

WIDAR 3D SCANNING INSTRUCTIONS FOR ANDROID



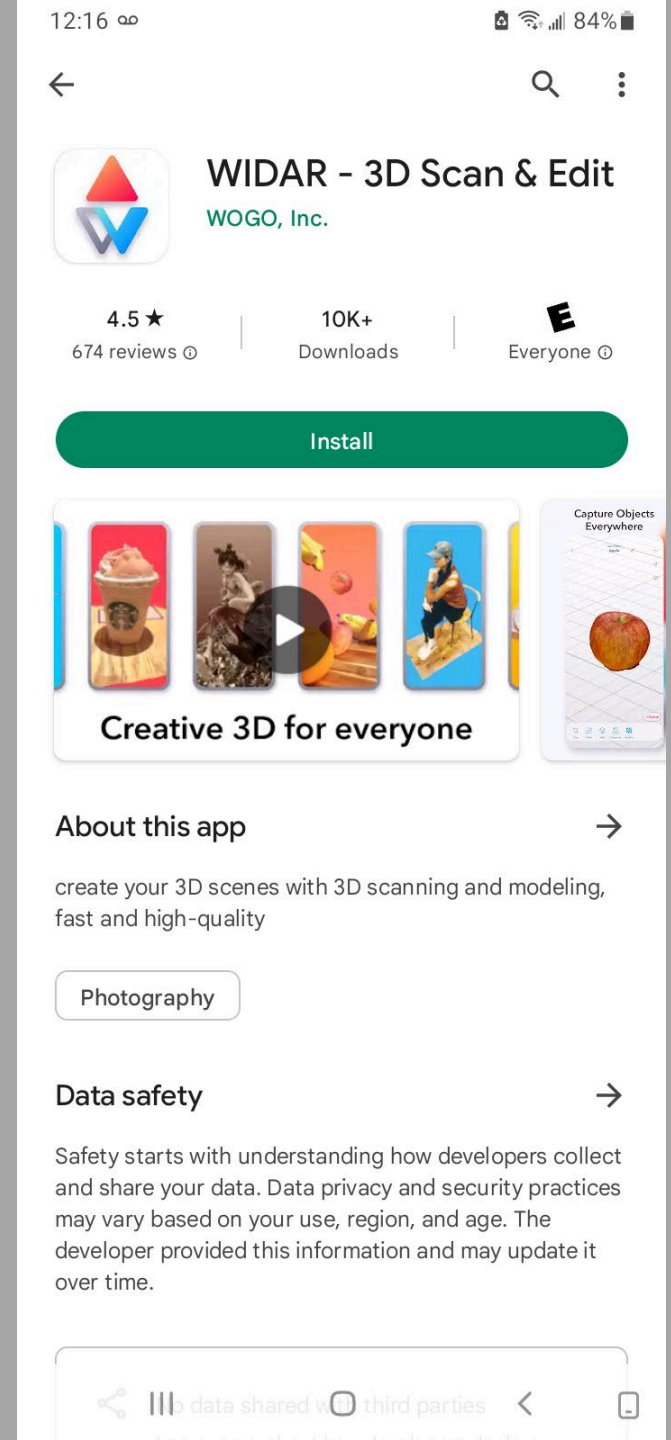
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INSTALL WIDAR:

1. Navigate to Play Store app
2. Search “WIDAR”
3. First result should be “WIDAR – 3D Scan & Edit”
4. Install & Open



WIDAR APP SETUP & SIGN-IN:

5. Upon opening, you will be shown a slideshow of features
 - a. You may press “Next” to scroll through the brief slideshow, ending on a “Welcome to WIDAR” page
 - b. You may press “Skip” to go directly to the “Welcome to WIDAR” page
6. On the “Welcome to WIDAR” page, press “ALLOW” to give the app necessary permissions.
 - a. A popup will appear giving you a choice to give photo/video permissions
 - i. “While using the app”
 - ii. “Only this time”
 - iii. “Don’t allow”
 - b. Select one of the first two options, “While using the app” or “Only this time”
 - c. Another popup will appear asking for photo and media permissions
 - d. Select “Allow”



Allow **WIDAR** to take pictures and record video?

While using the app

Only this time

Don't allow



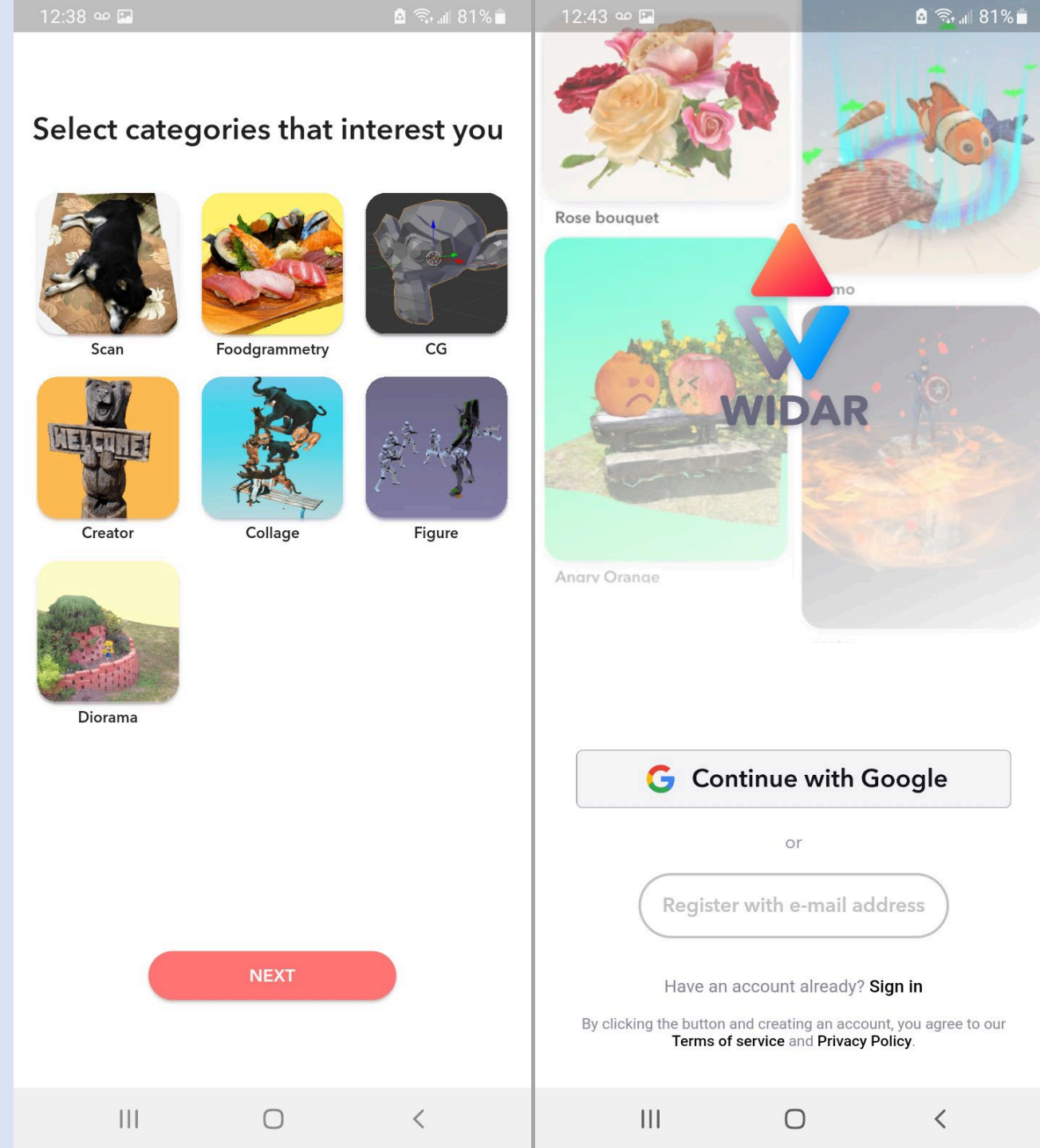
Allow **WIDAR** to access photos and media on your device?

Allow

Don't allow

WIDAR APP SETUP/SIGN-IN:

7. The next page will prompt you to “Select categories that interest you”
 - a. You may select any categories shown that interest you, then press “NEXT”
 - b. You may also press “NEXT” without selecting any categories
8. You will then be asked to sign in
 - a. You may press “Continue with Google” to sign in using a Google account
 - b. You may also register with an email address
 - c. Follow sign-in procedures as prompted



WIDAR APP SETUP/SIGN-IN:

9. After signing in, you will land on the “Community” tab.

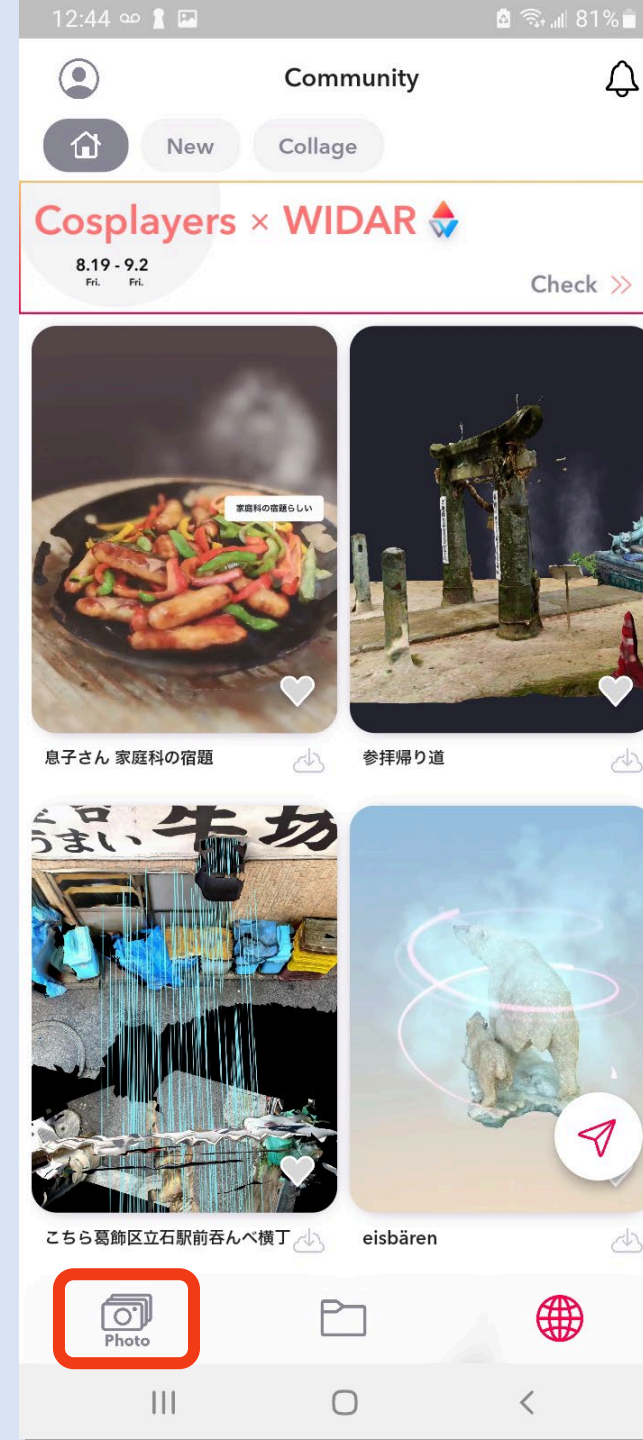
- Here you can see work made by other people. However, we will not be using this tab for our scan.

10. At the bottom of the app screen, there will be a navigation bar with three icons:

- Photo
- Files
- Community

11. Select the “Photo” icon on the far left

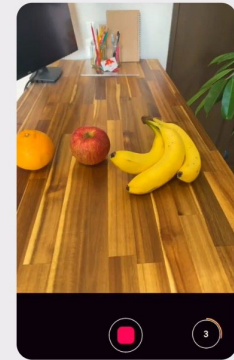
12. You will arrive at a three-panel slideshow giving you instructions and helpful tips on how to create your 3D scan. Please read these carefully. When you are done reading, press the “X” at the top right to close out of the slideshow.



Note all the different angles you will need to move your phone camera to.

In Photo Scan, you can create 3D models from photos.

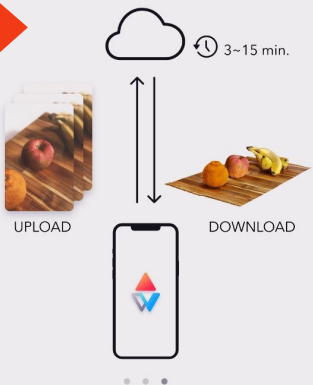
- Take pictures of the object from different angles.
- 20-40 photos are enough for small objects.
- Objects that reflect bright light, transparent or moving are not recommended.



Keep the object fixed and move around it to shoot from many perspectives.

This is how it works.
The heavy computation is done in the cloud.

Submit to WIDAR, and download the 3D model in a few minutes.



CREATE 3D SCAN:

13. Now you will be on the scanning screen, which looks nearly the same as your ordinary photo app.

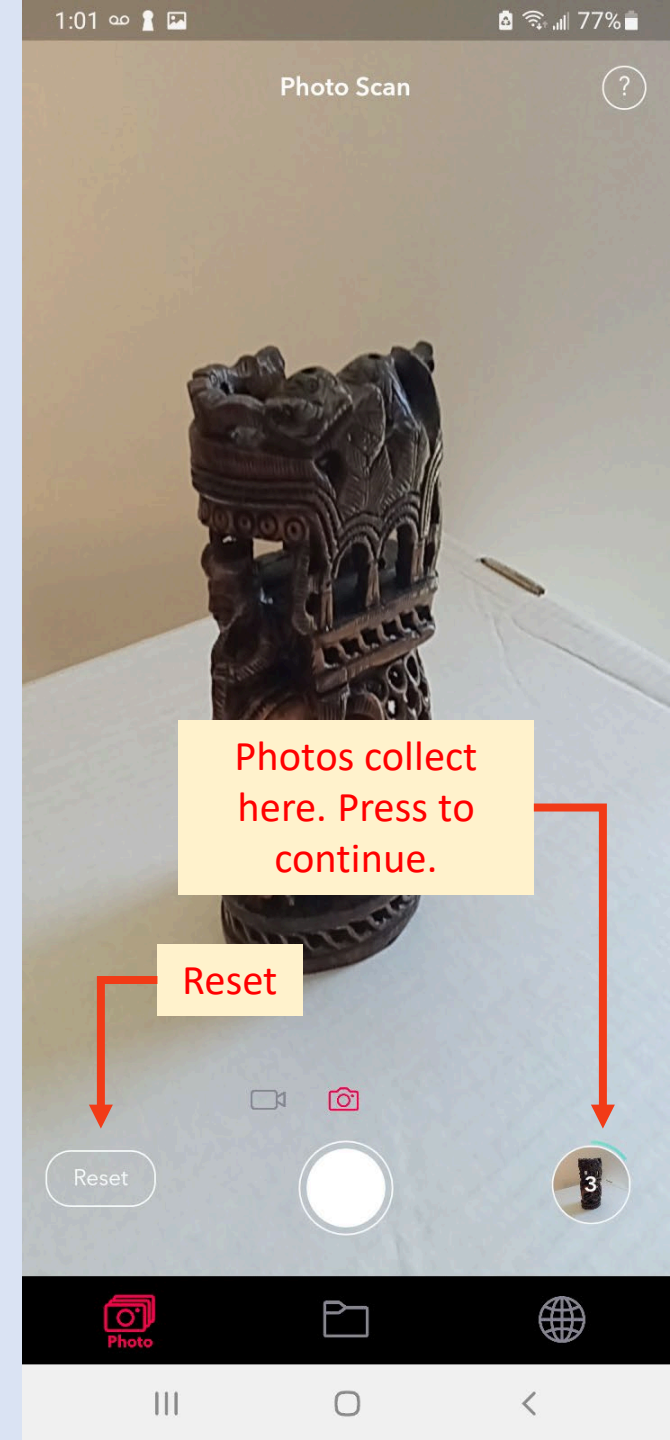
- a. The circular white record button is the shutter (to be pressed when you are ready to start taking your scan).
- b. There are two modes, shown by the video and photo icons just above the shutter, that change how you take your scan.
 - i. Photo mode (photo camera icon) allows you to manually take every photo that will eventually generate your scan. This means you will be free to set up each shot (recommended 20-40 shots) and press the shutter whenever you are ready.
 - ii. Video mode (video camera icon) sets the shutter off for you at regular time intervals, allowing you to slowly pan your camera around the object without having to manually press the shutter. In this mode, you do not have very much opportunity to adjust and will need to pan slowly and at a regular speed.
- iii. Depending on your mobility around the object and your dexterity with a camera, please select whichever mode you feel more comfortable with.



CREATE 3D SCAN:

14. Use the shutter button (set to one of the two modes described before) to begin capturing your scan.

- a. After you have taken at least one photo, a “RESET” button will appear to the left of the shutter. This allows you to restart the scan (removing any photos you have taken so far and letting you start again).
- b. Photos you take will collect in a circular icon to the right of the shutter.
- c. After you have taken at least 20 scans, a little “Done!” exclamation will appear under the collection of photos. At this point, you may be done. However, taking more photos at as many angles as possible is recommended for a better scan. Once you feel you have captured the object from all sides, you may complete the scan.
- d. To complete the scan, press the circle button (not the globe) on the bottom right that has the number of photos you have taken as well as the “Done!” message just below it.

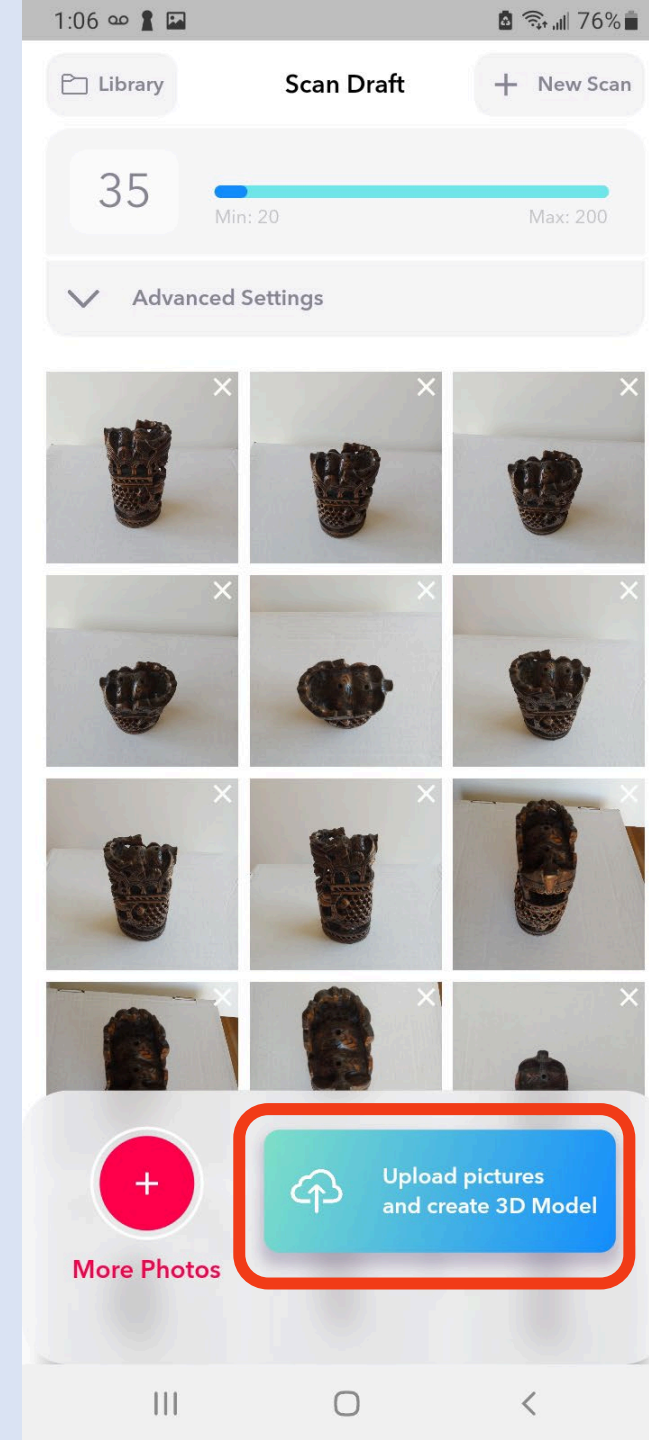


CREATE 3D SCAN:

15. Pressing the collection of photos will take you to a “Scan Draft” page where you may view (click to open) all the photos you have taken so far.

- At the top of the screen, you can see how many photos you have taken (minimum 20, maximum 200).
- At the bottom left, you will see a circular red icon with a white + labeled “More Photos” which you may press to go back to the capture screen and...take more photos.
- To the right of the “More Photos” icon, there is a rectangular blue upload button. Press this once you are satisfied with your photos and wish to proceed with processing the scan.

16. Once you commit to your collection of photos, the app will go through an upload, data processing, and download sequence. Please have patience, it may take a few minutes (should be around 5-15 minutes). A progress bar will be shown for each of the three steps. After upload (first step) is complete, you may close the app. It should notify you when the entire sequence is complete.



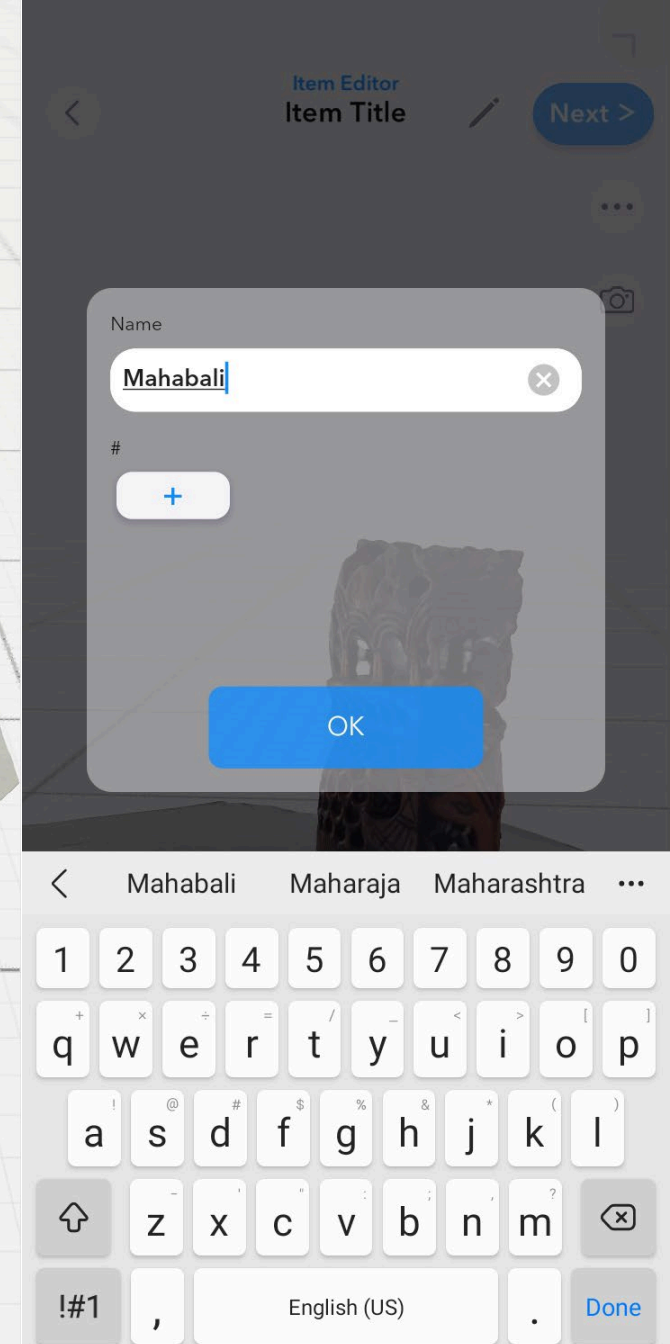
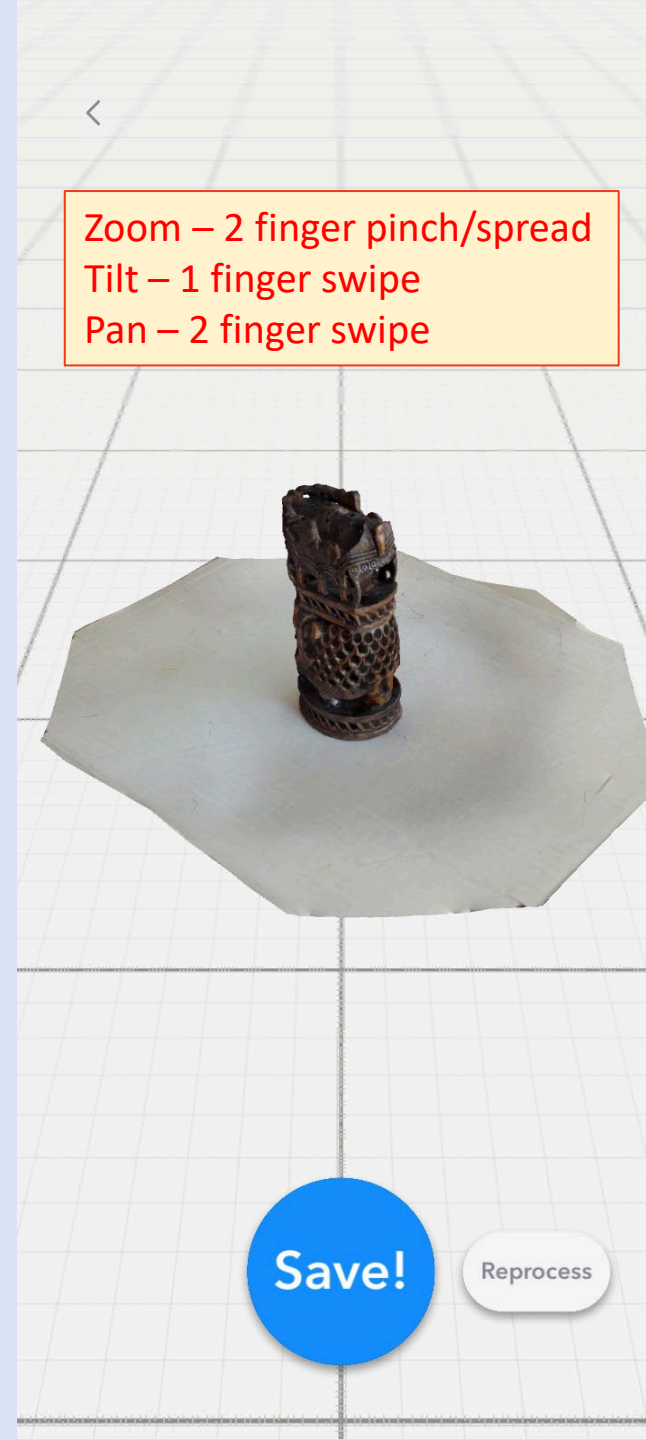
VIEW, EDIT, & EXPORT:

17. When the scan is done, you will be shown an 100% completion screen and a blue rectangular button to “Check the generated 3D model”. Press this button to view your model in the “Item Editor” screen.

- a. When viewing the model:
 - i. Use two fingers (pinch or spread) to zoom.
 - ii. Use one finger (swipe in any direction) to tilt
 - iii. Use two fingers (swipe in any direction) to pan

18. Press the large circular blue “SAVE!” button to...save your scan.

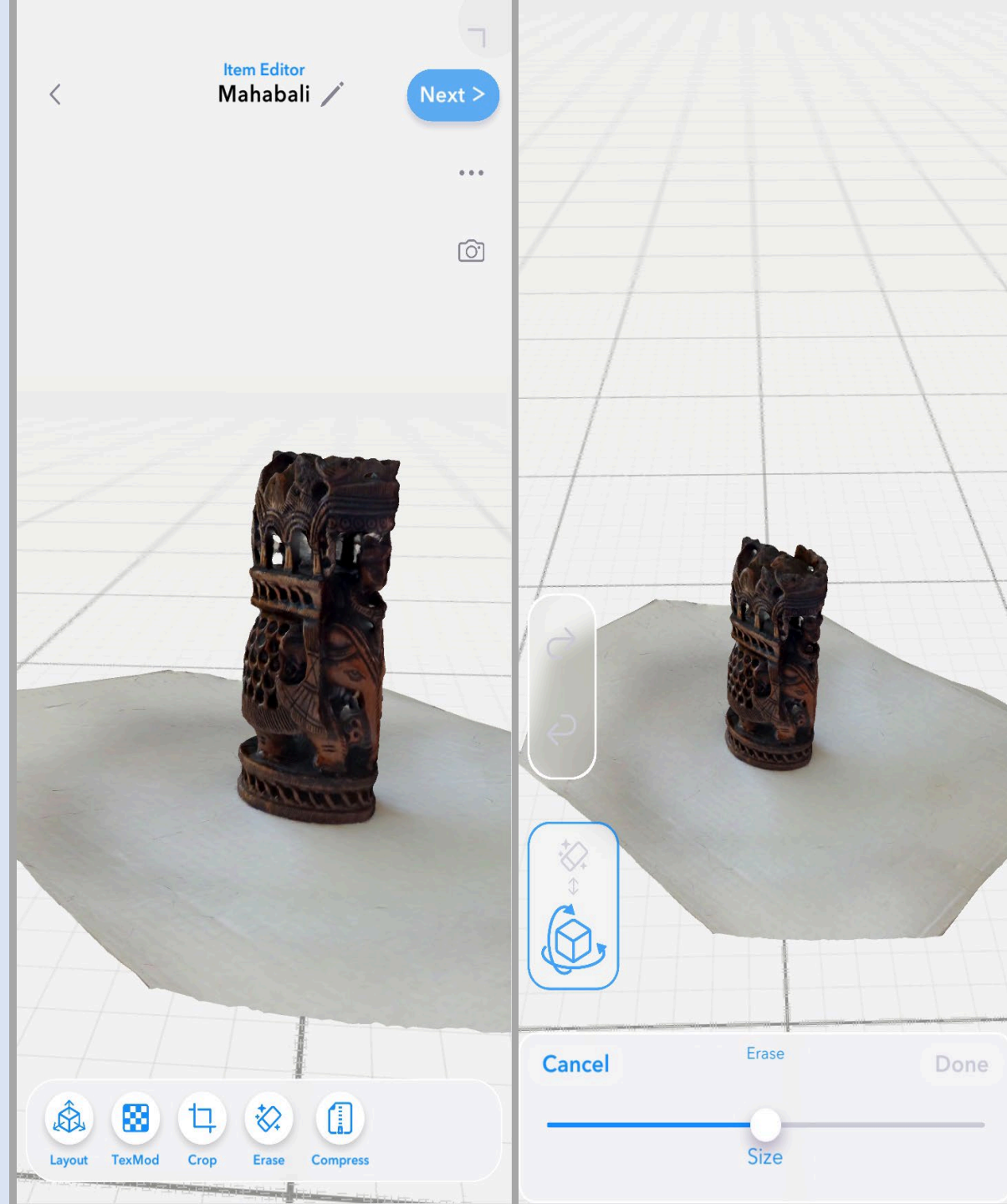
- a. You will be required to name your model in the “Title (required)” field.
- b. You are also given an option to tag the model (+ button under the # field). This is optional.
- c. Press the rectangular blue “Done” button once you are done titling and tagging your save.



VIEW, EDIT, & EXPORT:

19. In the “Item Editor” screen, you will also be given a variety of editing options (icons) in a bar at the bottom.

- a. The most helpful to you will likely be the “Erase” function, which allows you to remove excess parts of your scan.
 - i. After pressing the “Erase” button. You will be given the following features:
 1. Undo and redo buttons towards the middle left.
 2. Eraser size slider at the bottom
 3. Toggles for navigation (cube with arrows) and erasing (eraser).
 - a. Toggle the navigation cube when zooming, tilting, or panning.
 - b. Toggle the eraser only when you are ready to erase. At this point, touching the screen will erase along the path of your swipes. There may be some delay, so drag your finger slowly and carefully where you are trying to erase. Erasing in small sections at a time is strongly recommended.
 4. Press “Cancel” (bottom left) if you would like to cancel your edits
 5. Press “Done” (bottom right) when you are done erasing and would like to keep your changes
 - b. At the top right, you are also given the option to screenshot (camera icon)
 - c. At the top right, there is also a blue “Next >” button. You do not need to press this button. It will direct you to a “Make Scene” screen - you may exit back to Item Editor by pressing “Not now”.



VIEW, EDIT, & EXPORT:

d. At the top right, below “Next >” and above the screenshot (camera icon), the three dots will open the options for “Walkthrough”, “Share”, and “Delete”

- i. “Walkthrough” allows you to view the model (with only navigation and screenshot options shown). To exit out of walkthrough, press the footprint icon in the top right.
- ii. “Delete”, as you might guess, deletes your scan.
- iii. “Share” allows you to export your 3D model in a variety of formats or share via URL.
 1. Press “Share” and select “GLTF”. This is the format we want to export in to eventually bring in to Model Viewer.
 2. A .zip folder will be saved to your phone and can be found in your files directory. The exported GLTF is contained in the .zip folder.
 3. Email this .zip folder to yourself if you would like to use it on a different device. If you are using the same phone for the entire sequence of this workshop, you do not need to email it to yourself.

20. Please refer to Mark Heller’s instructions to continue.

