Australian Museum

The Art of Science: matching ALA data and heritage artworks in a mobile app

Anna Namuren: Archives and Records

nature culture discover

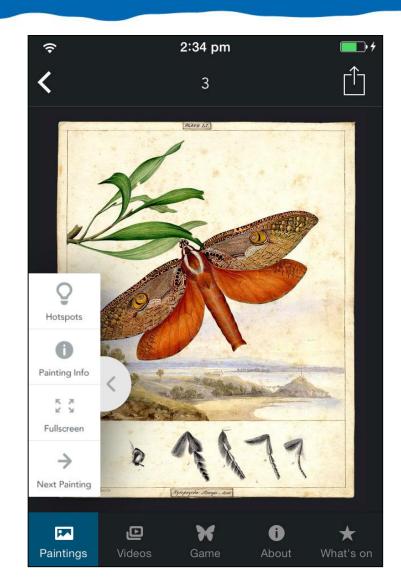




The Art of Science app

- A showcase of detailed paintings by prominent natural history illustrators, sisters Harriet and Helena Scott.
- From the 1850s they documented the life histories and immature stages of Australian moths and butterflies.

Video of the app features





Background

Apps4nsw competition



- \$15,000 funding for an app (3 month deadline)
- Developed by



 We had worked with Biodiversity Volunteer Portal and knew of extensive specimen data on ALA site

Aim: merge a historical collection with contemporary science to demonstrate its ongoing value as an archive of science for new audiences



Big content, big data

Challenge: to structure and standardise a large volume of information from the 1800s to the present day so that it's meaningful for the audience and appropriate for the medium

O1 / Paintings



1.0 Painting Card View

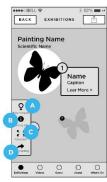
After tapping on 'Start Exploring' from '0.0-Introduction', you will land on this screen. This screen will display a carousel of three featured paintings from the Scott Sisters collection, followed by the remaining paintings in 'card' format.

By tapping on A, you will move on to screen 1.1'. Tapping on any of the other cards, will bring you to screen 1.2'. 'Painting name' will be the relevant 'common name' of each painting.



1.1 Scientific List View

This screen displays an 'easy to browse' list of all the paintings. By pressing on individual rows, you will move on to screen '1.2'.



1.2 Painting Details

This is a screen where you can zoom & navigate the painting. By tapping on a butterfly/item hotspot, it will be highlighted by introducing a grey overlay on the surrounding area.

By tapping on A from the retractable left hand tool box, interaction hot-spots will show up on the painting prompting user to tap for more info. By tapping on B, a pop-up (1.2.1) will appear.

By tapping on the 'Learn More' button on a butterfly/(tem, another pop-up (1.2.2) will appear. By tapping on C, top and bottom menu bars will disappear. Tapping on D will take the user to the next painting.



1.2.1 Painting Info

This pop-up will display more information on the painting (in text format). Related images of this painting will be displayed in thumbnail format. Tapping on the thumbnails will enlarge the image to a full screen view.



1.2.2 ALA Info on Species

This pop-up will display more information or any specific species within the painting. This data is fed from the ALA website.





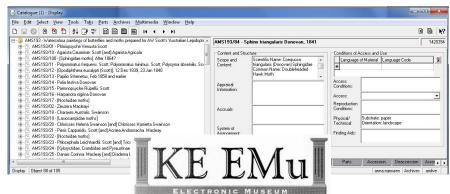
Big content, big data

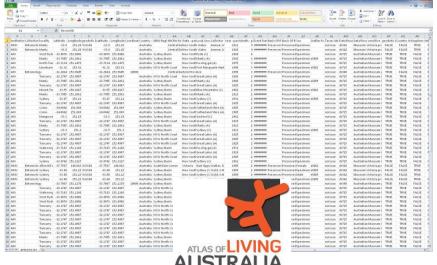
Sources of information:

KE EMu D/B: Common name, old scientific name, images, exhibition captions, biographies, other narratives. Exported to CSV and JPEG

ALA datasets: Common name, new scientific name, geospatial, sightings over time data. Exported to CSV

Other: Content from MS Word/Excel, PDFs, video files. Imported into CMS







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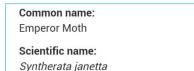
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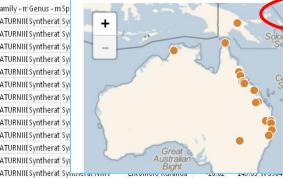
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Visualising data



Sightings in Australia



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Australia Wet Tropics

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Queenslar Tableland Dodd, F. P.

Northern Darwin (C'Hill, G. F.

Queenslar Tableland Dodd, F. P.

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-16.92	145.77	Australia	Wet Tropics	Queensla(Cairns (R) Olive, J	1987	10 27/	1950s					
-16.92	145.77	Australia	Wet Tropics	Queensla(Cairns (R) Olive, J	1987	10-25/	1960s					
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-16.88	145.7	Australia	Wet Tropics	Queenslar Cairns (R) Hunter, B.	1939	1	1980s					
-16.82	145.63	Australia	Wet Tropics	Queenslar Tableland Stirling,	1970	1 12/	1990s					
-16.82	145.63	Australia	Wet Tropics	Queenslar Tableland Stirling	1970	1 28/	2000s					
-27.33	152.77	Australia	South Eastern Quee	r Queenslar Moreton E Hiller,	1979	1 20/	010s					
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-16.82	145.63	Australia	Wet Tropics	Queenslar Tableland Dodd, F. P	1912			Preserved Preserved N	Лale		nolssue	
-27.47	153.02	Australia	South Eastern Quee	(Queensland				Preserved Preserved F	emale		nolssue	
-27.47	153.02	Australia	South Eastern Quee	Queensland				Preserved Preserved F	emale		nolssue	

Preserved Preserved Female

Preserved Preserved Male

Preserved Preserved Female

Preserved Preserved Female

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Final thoughts

- The experience of using ALA data: it's all there if you know what you're looking for. Should content/data for historical collections be made available in the same way?
- Merging heritage content and science data: will need to be re-structured for different audiences and platforms. Where do we archive the remixed version?
- The future: let's collaborate to merge contemporary science with our historical collections to demonstrate their ongoing value as an archive of science

Thank you

(PS: You've seen the virtual collection, catch the real thing from June 23, 2014: the Scott sisters exhibition at the Australian Museum)

www.australianmuseum.net.au

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