

Dispatchings

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Principles of Complex Systems, Vols. 1, 2, & 3D
CSYS/MATH 6701, 6713, & a pretend number, 2024–2025

Prof. Peter Sheridan Dodds

Computational Story Lab | Vermont Complex Systems Center
Santa Fe Institute | University of Vermont



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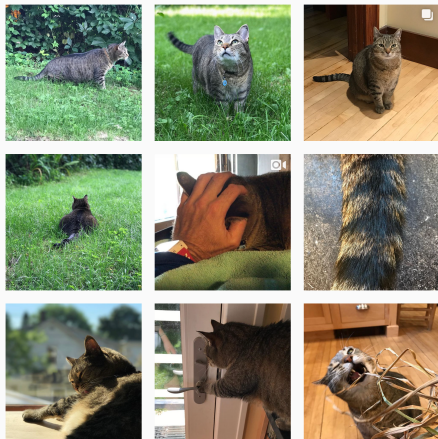
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 On Instagram at [pratchett_the_cat](https://www.instagram.com/pratchett_the_cat) 



Outline

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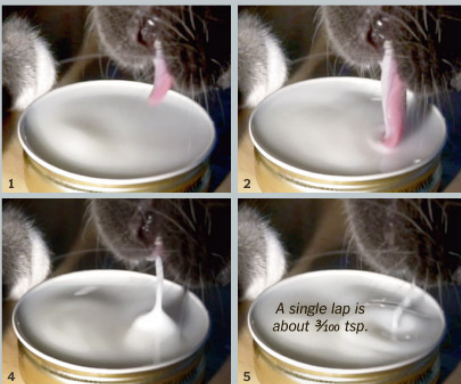
Callback: A whimsical-powerful example of real science

“How Cats Lap: Water Uptake by *Felis catus*” 

Reis et al., *Science*, 2010.


A Study of Cat Lapping

Adult cats and dogs are unable to create suction in their mouths and must use their tongues to drink. A dog will scoop up liquid with the back of its tongue, but a cat will only touch the surface with the smooth tip of its tongue and pull a column of liquid into its mouth.



Source: Science

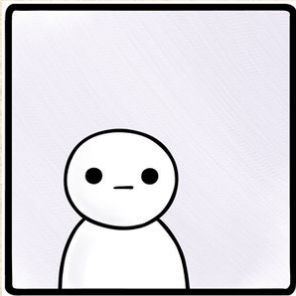
THE NEW YORK TIMES; IMAGES FROM VIDEO BY ROMAN STOCKER, SUNGHWAN JUNG, JEFFREY M. ARISTOFF AND PEDRO M. REIS

Amusing interview [here](#) 



Have courage

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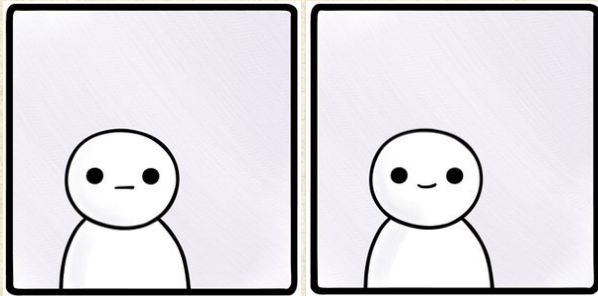
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Have courage

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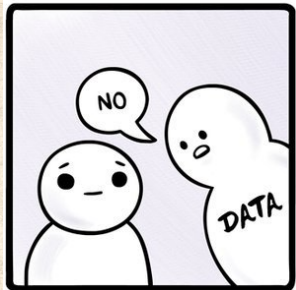
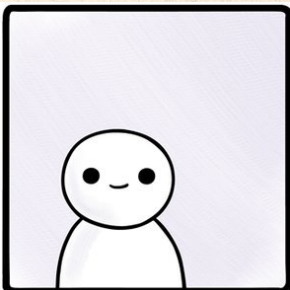
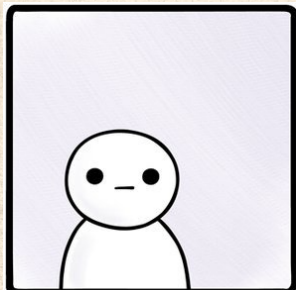
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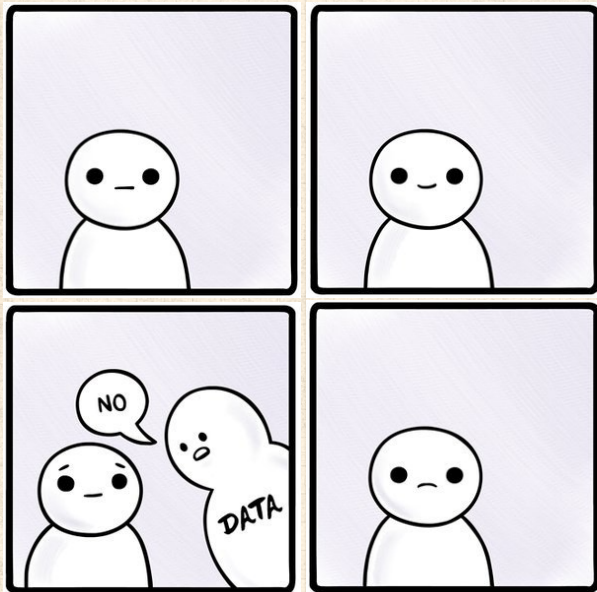
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The absolute basics of basic science:

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Computational science in three back and forth steps:



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.



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.



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If you succeed at 1–3:



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If you succeed at 1–3:

4. Create.



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If you succeed at 1–3:

4. Create.
5. Share.



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If you succeed at 1–3:

4. Create.
5. Share.

Always:



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.



Extreme joy and the power of forgetting:  



Human: Aleksander Gamme 

Location: Antarctica

