

Server as a Function

- 2013 Whitepaper from Marius Eriksen @ Twitter
- Defined 2 major concepts - **Service** and **Filter**
- System Boundaries are represented as async functions

```
Service<Req, Resp> = (Req) -> Future<Resp>
```

- Application agnostic concerns & I/O transforms

```
Filter<ReqIn, RespIn, ReqOut, RespOut> =  
    (ReqIn, Service<ReqOut, RespOut>) ->  
    Future<RespIn>
```

SaaF: Implementation



- Protocol agnostic RPC system
- In production @ Twitter
- Scala + Netty

- Fintrospect - Finagle based typesafe stack
- Good performance
- Filter system is great
- Async-based programming awkward
- Scala unpopular



fintrospect.io