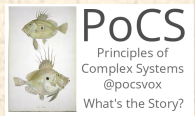
Dispatchings

Last updated: 2025/04/28, 12:54:42 EDT

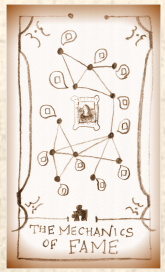
Principles of Complex Systems, Vols. 1, 2, & 3D
CSYS/MATH 6701, 6713, & a pretend number, 2024–2025

Prof. Peter Sheridan Dodds

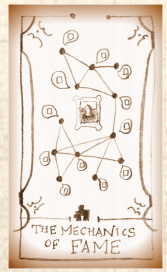
Computational Story Lab | Vermont Complex Systems Center
Santa Fe Institute | University of Vermont



Licensed under the Creative Commons Attribution 4.0 International



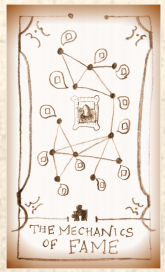
These slides are brought to you by:



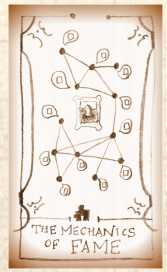
These slides are also brought to you by:

Special Guest Executive Producer

On Instagram at pratchett_the_cat



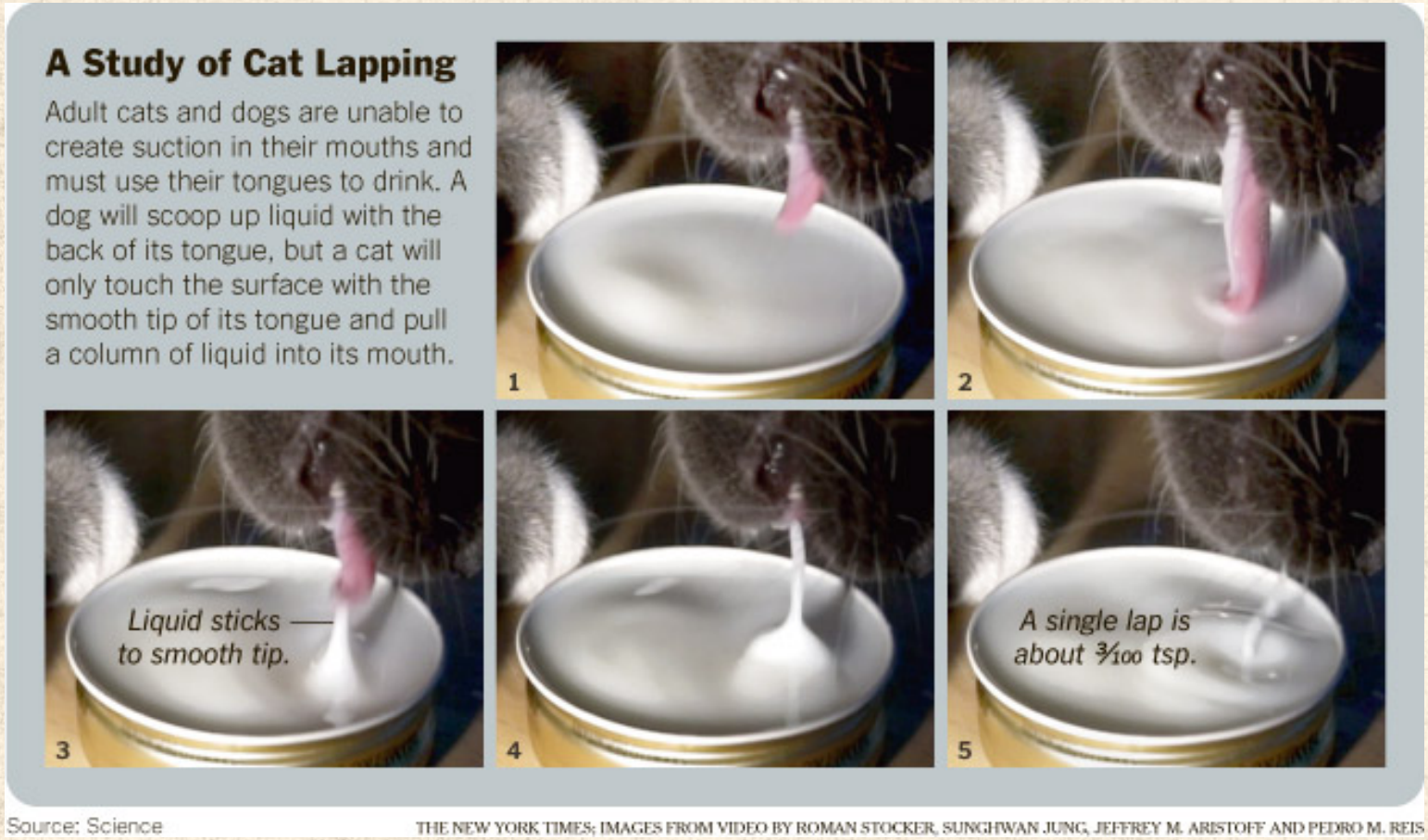
Outline



Callback: A whimsical-powerful example of real science

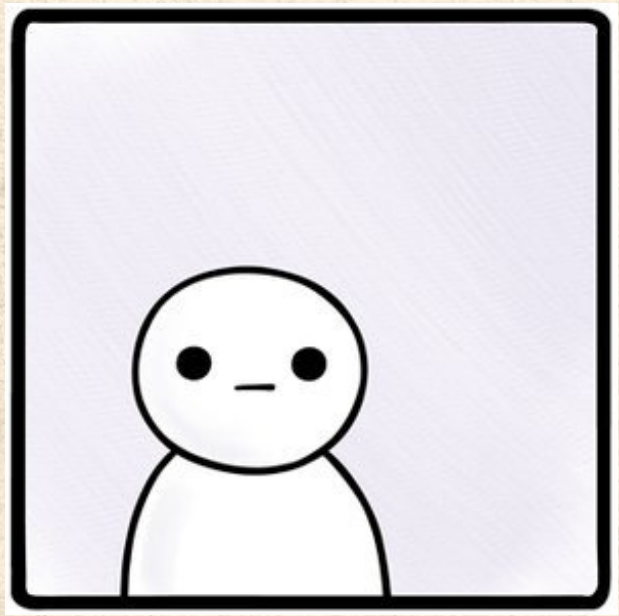
"How Cats Lap: Water Uptake by *Felis catus*"

Reis et al., *Science*, 2010.

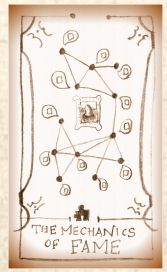


Amusing interview here

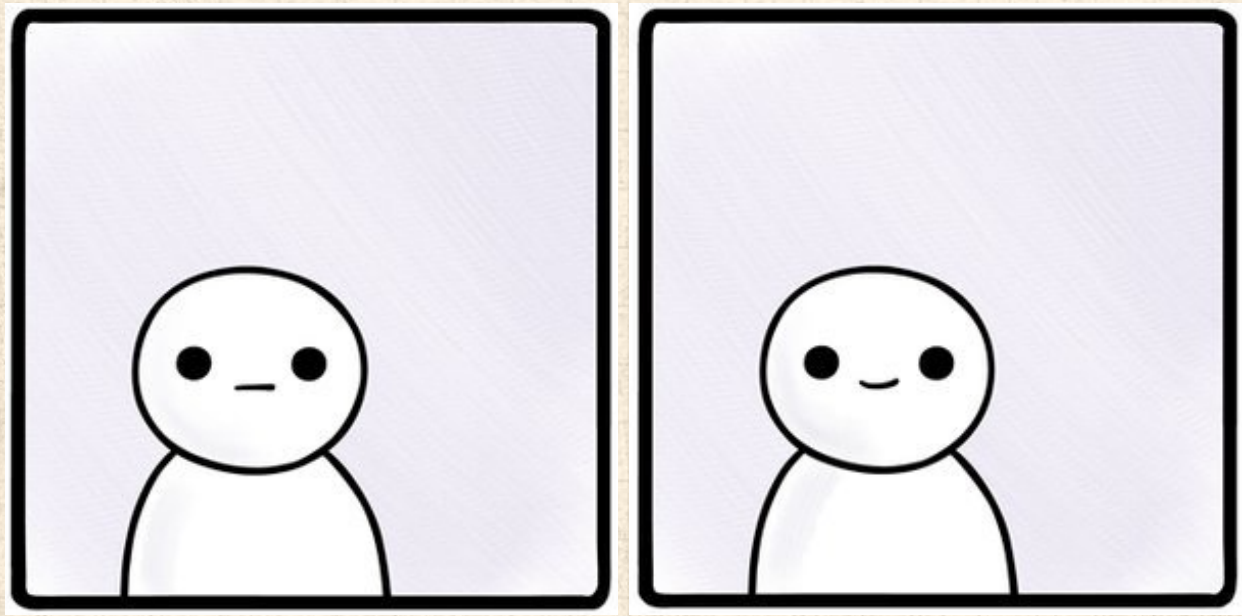
Have courage

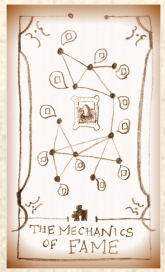


THIS COMIC MADE POSSIBLE THANKS TO ADAM LINGELBACH MRLOVENSTEIN.COM

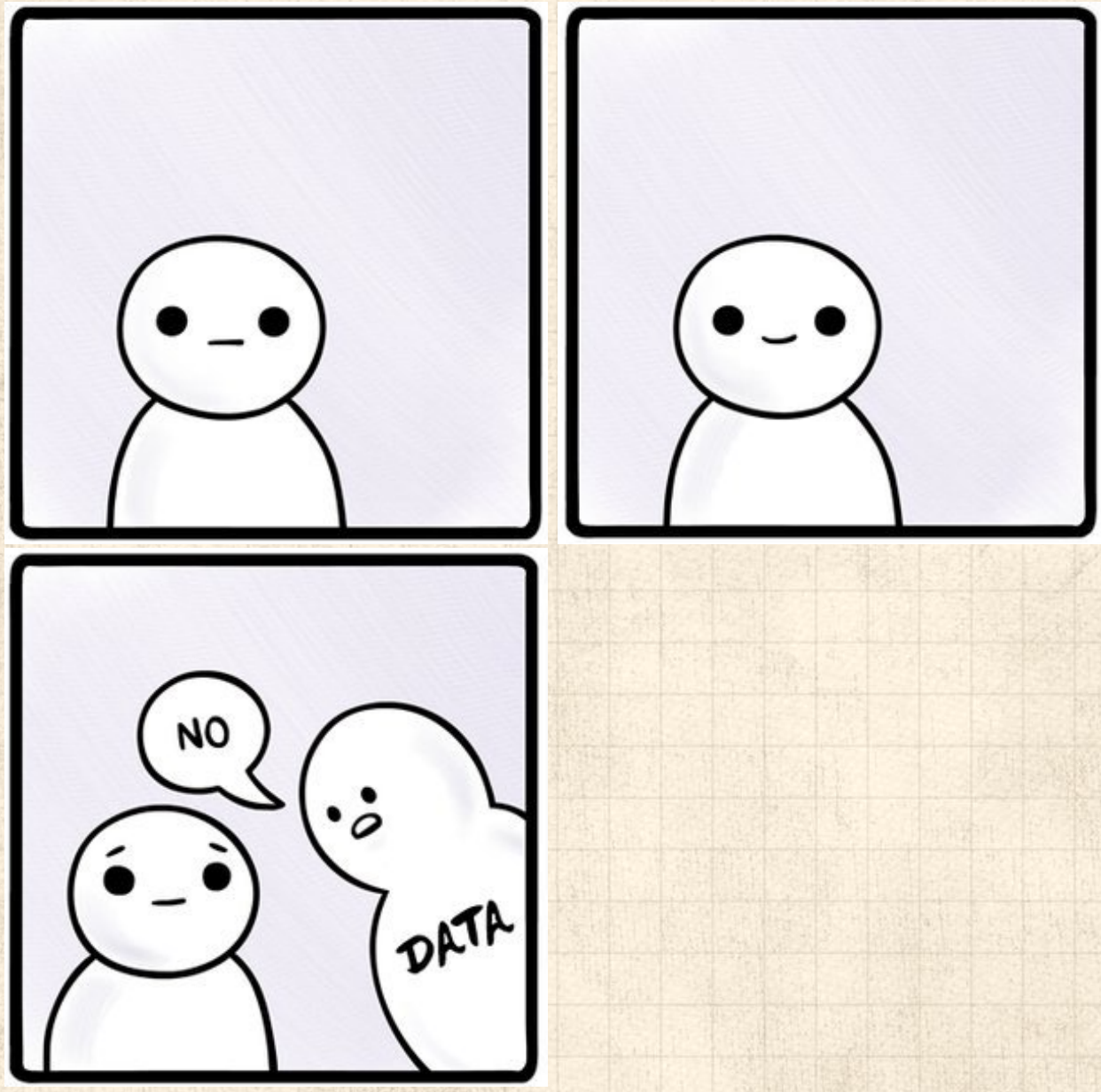


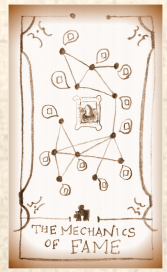
Have courage



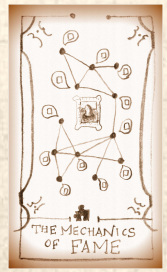


Have courage



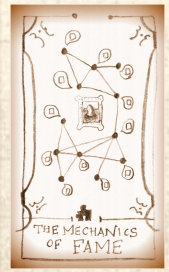


Have courage



The absolute basics of basic science:

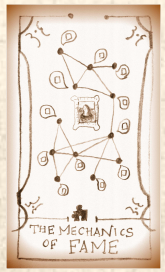
Computational science in three back and forth steps:



The absolute basics of basic science:

Computational science in three back and forth steps:

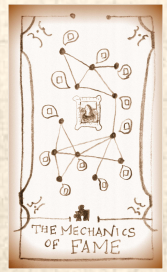
1. Find meaningful+important+interesting phenomena, (optionally) involving spectacular amounts of data that you either put together or obtain from the back of a truck.



The absolute basics of basic science:

Computational science in three back and forth steps:

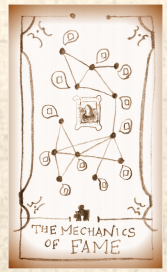
1. Find meaningful+important+interesting phenomena, (optionally) involving spectacular amounts of data that you either put together or obtain from the back of a truck.
2. Describe what you see.



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.

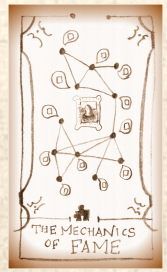


The absolute basics of basic science:

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:



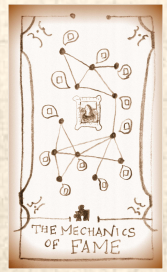
The absolute basics of basic science:

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.



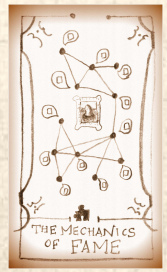
The absolute basics of basic science:

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.



The absolute basics of basic science:

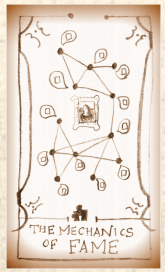
Computational science in three back and forth steps:

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:



The absolute basics of basic science:

Computational science in three back and forth steps:

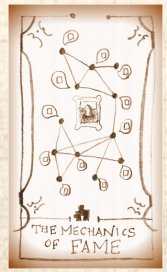
1. Find meaningful+important+interesting phenomena, (optionally) involving spectacular amounts of data that you either put together or obtain from the back of a truck.
2. Describe what you see.
3. Explain it.

If you succeed at 1–3:

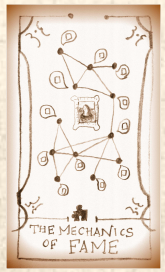
4. Create.
5. Share.

Always:

6. Be good people.



Extreme joy and the power of forgetting:

Human: Aleksander Gamme

Location: Antarctica