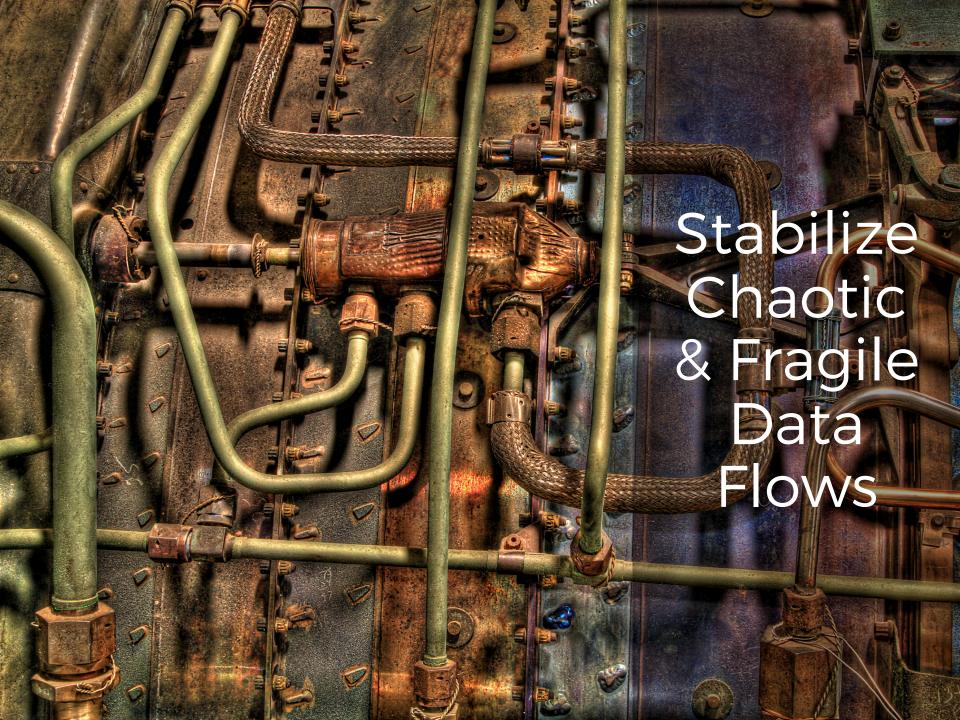
# Spring Cloud Contract

Consumer-Driven Contracts Architecutre

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## Spring Cloud Contract

- 1. Define contract in YAML | Groovy
- 2. Make sure server and client adhere to the contract

```
request:
 method: POST
 url: /check
 body:
  text: bacardi, martel, hennessy...
 headers:
  Content-Type: application/json;charset=UTF-8
response:
 status: 200
 body:
  match: 100
 headers:
  Content-Type: application/json;charset=UTF-8
```

## Supported Technologies

- Spring Boot
- HTTP
- Spring Integration
- Spring Cloud Stream
- Camel
- RabbitMQ/AMQP

## Server side: HTTP

- Write down the contract
- Release as an artifact

## Client Side: HTTP

- Code client-side
- Verify contract via integration test

## Client Side: Integration Tests

```
@AutoConfigureStubRunner(ids = {
    "sk.eastcode:scc-producer:+:stubs:6565"
})
```

## Client Side: Integration Tests

#### Stub Runner:

- download contracts from repo
- parse contract

#### WireMock

- mimic a HTTP server
- RestTemplate:
  - Spring client with mock client

### Server Side: HTTP

- Implement server-side
- Verify contract via integration test

## Server Side: Integration Tests

- Maven/Gradle Plugin :
  - autogenerate tests according to contract
- Spring MockMVC + RestAssured
  - run tests against HTTP endpoint implementation

## Contract Changes?

release!

a new contract artifact to repo

break'em

client tests and server-side tests will possibly break!

• fix'em!

## Thanks!

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