

Developing a Bidding Kiosk for iOS in Swift

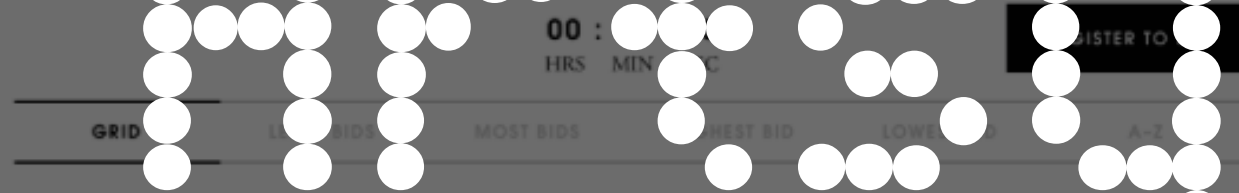
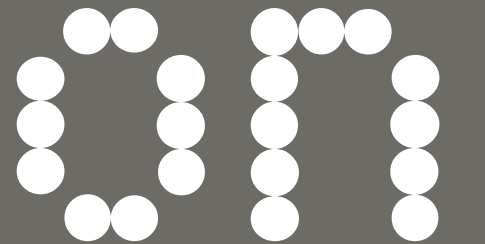
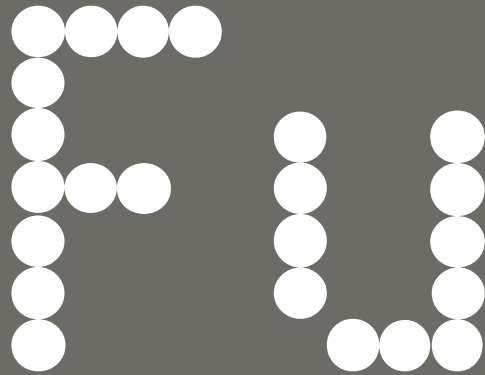
- About Us
- Artsy Open-Source
- Artsy Public API
- Join the Artsy Engineering Team

In the Summer of 2014, we began developing a bidding kiosk for the Artsy auctions platform (code-named Eidolon). Typically, the iOS team here at Artsy worked on two main apps: a consumer-facing iPhone app and an iPad app used by art galleries. For Eidolon, we followed Artsy's standard practices for building our software and use GitHub issues as our canonical source of truth for bugs and feature requests. Many of the components used in our apps are open source, but our codebases themselves remain in private repositories.

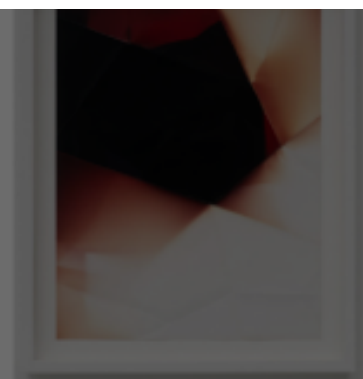
Initial planning for Eidolon began over the Summer. Our design Katrina and the main features sketched out. I was scheduled to work on it first with Katrina and Laura joining me at the end of the project. We had a rough scope: the kiosk would be able to display artworks at an auction and allow prospective bidders to learn more about these artworks. The user would be able to register to bid and place bids using the Kiosk, including credit card processing for identity-checking.

RECENT POSTS

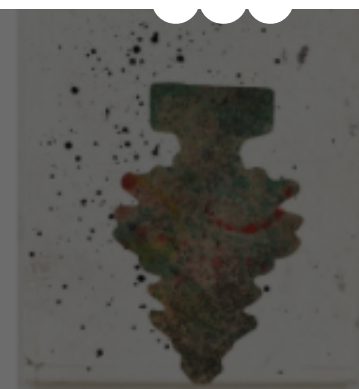
- Developing a Bidding Kiosk for iOS in Swift
- How we customized Google Site Search at Artsy
- Launching a Security Bug Bounty Program at Artsy
- Using Pattern Recognition to Automatically Crop Framed Art
- Transparent Prerequisite Network



John Baldessari
Sediment: Hair and Goose, 2013
 Estimate: \$45,000



Walead Beshty
Two Sided Picture (YR), January 12th...
 Estimate: \$10,000
 Current Bid: \$8,500 0 bids placed



Nate Lowman
January Tree, 2013
 Estimate: \$35,000

[Blog Archive](#)























































SEARCH

Artsy

OS5 by Default

Kiosk



	Adam Brando (213) \$650
	Gael Albert Halperin (212) \$200
	Leslie Alexander (212) \$400
	Thomas Allen (212) \$950
	Jonathan Alford (212) \$350
	Michael Anderson (212) \$400
	Eun Byul (212) \$200
	Natalie Barber (212) \$300
	Oliver Bee (212) \$500
	Chris Beck (212) \$200
	Elaine Carrick (212) \$300
	Elizabeth Chik (212) \$300
	Walter Chin (212) \$250
	Nicholas Choi (212) \$200
	John Choi (212) \$350
	Barbara Crane (212) \$300
	Christina De Me (212) \$350
	Joe Kushner (212) \$250
	Bruce Davidson (212) \$2,200
	Iain Davis (212) \$1,600
	Doug DeLoe (212) \$200
	Charlotte Dumas (212) \$200
	Michael Dwyer (212) \$1,050
	Amy Elliott (212) \$450
	Laura Fink (212) \$700
	Brian Fink (212) \$350
	Lucy Foglia (212) \$400
	Eli S. Gold (212) \$400
	Isaac Gade (212) \$275
	Ron Gidella (212) \$600
	Henry Gortun (212) \$200
	Lucy Gorton (212) \$650
	Gus (212) \$1,500
	Jim Goldberg (212) \$2,000
	Daniel Gordon (212) \$200
	Megan Gotham (212) \$200
	John Gowatz (212) \$350
	George Grant (212) \$300
	Bob Green (212) \$867
	Gregory Halperin (212) \$200
	Rob Ham (212) \$300
	Andrew Herbert (212) \$200
	Anom Hays (212) \$200
	Helen & Melan (212) \$400
	Henry Jacobson (212) \$200
	Samuel Johan (212) \$300
	Daniel Kramer (212) \$400
	Barney Kulok (212) \$250
	Colleen Laid (212) \$650
	Steve Laid (212) \$200
	Eric Laid (212) \$350
	Sweet Lipp (212) \$200
	Jon Lowenstein (212) \$300
	Alex Labornax (212) \$400
	Kurt Markov (212) \$250
	Martin Parr (212) \$750
	Flane Mayes (212) \$250



ARTSY

05 : 05 : 18
HRS MIN SEC



Adam Broomberg & Oliver C...
Reverend's Ark for the set of Catch-22, fl...
No Estimate

Current bid: \$650

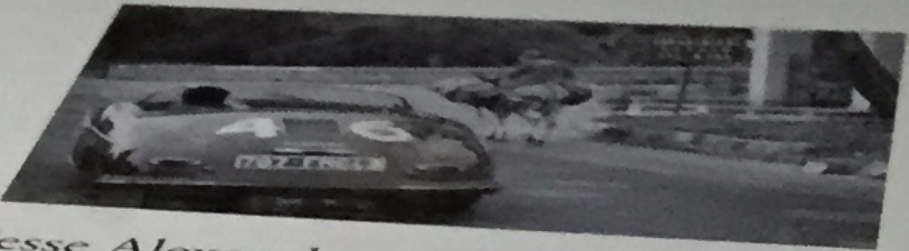
6 bids placed



Gail Albert Halaban
Zoe as Audrey, 2011
No Estimate

Current bid: \$200

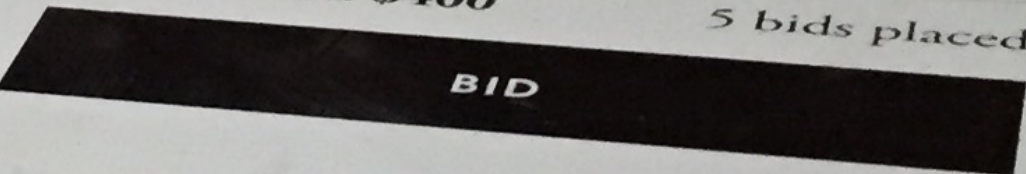
1 bid placed



Jesse Alexander
Sicily, 1957
No Estimate


Current bid: \$400


5 bids placed



Timeline ashfurrow

Ash Furrow is following you.





Ash Furrow
@ashfurrow Unfollow

iOS Developer at @artsy. Author. Feminist. Film photographer. Co-host of @defaultCenter.

Amsterdam	http://ashfurrow.com
Followers 5,141	Following 596
Tweets 39,959	Listed 323

Twitter User #15,536,268. Member Since July 2008.

Messages @ Star More

Ash Furrow @ashfurrow 14m
On the bright side (heh), I've been sleeping a lot better, despite timezone-hopping every few weeks.
Weesperzijde, Amsterdam

Ash Furrow @ashfurrow 15m
Looking through some Autumn photos.
"Wow these colours are fantastic!"

notices f.lux is on

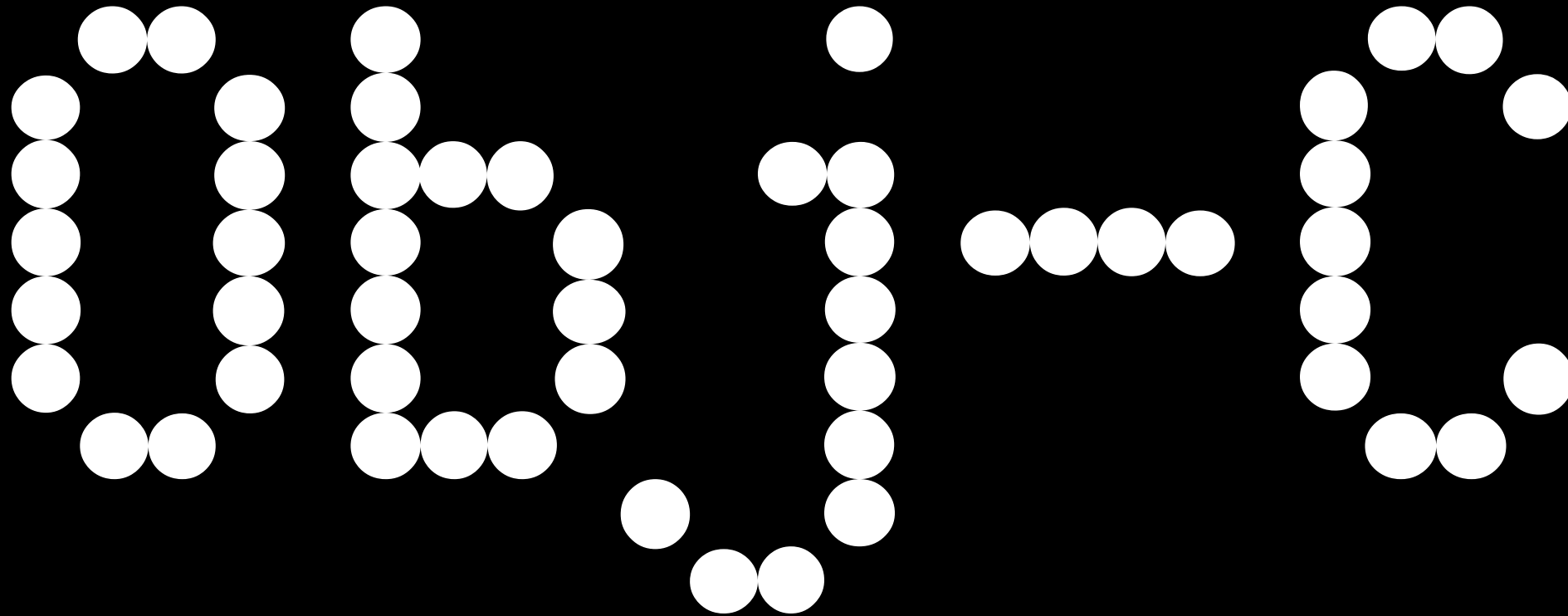
sad face
Weesperzijde, Amsterdam

Ash Furrow @ashfurrow 19m
@sebreh @orta @artsy Glad we could help :)
Weesperzijde, Amsterdam

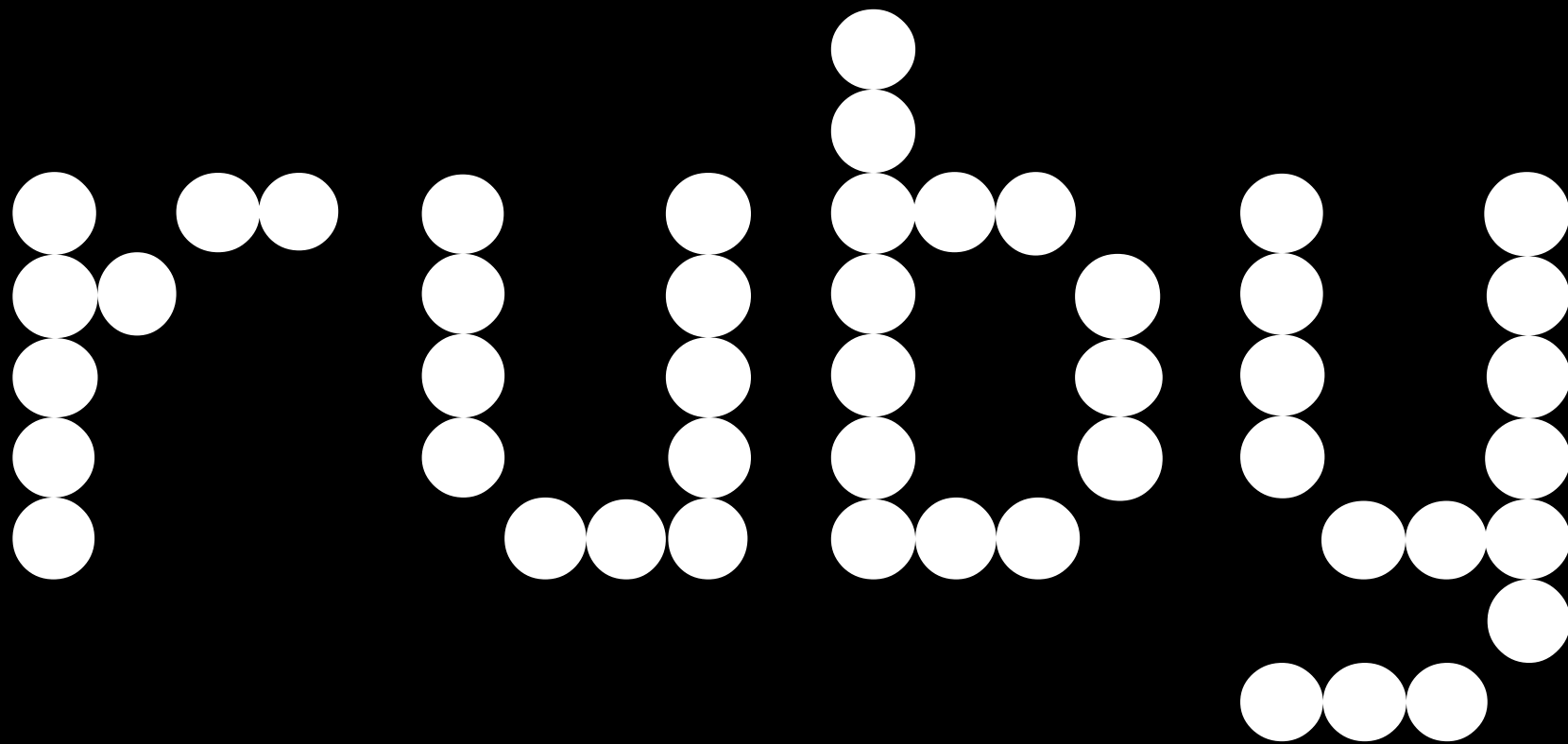
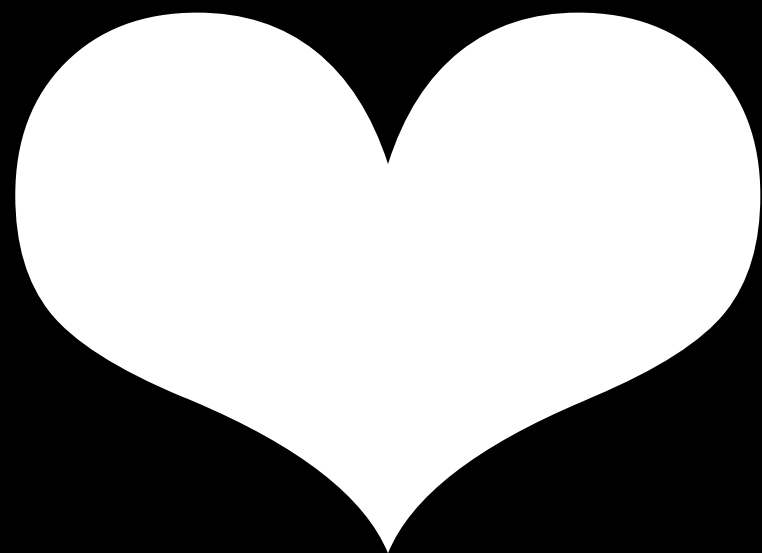
@orta

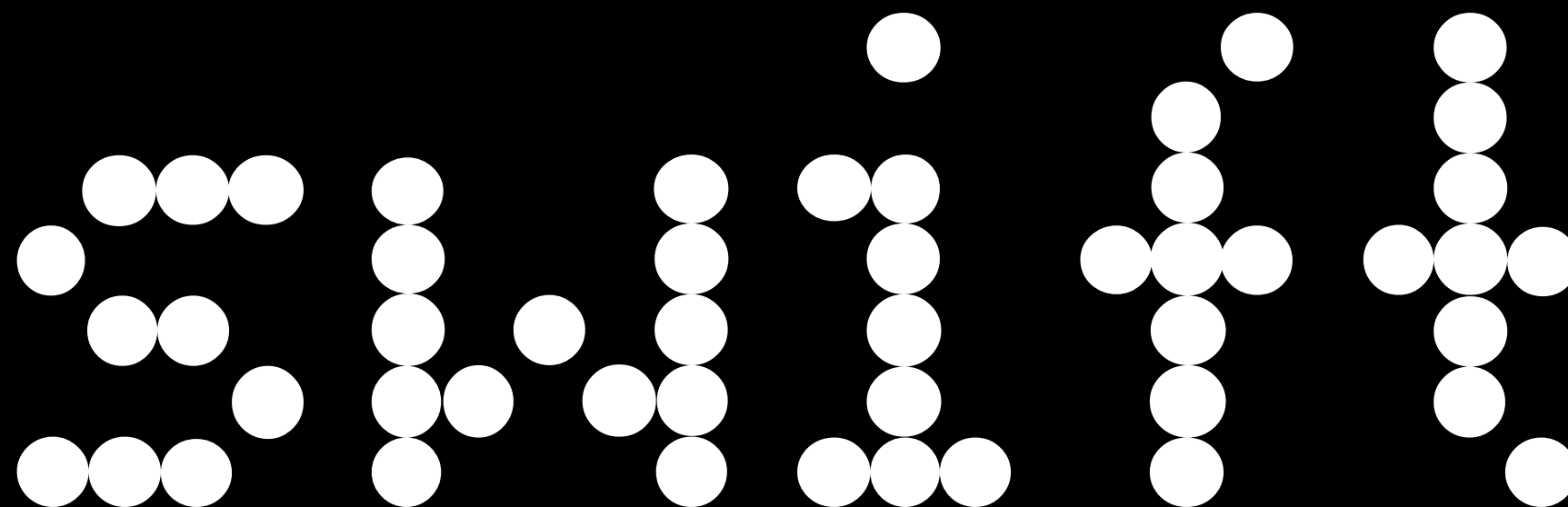
Eidolon

I ♥ languages

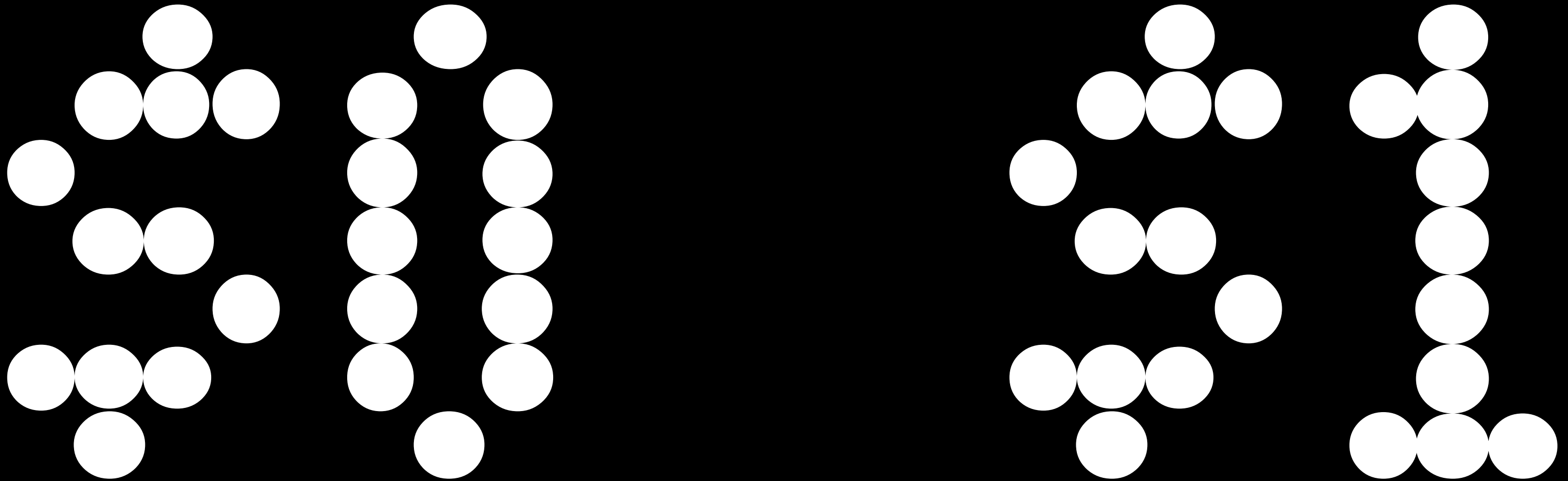


```
//  
// main.m  
// snapshots  
//  
// Created by orta therox on 15/12/2007.  
// Copyright __MyCompanyName__ 2007 . All rights reserved.  
//
```

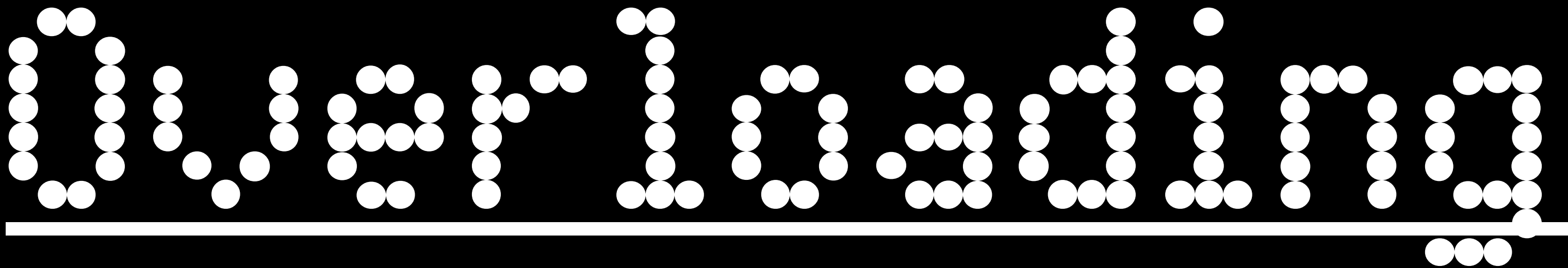




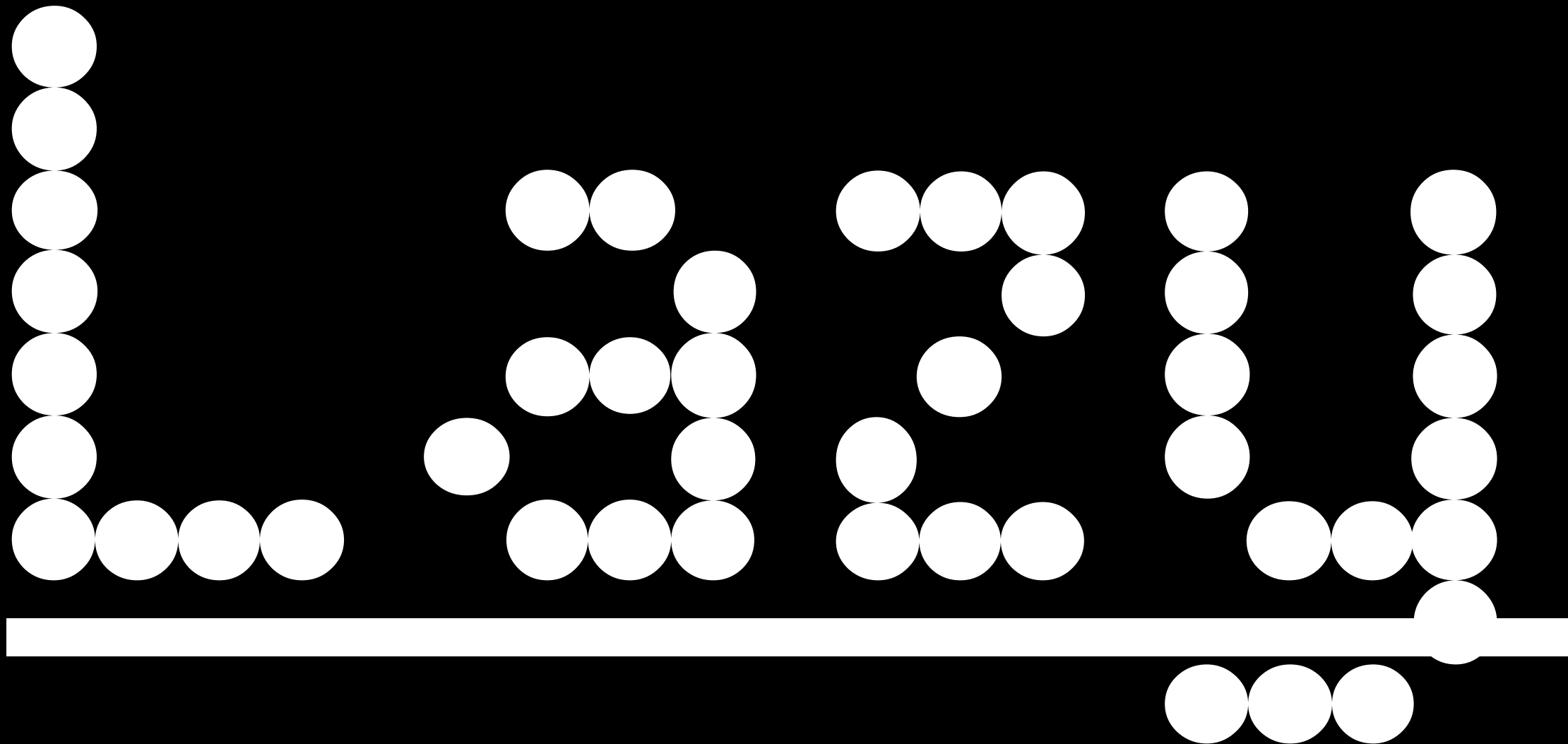
adidaisy



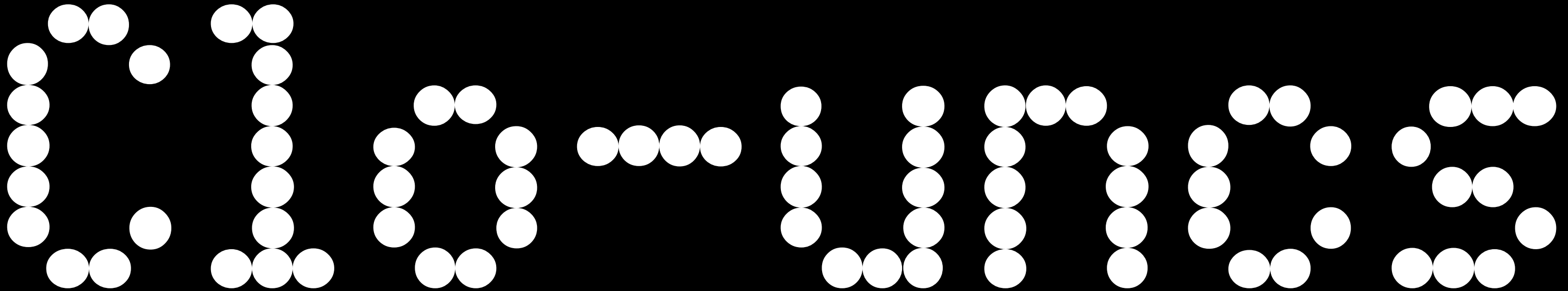
```
// Add subviews  
cellSubviews.map{ self.contentView.addSubview($0) }
```



```
public func ==(lhs: UIStoryboardSegue, rhs: SegueIdentifier) -> Bool {  
    return lhs.identifier == rhs.rawValue  
}  
  
override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {  
    if segue == .ShowSaleArtworkDetails {  
        let saleArtwork = sender as SaleArtwork!  
        ...  
    }  
}
```

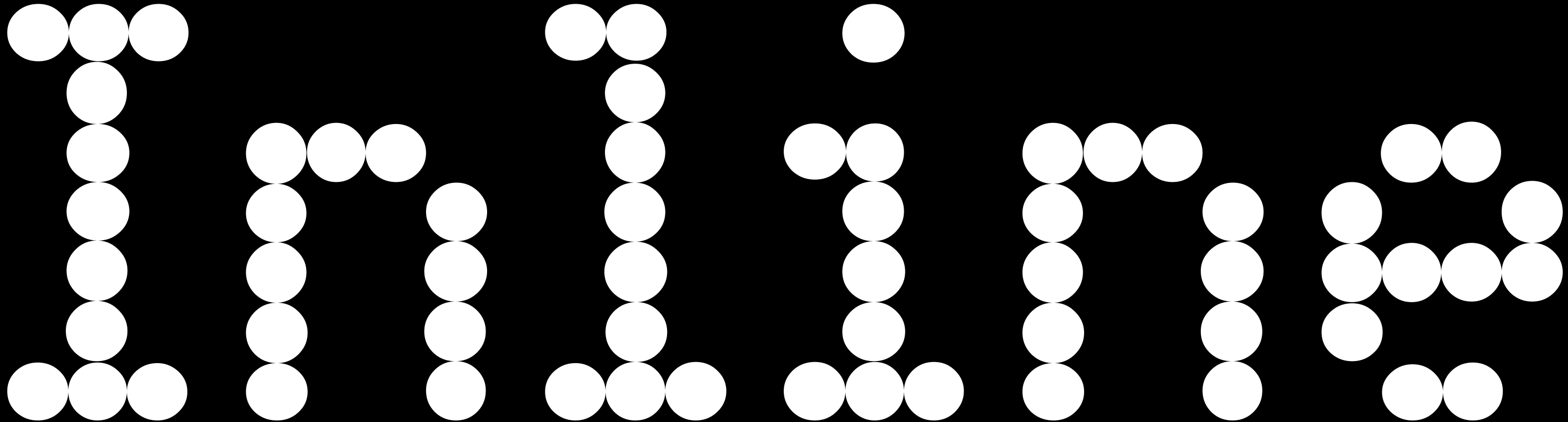
```
lazy var keypadSignal:RACSignal! = self.keypadContainer.keypad?.keypadSignal
lazy var clearSignal:RACSignal! = self.keypadContainer.keypad?.rightSignal
lazy var deleteSignal:RACSignal! = self.keypadContainer.keypad?.leftSignal
lazy var provider:ReactiveMoyaProvider<ArtsyAPI> = Provider.sharedProvider
```



```
func isZeroLengthString(string:AnyObject!) -> AnyObject! {  
    return countElements(string as String) == 0  
}
```

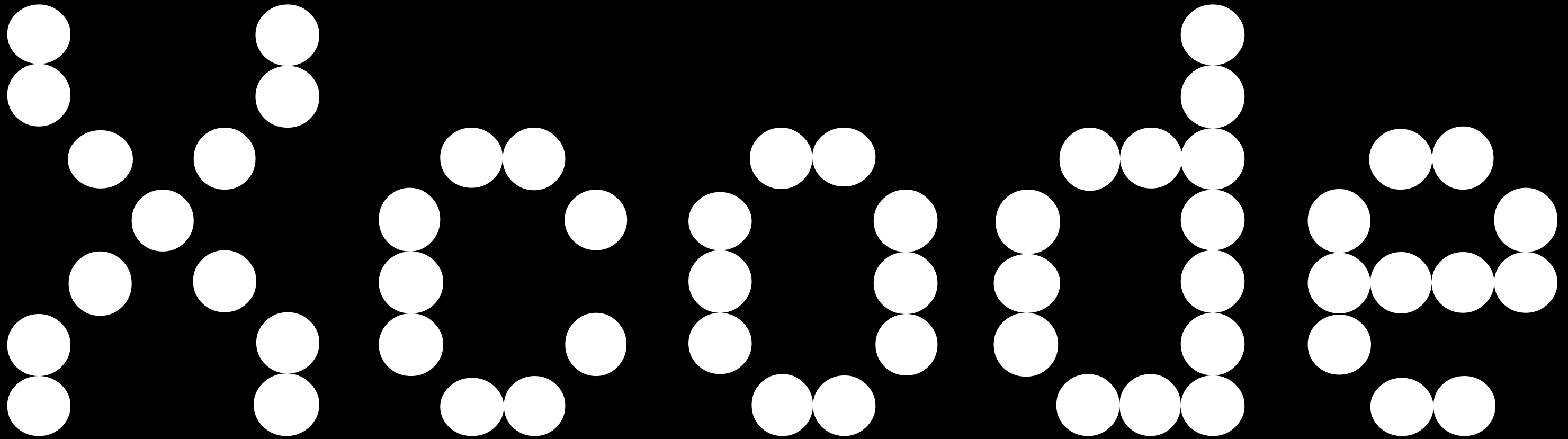
...

```
let numberIsValidSignal = RACObserve(bidDetails.newUser, "phoneNumber").map(isZeroLengthString)  
RAC(confirmButton, "enabled") <~ numberIsValidSignal.notEach()
```



```
@IBOutlet var bidButton: Button!  
@IBAction func bidButtonTapped(sender: AnyObject) {  
    let identifier = hasAlreadyPlacedABid ? SegueIdentifier.PlaceAnotherBid : SegueIdentifier.ConfirmBid  
    performSegue(identifier)  
}
```

Language Coupling



```

: [Image]?

dateString: String, title: String, titleAndDate: NSAttributedString, price: String, date: String) {

    dateString = dateString
    title = title
    titleAndDate = titleAndDate
    price = price
    date = date

    func fromJSON(json: [String: AnyObject]) -> JSONable {
        let json = json

        let id = json["id"].stringValue
        let title = json["title"].stringValue
        let date = json["date"].stringValue
        let price = json["price"].stringValue
        let date = json["date"].stringValue
        let titleAndDate = NSAttributedString(title, dateString)

        let artwork = Artwork(id: id, dateString: dateString, title: title, titleAndDate: titleAndDate, price: price,
                               date: date)

        let additionalInfo = json["additional_information"].string
        let medium = json["medium"].string
        let blurb = json["blurb"].string

        let artistDictionary = json["artist"].object as? [String: AnyObject] {
            let artists = [Artist.fromJSON(artistDictionary) as Artist]

            let imageDictionaries = json["images"].object as? Array<Dictionary<String, AnyObject>> {
                let images = imageDictionaries.map({ return Image.fromJSON($0) as Image })

                let dimensions = json["dimensions"].dictionary {
                    let dimensions = ["in", "cm"].reduce([String](), combine: { (array, key) -> [String] in
                        let dimension = dimensions[key]?.string {
                            return array + [dimension]
                        }
                    })
                    return array + [dimension]
                }
            }
        }
    }
}

```

```

27 reader.delegate = self,
28 reader.swipeTimeoutDuration(0)
29 cardSwipedSignal.sendNext("Started searching");
30 }
31
32 func end() {
33     reader.cancelSwipeWithMessage(nil)
34     reader = nil
35 }
36
37 func readerCardResponse(card: CFTCard?, withError error: NSError?) {
38     if let card = card {
39         self.card = card;
40         cardSwipedSignal.sendNext("Got Card")
41
42         card.tokenizeCardWithSuccess({ () -> Void in
43             self.cardSwipedSignal.sendCompleted()
44             logger.error("Card was tokenized")
45
46         }, failure: { (error) -> Void in
47             self.cardSwipedSignal.sendNext("Card Flight Failed")
48             logger.error("Card was not tokenizable")
49         })
50     }
51
52     } else if let error = error {
53         self.cardSwipedSignal.sendNext("response Error")
54         logger.error("CardReader got a response it can't handle")
55     }
56 }
57
58 }
59
60 }
61
62 }
63
64 }
65
66 }
67
68 }
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71
72 }
73
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94 }
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98 }
99
100 }

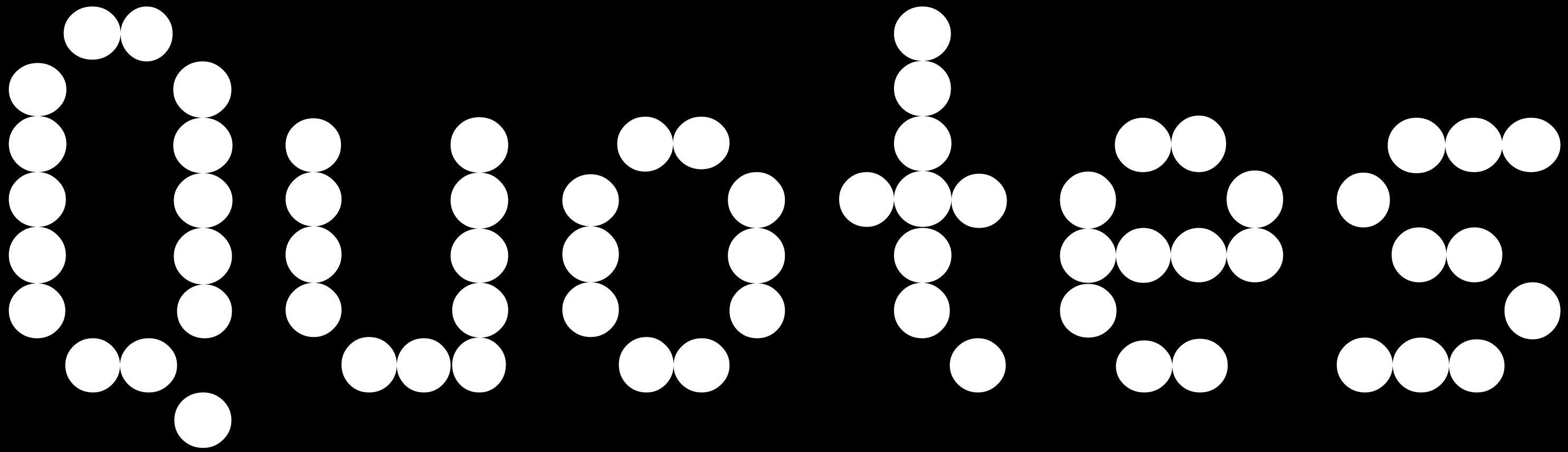
```

```

ManualCreditCardInputViewController.swift
ManualCreditCardInputViewController.swift

4 let finishedSignal = RACSubject()
5
6 var balancedHandler: BalancedManager!
7
8 @IBOutlet weak var cardNumberTextField: TextField!
9 @IBOutlet weak var expirationMonthTextField: TextField!
10 @IBOutlet weak var expirationYearTextField: TextField!
11
12 @IBOutlet weak var expirationDateWrapperView: UIView!
13 @IBOutlet weak var cardNumberWrapperView: UIView!
14 @IBOutlet weak var errorLabel: UILabel!
15
16
17 dynamic var cardName = ""
18 dynamic var cardLastDigits = ""
19 dynamic var cardToken = ""
20
21 dynamic var cardFullDigits = ""
22 dynamic var expirationMonth = ""
23 dynamic var expirationYear = ""
24
25
26
27
28
29
30
31
32
33
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35
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99
100

```



In just six months, Swift's high performance and clean syntax have made it the most popular way to find out that SourceKitService Terminated

— @Horse_105

↗ https://twitter.com/Horse_105/status/533027167488454656

There is so much you cannot do with Swift, my code is
littered with @objc, NSObject and a whole load more
legacy #SwiftLang

— @ColinEberhardt - (Shinobi Controls)

↗ <https://twitter.com/ColinEberhardt/status/531506177180700673>

I started looking at Swift today and I've restarted the playground at least 20 times in the past hour.

Hard to get excited about this...

— @chockenberry - (Twitterrific.app)

✓✓ <https://twitter.com/chockenberry/status/532270455537692672>

I'm getting multiple SourceKitService crashed for every line I write in this Swift project. This stuff is far from ready...

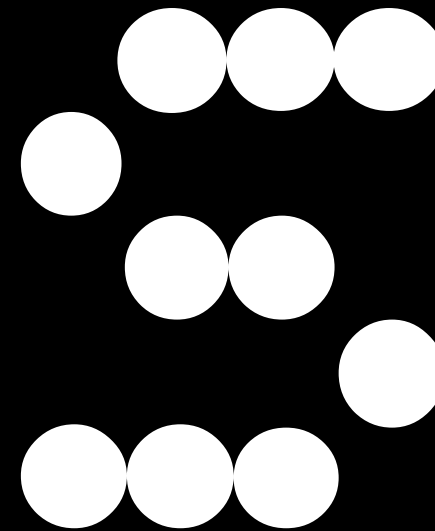
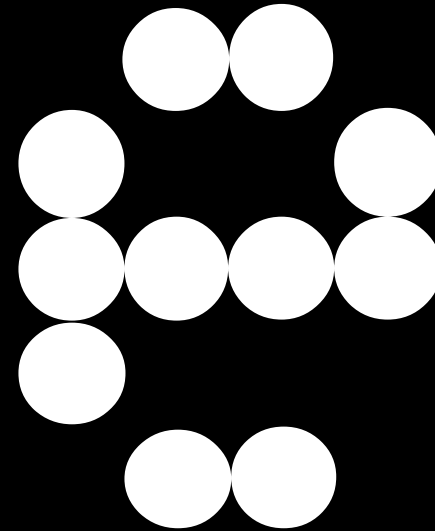
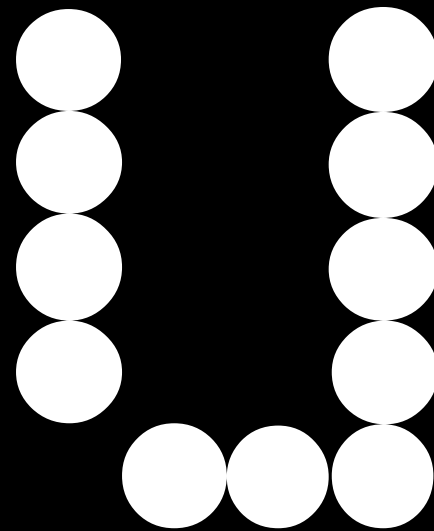
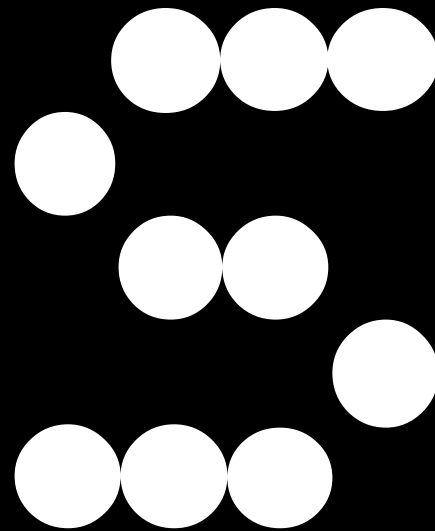
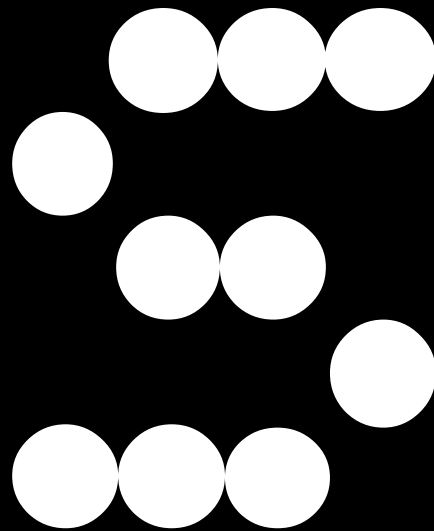
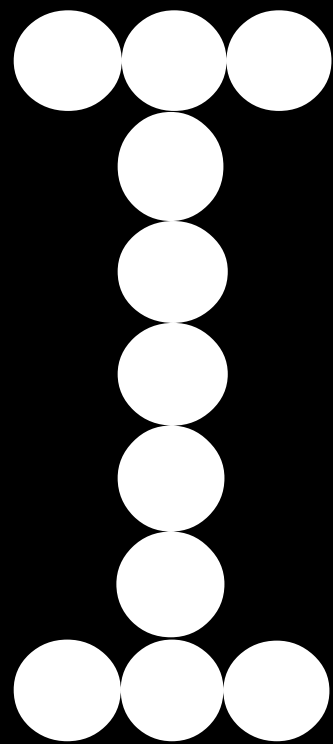
— @pieteromvlee - (Sketch.app) Pom!

// <https://twitter.com/pieteromvlee/status/531534471708020736>

For all the crap I give #swift, the syntax is still much nicer than ObjC. Hopefully the expressiveness of ObjC is brought quickly.

— @owensd - (MS Office)

// <https://twitter.com/owensd/status/524972593774743553>



complicated

Lib Code Signing

Git Submodules

No Incremental Builds

Code

Signaling

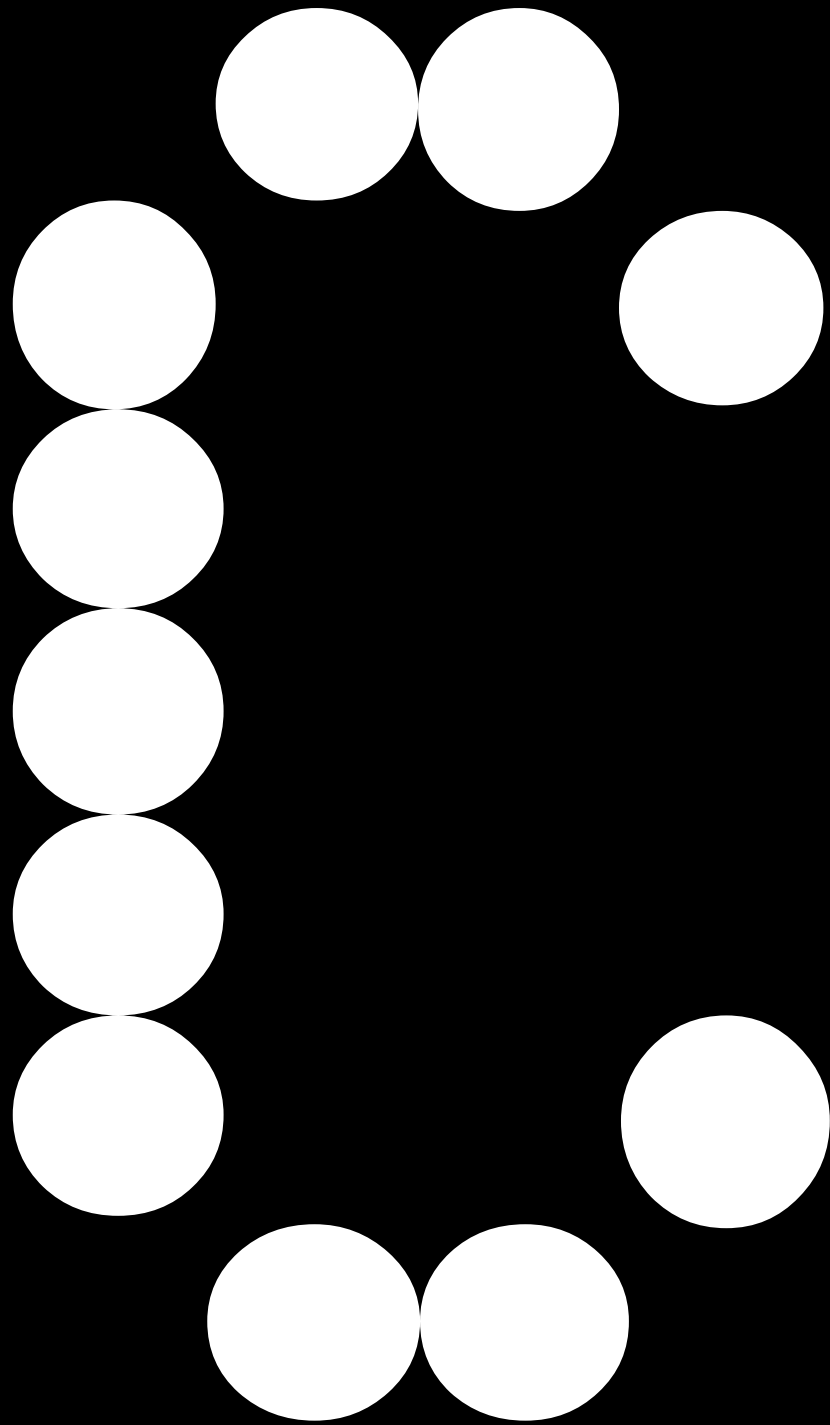
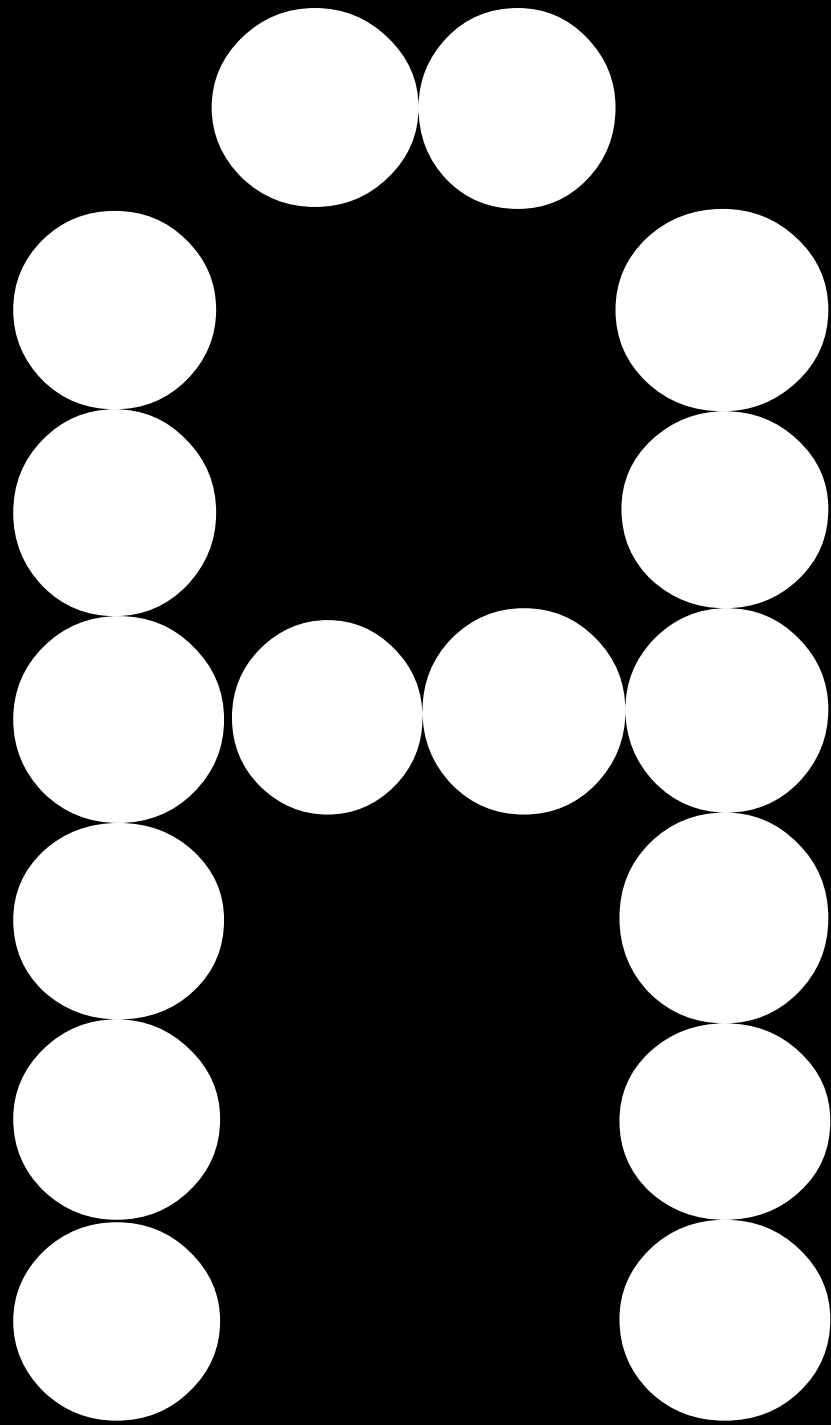
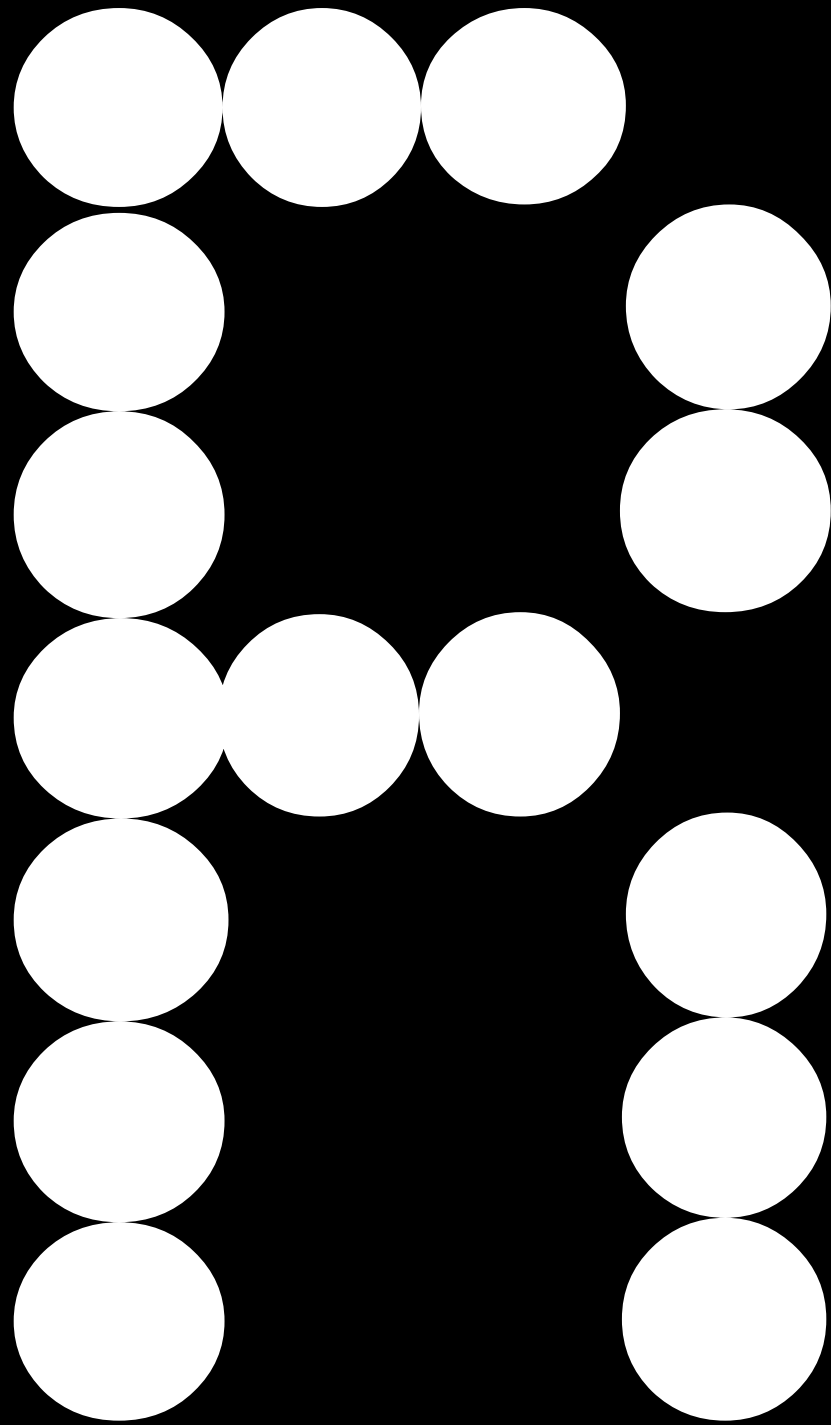
Final rounds

No

Pen

Files

Stack Trace



Suifu + PAC

```
func waitForBidResolution () -> RACSignal {
    return self.pollForUpdatedSaleArtwork().then { [weak self] (_) in
        return self == nil ? RACSignal.empty() : self!.checkForMaxBid()
    } .doNext { _ in
        self.bidIsResolved = true
        return

        // If polling fails, we can still show bid confirmation. Do not error.
    } .catchTo( RACSignal.empty() )
}
```

src


```
bidderNetworkModel.createOrGetBidder().doError { (error) -> Void in
    self.bidderError()
} .then {
    if !self.placingBid {
        ARAnalytics.event("Registered New User Only")
        return RACSignal.empty()
    }

    ARAnalytics.event("Started Placing Bid")
    return self.placeBid()
} .then { [weak self] (_) in
    if self == nil { return RACSignal.empty() }

    self?.bidCheckingModel = self?.bidCheckingModel ?? self?.createBidCheckingModel()
    if self?.placingBid == false { return RACSignal.empty() }

    return self!.bidCheckingModel.waitForBidResolution()
} .subscribeCompleted { [weak self] (_) in
    self?.finishUp()
    return
}
```



Project Navigator showing the file structure of the 'Kiosk' project. The 'Models' folder is selected, and the 'KioskTests.xctest' target is visible under 'Products'.

- Kiosk (2 targets, iOS SDK 8.1)
 - CHANGELOG.md
 - Kiosk.playground
 - Docs
 - Submodules
 - Categories
 - App
 - Card Handling
 - Extensions
 - Models
 - Networking
 - Views
 - APIPingManager.swift
 - AppDelegate.swift
 - AppDelegate+GlobalActions.swift
 - AppSetup.swift
 - AppViewController.swift
 - Constants.swift
 - GlobalFunctions.swift
 - ReachabilityManager.swift
 - ReactiveCocoaBindings.swift
 - MarkdownParser.swift
 - Storyboards + Nibs
 - Admin
 - Auction Listings
 - Help
 - Auction List
 - Sale Artwork Details
 - UIViewController+Bidding.swift
 - Bid Fulfillment
 - Stubbed Responses
 - Supporting Files
 - KioskTests
 - Products
 - Kiosk.app
 - KioskTests.xctest
 - Frameworks
 - Pods
 - Podfile
 - Frameworks
 - Pods
 - ARAnalytics
 - ARCollectionViewMasonryLayout
 - ARTiledImageView
 - Artsy+UIColors
 - Artsy+UIFonts
 - Artsy+UILabels
 - Artsy-UIButtons
 - CardFlight
 - DZNWebViewController
 - ECPhoneNumberFormatter
 - EDColor
 - FBSnapshotTestCase
 - FLKAutoLayout
 - HockeySDK
 - ISO8601DateFormatter
 - Mixpanel
 - NJKWebViewProgress
 - ORStackView
 - Reachability
 - SDWebImage
 - UIImageViewAligned
 - XNGMarkdownParser
 - balanced-ios
 - fmemopen
 - Targets Support Files
 - Keys

```

826 // MARK: - Printable
827
828
829 extension Request: Printable {
830     public var description: String {
831         var components: [String] = []
832         if self.request.HTTPMethod != nil {
833             components.append(self.request.HTTPMethod!)
834         }
835     }
836
837     components.append(self.request.URL!.absoluteString)
838
839     if self.response != nil {
840         components.append("\(self.response.statusCode)")
841     }
842
843     return join(" ", components)
844 }
845
846 extension Request: DebugPrintable {
847     func cURLRepresentation() -> String {
848         var components: [String] = ["$ curl -X \(self.request.HTTPMethod) \(self.request.URL.absoluteString)"]
849
850         if self.request.HTTPMethod != nil {
851             components.append("-X \(self.request.HTTPMethod)")
852         }
853
854         if let credentialStorage = self.request.credentialStorage {
855             let protectionSpace = NSURLProtectionSpace(
856                 URL.scheme!, realm: URL.host!, port: nil,
857                 protocol: self.request.URL.scheme!,
858                 authenticationMethod: NSURLProtectionSpaceAuthenticationMethodDefault)
859             if let credentials = credentialStorage.credentials(for: protectionSpace) {
860                 if !credentials.isEmpty {
861                     if let credential = credentials.first {
862                         components.append("-u \(credential.username):\(credential.password)")
863                     }
864                 }
865             }
866         }
867
868         if let cookieStorage = self.session.configuration.cookieStorage {
869             if let cookies = cookieStorage.cookies {
870                 if !cookies.isEmpty {
871                     let string = cookies.stringRepresentation()
872                     components.append("-b \(string)")
873                 }
874             }
875         }
876
877         for (field, value) in self.request.allHTTPHeaderFields ?? [:] {
878             switch field {
879             case "Cookie":
880                 continue
881             default:
882                 components.append("-H \(field): \(value)")
883             }
884         }
885
886         if let HTTPBody = self.request.HTTPBody {
887             components.append("-d \(NSData(base64EncodedString: HTTPBody.base64EncodedData(), options: NSData.Base64EncodingOptions(rawValue: 0)))")
888         }
889
890         // TODO: -T arguments for files
891
892         components.append("\n\(URL.absoluteString)")
893
894         return join(" \\n\t", components)
895     }
896
897     public var debugDescription: String {
898         return self.cURLRepresentation()
899     }
900 }
901
902 // MARK: - Response Serializers
903
904 // MARK: String

```

```

21 -[RACDynamicSignal subscribe:]
22 __31-[RACSignal(Operations) defer:]_block_invoke
23 __30-[RACDynamicSignal subscribe:]_block_invoke
24 -[RACSubscriptionScheduler schedule:]
25 -[RACDynamicSignal subscribe:]
26 __31-[RACSignal(RACStream) concat:]_block_invoke152
27 -[RACSubscriber sendCompleted:]
28 -[RACPassthroughSubscriber sendCompleted:]
29 __29-[RACSignal(RACStream) bind:]_block_invoke_2
30 __29-[RACSignal(RACStream) bind:]_block_invoke135
31 -[RACSubscriber sendCompleted:]
32 -[RACPassthroughSubscriber sendCompleted:]
33 -[RACPassthroughSubscriber sendCompleted:]
34 __29-[RACSignal(RACStream) bind:]_block_invoke_2
35 __29-[RACSignal(RACStream) bind:]_block_invoke135
36 -[RACSubscriber sendCompleted:]
37 -[RACPassthroughSubscriber sendCompleted:]
38 __27-[RACSubject sendCompleted:]_block_invoke
39 -[RACSubject enumerateSubscribersUsingBlock:]
40 -[RACSubject sendCompleted:]
41 -[RACPassthroughSubscriber sendCompleted:]
42 __29-[RACSignal(RACStream) bind:]_block_invoke_2
43 __29-[RACSignal(RACStream) bind:]_block_invoke135
44 -[RACSubscriber sendCompleted:]
45 __29-[RACReturnSignal subscribe:]_block_invoke
46 -[RACSubscriptionScheduler schedule:]
47 -[RACReturnSignal subscribe:]
48 -[RACSignal(Subscription) subscribeNext:error:completed:]
49 __29-[RACSignal(RACStream) bind:]_block_invoke
50 __30-[RACDynamicSignal subscribe:]_block_invoke
51 -[RACSubscriptionScheduler schedule:]
52 -[RACDynamicSignal subscribe:]
53 -[RACMulticastConnection connect:]
54 __39-[RACSignal(Operations) switchToLatest:]_block_invoke
55 __30-[RACDynamicSignal subscribe:]_block_invoke
56 -[RACSubscriptionScheduler schedule:]
57 -[RACDynamicSignal subscribe:]
58 -[RACSignal(Subscription) subscribeNext:error:completed:]
59 __29-[RACSignal(RACStream) bind:]_block_invoke
60 __30-[RACDynamicSignal subscribe:]_block_invoke
61 -[RACSubscriptionScheduler schedule:]
62 -[RACDynamicSignal subscribe:]
63 -[RACSignal(Subscription) subscribeNext:error:completed:]
64 __31-[RACSignal(RACStream) concat:]_block_invoke
65 __30-[RACDynamicSignal subscribe:]_block_invoke
66 -[RACSubscriptionScheduler schedule:]
67 -[RACDynamicSignal subscribe:]
68 -[RACSignal(Subscription) subscribeNext:error:completed:]
69 __29-[RACSignal(RACStream) bind:]_block_invoke
70 __30-[RACDynamicSignal subscribe:]_block_invoke
71 -[RACSubscriptionScheduler schedule:]
72 -[RACDynamicSignal subscribe:]
73 -[RACSignal(Subscription) subscribeNext:error:completed:]
74 __31-[RACSignal(Operations) catch:]_block_invoke
75 __30-[RACDynamicSignal subscribe:]_block_invoke
76 -[RACSubscriptionScheduler schedule:]
77 -[RACDynamicSignal subscribe:]
78 -[RACSignal(Subscription) subscribeNext:error:completed:]
79 __35-[RACSignal(Operations) takeUntil:]_block_invoke
80 __30-[RACDynamicSignal subscribe:]_block_invoke
81 -[RACSubscriptionScheduler schedule:]
82 -[RACDynamicSignal subscribe:]
83 -[RACSignal(Subscription) subscribeNext:error:completed:]
84 __29-[RACSignal(RACStream) bind:]_block_invoke88
85 __29-[RACSignal(RACStream) bind:]_block_invoke125
86 -[RACSubscriber sendNext:]
87 -[RACPassthroughSubscriber sendNext:]

```



Inspector panel showing details for the selected file 'Alamofire.swift'. It includes information about the file's location, encoding, line width, and wrap settings. Below this, there is a list of image assets.

File Name: Alamofire.swift
 Type: Default - Swift Source
 Location: Relative to Group
 Path: /Users/orta/dev/ios/eidolon/submodules/Moya/submodules/Alamofire/Source/Alamofire.swift

Control Panel:
 Repository: Alamofire
 Type: Git
 Branch: (detached from 80cc057)
 Version: Local Revision
 Status: Modified [Discard...]

Assets List:
 - ArtsyLogo
 - artwork.jpg
 - authorize_denied.png
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 - Mixpanel
 - NJKWebViewProgress
 - ORStackView
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```

26 0x2497bc: calll 0x49cada ; symbol stub for: swift_retain_noresult
27 0x2497c1: movl -0x10(%ebp), %eax
28 0x2497c4: movl 0x18(%eax), %ecx
29 0x2497c7: movb 0x1c(%eax), %bl
30 0x2497ca: movl 0x20(%eax), %edx
31 0x2497cd: movl %edx, %esi
32 0x2497cf: shr l %esi
33 0x2497d1: movl %esi, %eax
34 0x2497d3: movb %al, %bh
35 0x2497d5: btl $0x1, %edx
36 0x2497d9: movl %edx, -0x28(%ebp)
37 0x2497dc: movl %ecx, -0x2c(%ebp)
38 0x2497df: movb %bl, -0x2d(%ebp)
39 0x2497e2: movb %bh, -0x2e(%ebp)
40 0x2497e5: jb 0x249801 ; partial apply forwarder for Kiosk.ReactiveMoyaProvider.(request <A :
Kiosk.MoyaTarget<Kiosk.ReactiveMoyaProvider>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<
Swift.String, Swift.AnyObject>-> ObjectiveC.RACSignal).(closure #1).(closure #1) + 129 at Moya+ReactiveCocoa.swift
41 0x2497e7: jmp 0x2497e9 ; partial apply forwarder for Kiosk.ReactiveMoyaProvider.(request <A :
Kiosk.MoyaTarget<Kiosk.ReactiveMoyaProvider>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<
Swift.String, Swift.AnyObject>-> ObjectiveC.RACSignal).(closure #1).(closure #1) + 105 at Moya+ReactiveCocoa.swift
42 0x2497e9: movb -0x2e(%ebp), %al
43 0x2497ec: notb %al
44 0x2497ee: testb $0x1, %al
45 0x2497f0: je 0x249811 ; partial apply forwarder for Kiosk.ReactiveMoyaProvider.(request <A :
Kiosk.MoyaTarget<Kiosk.ReactiveMoyaProvider>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<
Swift.String, Swift.AnyObject>-> ObjectiveC.RACSignal).(closure #1).(closure #1) + 145 at Moya+ReactiveCocoa.swift
46 0x2497f2: jmp 0x2497f4 ; partial apply forwarder for Kiosk.ReactiveMoyaProvider.(request <A :
Kiosk.MoyaTarget<Kiosk.ReactiveMoyaProvider>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<
Swift.String, Swift.AnyObject>-> ObjectiveC.RACSignal).(closure #1).(closure #1) + 116 at Moya+ReactiveCocoa.swift
47 0x2497f4: movl -0x28(%ebp), %eax
48 0x2497f7: movl %eax, (%esp)
49 0x2497fa: calll 0x49cada ; symbol stub for: swift_retain_noresult
50 0x2497ff: jmp 0x249811 ; partial apply forwarder for Kiosk.ReactiveMoyaProvider.(request <A :
Kiosk.MoyaTarget<Kiosk.ReactiveMoyaProvider>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<
Swift.String, Swift.AnyObject>-> ObjectiveC.RACSignal).(closure #1).(closure #1) + 145 at Moya+ReactiveCocoa.swift
51 0x249801: movl -0x28(%ebp), %eax
52 0x249804: andl $0xffffffff, %eax
53 0x249809: movl %eax, (%esp)
54 0x24980c: calll 0x49caf8 ; symbol stub for: swift_unknownRetain
55 0x249811: movl -0x18(%ebp), %eax
56 0x249814: movl 0x24(%eax), %ecx
57 0x249817: movl %ecx, %edx
58 0x249819: movl %edx, (%esp)
59 0x24981c: movl %ecx, -0x34(%ebp)
60 0x24981f: calll 0x49cada ; symbol stub for: swift_retain_noresult
61 0x249824: movl -0x18(%ebp), %eax
62 0x249827: movl 0x28(%eax), %ecx
63 0x24982a: movl -0x10(%ebp), %edx
64 0x24982d: movl %edx, (%esp)
65 0x249830: movl %ecx, -0x38(%ebp)
66 0x249833: calll 0x49cad4 ; symbol stub for: swift_release
67 0x249838: movl %esp, %eax
68 0x24983a: movl -0x38(%ebp), %ecx
69 0x24983d: movl %ecx, 0x20(%eax)
70 0x249840: movl -0x34(%ebp), %edx
71 0x249843: movl %edx, 0x1c(%eax)
72 0x249846: movl -0x28(%ebp), %esi
73 0x249849: movl %esi, 0x18(%eax)
74 0x24984c: movb -0x2d(%ebp), %bl
75 0x24984f: movzbl %bl, %edi
76 0x249852: movl %edi, 0x14(%eax)
77 0x249855: movl -0x2c(%ebp), %edi
78 0x249858: movl %edi, 0x10(%eax)
79 0x24985b: movl -0x24(%ebp), %ecx
80 0x24985e: movl %ecx, 0xc(%eax)
81 0x249861: movl -0x20(%ebp), %ecx
82 0x249864: movl %ecx, 0x8(%eax)
83 0x249867: movl -0x1c(%ebp), %ecx
84 0x24986a: movl %ecx, 0x4(%eax)
85 0x24986d: movl -0x14(%ebp), %ecx
86 0x249870: movl %ecx, (%eax)
87 0x249872: calll 0x24af20 ; Kiosk.ReactiveMoyaProvider.(request <A : Kiosk.MoyaTarget>
(Kiosk.ReactiveMoyaProvider<A>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<Swift.String,
Swift.AnyObject>-> ObjectiveC.RACSignal).(closure #1).(closure #1) at Moya+ReactiveCocoa.swift:57
88 0x249877: addl $0x5c, %esp
89 0x24987a: popl %esi
90 0x24987b: popl %edi
91 0x24987c: popl %ebx
92 0x24987d: popl %ebp
93 0x24987e: retl

```

```

1 import UIKit
2
3 class CardHandler: NSObject, CFTReaderDelegate {
4
5     let cardSwipedSignal = RACSubject()
6     var card: CFTCard?
7
8     let APIKey: String
9     let APIToken: String
10
11     var reader: CFTReader!
12     lazy var sessionManager = CFTSessionManager.sharedInstance()
13
14     init(apiKey: String, accountToken: String){
15         APIKey = apiKey
16         APIToken = accountToken
17
18         super.init()
19
20         sessionManager.setApiToken(APIKey, accountToken: APIToken)
21     }
22
23     func startSearching() {
24         sessionManager.setLogging(true)
25
26         reader = CFTReader(andConnect: ())
27         reader.delegate = self;
28         reader.swipeTimeoutDuration(0)
29         cardSwipedSignal.sendNext("Started searching");
30     }
31
32     func end() {
33         reader.cancelSwipeWithMessage(nil)
34         reader = nil
35     }
36
37     func readerCardResponse(card: CFTCard?, withError error: NSError?) {
38         if let card = card {
39             self.card = card;
40             cardSwipedSignal.sendNext("Got Card")
41
42             card.tokenizeCardWithSuccess({ () -> Void in
43                 self.cardSwipedSignal.sendCompleted()
44                 logger.error("Card was tokenized")
45             }, failure: { (error) -> Void in
46                 self.cardSwipedSignal.sendNext("Card Flight Error: \(error)");
47             }
48         }
49     }
50
51     let finishedSignal = RACSubject()
52
53     var balancedHandler: BalancedManager!
54
55     @IBOutlet weak var cardNumberTextField: TextField!
56     @IBOutlet weak var expirationMonthTextField: TextField!
57     @IBOutlet weak var expirationYearTextField: TextField!
58
59     @IBOutlet weak var expirationDateWrapperView: UIView!
60     @IBOutlet weak var cardNumberWrapperView: UIView!
61     @IBOutlet weak var errorLabel: UILabel!
62
63     dynamic var cardName = ""
64     dynamic var cardLastDigits = ""
65     dynamic var cardToken = ""
66
67     dynamic var cardFullDigits = ""
68     dynamic var expirationMonth = ""
69     dynamic var expirationYear = ""
70
71     @IBOutlet weak var cardConfirmButton: UIButton!
72     @IBOutlet weak var dateConfirmButton: UIButton!
73
74     lazy var keys = EidolonKeys()

```

Manual CreditCardInputViewController

```

4 let finishedSignal = RACSubject()
5
6 var balancedHandler: BalancedManager!
7
8 @IBOutlet weak var cardNumberTextField: TextField!
9 @IBOutlet weak var expirationMonthTextField: TextField!
10 @IBOutlet weak var expirationYearTextField: TextField!
11
12 @IBOutlet weak var expirationDateWrapperView: UIView!
13 @IBOutlet weak var cardNumberWrapperView: UIView!
14 @IBOutlet weak var errorLabel: UILabel!
15
16
17 dynamic var cardName = ""
18 dynamic var cardLastDigits = ""
19 dynamic var cardToken = ""
20
21 dynamic var cardFullDigits = ""
22 dynamic var expirationMonth = ""
23 dynamic var expirationYear = ""
24
25 @IBOutlet weak var cardConfirmButton: UIButton!
26 @IBOutlet weak var dateConfirmButton: UIButton!
27
28 lazy var keys = EidolonKeys()
29

```

Not Applicable

ARTSY ArtsyLogo

artwork.jpg

authorize_denied.png

BackButtonBackground

- Thread 1: breakpoint 9.1
- 0 Alamofire.Request.cURLRepresentation (Alamofire.Request) -> Swift.String
 - 1 Alamofire.Manager.request (Alamofire.Manager)(Alamofire.URLRequestConvertible) -> Alamofire.Request
 - 2 Kiosk.MoyaProvider.request <A : Kiosk.MoyaTarget>(Kiosk.MoyaProvider<A>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<Swift.String, Swift.Optional<Swift.Int>, response : Swift.Optional<ObjectiveC.NSURLResponse>, error : Swift.Optional<ObjectiveC.NSError>-> () -> () -> ()
 - 3 Kiosk.ReactiveMoyaProvider.(request <A : Kiosk.MoyaTarget>(Kiosk.ReactiveMoyaProvider<A>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<Swift.String, Swift.AnyObject>-> ObjectiveC.RACSignal).(closure #1).(closure #1)
 - 4 partial apply forwarder for Kiosk.ReactiveMoyaProvider.(request <A : Kiosk.MoyaTarget>(Kiosk.ReactiveMoyaProvider<A>-> (A, method : Kiosk.Moya.Method, parameters : Swift.Dictionary<Swift.String, Swift.AnyObject>-> ObjectiveC.RACSignal).(closure #1).(closure #1)

The Future of CocoaPods

Wait a year

github.com/artsey/eidolon

