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LEARNING OBJECTIVES

- + Take photos from your app
- + Import a user's images into your app

PERMISSION

To use the device's camera, you need permission from the user.

The following code takes care of that:

```
AVCaptureDevice.requestAccess(forMediaType: AVMediaTypeVideo,
completionHandler: { (authorized) in
        authorized ? print("AUTHORIZED!") : print("NO DICE!")
})
```

IMAGE PICKER CONTROLLER

The class **UlimagePickerController** is your gateway to taking new photos and retrieving a users' existing photos. Here's how you would use it to access a user's photo library:

```
let imagePicker = UIImagePickerController()
imagePicker.delegate = self
imagePicker.sourceType =
UIImagePickerControllerSourceType.photoLibrary;
imagePicker.allowsEditing = true

present(imagePicker, animated: true) { }
```

IMAGE PICKER CONTROLLER

The code for engaging the camera is quite similar:

```
let imagePicker = UIImagePickerController()
imagePicker.delegate = self
imagePicker.sourceType =
UIImagePickerControllerSourceType.camera;
imagePicker.allowsEditing = true

present(imagePicker, animated: true) { }
```

RECEIVING AN IMAGE

But how do we return from picking a photo or taking one? And how do we get a reference to the image in question?

We'll need the UIImagePickerControllerDelegateprotocol for that.

```
func imagePickerController(_ picker:
UIImagePickerController, didFinishPickingMediaWithInfo
info: [String : Any]) {
    // Use the info object
    self.dismiss(animated: true, completion: { })
}
```

RECEIVING AN IMAGE

Finally, we have to parse the data that the image picker returned to us.

Here's an example of a function that does that:

```
func retrieveImage(from mediaInfo: [String : Any]) -> UIImage? {
    if let image =
    presentMediaInfo[UIImagePickerControllerEditedImage] as? UIImage {
        return image
    }
    return nil
}
```

CAMERA

Practice:

- On your first view controller, create a button that, when tapped, will ask permission to use the camera.
- Once you have permission, a new button should appear. When this button is tapped, it should bring up the camera.
- 3) When the camera takes a picture, the app should return to its main view controller and display the taken picture in a UllmageView.
- 4) The image view should take on the aspect ratio of the picture taken.