

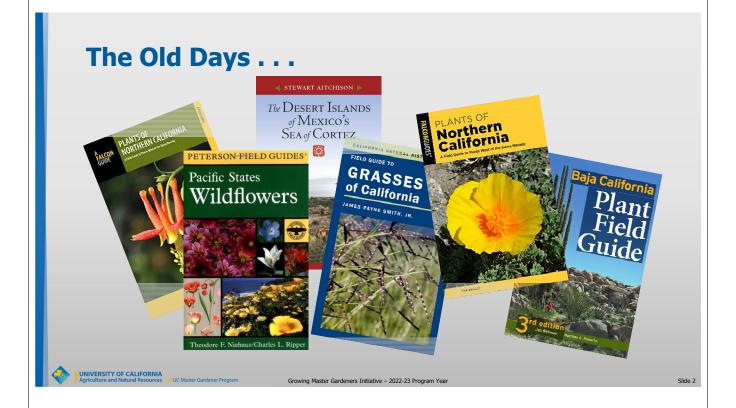
□ Tech Talk □ Plant Identification Apps

presented by Ralph Thompson, UCCE Master Gardener UCCE Master Gardener Program of Riverside County



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From This ...







UNIVERSITY OF CALIFORNIA Agriculture and Natural Resource

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From This ...

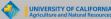
To This ...





How Do They Work?

- Open the plant identification app and choose 'Identify' (or similar wording)
 - > Some offer a 'Diagnose' feature
- The app will open the phone's camera app where you take a photo of the target plant
- Most apps give you a chance to review and accept the photo
 - > The app sends your accepted photo to its home server where image recognition software attempts to find a match
- Matches are sent back and displayed in the app window
 - > Most apps provide a list ranking from highest confidence and down
 - > Some apps only provide a name and a few details
 - Others provide more information such as a description, care notes, popular cultivars, toxicity, informative videos



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Now, my Disclaimers . . .

- ❖My goal was for my personal use not a public recommendation
- ❖I use an Android cell phone not an iPhone
- I did some 'standardized' testing not extensive nor by others
- I did not want to purchase a Pro version nor subscription
 - ▶ I rejected apps whose design was confusing or 'tricky'

Slide (

Lots of Options

- Agrobase
- ◆Blossom
- FlowerChecker
- Garden Answers
- Garden Compass
- ❖Google Lens
- **⋄**iNaturalist
- **⋄**iPlant
- ❖ Leafsnap

- ❖NatureID
- ❖ PictureThis
- ❖Planta
- ❖PlantIn
- ❖Plantix
- ❖PlantNet
- ❖PlantSnap
- What's That Flower

31 in latest Google Play Store search



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My List . . .











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My List . . .

- iNaturalist -



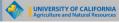
– PlantNet Plant Identification –

for everyday use

Simple to use with quick, consistently accurate plant identifications. Few ads and no sneaky pop-ups. Does not offer as much plant information as some other apps nor as seamless a sharing experience.







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My List . . .





for sharing and 'science' projects

Sometimes a little tricky to use. But still, fairly consistent and accurate plant identifications. No ads and no sneaky popups. Easy to create and participate in sharing observations with other amateur naturalists or researchers.







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My List . . .









PictureThis –for research

Much more depth on subjects like toxicity and natural history. Less user-friendly. Frequent ad popups. Easy to accidentally subscribe to paid features.



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My List . . .









- NatureID -

for diagnoses

Quick accurate diagnoses. Time-outs on non-paying accounts. Most 'advanced' features are paid, with constant reminders to subscribe.



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Thoughts . . .

- Functionality depends on cellular service
- Some apps allow guest access while some apps require that you register
 - > If you register, consider using only initials instead of your full name (or even make up a name)
- According to terms of use on most apps, your photos will be shared under a CC by-SA license, which means that others (including people selling something) can use and modify your photos
- Be careful... many apps seem to be designed to "trick" the user into buying something they may not mean to



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Hints . . .

- Try to isolate the target plant in the camera frame
- Ensure the target plant is well lighted
 - > Avoid heavy shadows
- If possible, include the entire leaf or flower or even a group
- Take advantage of apps that allow multiple photos



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Any topic suggestions for Tech Talk?

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