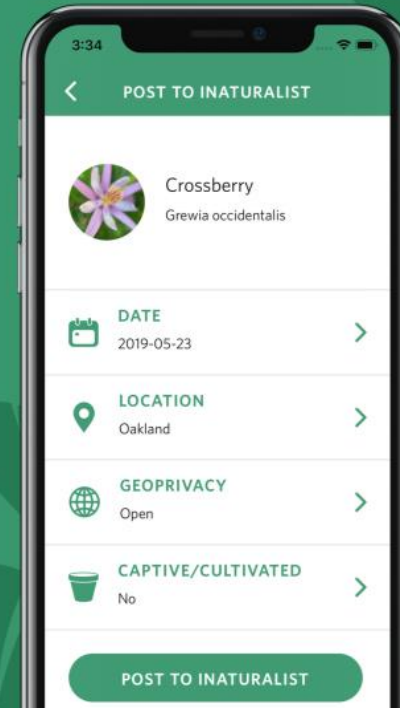
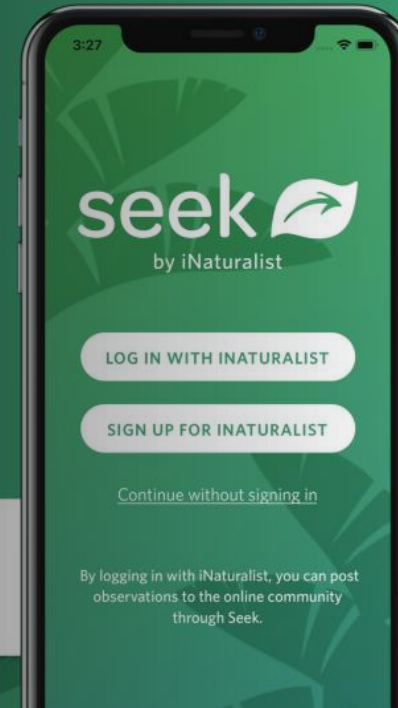


Workshop on pedagogical implications of using the augmented Reality app Seek by iNaturalist in teacher education

seek 
by iNaturalist

Get outside, explore, and learn
about the nature all around you!

iNaturalist is a joint initiative of the
California Academy of Sciences and
the University of California, Berkeley



Alexina Thorén Williams, University of Gothenburg

Anne-Marie Cederqvist, Högskolan Halmstad





Study and context

- Teachers' experiences using the AR app, Seek during an outdoor pedagogy class, learning about species
- Teacher program, towards teaching in primary school (ages of 6-9 years)
- Semi-structured interviews were conducted with three student teachers.





Background

Plant blindness

- Human inability to see or notice plants in one's everyday life is a phenomenon known as plant blindness. It also refers to failing to recognize the role of plants on earth and believing that plants are somehow inferior to animals (Wandersee and Schussler, 1999, 2001)



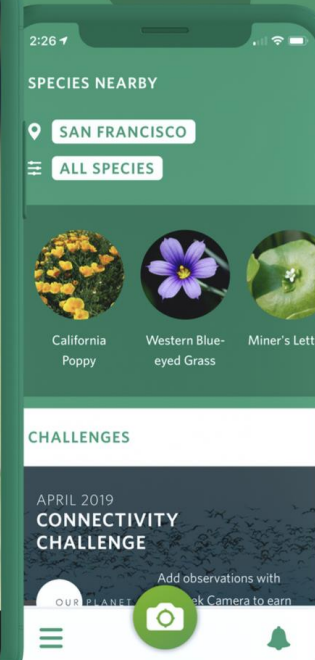
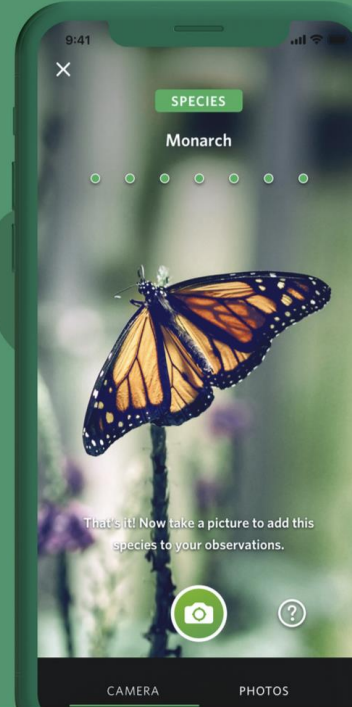
The role of plants

- To handle plant blindness, there is a need for better learning opportunities that help students direct their attention to plants.
- The ability to identify plants and increase their awareness of plants and their role in a larger ecological context (Magntorn & Helldén, 2006)

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Seek by
iNaturalist

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Download on the
App Store

Using the Seek app

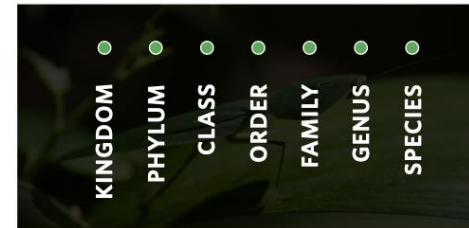
USING THE SEEK CAMERA

To identify an organism using Seek, you can open the **Seek Camera** from any screen by clicking the camera button. The warning pop-up reminds you to stay safe when using the Seek Camera.

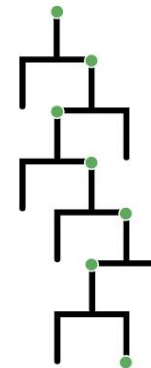
Then, you can point the camera at any living thing to identify it!



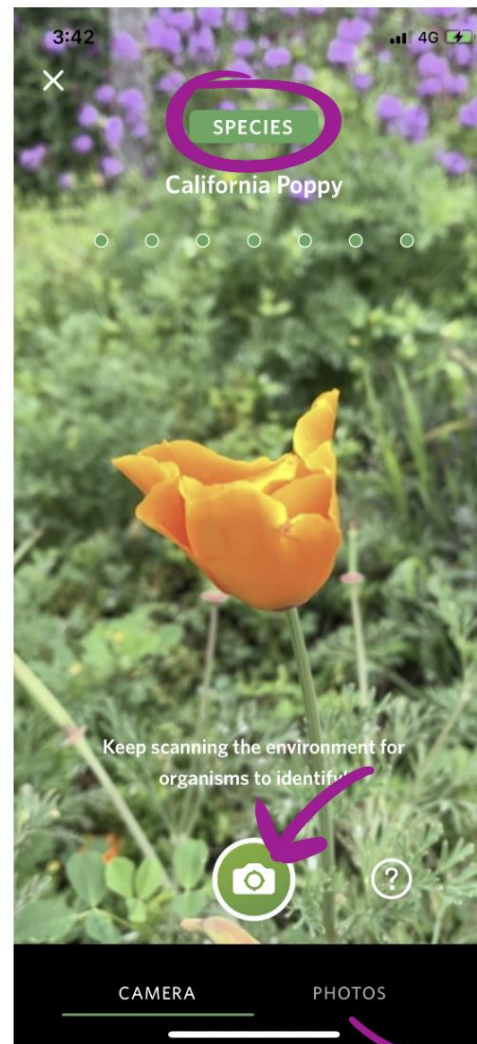
The ID meter at the top represents the 7 main taxonomic ranks.



Taxonomy is how scientists group living things, and it is the basis for how organisms are grouped in both iNaturalist and Seek.



Take a
picture and
save in your
gallery



You can also upload a photo from the gallery, but you will not be able to get a live, on-screen identification like in the Seek Camera.

You can add an observation in Seek when the camera can identify the organism to species, meaning that all 7 dots on the ID meter are filled up.

Once the identification is at species, you can click the green camera button to take a photo to add it to your observations.

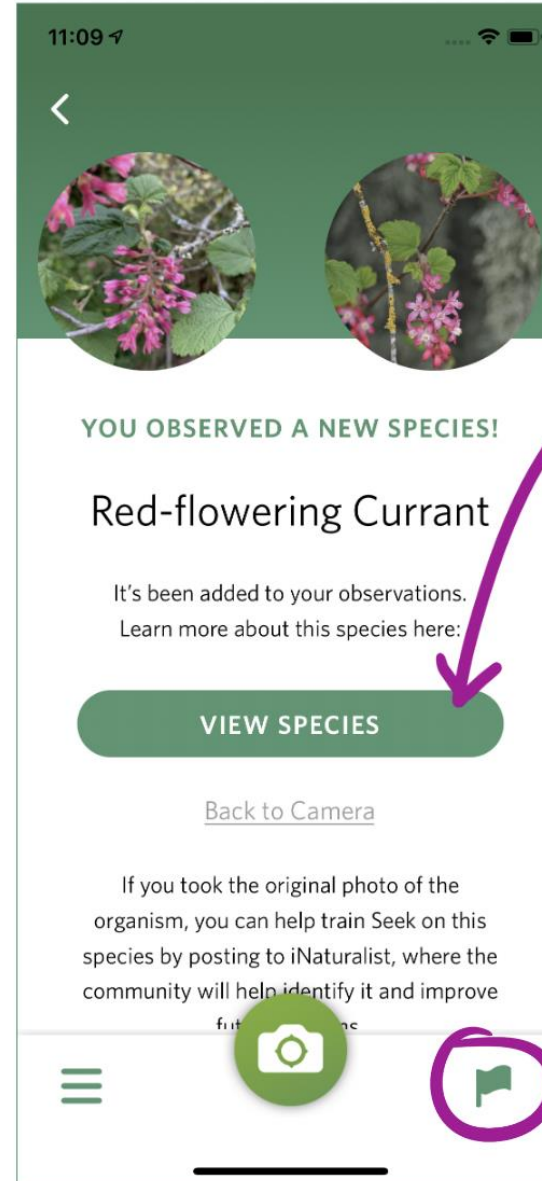
Did you know?

- No Internet is required to identify and add species to your observations!
- You can also pinch to zoom in and fill the screen



Identify
species

1. THE ORGANISM IS IDENTIFIED TO SPECIES

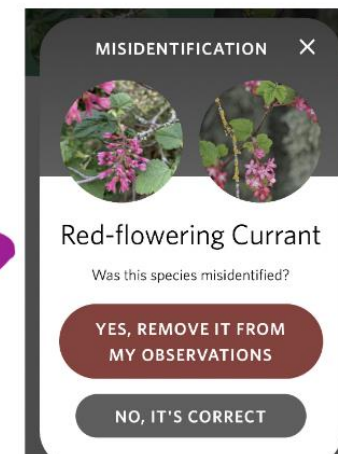


If an organism is identified to species, it is added to your observations!

Click view species to learn more about it and view the **Species Page** (This does require Internet)

The Seek Camera can identify 20,000 species, but it does not know everything, so it may be wrong.

If you know it is incorrect, you can click the flag to remove the organism from your observations.



Learn more
about
species

SPECIES PAGES



You can swipe through photos of the species here. If you have observed the species, your photo will show up first!

Common and Scientific names

Status & when you observed it on Seek

An excerpt from Wikipedia
If you are logged in to iNaturalist, you can click to view the Wikipedia article

Range map based on iNaturalist observations, with your current location and where you observed it in Seek



Go outside!

Outdoor activity with Seek

- Explore species in pair in the nearby area
 - You will be designated a search area
 - Look for plants within the area
 - Watch, listen and smell for a while before you choose what plant to observe
 - Use the app to identify the species
 - What features would you look for if you saw the species again?
- Consider pedagogical implications of using Seek in teacher education and in primary education for learning about species



Discussion

- How did you experience the use of the app Seek?
- What possibilities do you see with the app?
- What challenges might there be?