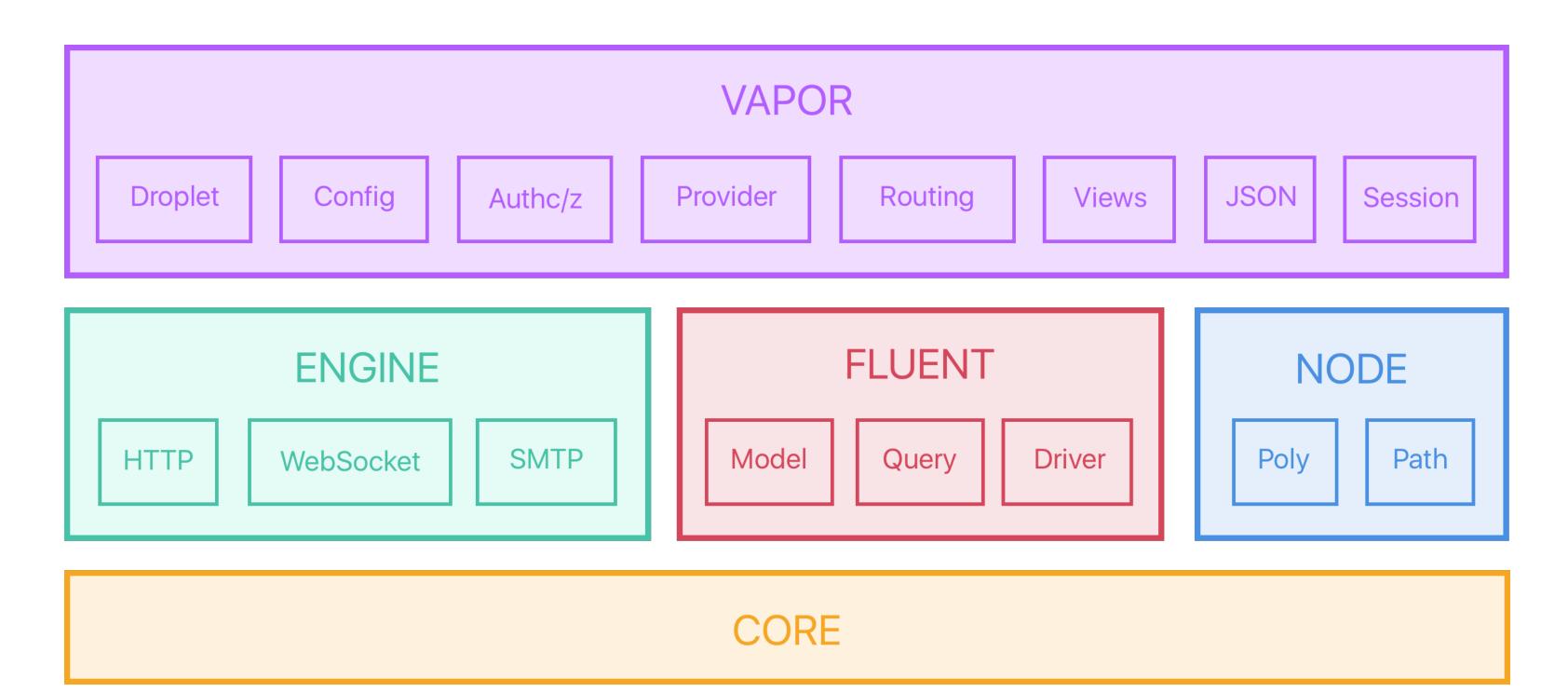
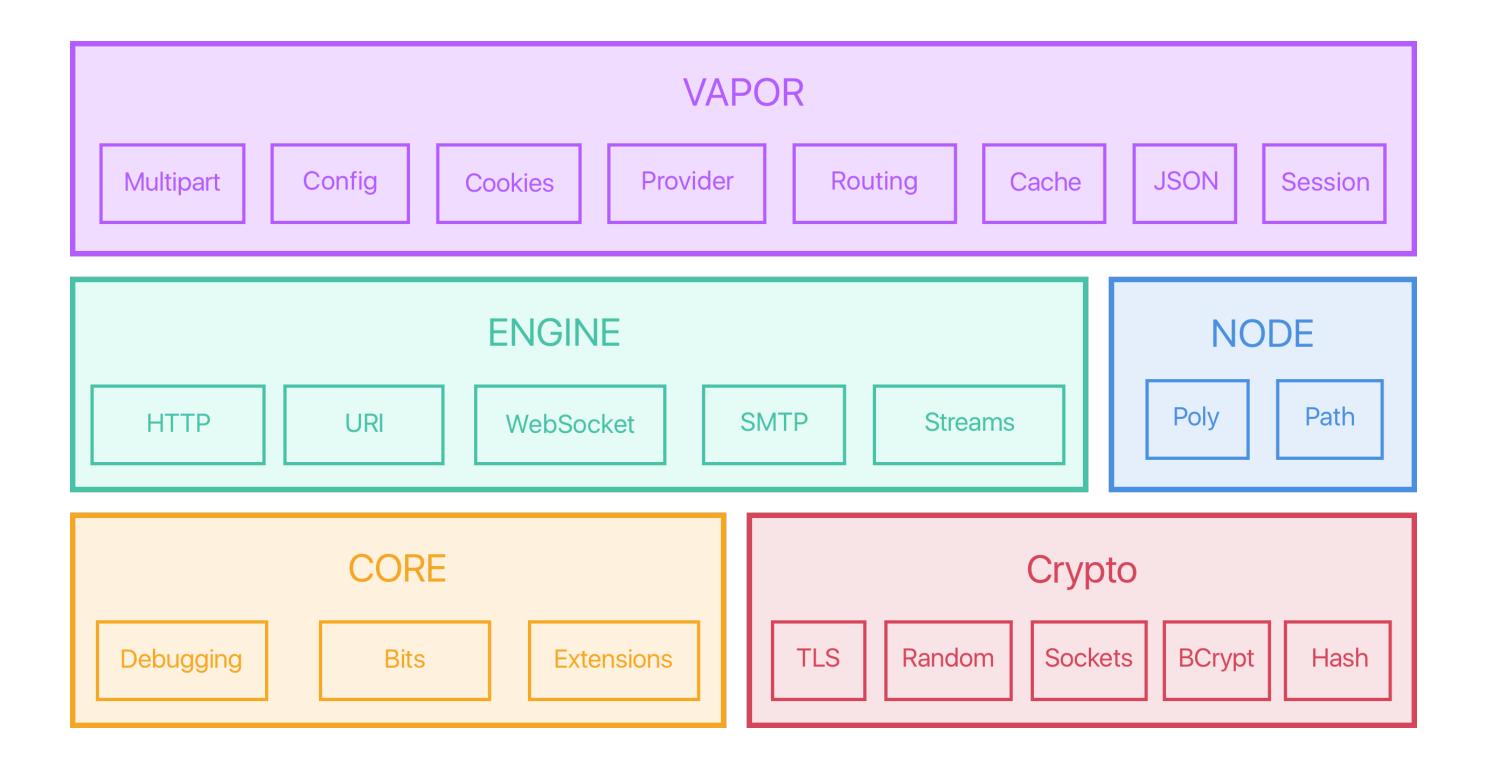


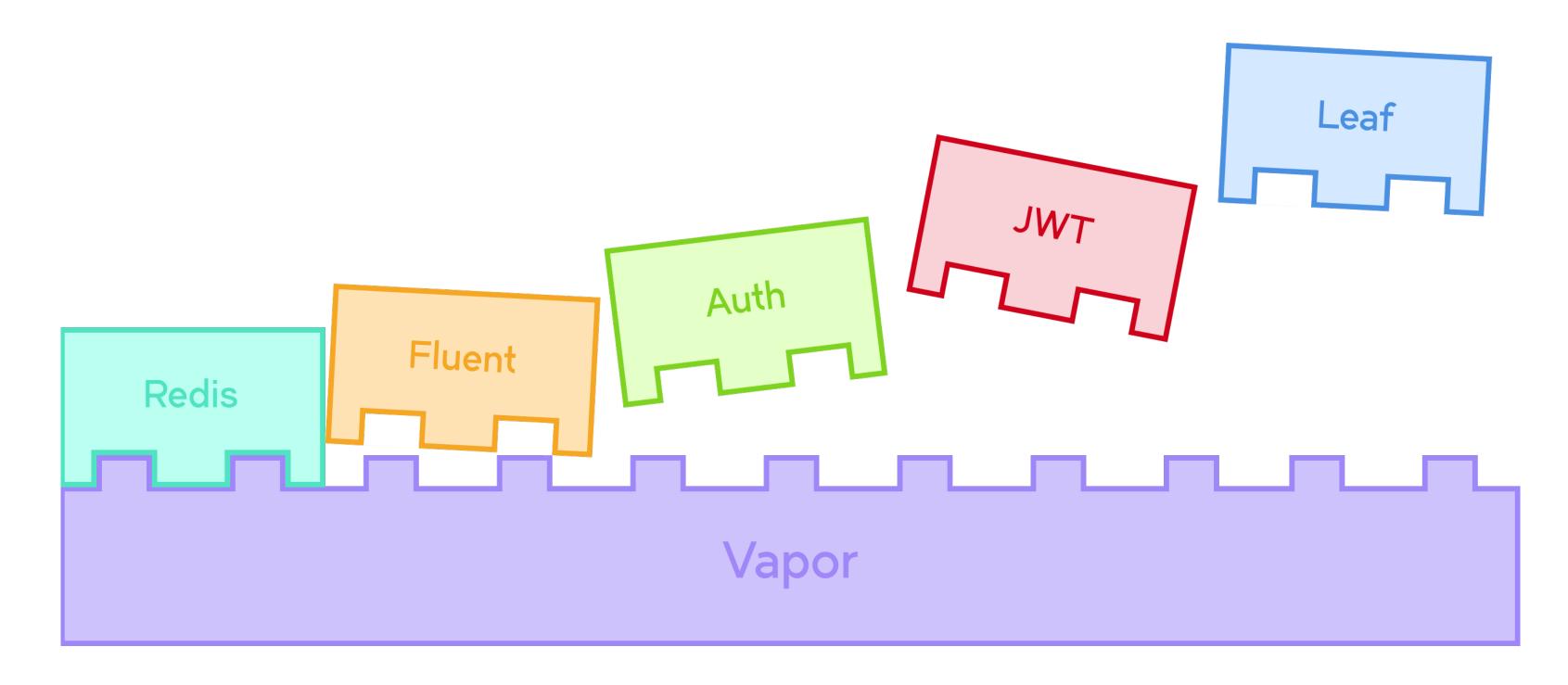
VAPOR 1.+



VAPOR 2



PROVIDERS





- » Byte Manipulation
- » Common Types
- » Core extensions
- » Fills in for Foundation

CORE

```
let size = try stream.read(max: 8)
return UInt64(size)
```



- » SMTP, WebSockets, HTTP, Streams
- » Can be used completely independent of Vapor
- » Starting point for custom applications
- » Client implementations for WebSockets and HTTP

ENGINE

```
import HTTP
let socket = try TCPInternetSocket(
    scheme: "http",
    hostname: "0.0.0.0",
    port: 8080
let server = try TCPServer(socket)
try server.start(responder) { error in
    print("Server received error \(error)")
```

ENGINE

```
import WebSockets
try WebSocket.connect(to: url, using: client) {  ws in
    print("Connected to \(url)")
   ws.onText = { ws, text in
        try ws.send("[echo] \(text)")
```

Node

- » Stringy web to type-safe Swift
- » Transforming to various types
- » Abstract data structure

NODE

```
// Creating Models
let models = try [MyModel](node: json)
// Unwrapping
let age = node["users.0.age"]?.int
// Generic
let foo: Foo = try node.get("foo")
```

Fluent

- » ORM
- » Interface with multiple databases
- » SQL / NoSQL / Mongo
- » Nested / Relational
- » iOS Shared Future

FLUENT

```
let user = try User.find(42)
```

FLUENT

```
let user = try User.makeQuery()
    .filter("age" >= 21)
    .all()
```

