

```
//-----//-----
```

```
import UIKit
```

```
//-----//-----
```

```
class ViewController: UIViewController {
```

```
    @IBOutlet weak var templabel: UILabel!
```

```
    //---
```

```
    @IBOutlet weak var slot_1: UIImageView!
```

```
    @IBOutlet weak var slot_2: UIImageView!
```

```
    @IBOutlet weak var slot_3: UIImageView!
```

```
    @IBOutlet weak var slot_4: UIImageView!
```

```
    @IBOutlet weak var slot_5: UIImageView!
```

```
    //---
```

```
    var card_blur_1: UIImage!
```

```
    var card_blur_2: UIImage!
```

```
    var card_blur_3: UIImage!
```

```
    var card_blur_4: UIImage!
```

```
    var card_blur_5: UIImage!
```

```
    //---
```

```
    @IBOutlet weak var bg_1: UIView!
```

```
    @IBOutlet weak var bg_2: UIView!
```

```
    @IBOutlet weak var bg_3: UIView!
```

```
    @IBOutlet weak var bg_4: UIView!
```

```
    @IBOutlet weak var bg_5: UIView!
```

```
    //---
```

```
    @IBOutlet weak var keep_1: UILabel!
```

```
    @IBOutlet weak var keep_2: UILabel!
```

```
    @IBOutlet weak var keep_3: UILabel!
```

```
    @IBOutlet weak var keep_4: UILabel!
```

```
    @IBOutlet weak var keep_5: UILabel!
```

```
    //---
```

```
    @IBOutlet weak var dealButton: UIButton!
```

```
    @IBOutlet weak var creditsLabel: UILabel!
```

```
    @IBOutlet weak var betLabel: UILabel!
```

```
    //---
```

```
    var arrOfCardImages: [UIImage]!
```

```
    //---
```

```
    var arrOfSlotImageViews: [UIImageView]!
```

```
    //---
```

```
    var deckOfCards = [(Int, String)]()
```

```
    //---
```

```
    var arrOfBackgrounds: [UIView]!
```

```
    //---
```

```
    var arrOfKeepLabels: [UILabel]!
```

```
    //---
```

```
    var permissionToSelectCards = false
```

```
    var bet = 0
```

```
    var credits = 2000
```

```
    //---
```

```
    var chances = 2
```

```
    //---
```

```
    let pokerHands = PokerHands()
```

```
    //---
```

```
    var handToAnalyse = [(0, ""), (0, ""), (0, ""), (0, ""), (0, "")]
```

```
    //---
```

```

var theHand = [(Int, String)]()
//-----//-----
override func viewDidLoad() {
    //---
    super.viewDidLoad()
    //---
    createCardObjectsFromImages()
    //---
    fillUpArrays()
    //---
    prepareAnimations(duration: 0.5,
                      repeating: 5,
                      cards: arrOfCardImages)

    //---
    stylizeSlotImageViews(radius: 10,
                          borderWidth: 0.5,
                          borderColor: UIColor.black.cgColor,
                          bgColor: UIColor.yellow.cgColor)

    //---
    stylizeBackgroundViews(radius: 10,
                           borderWidth: nil,
                           borderColor: UIColor.black.cgColor,
                           bgColor: nil)

    //---
    createDeckOfCards()
    //---
}
//-----//-----
func createDeckOfCards() {
    deckOfCards = [(Int, String)]()
    for a in 0...3 {
        let suits = ["d", "h", "c", "s"]
        for b in 1...13 {
            deckOfCards.append((b, suits[a]))
        }
    }
}
//-----//-----
func stylizeSlotImageViews(radius r: CGFloat,
                           borderWidth w: CGFloat,
                           borderColor c: CGColor,
                           bgColor g: CGColor!) {
    for slotImageView in arrOfSlotImageViews {
        slotImageView.clipsToBounds = true
        slotImageView.layer.cornerRadius = r
        slotImageView.layer.borderWidth = w
        slotImageView.layer.borderColor = c
        slotImageView.layer.backgroundColor = g
    }
}
//-----//-----
func stylizeBackgroundViews(radius r: CGFloat,
                             borderWidth w: CGFloat?,
                             borderColor c: CGColor,

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        bgColor g: CGColor?) {
    for bgView in arrOfBackgrounds {
        bgView.clipsToBounds = true
        bgView.layer.cornerRadius = r
        bgView.layer.borderWidth = w ?? 0
        bgView.layer.borderColor = c
        bgView.layer.backgroundColor = g
    }
}
//-----//-----
func fillUpArrays() {
    arrOfCardImages = [card_blur_1, card_blur_2, card_blur_3, card_blur_4,
        card_blur_5]
    arrOfSlotImageViews = [slot_1, slot_2, slot_3, slot_4, slot_5]
    arrOfBackgrounds = [bg_1, bg_2, bg_3, bg_4, bg_5]
    arrOfKeepLabels = [keep_1, keep_2, keep_3, keep_4, keep_5]
}
//-----//-----
func createCardObjectsFromImages() {
    card_blur_1 = UIImage(named: "blur_1.png")
    card_blur_2 = UIImage(named: "blur_2.png")
    card_blur_3 = UIImage(named: "blur_3.png")
    card_blur_4 = UIImage(named: "blur_4.png")
    card_blur_5 = UIImage(named: "blur_4.png")
}
//-----//-----
func prepareAnimations(duration d: Double,
                        repeating r: Int,
                        cards c: [UIImage]) {
    for slotAnimation in arrOfSlotImageViews {
        slotAnimation.animationDuration = d
        slotAnimation.animationRepeatCount = r
        slotAnimation.animationImages = returnRandomBlurCards(arrBlurCards: c)
    }
}
//-----//-----
func returnRandomBlurCards(arrBlurCards: [UIImage]) -> [UIImage] {
    var arrToReturn = [UIImage]()
    var arrOriginal = arrBlurCards
    for _ in 0..

```

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//---
var allSelected = true
for slotAnimation in arrOfSlotImageViews {
    if slotAnimation.layer.borderWidth != 1.0 {
        allSelected = false
        break
    }
}
if allSelected {
    displayRandomCards()
    return
}
//---
for slotAnimation in arrOfSlotImageViews {
    if slotAnimation.layer.borderWidth != 1.0 {
        slotAnimation.startAnimating()
    }
}
//---
Timer.scheduledTimer(timeInterval: 2.55,
                      target: self,
                      selector: #selector(displayRandomCards),
                      userInfo: nil,
                      repeats: false)
}
//-----//-----
@objc func displayRandomCards() {
    //---
    theHand = returnRandomHand()
    //---
    let arrOfCards = createCards(theHand: theHand)
    //---
    displayCards(arrOfCards: arrOfCards)
    //---
    permissionToSelectCards = true
    //---
    prepareForNextHand()
    //---
}
//-----//-----
func prepareForNextHand() {
    //---
    if chances == 0 {
        permissionToSelectCards = false
        dealButton.alpha = 0.5
        resetCards()
        createDeckOfCards()
        handToAnalyse = [(0, ""), (0, ""), (0, ""), (0, ""), (0, "")]
        chances = 2
        bet = 0
        betLabel.text = "MISE : 0"
    }
    //---
}
}

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//-----//-----
func displayCards(arrOfCards: [String]) {
    //---
    var counter = 0
    for slotAnimation in arrOfSlotImageViews {
        if slotAnimation.layer.borderWidth != 1 {

            if chances == 0 {
                handToAnalyse = removeEmptySlotsAndReturnArray()
                handToAnalyse.append(theHand[counter])
            }
            //---

            slotAnimation.image = UIImage(named: arrOfCards[counter])
        }
        counter = counter + 1
    }
    //---
    if chances == 0 {
        verifyHand(hand: handToAnalyse)
    }
    //---
}

//-----//-----
func removeEmptySlotsAndReturnArray() -> [(Int, String)] {
    var arrToReturn = [(Int, String)]()
    for card in handToAnalyse {
        if card != (0, "") {
            arrToReturn.append(card)
        }
    }
    return arrToReturn
}

//-----//-----
func createCards(theHand: [(Int, String)]) -> [String] {
    //---
    let card_1 = "\(theHand[0].0)\(theHand[0].1).png"
    let card_2 = "\(theHand[1].0)\(theHand[1].1).png"
    let card_3 = "\(theHand[2].0)\(theHand[2].1).png"
    let card_4 = "\(theHand[3].0)\(theHand[3].1).png"
    let card_5 = "\(theHand[4].0)\(theHand[4].1).png"
    return [card_1, card_2, card_3, card_4, card_5]
    //---
}

//-----//-----
func returnRandomHand() -> [(Int, String)] {
    //---
    var arrToReturn = [(Int, String)]()
    //---
    for _ in 1...5 {
        let randomIndex = Int(arc4random_uniform(UInt32(deckOfCards.count)))
        arrToReturn.append(deckOfCards[randomIndex])
        deckOfCards.remove(at: randomIndex)
    }
}

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    //---
    return arrToReturn
    //---
}
//-----//-----
func verifyHand(hand: [(Int, String)]) {
    if pokerHands.royalFlush(hand: hand) {
        calculateHand(times: 250, handToDisplay: "QUINTE FLUSH ROYALE")
    } else if pokerHands.straightFlush(hand: hand) {
        calculateHand(times: 50, handToDisplay: "QUINTE FLUSH")
    } else if pokerHands.fourKind(hand: hand) {
        calculateHand(times: 25, handToDisplay: "CARRÉ")
    } else if pokerHands.fullHouse(hand: hand) {
        calculateHand(times: 9, handToDisplay: "FULL")
    } else if pokerHands.flush(hand: hand) {
        calculateHand(times: 6, handToDisplay: "COULEUR")
    } else if pokerHands.straight(hand: hand) {
        calculateHand(times: 4, handToDisplay: "QUINTE")
    } else if pokerHands.threeKind(hand: hand) {
        calculateHand(times: 3, handToDisplay: "BRELAN")
    } else if pokerHands.twoPairs(hand: hand) {
        calculateHand(times: 2, handToDisplay: "DEUX PAIRES")
    } else if pokerHands.onePair(hand: hand) {
        calculateHand(times: 1, handToDisplay: "PAIRE")
    } else {
        calculateHand(times: 0, handToDisplay: "RIEN...")
    }
}
//-----//-----
func calculateHand(times: Int, handToDisplay: String) {
    credits += (times * bet)
    templabel.text = handToDisplay
    creditsLabel.text = "CRÉDITS: \(credits)"
}
//-----//-----
@IBAction func cardsToHold(_ sender: UIButton) {
    //---
    if !permissionToSelectCards {
        return
    }
    //---
    if arrOfBackgrounds[sender.tag].layer.borderWidth == 0.5 {
        arrOfSlotImageViews[sender.tag].layer.borderWidth = 0.5
        arrOfBackgrounds[sender.tag].layer.borderWidth = 0.0
        arrOfBackgrounds[sender.tag].layer.backgroundColor = nil
        arrOfKeepLabels[sender.tag].isHidden = true
        //---
        manageSelectedCards(theTag: sender.tag, shouldAdd: false)
    } else {
        arrOfSlotImageViews[sender.tag].layer.borderWidth = 1.0
        arrOfBackgrounds[sender.tag].layer.borderWidth = 0.5
        arrOfBackgrounds[sender.tag].layer.borderColor = UIColor.blue.cgColor
        arrOfBackgrounds[sender.tag].layer.backgroundColor = UIColor(red: 0.0,
            green: 0.0, blue: 1.0, alpha: 0.5).CGColor
    }
}

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        arrOfKeepLabels[sender.tag].isHidden = false
        //---
        manageSelectedCards(theTag: sender.tag, shouldAdd: true)
    }
}
//-----//-----
func manageSelectedCards(theTag: Int, shouldAdd: Bool) {
    if shouldAdd {
        handToAnalyse[theTag] = theHand[theTag]
    } else {
        handToAnalyse[theTag] = (0, "")
    }
}
//-----//-----
@IBAction func betButtons(_ sender: UIButton) {
    //---
    if chances <= 1 {
        return
    }
    //---
    tempLabel.text = ""
    //---
    if sender.tag == 1000 {
        bet = credits
        betLabel.text = "MISE : \(bet)"
        credits = 0
        creditsLabel.text = "CRÉDITS : \(credits)"
        dealButton.alpha = 1.0
        resetBackOfCards()
        return
    }
    //---
    let theBet = sender.tag
    //---
    if credits >= theBet {
        bet += theBet
        credits -= theBet
        betLabel.text = "MISE : \(bet)"
        creditsLabel.text = "CRÉDITS : \(credits)"
        dealButton.alpha = 1.0
    }
    //---
    resetBackOfCards()
    //---
}
//-----//-----
func resetBackOfCards() {
    for back in arrOfSlotImageViews {
        back.image = UIImage(named: "back.png")
    }
}
//-----//-----
func resetCards() {
    //---

```

```

    for index in 0...4 {
        arrOfSlotImageViews[index].layer.borderWidth = 0.5
        arrOfBackgrounds[index].layer.borderWidth = 0.0
        arrOfBackgrounds[index].layer.backgroundColor = nil
        arrOfKeepLabels[index].isHidden = true
    }
    //---
    chances = 2
    //---
}
//-----//-----
}
//-----//-----

```