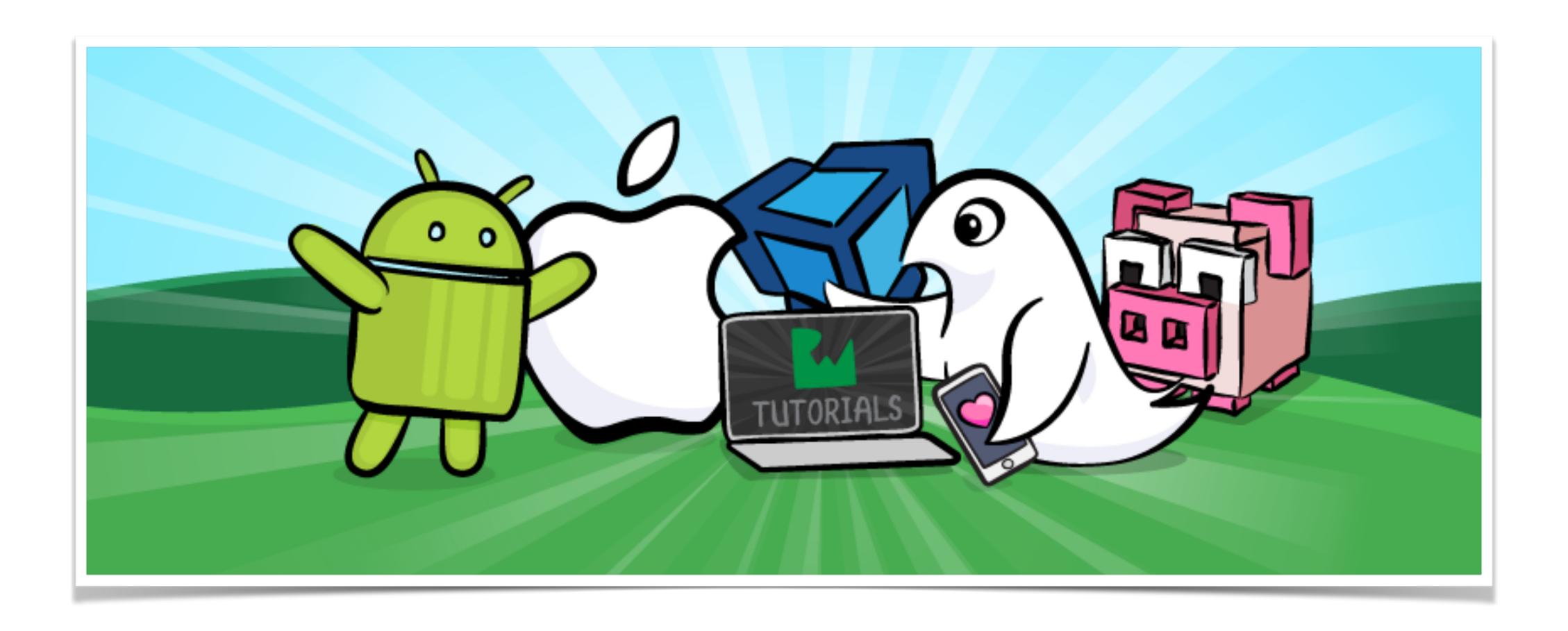
Starting with Server Side Swift



RAYWENDERLICH.COM







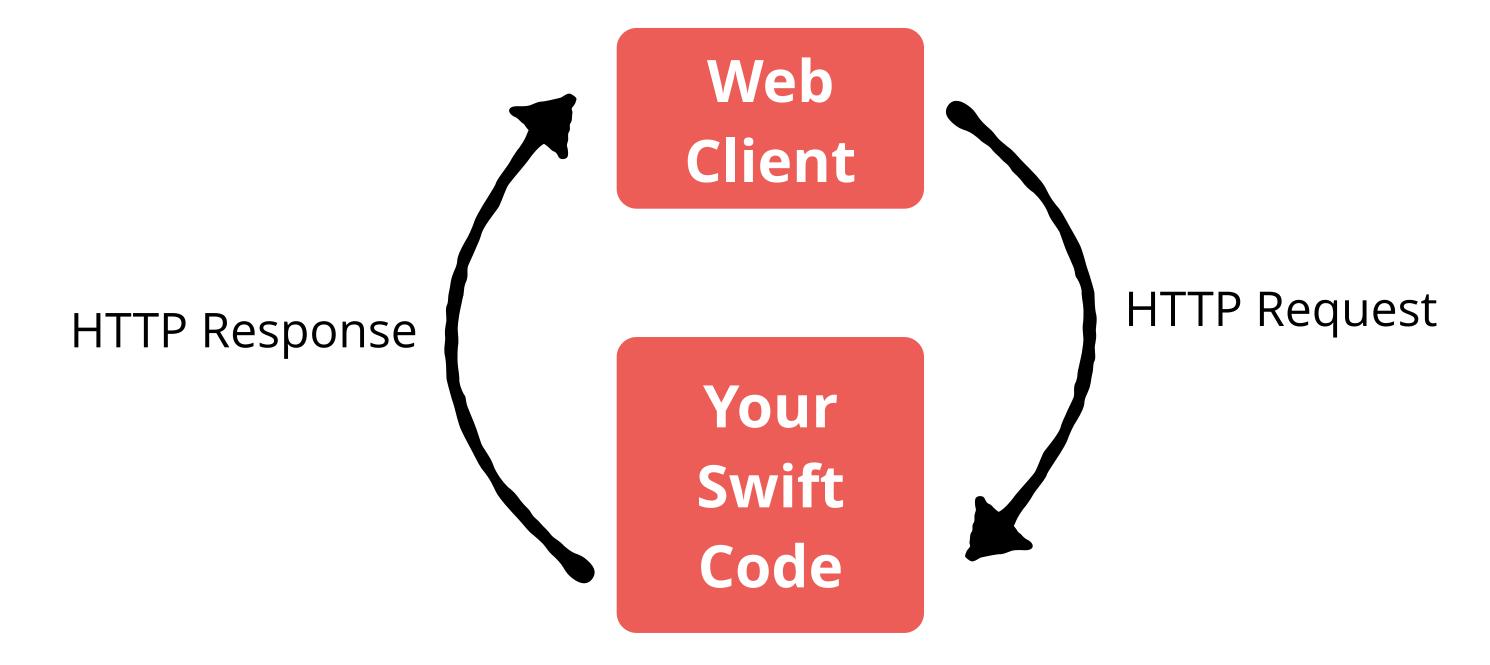
WHAT IS SWIFT?

- Programming language developed by Apple
- Major features
 - Compiled language
 - Modern syntax
 - Focus on safety
 - Playgrounds
- Open source!



WHAT IS SERVER SIDE SWIFT?

Web apps, or web APIs, made with Swift



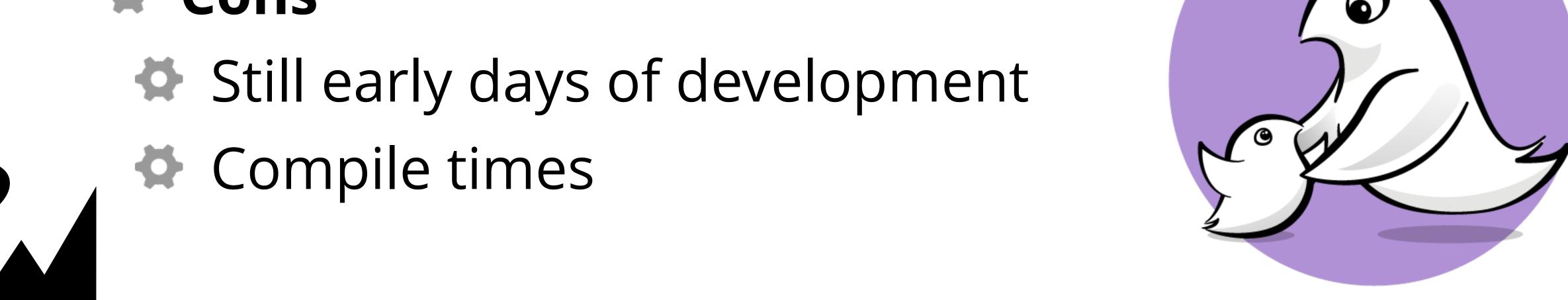


WHY SERVER SIDE SWIFT?

Pros

- Great if you like Swift
- Great if you are developing for Apple platforms
- Great for performance [bit.ly/2lloKj9]

⇔ Cons



SERVER SIDE SWIFT FRAMWORKS



Perfect (10,613 stars)



Kitura (5,345 stars)



Vapor (8,788 stars)

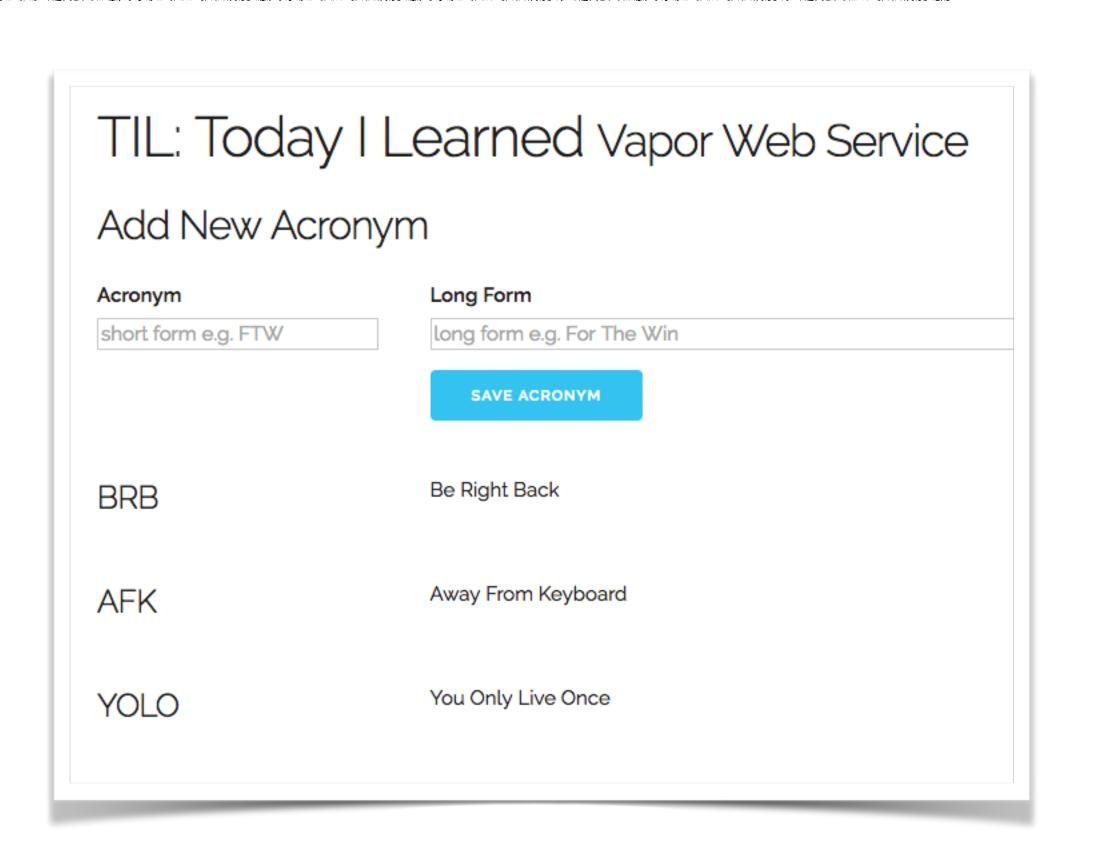


Zewo (1,570 stars)



STARTING SERVER SIDE SWIFT: 5 DEMOS

- Demo 1: Hello World
- Demo 2: Routing
- Demo 3: Templating
- Demo 4: Persistence
- Demo 5: Web App





GETTING SET UP FOR VAPOR

- Need Swift 3 Installed
 - macOS: Install Xcode 8
 - Linux: Instructions here: bit.ly/2m4EjlL
- Install Vapor command-line tools (optional)

```
curl -sL toolbox.vapor.sh | bash
```



DEMO 1: HELLO WORLD



HTTP QUICK REVIEW

HTTP Request



HTTP Response





DEMO 2: ROUTING



TEMPLATING

hello.leaf

```
drop.get("template1") { request in
  return try drop.view.make("hello",
    Node(node: ["name": "Ray"]))
}
```



DEMO 3: TEMPLATING



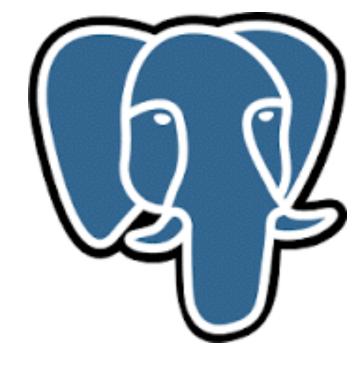
FLUENT



MySQL



SQLite



PostgreSQL



MongoDB



VAPOR + FLUENT

Acronym: Model

short: String long: String id: Node? exists: Bool

init(node:context)
makeNode(context:)
 prepare()
 revert()

```
// Save acronym
try acronym.save()
```

```
// Find all Acronym.all()
```

```
// Filter
Acronym.query().filter
  ("short", "AFK").all()
```

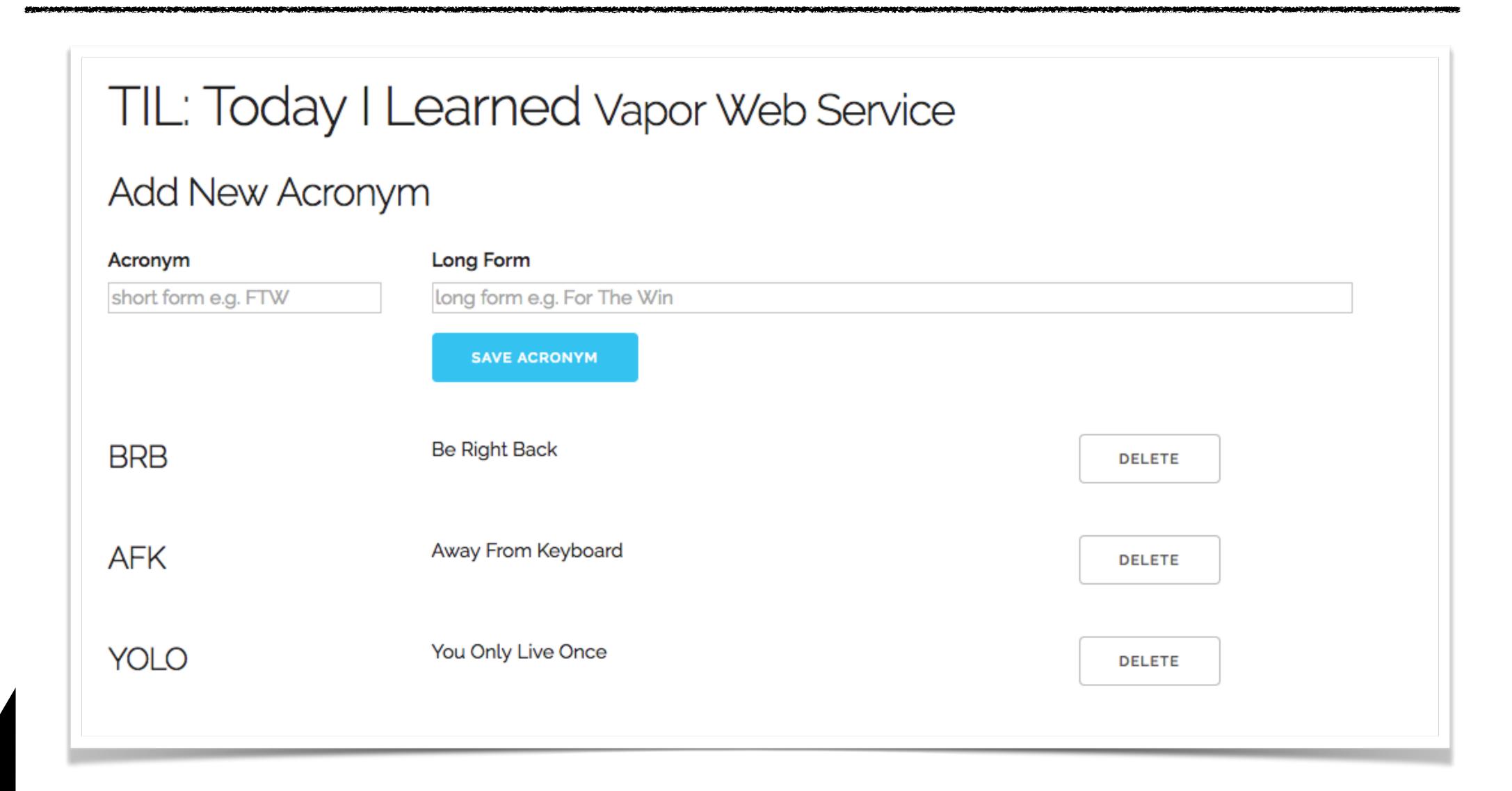
```
// Delete
let query = try
Acronym.query().filter
   ("short", "AFK")
try query.delete()
```



DEMO 4: PERSISTENCE



MAKING A SIMPLE WEB APP

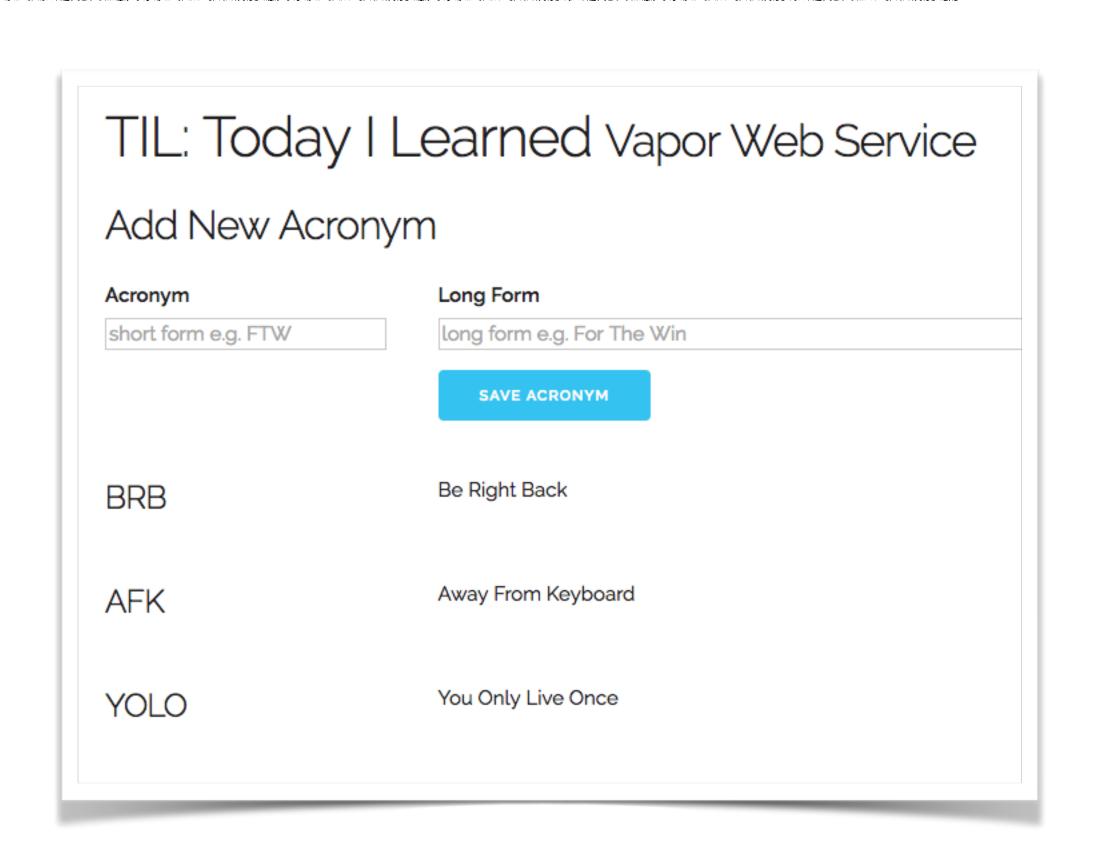


DEMO 5: WEB APP



WHAT YOU LEARNED

- Intro to Server Side Swift
- Demo 1: Hello World
- Demo 2: Routing
- Demo 3: Templating
- Demo 4: Persistence
- Demo 5: Web App





WHERE TO GO FROM HERE?

- - https://videos.raywenderlich.com/screencasts

