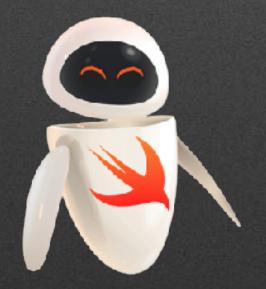
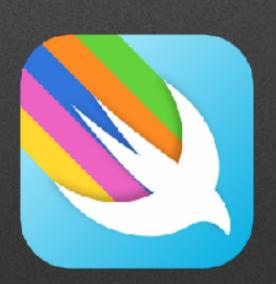




### Code Generation in Swift

SwiftGen & Sourcery



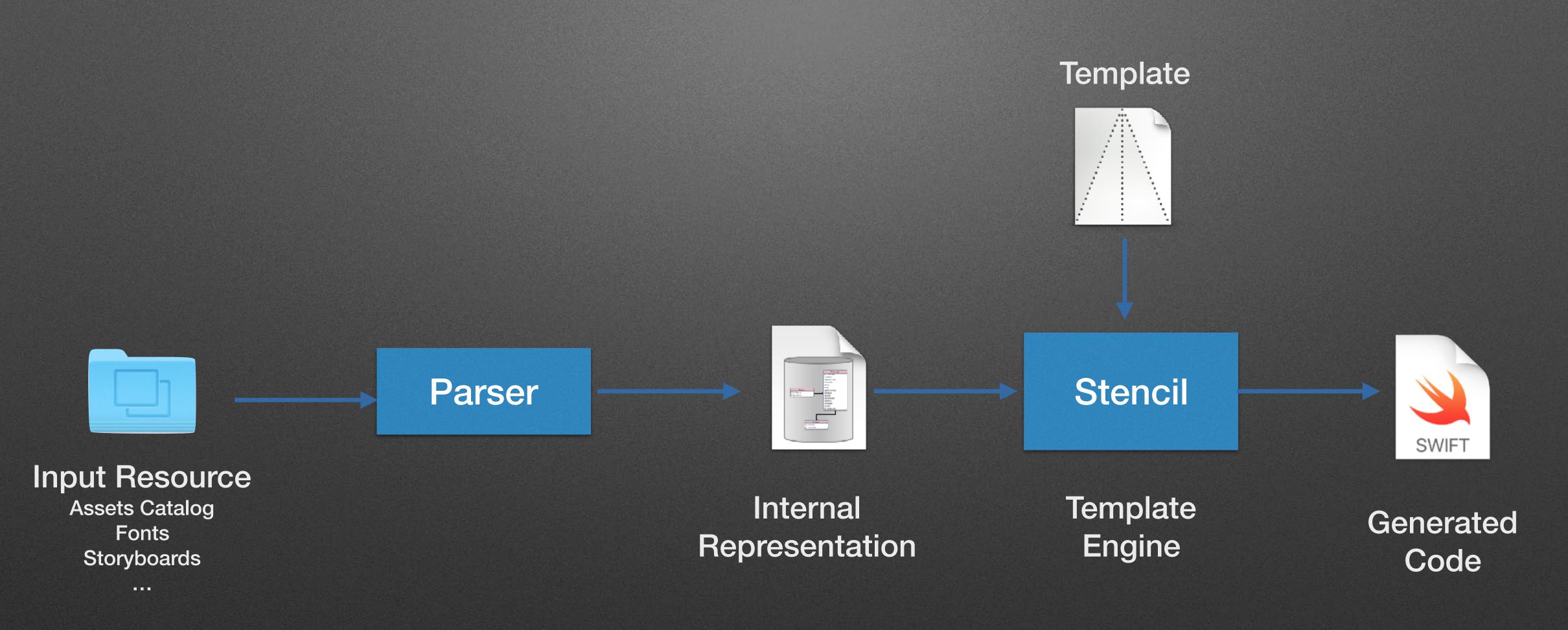


# Demo

SwiftGen



## Code Generation Principles



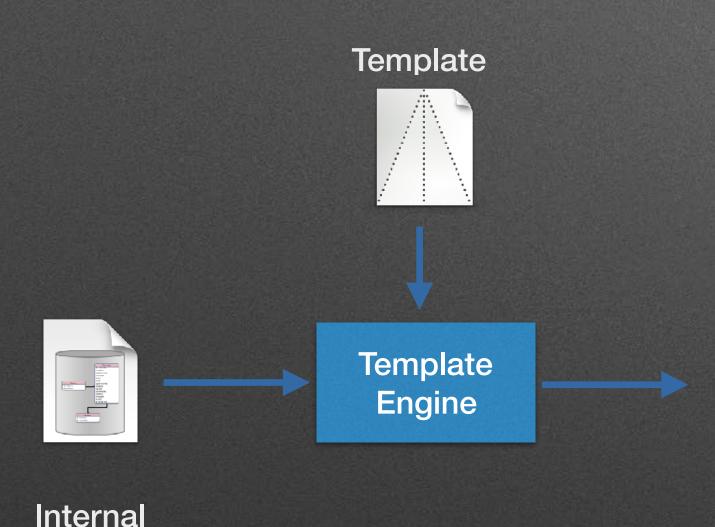
#### Code Generation Principles

```
"images": [
    "Apple",
    "Banana",
    "Orange",
    "Some-Pears"
]
}
```

Internal Representation

```
enum Assets: String {
  {% for image in images %}
    case {{image|swiftIdentifier|lowerFirstWord}} = "{{image}}"
  {% endfor %}
  var image: UIImage {
    return UIImage(asset: self)
extension UIImage -
  convenience init!(asset: Assets) {
    self.init(named: asset.rawValue)
```

#### Code Generation Principles



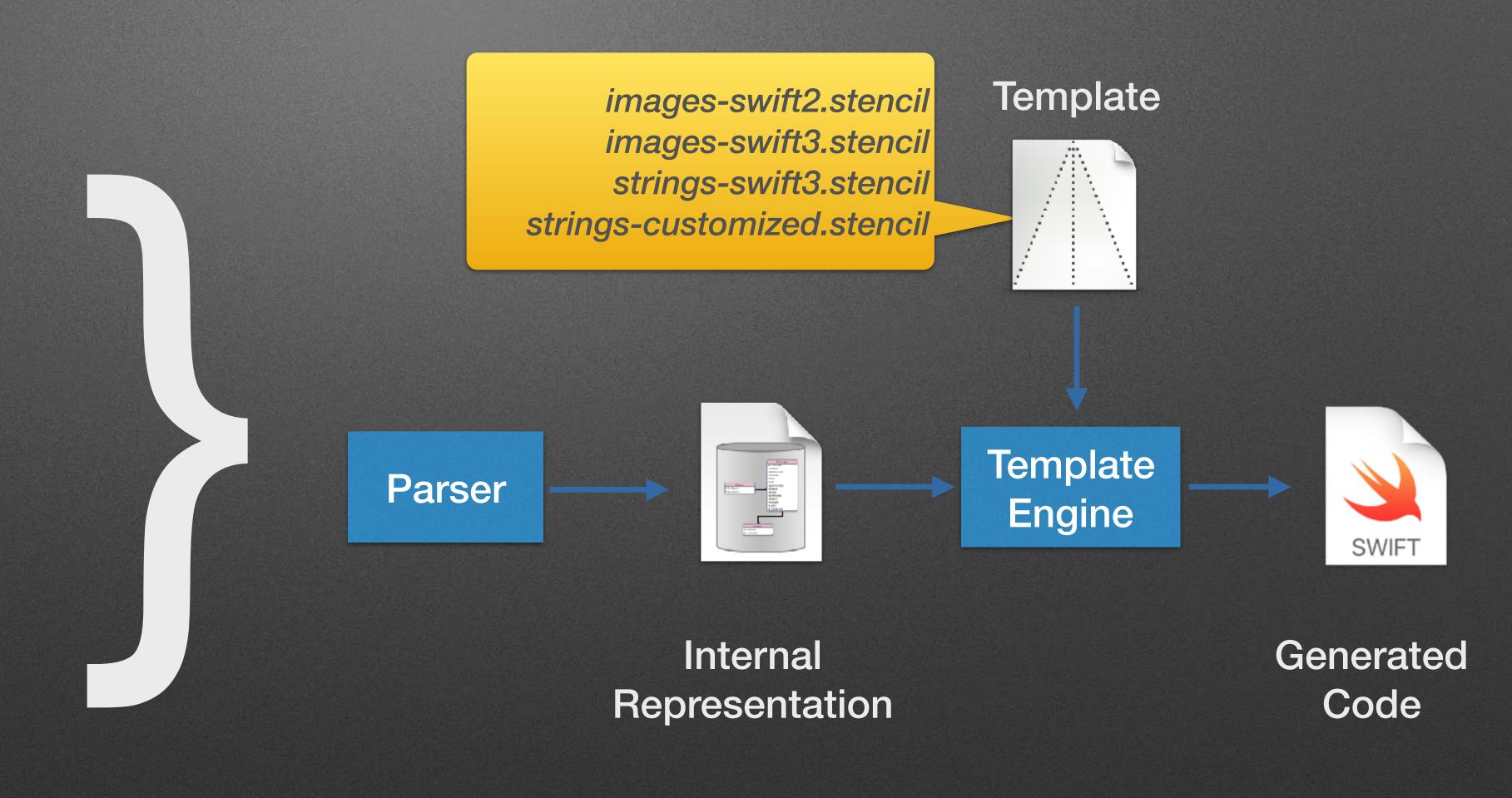
Representation

```
enum Assets: String {
  case apple = "Apple"
                                        let img = UIImage(asset: .banana)
  case banana = "Banana"
  case orange = "Orange"
                                                   Call site
  case somePears = "Some-Pears"
  var image: UIImage {
    return Image(asset: self)
extension UIImage {
  convenience init!(asset: Assets) {
    self.init(named: asset.rawValue)
```

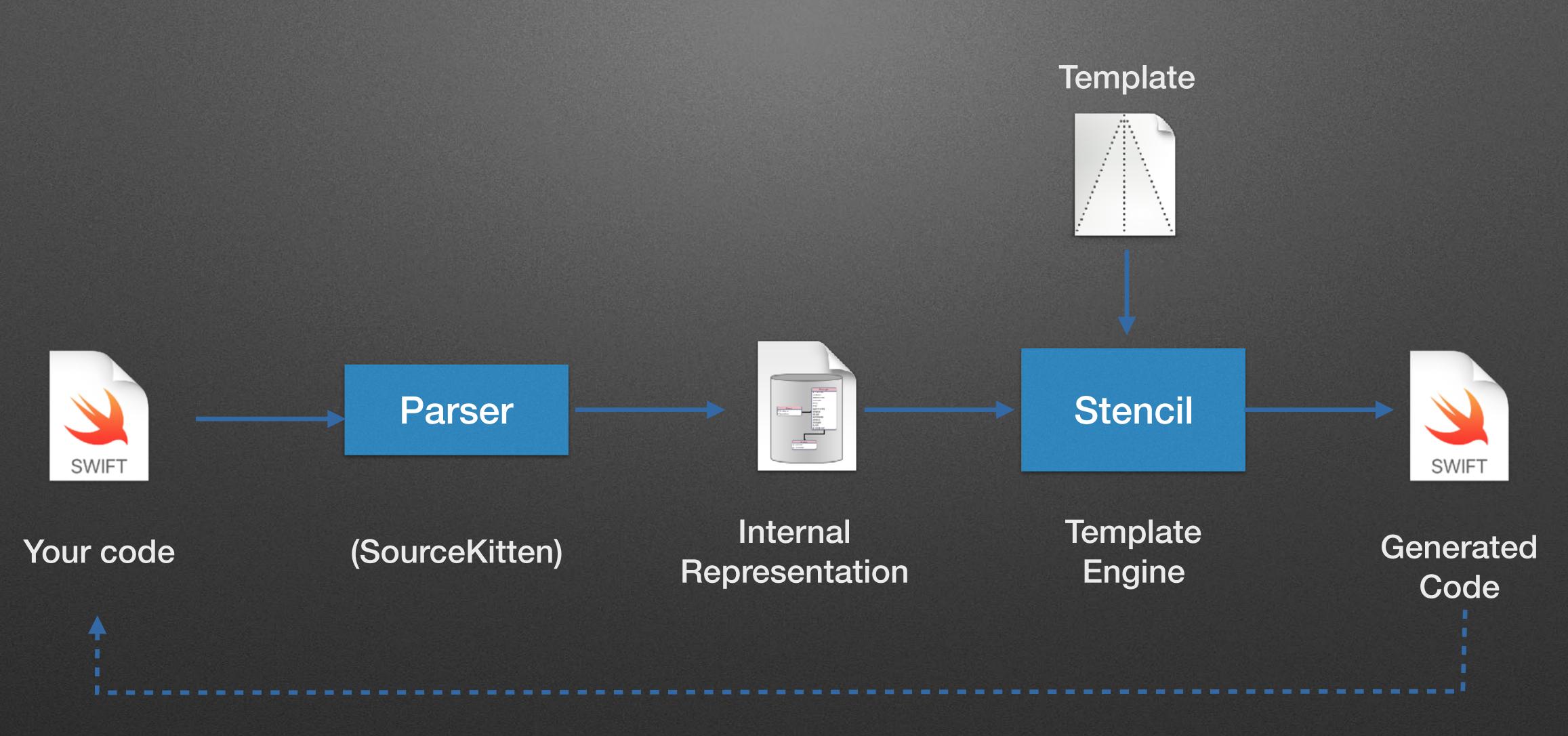
**Generated Code** 

#### Candidates

- Asset Catalogs
- Localizable.strings
- Custom Fonts
- Storyboard names
- Storyboard scenes
- Segues identifiers
- ... JSON? Plist?...



# MetaProgramming



# Demo Sourcery



## Going Further

Building an API Client using Sourcery Annotations



- littlebitesofcocoa.com/295-building-an-api-client-with-sourcery-key-value-annotations
- Generate JSON Parsing code





## Going Further

- · Krzysztof's talk at CraftConf
  - « Type-safe meta programming in Swift? Lets talk about Sourcery »

- · Improve SwiftGen
  - We love contrbutors!

• Friday 4:35pm, Platform 2

A lot of very interesting ideas pending implementation



The Create pull request

# Hello, I'm Olivier





@aligatr



alisoftware.github.io



github.com/AliSoftware (OHHTTPStubs, Reusable, ...)



github.com/SwiftGen/SwiftGen



github.com/krzysztofzablocki/Sourcery