



5 cm

Developing citizen science programs

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*Berkeley Natural
History Museums*

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³Essig Museum of Entomology

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Goals

- **What do you want to do (science goals)?**
 - Use photos taking as part of a collections rehousing grant.
 - Basic counts and identifications of uncataloged material.
- **What do you want to do (outreach)?**
 - Allow public to virtually visit research museum
 - Provide real science/real data for teachers to use in the classroom.

Portal Development

- Use existing or develop your own?



- Think about the cost, timing, local expertise and project complexity.



Notes from Nature

Essig Museum Collections

Calbug

START TRANSCRIBING

Calbug is an effort to digitize terrestrial arthropod-specimen records with a focus on California. The project, funded by the National Science Foundation, represents a collaboration among eight entomological collections in California to capture data from specimen labels. The Calbug Science Team will then use the collection data to assess how arthropods have responded to climate change and habitat modification. Drawing

TEMPORAL RANGE

1880 / Present

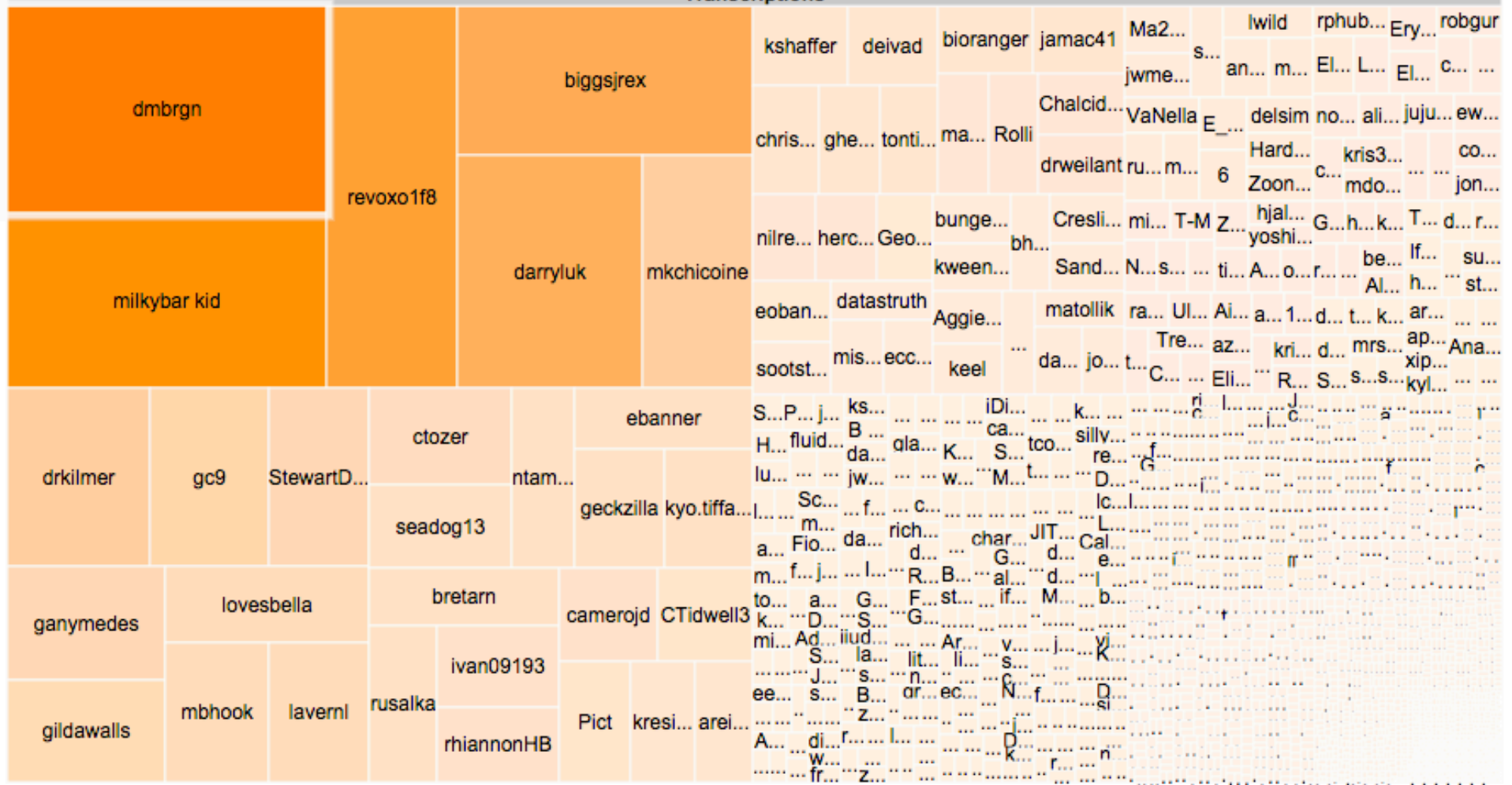
GEOGRAPHIC CONTEXT

California and surrounding region

TAXONOMIC COVERAGE

Insects | Spiders

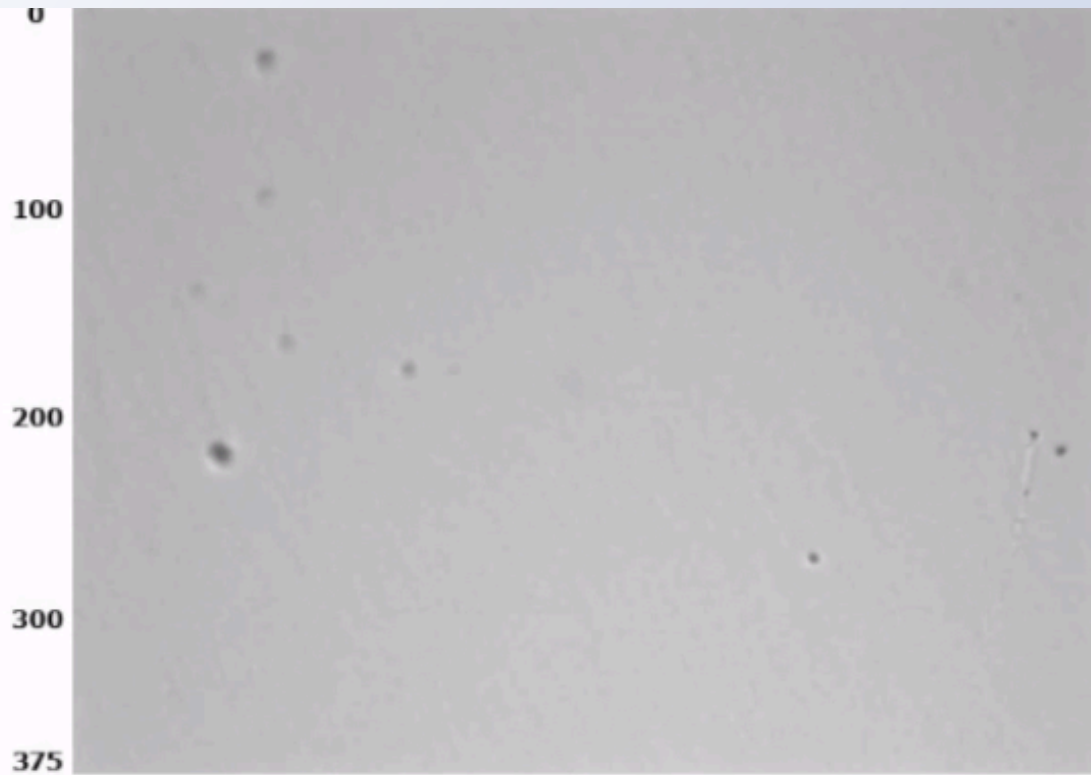
Transcriptions



Courtesy of Joyce Gross

Stardust@home

- One of the earliest citizen science projects.
- Functional (grad student developed)
- Didn't anticipate staff time required to respond to questions and comments from the public.
- Scoring: motivator but also problematic
- Only need a small core group of volunteers
- Successful: Science paper in August 2014



Current movie

Movie id: Type: real

VM code: 1753822V1

University of California Museum of Paleontology (UCMP)

- No money for development.
- No staff with appropriate expertise/time.
- Educational module must be developed before June 2015.
- Start small, in-house and low-tech.
Expand upon existing CalPhotos site.
- Proof of concept; continue to expand as funding permits.



The fossil finder

About the Fossil Finder

About this collection

About the UCMP

Frequently asked questions



Bivalve + - 0

Gastropod + - 14

Ammonite + - 0

Belemnite + - 0

Sand dollar + - 0

Star fish + - 0

Sea urchin + - 0

Done identifying > next photo

I cannot identify anything in the photo > next photo

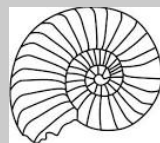
FOR MORE INFORMATION ABOUT THE FOSSILS CLICK ON THE IMAGES BELOW



Bivalve



Gastropod



Ammonite



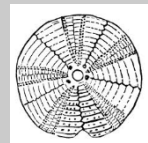
Belemnite



Sand dollar



Star fish



Sea urchin

Resources

- Ask your colleagues/other museums
- <https://www.zooniverse.org/>
- <http://scistarter.com/>
- <http://citizenscienceassociation.org/>
- [http://www.birds.cornell.edu/
citscitoolkit](http://www.birds.cornell.edu/citscitoolkit)