

The Cornell Lab of Ornithology



The Cornell Lab of Ornithology is a nonprofit membership institution whose mission is to interpret and conserve the earth's biological diversity through research, education, and **citizen science** focused on birds.

The **Cornell** Lab of Ornithology



Supporting excellence in citizen science
around the world.

www.citizenscience.org



CLIMATE CHANGE
IT'S IN YOUR BACK YARD



CLIMATE CHANGE
IT'S IN YOUR BACK YARD

Citizen Science Goals



- *Increase scientific knowledge*

Gather meaningful data to answer large-scale research questions

- *Increase scientific literacy*

Enable participants to experience the process of scientific investigation and develop problem-solving skills

- *Increase conservation action*

Apply results to science-based conservation efforts

INPUTS

ACTIVITIES

OUTPUTS

OUTCOMES

IMPACT



“Steps” in scientific process:

Scientist/
Technician

Public
Participants

Define a question/issue



Gather information



Develop explanations



Design data collection methods



Collect samples



Analyze samples



Analyze data



Interpret data/conclude



Disseminate conclusions



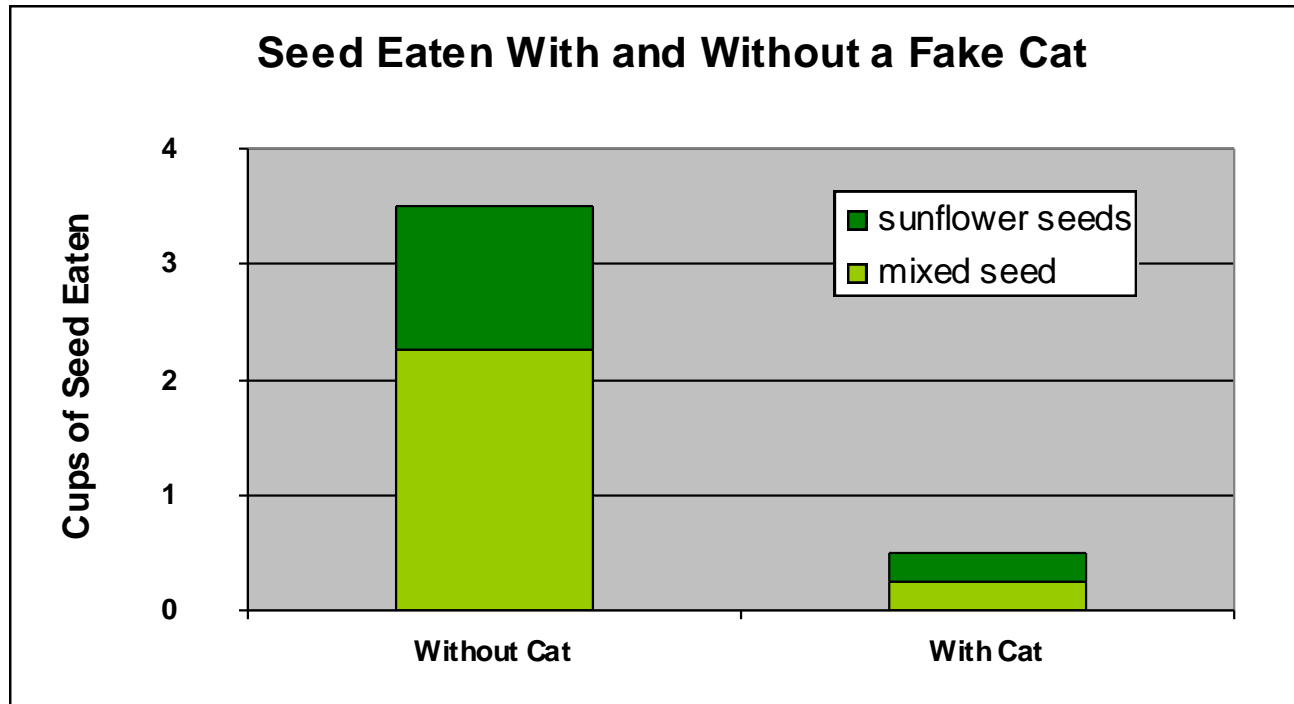
Discuss results/inquire further





Will a Fake Cat Scare Away Birds?

An experiment by Amy



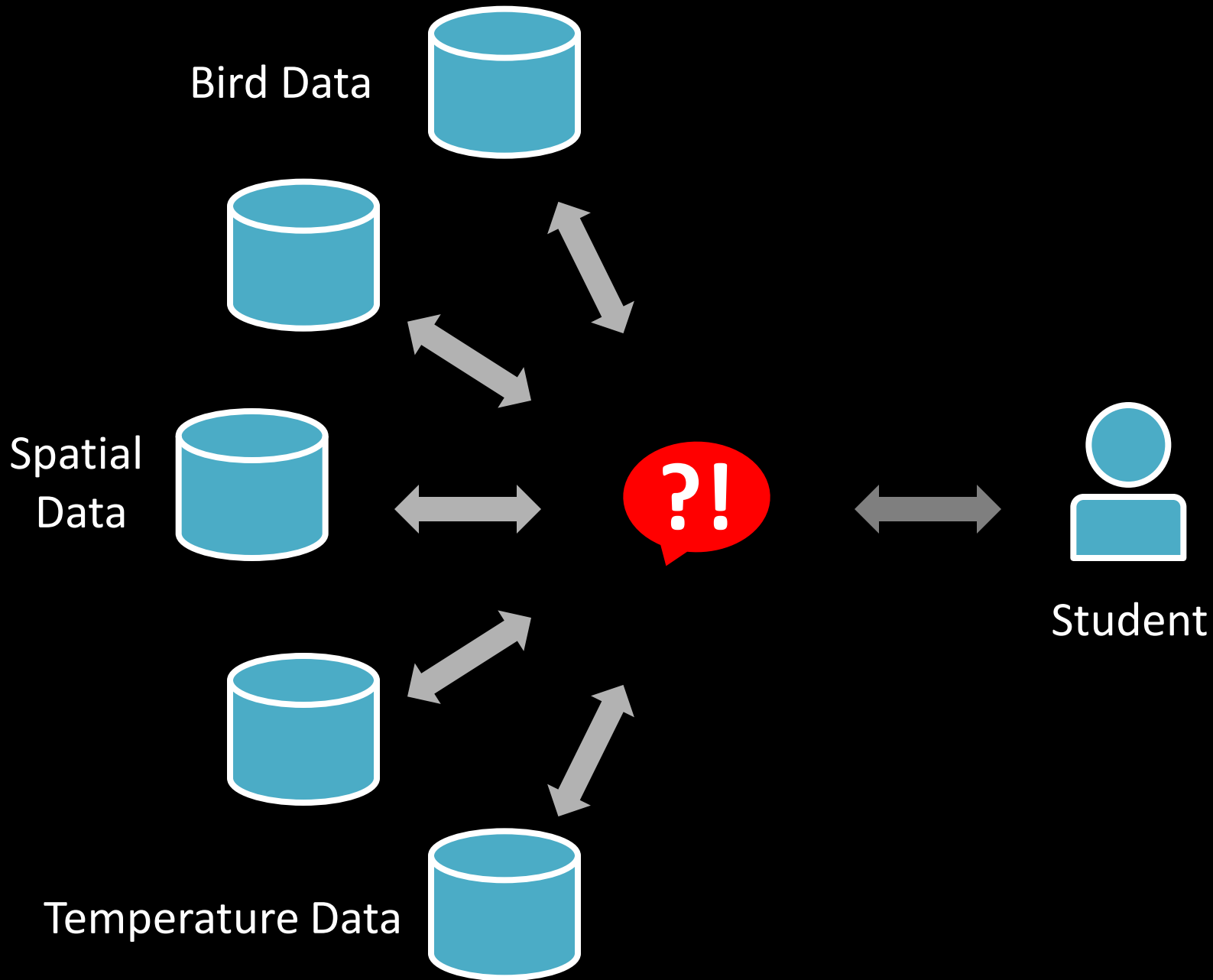


eBird

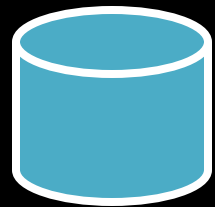


- Observe any bird, anywhere, any time!
- Record your observations
- Send your data to the eBird website
<ebird.org>





Solution: Science Pipes



Data



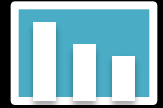
SCIENCE  PIPES



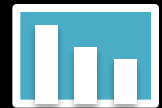
User



User



User



1. Access large-scale data sets
2. Create analyses and visualizations
3. Share results
4. Facilitate learning and collaboration

When can I see hummingbirds in DC?

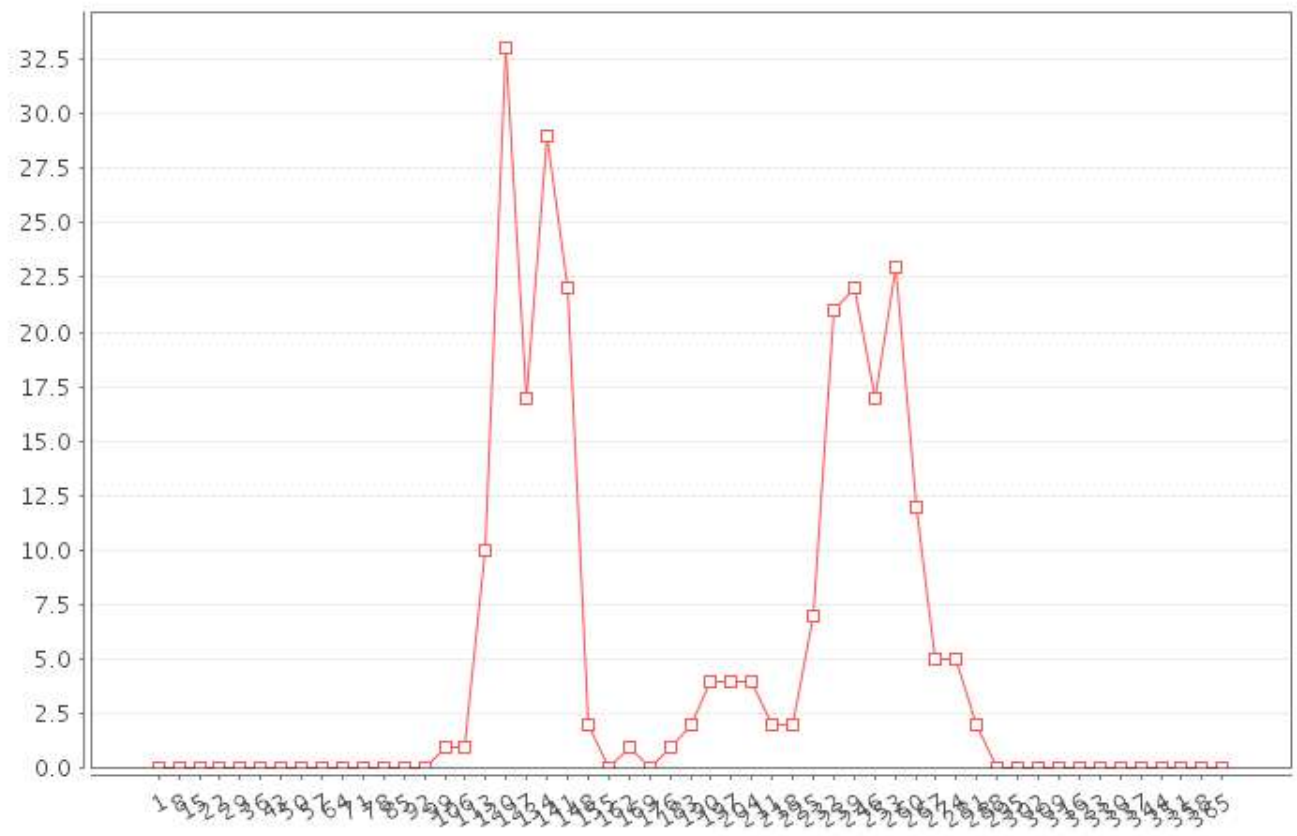
Edit Name

[Overview](#)
[Run](#)
[Results](#)
[Edit](#)
[Settings](#)
[Copy](#)
[Delete](#)

Results > Nov 2, 2010 8:26 AM (4 seconds and 407 milliseconds) > View Settings

[LINE CHART](#)
[FIT FRAME](#)
[ACTUAL SIZE](#)
[NEW WINDOW](#)
[HIDE](#)

Ruby-throated Hummingbird (*Archilochus colubris*) District of Columbia



Owner: Will Morris
 Nov 2, 2010 8:25 AM

[Add description](#)

Average: ★★★★★
No ratings yet

You: ★★★★★
Click stars to rate.

[Make this a favorite](#)

[Make this a feature](#)

YOUR TAGS

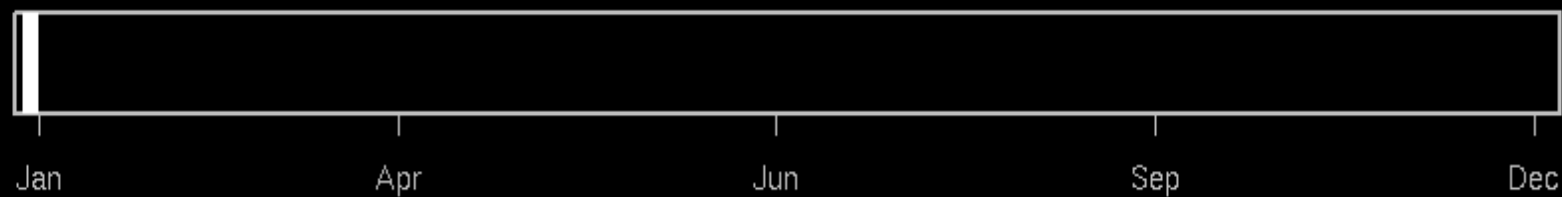
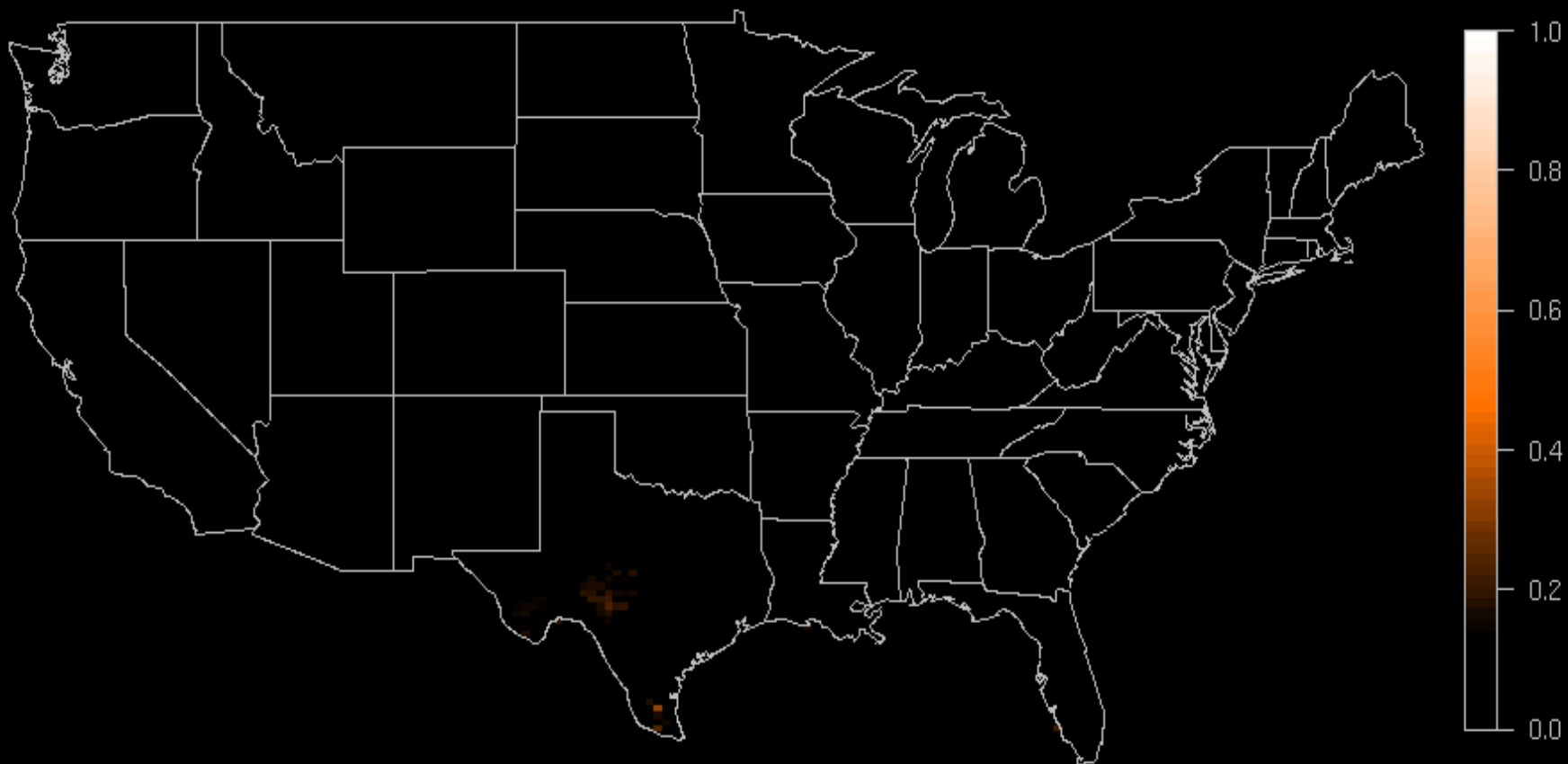
[Add tags](#)

[Pipe Properties](#)

DEBUG TOOLS

[Purge jobs](#)
[Restricted? No \(restrict now\)](#)

[Execution engine status](#)
[Reset content cache](#)



SCIENCE PIPES

Information Sciences
Cornell Lab of Ornithology



