singleViewApp
imageView label button

// more bits more precision
Machine learning Models

```
//ViewController.swift
  import UIKit
  import CoreML
  import Vision

  class ViewController: UIViewController, UIImagePickerControllerDelegate, UINavigationControllerDelegate{
       @IBOutlet weak var imageView: UIImageView!
       @IBOutlet weak var resultLabel: UILabel!

       var chosenImage = CIImage()

        override func viewDidLoad(){
             super.viewDidLoad()
        }

        @IBAction func changeClicked(_ sender: Any){
             let picker = UIImagePickerController()
             picker.delegate = self
             picker.sourceType = .photoLibrary
             present(picker, animated: true, completion: nil)
       }
                                                                   //come with the delegate
       func imagePickerController(_ picker: UIImagePickerController, didFinishPickingMediaWithInfo info:
                [UIImagePickerController.InfoKey: Any]){
            imageView.image = info[.originalImage] as? UIImage
            self.dismiss(animated: true, completion: nil)

             if let ciImage = CIImage(image: imageView.image!){
                  chosenImage = ciImage
             }
             recognizeImage(image: chosenImage)
        }

       func recognizeImage(image: CIImage){
            resultLabel.text = "finding..."                              // 1, request  2, handler
            if let model = try? VNCoreMLModel(for: MobileNetV2().model){
                  let request = VNCoreMLRequest(model: model){(vnrequest, error) in
                        if let results = vnrequest.results as? [VNClassificationObservation]{
                             if result.count > 0{
                                  let topResult = results.first
                                  DispatchQueue.main.async{
                                     let confidenceLevel = (topResult?.confidence ?? 0) * 100
                                     let rounded = Int(confidencelevel * 100)/100
                                    self.resultLabel.text = "\(rounded)% it's \(topResult!.identifier)"

                                  }
                             }
                        }
                  }
                let handler = VNImageRequestHandler(ciImage:image)
                DispatchQueue.global(qos:.userInteractive).async{
                        do{
                          try handler.perform(request)
                        }catch{
                          print("error")
                }       }

            }
        }
}
```