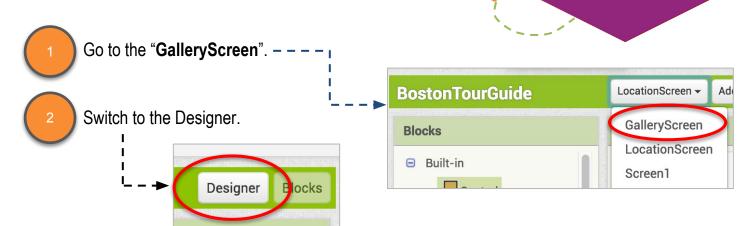
You'll add the functionality for more than one picture in the

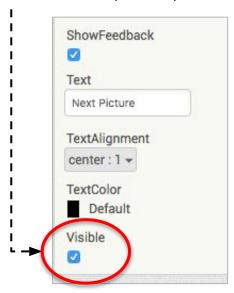
Gallery!

TOUR GUIDE: MULTIPLE PICTURES

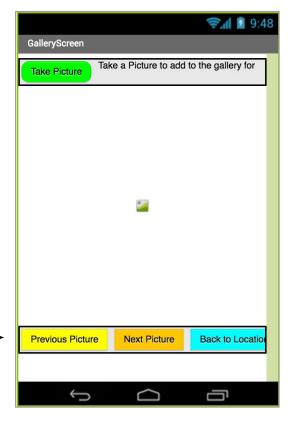
UPDATE GALLERY SCREEN



The template contains two invisible buttons, **PreviousButton** and **NextButton**. Find them in the Components panel and check their *Visible* property.



The two buttons appear next to the **BackButton**. - -▶





AFTER PICTURE

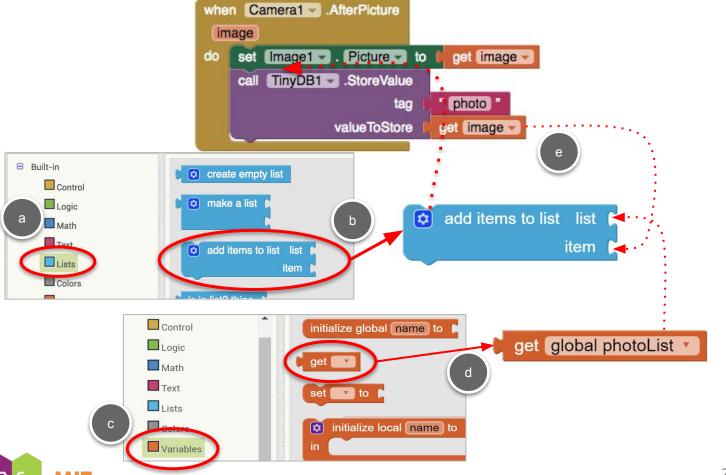
APP INVENTOR

Make your app more versatile, by allowing users to take many pictures instead of just one! You'll use a List called **photoList** to store the images in the app, and **TinyDB** to store the list so it can be retrieved each time the user runs the app.

Initialize two new variables. Name them and set them as seen below.



When a picture is taken, add the image to the photoList.



STORING THE PHOTOLIST

Change the tag for TinyDB1.StoreValue to "photoList".

```
when Camera1 .AfterPicture
   image
       set Image1 . Picture to get image
  do
         add items to list list
                               get global photoList -
                        item |
                                get image -
                                                          photoList
       call TinyDB1 .StoreValue
                                     photo
                    valueToStore (
                                                                 tag is the text
                                                                 "photoList"
                                                              value is the variable
And make the valueToStore the variable photoList.
                                                                  photoList
                         get global photoList
```

Update currentIndex to point to the end of your list, by setting it to the length of the list.

```
set global currentIndex to length of list list get global photoList
```

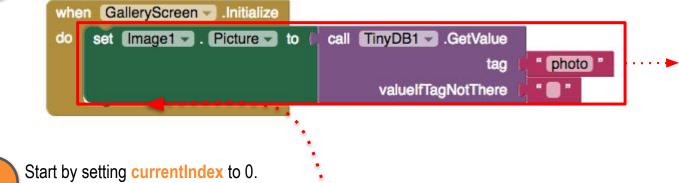
9 Snap that block in below the **add items to list** block.



INITIALIZE SCREEN

Because you are switching from a single photo to a list, you need to update the GalleryScreen.Initialize event.

Remove the set Image1.Picture block, and set it aside. Don't delete it.





Then add a **set photoList** block. Snap the **TinyDB.GetValue** block to that block.

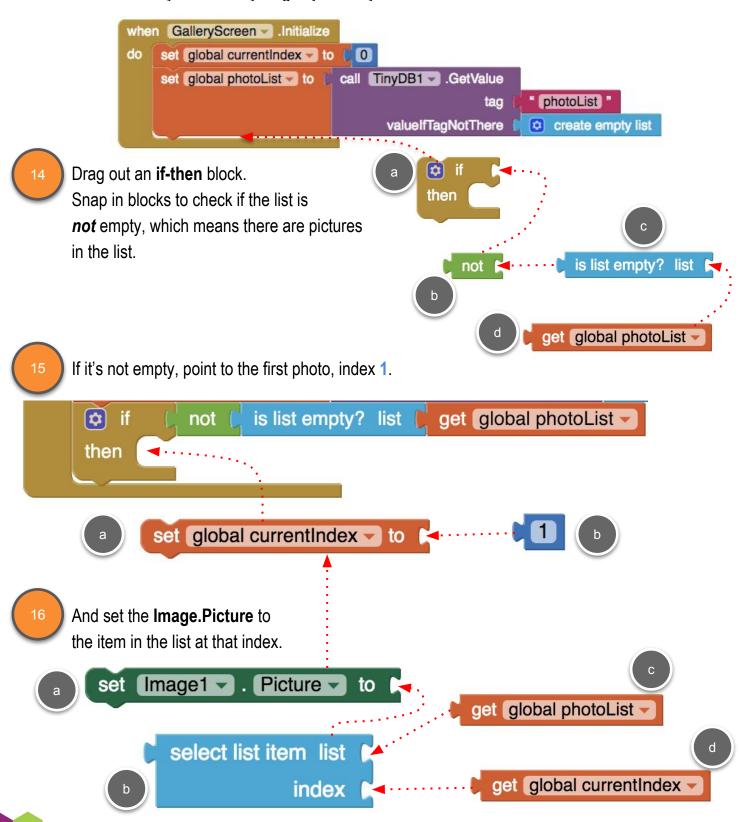
```
set global photoList
set Image1 . Picture to
                                 call TinyDB1 .GetValue
                                                               Xhoto 4
                                                                                   photoList
                                        valuelfTagNotThere
  Replace "photo" with "photoList" and the blank Text string with create empty list.
          ⊖ Built-in
                             create empty li
             Control
                                                                   create empty list
                                                             *
             Logic
             Math
             Procedures
```



INITIALIZE SCREEN

APP INVENTOR

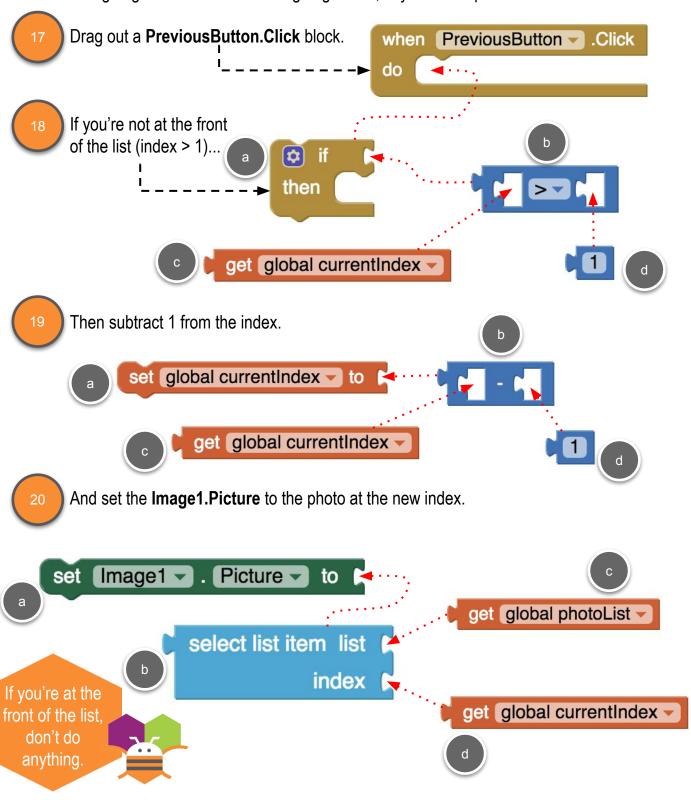
You need to check if you have anything in your list yet.



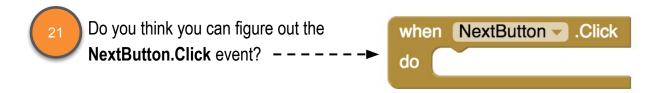
PREVIOUSBUTTON

APP INVENTOR

Now code the **PreviousButton** and **NextButtons**. You need to update **currentIndex**, by either adding to go forward or subtracting to go back, in your list of photos.



NEXTBUTTON



- Here you go! Test out your app with the MIT Al2 Companion.
 - o Go to the GalleryScreen.
 - Take some pictures.
 - Scroll through your pictures with the Previous and Next buttons.
 - Close the app and reopen it.
 The pictures should still be there!





COMPUTATIONAL THINKING CONCEPTS

The following are the Computational Thinking Concepts used in Multiple Pictures.

