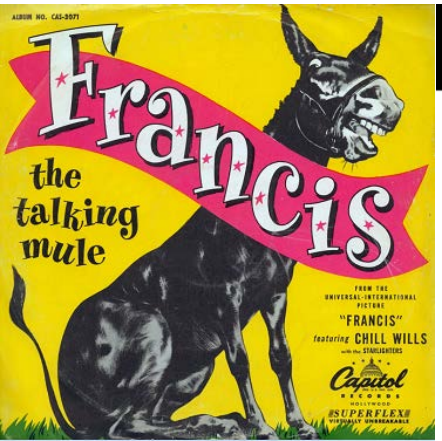

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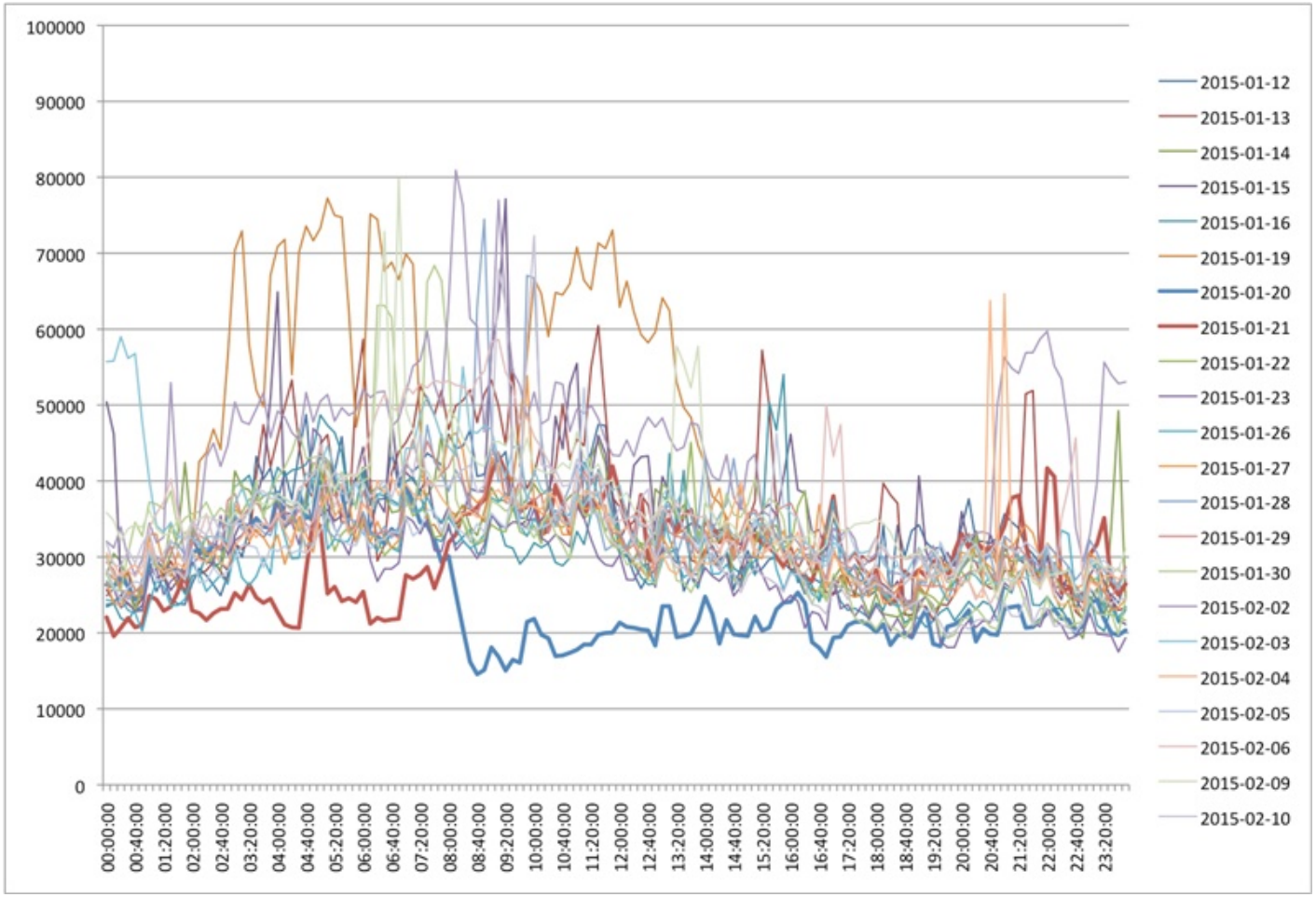

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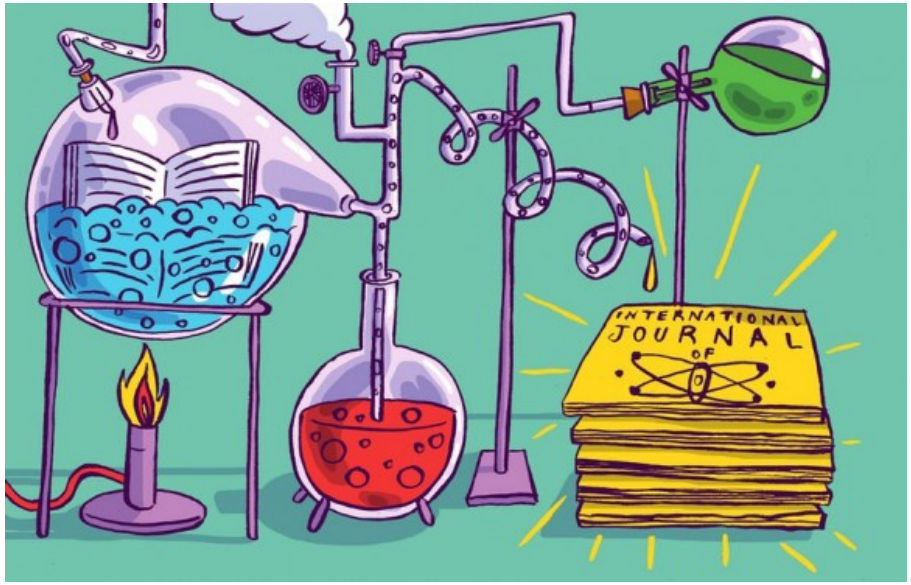

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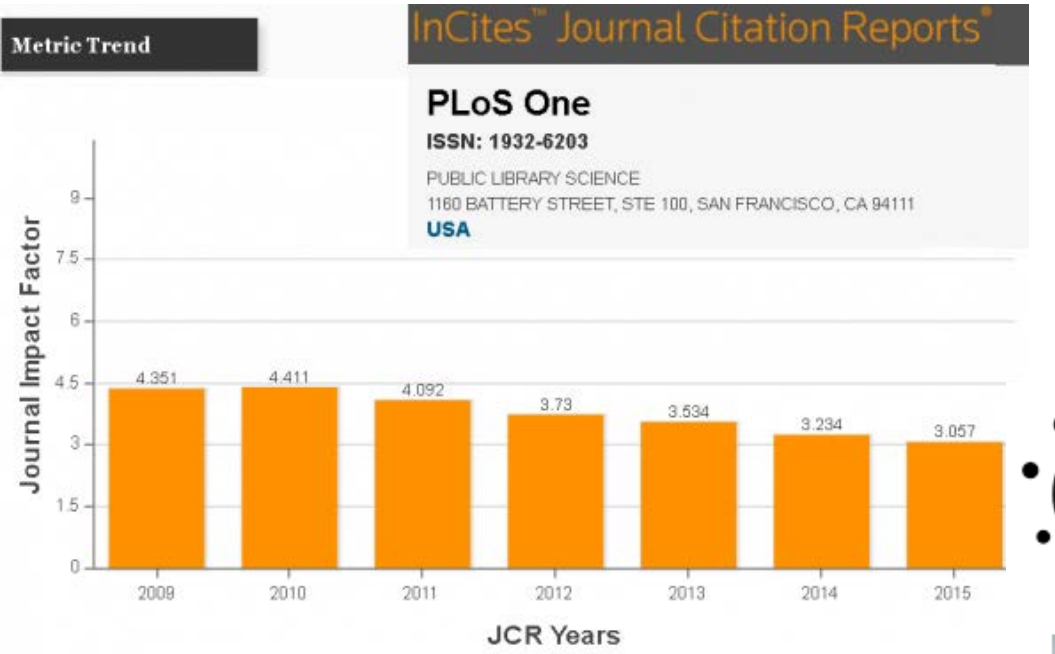

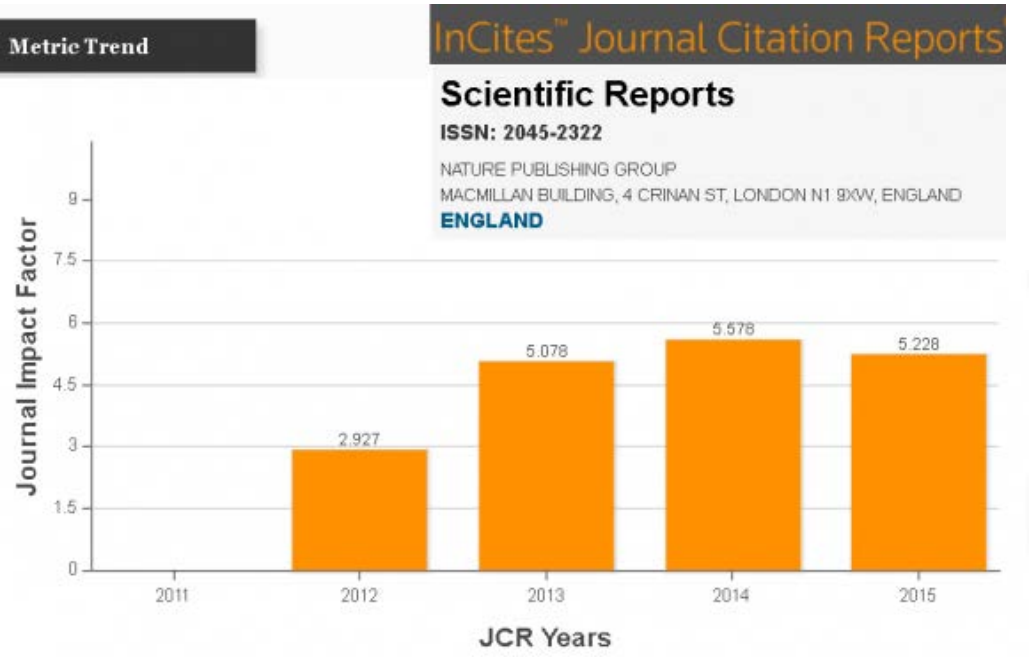

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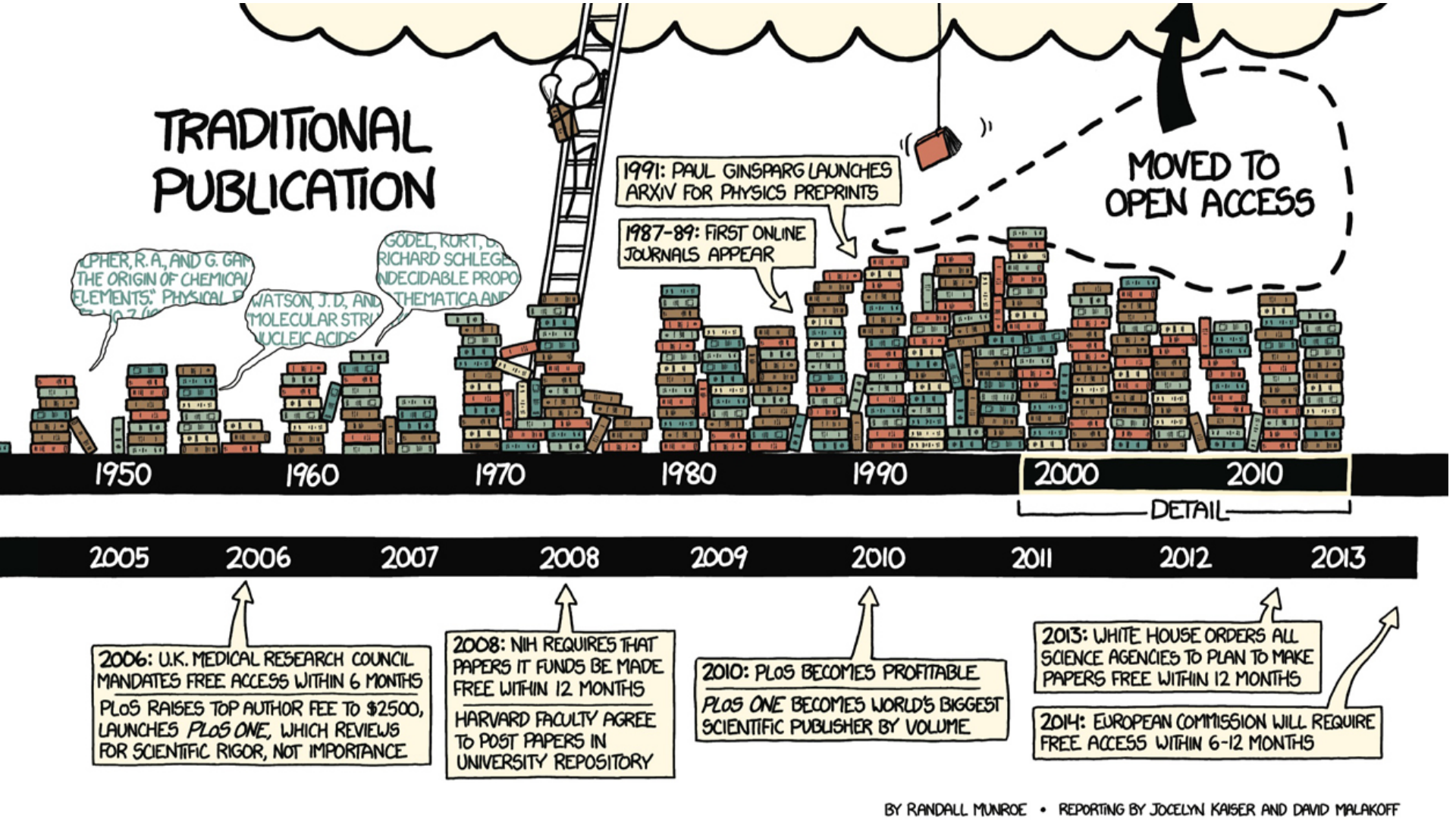
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