

iNATURALIST GUIDE

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Introduction to iNaturalist

[iNaturalist](#) is a free platform—both a website and app—to record observations of plants and animals in nature using photographs; share what you’ve found; and contribute to a global dataset of biodiversity information used for both science and conservation. Making observations is as simple as exploring, being curious, and taking photos of organisms (or evidence of those organisms, like tracks, nests, shells, or skulls.) The iNaturalist Artificial Intelligence (AI) will suggest possible identifications, and then when you upload those observations, the iNaturalist community works together to refine and confirm the identifications. iNaturalist helps anyone explore their surroundings, improves their observation skills, and connects them to a community that will help make them a better naturalist.



Getting Started

It is free and easy to join iNaturalist. Set up your account on the [iNaturalist website](#) or download the app from the [Apple](#) or [Google Play](#) store and create your login there. Pick a username and password you’ll remember! Once you have an account, you can use it online or on your device, and multiple people can share a login.

Making Observations

To familiarize yourself with iNaturalist in preparation for your Backyard Wilderness Bioblitz, you’re going to want to make some observations. This will give you experience using the iNaturalist app, a feel for what organisms are easiest to photograph, and an understanding of what happens to observations after you upload them—all important things to know when leading others in using iNaturalist at your bioblitz.

1. Make sure your phone’s location services are turned **on** for your camera and for iNaturalist—usually accessed through the security settings on your phone.
2. Head outside, open up the iNaturalist app and find an organism you’d like to make an observation of. Plants are a good place to start since they won’t run away from you! While you can make observations of anything, try to look for organisms that are wild—so plants growing on their own without human help, or non-domesticated animals, like insects or birds.
3. Tap the button to make a new observation, and choose “Take Photo” when the options pop up.
4. Take your first photo. After you take the photo, you’ll have the option of retaking it if you’d like (if it’s blurry, for example), or moving on.

5. Once you have a photo you like, you'll be taken back to the observation screen. Notice that iNaturalist will have automatically populated the date and time, as well as your current location.
6. From the observation screen, you can add more photos to the observation, for example, if you'd like to get a close-up of the flower of plant, or the leaves. See [Tips for Taking Photos](#) below for more details.
7. Once you're satisfied with your photos, tap the box that says "What did you see? View suggestions." If you have a network or wi-fi connection, this will link you to the artificial intelligence on iNaturalist, which will try to suggest possible identifications based on your photograph.
8. Look for suggestions that say "Visually Similar/Seen Nearby" as good possible choices. See [Tips for Using the iNaturalist AI](#) below for more details. You can pick a suggestion from iNaturalist, or you can type in your own identification using the search bar, at any level of detail you know (e.g., "California poppy" or "Plants" are both fine to use as an ID!)
9. Once you've added an identification, you'll be taken back to the observation screen, where you should save the observation. Once you save it, it will be uploaded to iNaturalist, where the community will work to confirm or refine the identification. See [After Making Observations](#) to learn more about the ID process.
10. Now you're ready to make a new observation!

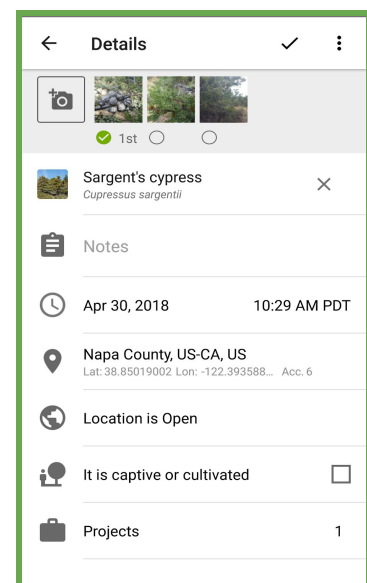
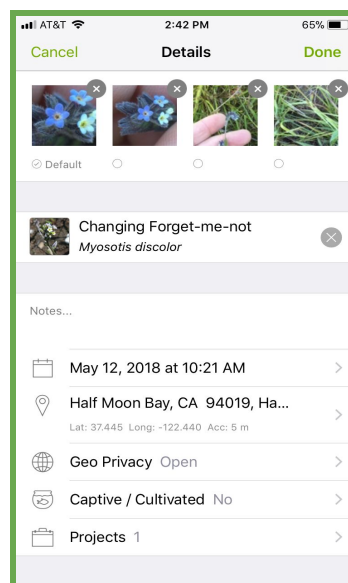
For more detailed instructions about using the iNaturalist iOS and Android apps, as well as for uploading observations via the iNaturalist website, see the iNaturalist [Getting Started](#) guide.

Tips for Taking Photos

The photos you take on iNaturalist are there to provide evidence of the organism you saw, and to help the AI and the iNaturalist community suggest, refine, and confirm the identification of that organism.

Therefore, taking good photos is key to using iNaturalist! Here are some tips to taking photos for iNaturalist:

- **Focus on one species in each photo:** While a meadow full of wildflowers is beautiful, it's not the best photo for an iNaturalist observation, as there are probably many species represented in that one shot! As much as possible, try to have the one species you're interested in as the focus of your photo, by getting close and centering your organism in the frame.
- **Use the option to have multiple photos in one observation:** You



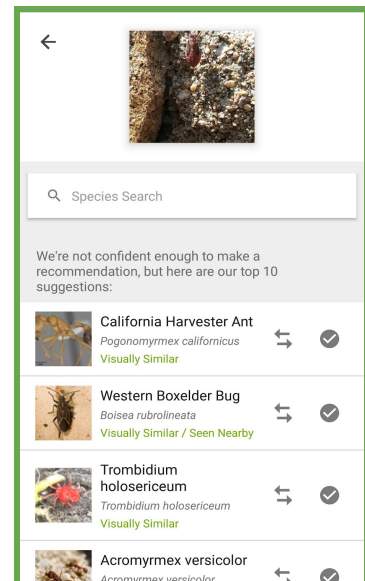
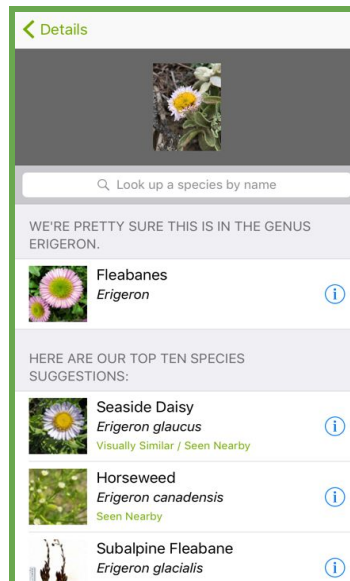
can have more than one photograph for each observation you make in iNaturalist, allowing you to photograph different parts or angles of an organism. For example, one photograph of an entire tree, taken from far away, won't be very useful in identifying that species of tree, but that "full shot" photo, combined with other photos that show close ups of the leaves, the bark, and any flowers or fruits, will allow that tree to be identified.

- *Discard blurry photographs:* Be sure to use the option to retake photos when making iNaturalist observations! If the organism moved or there is low light, causing the photograph to be blurry, retake the picture but wait for the organism to be still or turn on your flash.
- *Get close:* For small organisms in particular, like ants or aphids, getting a nice close-up shot is important for identification. While it can be difficult to take a good close-up shot using the camera of a smartphone, these days there are inexpensive clip-on macro lenses you can use with your phone to take great, focused pictures of small organisms or close-ups of features of other organisms, like a plant that has tiny flowers or the eyes of a spider.

Tips for Using the iNaturalist AI

The Artificial Intelligence (AI) on iNaturalist is a fun and useful feature that can provide real-time feedback about the observations you're making. The iNaturalist AI will give you suggestions for ID, but they're just that—*suggestions*. Because of this, there are some things to keep in mind to make sure you're using the AI in the best and most responsible way:

- *Check how confident iNaturalist is in the suggestions:* The iNaturalist AI will never give you one single suggestion of one species. Instead, based on the photograph you provided and how much information it has about the species in your area, it will offer a list of suggestions, with some information about how confident it is in these suggestions. If it has confidence in the list of suggestions, it will always display a taxonomic level higher than species at the top of the list and say that it is pretty sure your organism is in that group. Then it will list ten species suggestions. If it is not confident in its suggestions, it won't display a higher taxonomic level and will state that it is not confident enough to make a recommendation. It will still display ten species suggestions, but those suggestions will likely encompass a wide range of organisms that look somewhat similar to your photograph. We recommend only choosing a species suggestion if the iNaturalist AI is "pretty sure" about the ID.



- *Look for suggestions that are visually similar and seen nearby:*

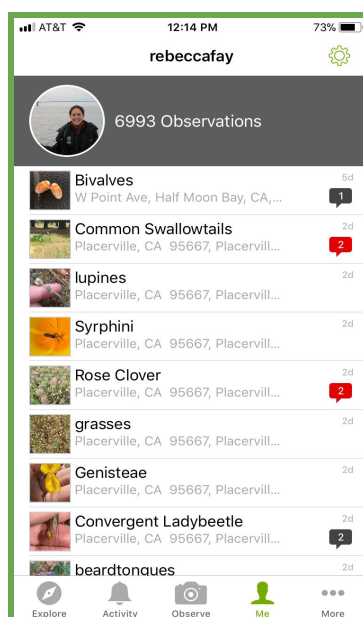
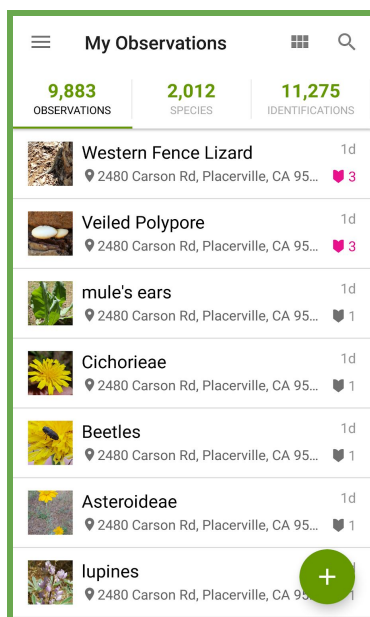
If the iNaturalist AI is “pretty sure,” look through the ten suggested species. Under each species name, it will state why the AI is suggesting it: if it is visually similar, if it has been seen nearby, or if it’s visually similar *and* has been seen nearby. Suggestions that are listed as visually similar and seen nearby are the best choices!

- **Learn more about the suggested species:** In the list of suggested species, you can see the name of the species as well as a tiny thumbnail, which can make it difficult to tell if a suggested species seems like the correct ID to your observation. All of those suggestions, though, link to a species information page, where you can see larger photos, read about the species, and see a map of where others have observed it. If it seems like you’ve found a match to your organism, you can even select it as the ID from within the species page.
- **Make your own ID:** If, after going through all the tips above, you don’t think you’ve found a likely suggestion for your observation, you can always enter your own ID by using the search bar. If you know the species, you can type in a species ID, but you’re also welcome to make an ID at a much higher level, for example “plants” or “birds” or “beetles.” By putting at least some level of identification on your observation, you make it much easier for other iNaturalist members who can help refine that ID to find your observation, rather than leaving it blank.

After Making Observations

Making observations is only half of the process on iNaturalist. Once you upload your observations, the other half begins! To get an observation to “Research Grade” status: (1) it must have a photo, (2) it cannot be a captive or cultivated organism, and (3) over 2/3rds of the people adding IDs to it have to

agree about what species it is. It’s key to check back on your observations after you make them to see if anyone has added an identification or left a comment, possibly asking you to provide a bit more information about what you saw.





You can see if anyone has left you an ID or comment by refreshing the screen showing your list of observations in the iNaturalist app and look for the notifications on your observations, or by logging into the website, where you’ll have notifications highlighted in the upper right corner of the header bar. On the website, you can see how close your observation is to making it

to the 2/3rds majority needed for Research Grade, and once it has made it there, you’ll see a green Research Grade banner at the top of the observation.

Research Grade observations are not only part of the iNaturalist database, they are also shared with other global biodiversity databases, increasing their use for science, management, and conservation!

Seven-eleven Crab (*Carpilius maculatus*) Research Grade






kestrel
 9,883 observations


Observed:
 Oct 19, 2017 · 8:55 PM PDT

Submitted:
 Oct 19, 2017 · 9:04 PM PDT




ladybird_sunbathing faved this observation

Activity




kestrel suggested an ID Improving 7mo




Seven-eleven Crab
Carpilius maculatus


Compare



tiwane suggested an ID 7mo




Seven-eleven Crab
Carpilius maculatus




pliffgrieff commented 7mo

very cool! I have never seen one of these in Kauai. Was it observed in the intertidal?



kestrel commented 7mo

Yep, found intertidally.



anudibranchmom commented 7mo

Love this one!

Community ID

Seven-eleven Crab (*Carpilius maculatus*)
 Cumulative IDs: 2 of 2

0

2/3rds

2

Agree

Compare


About

Annotations

Attribute	Value	Agree	Disagree
Sex	Select		
Life Stage	Select		

Projects (1)

Add to a project


Crabs of the World

Tags