# **Symbiote**

Swift Auto Analytics Framework for iOS Apps

iOS 🔌 O



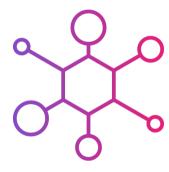
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# **Symbiote's Features**



#### **Automatic Analytics**

- Getting started takes one line of code
- Symbiote uses Swizzling to attach to all UI ViewControllers and UIButtons
- Important events are automatically detected and sent to the analytics backend(s)
- Symbiote keeps track of the view hierarchy tracking the users journey through the app



#### **Multi-Platform Support**

- A variety of analytics backends are supported out of the box
- Enabling or swapping an analytics backend takes one line of code
- Analytics SDKs vendor specific functionality is not disabled or limited
- Additional Analytics Backend Providers can easily be integrated (abstraction layer)



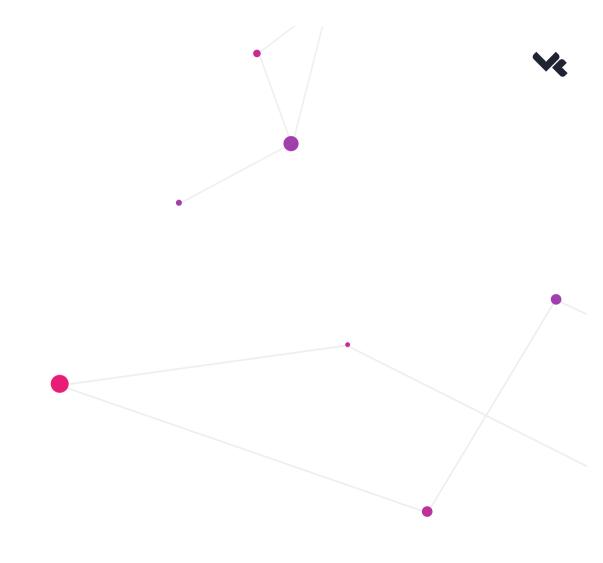
#### **Easily Extendable**

- All events run through a processing pipeline before getting sent out to the Analytics Backend(s)
- Events can be filtered and manipulated easily with custom rules and conditions
- Smart Features can be added such as measuring screen time or keeping track of user behavior over multiple screens and scenarios

#### **VECTORFORM OPEN SOURCE: SYMBIOTE**

# **Supported Analytics Providers**

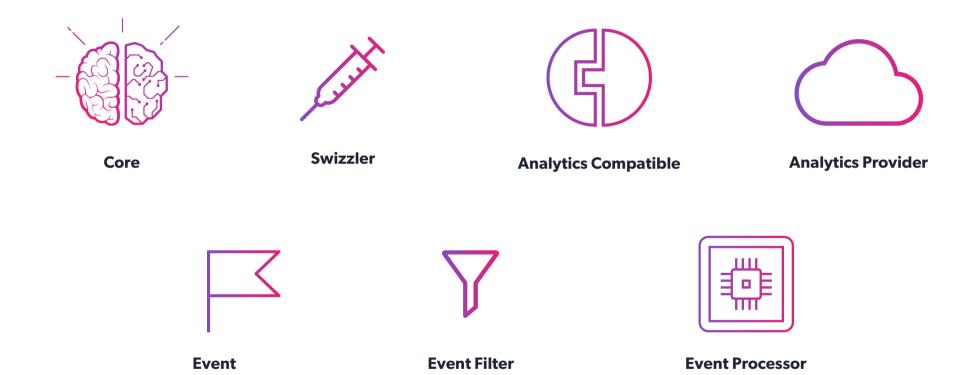
- AWS Mobile Analytics
- Answers Analytics
- Flurry Analytics
- Google Analytics
- More to come ...



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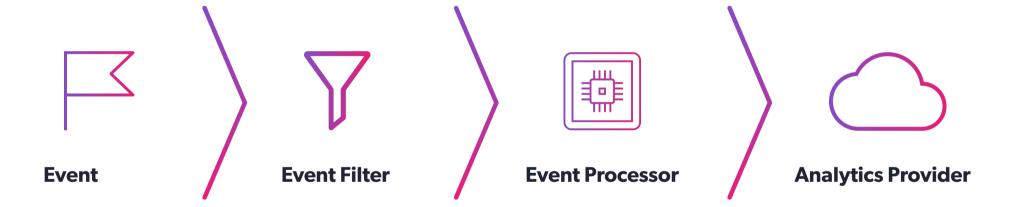
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# **Components**



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# **Event Processing**





# **Getting Started**

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# **Getting Started**

```
import UIKit
import Symbiote

@UIApplicationMain
class AppDelegate: UIResponder, UIApplicationDelegate {
    var window: UIWindow?

    override init() {
        super.init()

        Symbiote.SharedInstance.register(analyticsProvider: AnswersAnalyticsProvider());
    }
}
```

#### **VECTORFORM OPEN SOURCE: SYMBIOTE**



# **Auto Analytics: First Results**

AppDelegate:App/Start	[[	: ]]	
AppDelegate:App/Active	[[	: 11	
Swizzle:View/Appear	[[	"ViewName":	"TestViewController" ]]
Swizzle:Button/TargetSelector	[[	"SelectorName": "ViewName":	<pre>"presentNavController", "UIButton" ]]</pre>
Swizzle:View/Disappear	]]	"ViewName": "ScreenTime":	"TestViewController",



# **Using Advanced Auto Analytics for UIViewControllers**

```
import UIKit
import Symbiote

class SampleViewController: AnalyticsEnabledViewController {
    override func viewDidLoad() {
        super.viewDidLoad()
        analyticsDescription = "SampleViewController"
    }
}
```



#### **Using Advanced Analytics for UlButtons**

```
let sampleEventButton:AnalyticsEnabledButton = AnalyticsEnabledButton()
sampleEventButton.setTitle("Sample Button Event", forState: UIControlState.Normal)
sampleEventButton.parentViewController = self
sampleEventButton.analyticsDescription = "SampleEventButton"
```



#### **Advanced Auto Analytics**

```
Subclass: View/Appear
                         [[ "ViewName": "FirstViewController",
                            "Path": "/FirstViewController" | 1
Subclass: Button/Press
                         [[ "ViewName": "PresentNavControllerButton",
                             "ControlEvent": "TouchUpInside",
                             "Path": "/FirstViewController/PresentNavControllerButton" 11
Subclass: View/Disappear
                         [[ "ViewName": "FirstViewController",
                             "ScreenTime": "3.38345295190811"
                             "Path": "/FirstViewController" | 11
Subclass: View/Appear
                         [[ "ViewName": "SecondViewController",
                             "Path": "/SampleNavigationController/SecondViewController" ]]
Subclass:Button/Press
                         [[ "ViewName": "DismissButton",
                            "ControlEvent": "TouchUpInside",
                             "Path":
                               "/SampleNavigationController/SecondViewController/DismissButton"
                           11
```



#### **Custom Events**



#### **Event Filters & Processors**

#### Get up and running in no time!

#### 1. CocoaPods

```
Just add it to your Podfile: pod 'Symbiote', '0.3.0'
```

#### 2. Open Source on Github

Find docs and source code on Github:

https://github.com/vectorform/Symbiote

#### 3. Contribute

Want to add a feature?
We love Pull Requests ♥

```
aredInstance: Symbiote = Symbiote()
               wether Symbiote should use swizzling to hoo
             ar swizzlingEnabled = true
           hat should be Swizzled: Musst comply to Swizzle
           tatic let SwizzleClasses: [AnyClass] = [UIAppl:
           containing all enabled Analytics Providers
          var analyticsProviders: Array<AnalyticsProvider>
        ray containing all event processors with the corres
       te var filteredEventProcessors: Array<FilteredEvent
      serial dispatch queue that is being used to log the
     vate let dispatchQueue = DispatchQueue(label: "com.s
  Initializes a new Symbiote object. This should only be
  - Returns: A beautiful, brand-new Symbiote object.
ileprivate init() {
  Symbiote.swizzleSwag()
  // Enable all default Processors
  register(eventProcessor: ViewEventScreenTimeProcessor()
```

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# Thank You

