

Outline

Dispatchings

Last updated: 2025/12/02, 08:10:32 EST

Principles of Complex Systems,
Vols. 1, 2, 3D, 4 Fourever, V for Vendetta

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The problem with understanding things after years of struggle:

Science is hard:

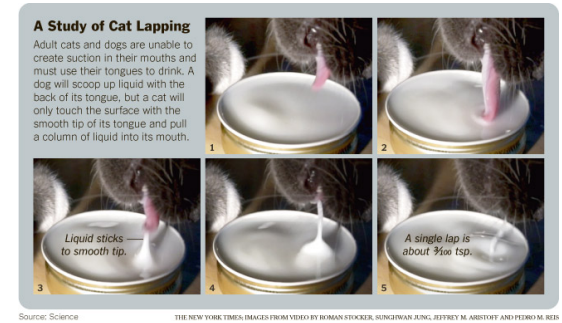
“The best lack all conviction, while the worst
Are full of passionate intensity.”
—The Second Coming, Yeats

There is always, always doubt

Claim: Thinking deeply is glorious

Callback: A whimsical-powerful example of real science

“How Cats Lap: Water Uptake by *Felis catus*” 
Reis et al., *Science*, 2010.



Source: Science

THE NEW YORK TIMES/IMAGES FROM VIDEO BY HUMAN STOCKER, SUNGTHAN JUNG, JEFFREY M. ARBITORY AND PIERRO M. BEDI

Amusing interview [here](#) 

The absolute basics of basic science:

Computational science in three back and forth steps:

1. Find meaningful+important+interesting phenomena, (optionally) involving spectacular amounts of data that you either put together or obtain from the back of a truck.
2. Describe what you see.
3. Explain it.

If you succeed at 1–3:

4. Create.
5. Share.

Always:

6. Be good people.

Have courage



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