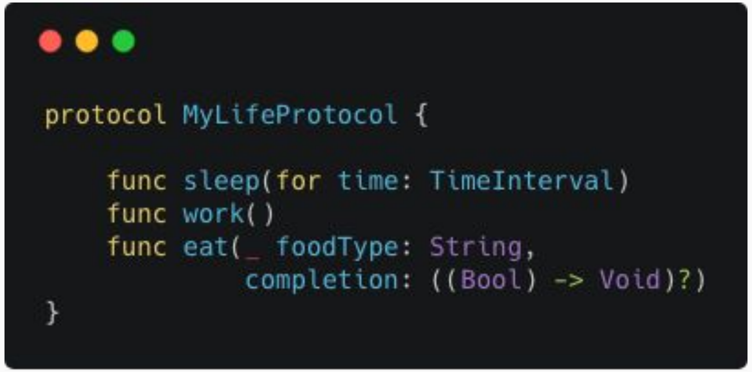
Stopping Boilerplate

Nikita

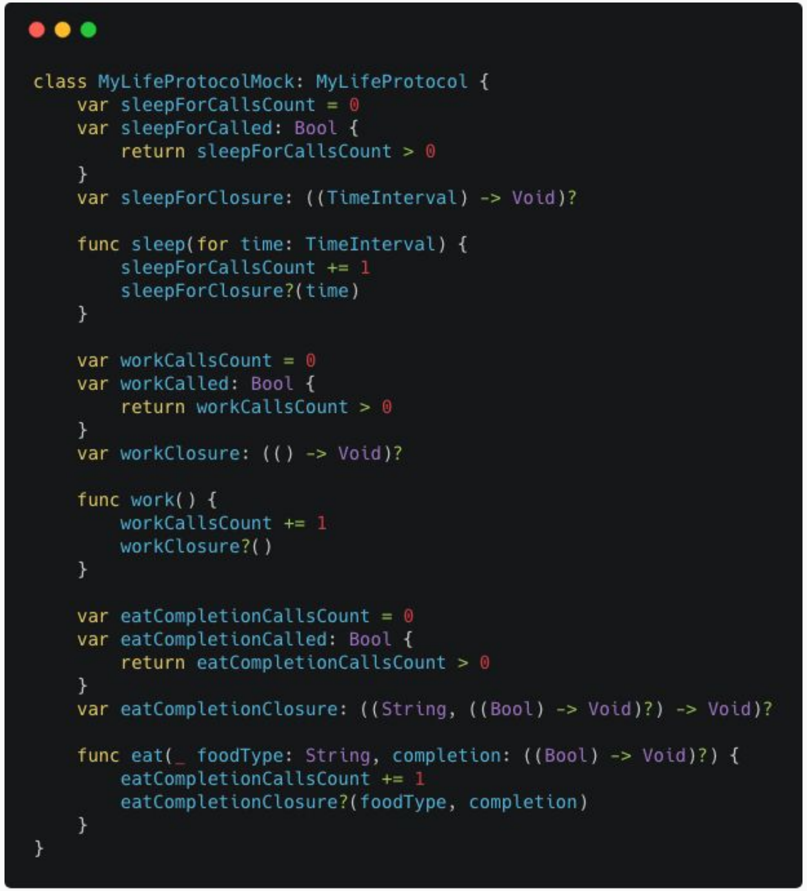
Growth Session #14 - May 17-18 2018

PROBLEM



```swift
protocol MyLifeProtocol {

    func sleep(for time: TimeInterval)
    func work()
    func eat(_ foodType: String,
             completion: ((Bool) -> Void)?)
}
```



```swift
class MyLifeProtocolMock: MyLifeProtocol {
    var sleepForCallsCount = 0
    var sleepForCalled: Bool {
        return sleepForCallsCount > 0
    }
    var sleepForClosure: ((TimeInterval) -> Void)?

    func sleep(for time: TimeInterval) {
        sleepForCallsCount += 1
        sleepForClosure?(time)
    }

    var workCallsCount = 0
    var workCalled: Bool {
        return workCallsCount > 0
    }
    var workClosure: (() -> Void)?

    func work() {
        workCallsCount += 1
        workClosure?()
    }

    var eatCompletionCallsCount = 0
    var eatCompletionCalled: Bool {
        return eatCompletionCallsCount > 0
    }
    var eatCompletionClosure: ((String, ((Bool) -> Void)?) -> Void)?

    func eat(_ foodType: String, completion: ((Bool) -> Void)?) {
        eatCompletionCallsCount += 1
        eatCompletionClosure?(foodType, completion)
    }
}
```

SOLUTION

Sourcery

Takes your code

HOW IT WORKS

$$\begin{tikzcd}\text{Takes your code} \arrow[d] \\ \text{Parses it}\end{tikzcd}$$

HOW IT WORKS

$$\begin{tikzcd}
\text{Takes your code} \arrow[d] \\
\text{Parses it} \arrow[d] \\
\text{Applies provided templates}
\end{tikzcd}$$

HOW IT’S WORKS

Takes your code

↓

Parses it

↓

Applies provided templates

↓

Generates boilerplate code 🎉

WHAT’S A TEMPLATE?

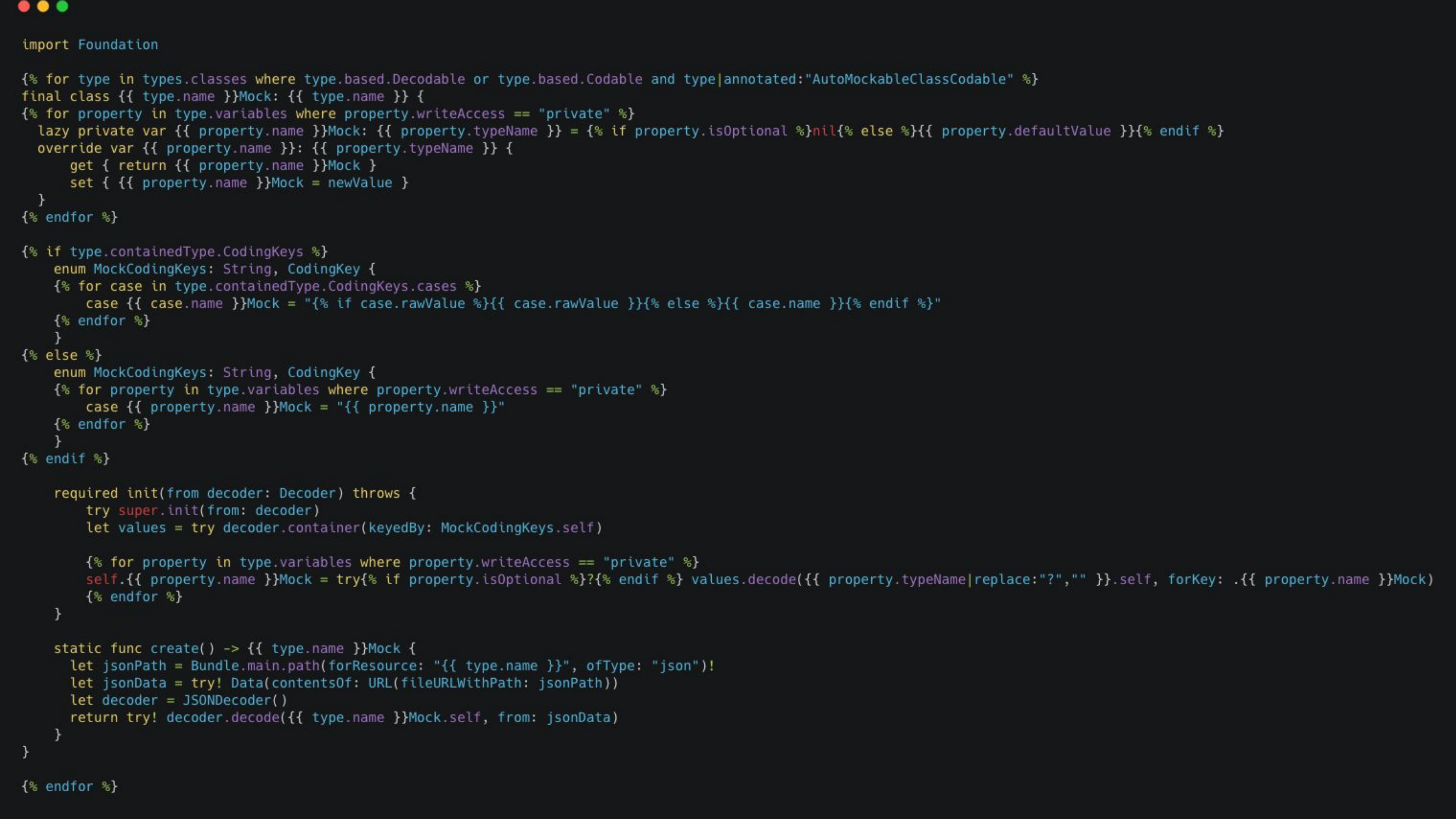
Sourcery API

+

Swift

JavaScript

Stencil



```
import Foundation

{% for type in types.classes where type.based.Decodable or type.based.Codable and type|annotated:"AutoMockableClassCodable" %}
final class {{ type.name }}Mock: {{ type.name }} {
{% for property in type.variables where property.writeAccess == "private" %}
  lazy private var {{ property.name }}Mock: {{ property.typeName }} = {% if property.isOptional %}nil{% else %}{{ property.defaultValue }}{% endif %}
  override var {{ property.name }}: {{ property.typeName }} {
      get { return {{ property.name }}Mock }
      set { {{ property.name }}Mock = newValue }
  }
{% endfor %}

{% if type.containedType.CodingKeys %}
    enum MockCodingKeys: String, CodingKey {
    {% for case in type.containedType.CodingKeys.cases %}
        case {{ case.name }}Mock = "{% if case.rawValue %}{{ case.rawValue }}{% else %}{{ case.name }}{% endif %}"
    {% endfor %}
    }
{% else %}
    enum MockCodingKeys: String, CodingKey {
    {% for property in type.variables where property.writeAccess == "private" %}
        case {{ property.name }}Mock = "{{ property.name }}"
    {% endfor %}
    }
{% endif %}

    required init(from decoder: Decoder) throws {
        try super.init(from: decoder)
        let values = try decoder.container(keyedBy: MockCodingKeys.self)

        {% for property in type.variables where property.writeAccess == "private" %}
        self.{{ property.name }}Mock = try{% if property.isOptional %}?{% endif %} values.decode({{ property.typeName|replace:"?","" }}.self, forKey: .{{ property.name }}Mock)
        {% endfor %}
    }

    static func create() -> {{ type.name }}Mock {
      let jsonPath = Bundle.main.path(forResource: "{{ type.name }}", ofType: "json")!
      let jsonData = try! Data(contentsOf: URL(fileURLWithPath: jsonPath))
      let decoder = JSONDecoder()
      return try! decoder.decode({{ type.name }}Mock.self, from: jsonData)
    }
}

{% endfor %}
```

ACHIEVEMENTS AND PROGRESS

- Created protocols Mocking template
- Used in production
- Working on classes and structures Mocking template

NEXT STEPS

- Finish classes and structures Mocking template
- Found the way automatically migrate ObjC model classes to Swift Codable
- Codegeneration for Localization strings

Remember

- It works only with Swift
- Don’t touch generated code
- Use CLI instead of Pods

Thanks!

Contact Nimbl3

hello@nimbl3.com

399 Sukhumvit Road, Interchange 21
Klongtoey nua, Wattana
Bangkok 10110

28C Stanley St,
Singapore 068737

20th Floor, Central Tower
28 Queen's Road
Central, Hong Kong

nimbl3.com