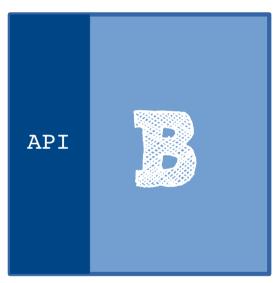


Wenn

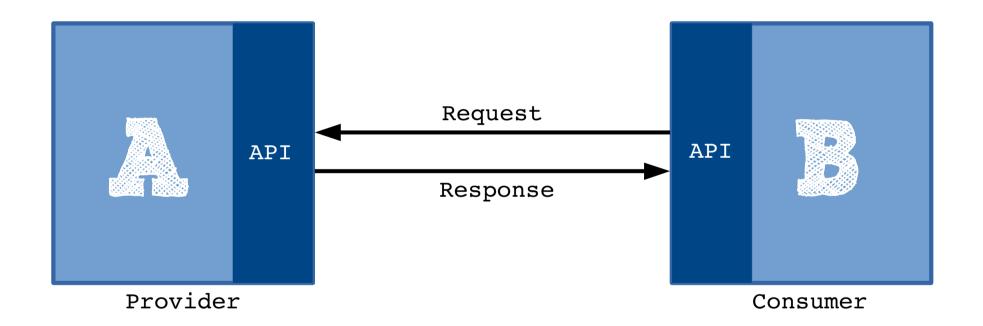
alt werden...

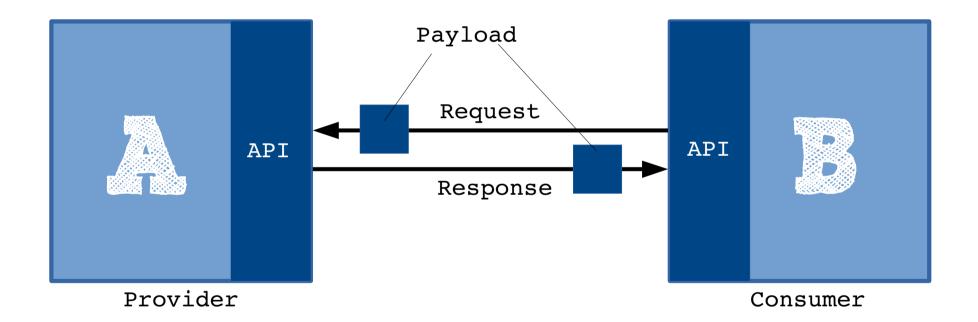


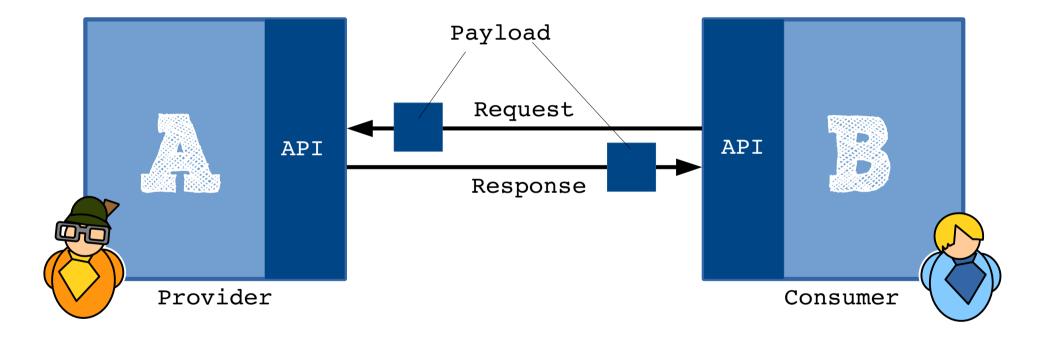
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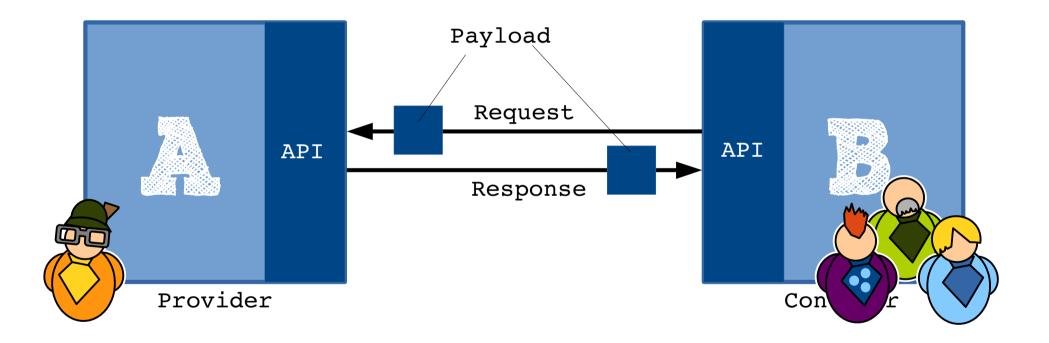


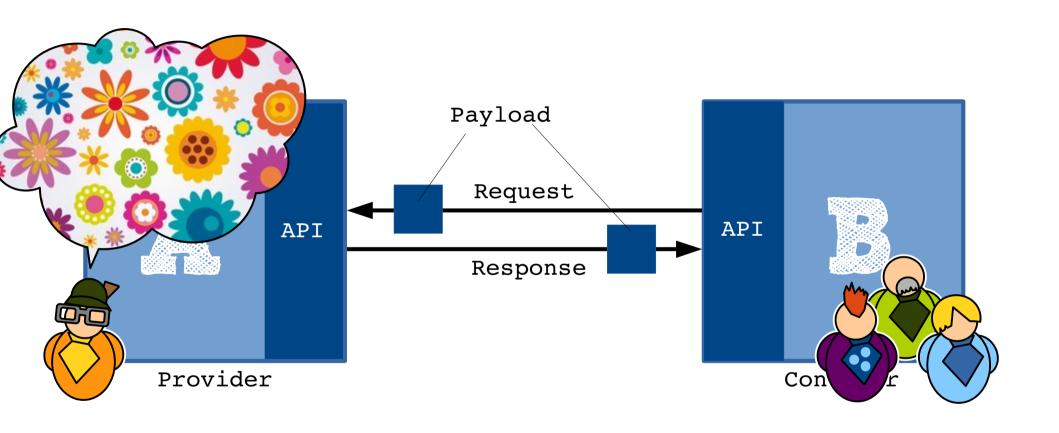
Consumer

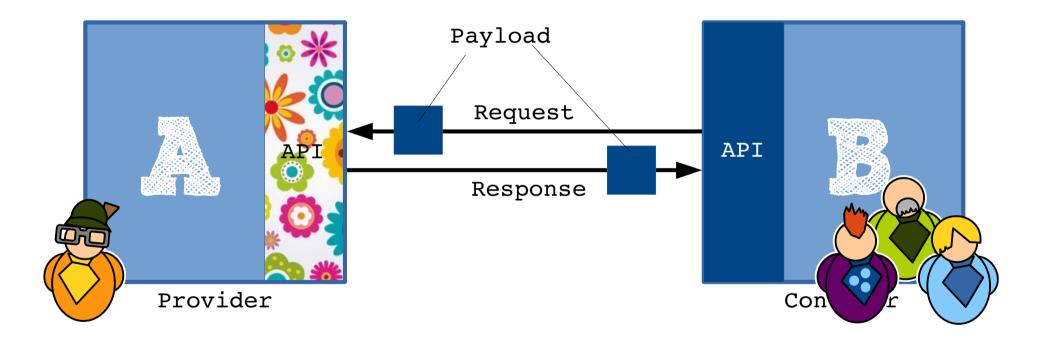


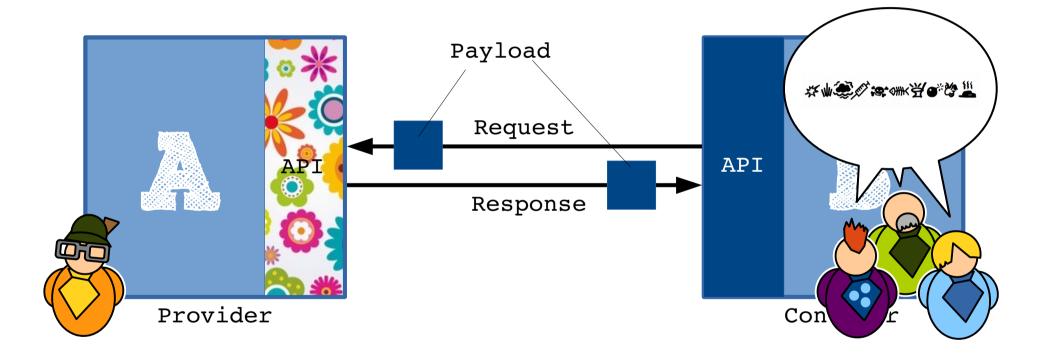


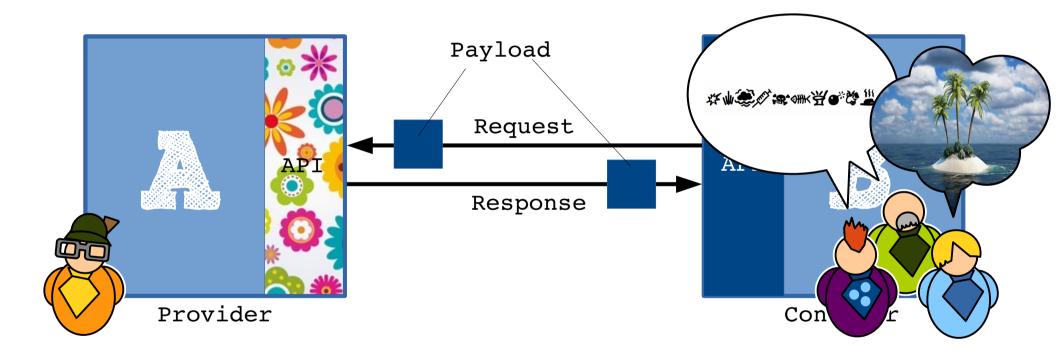


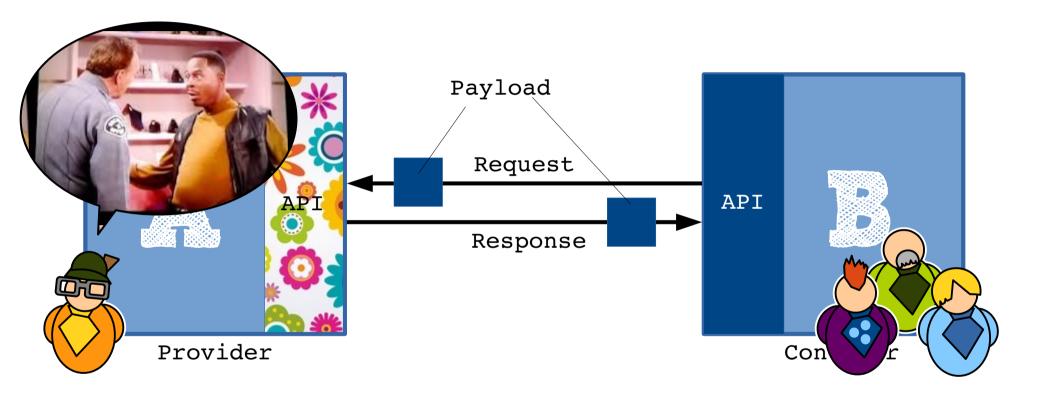


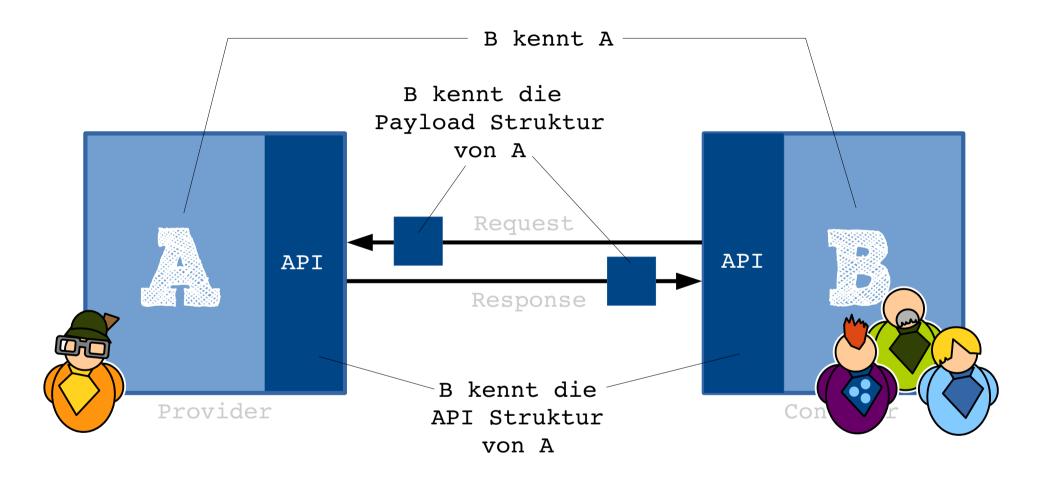






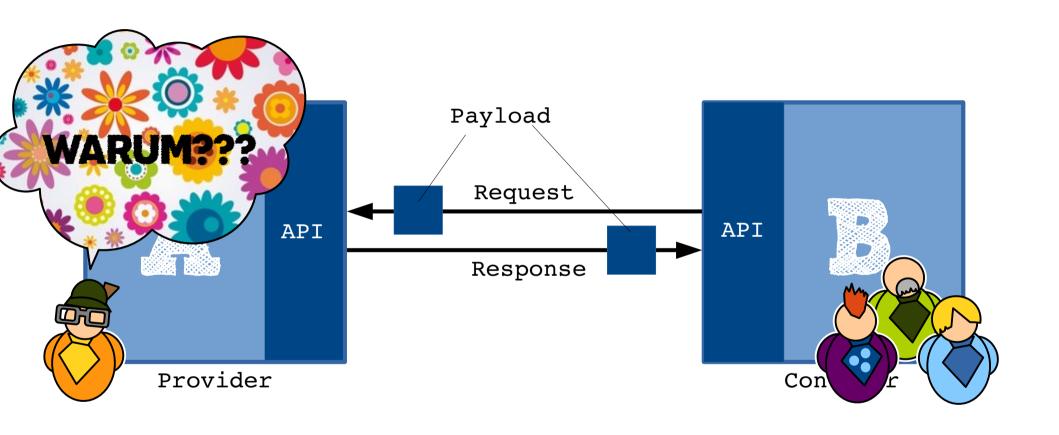


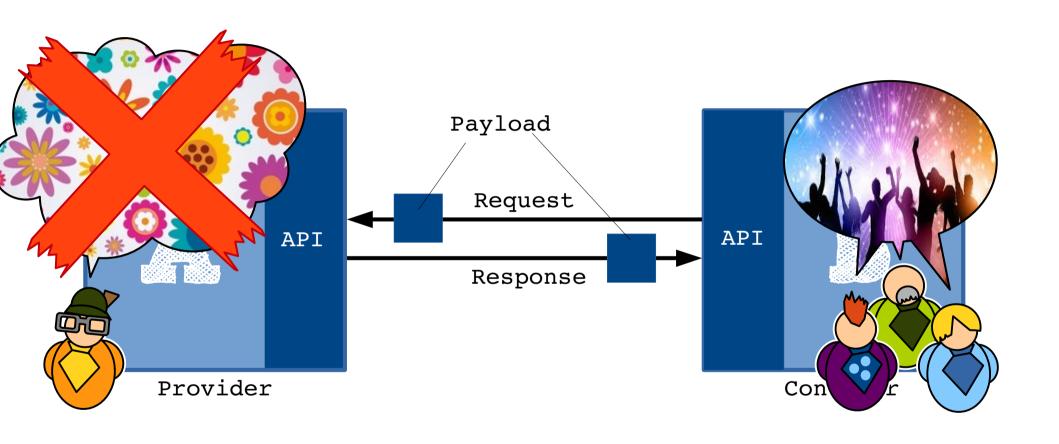




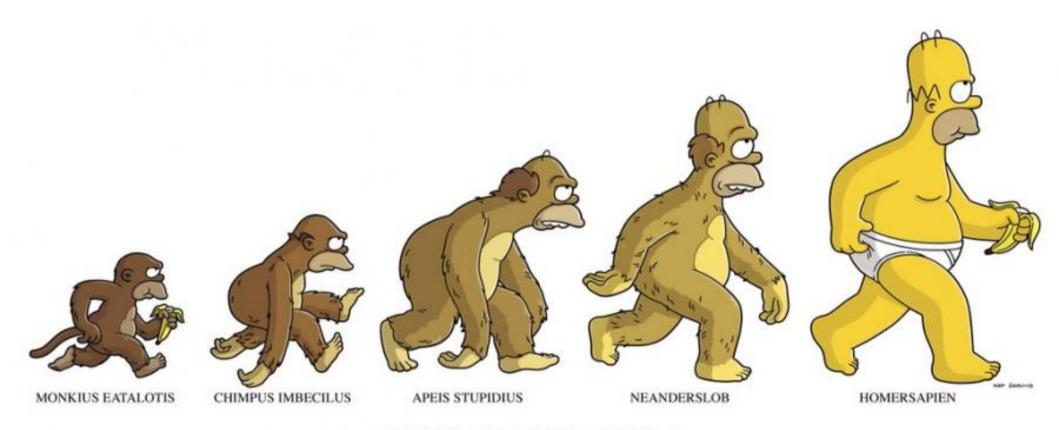
System muss ziemlich viel von System

kennen, damit die Kommunikation funktioniert!



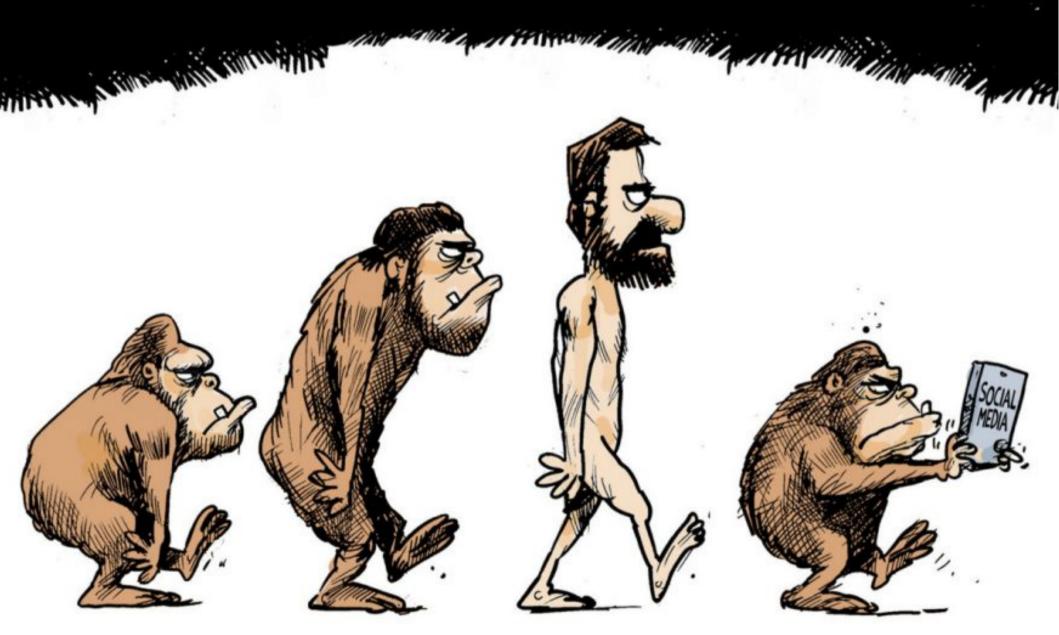


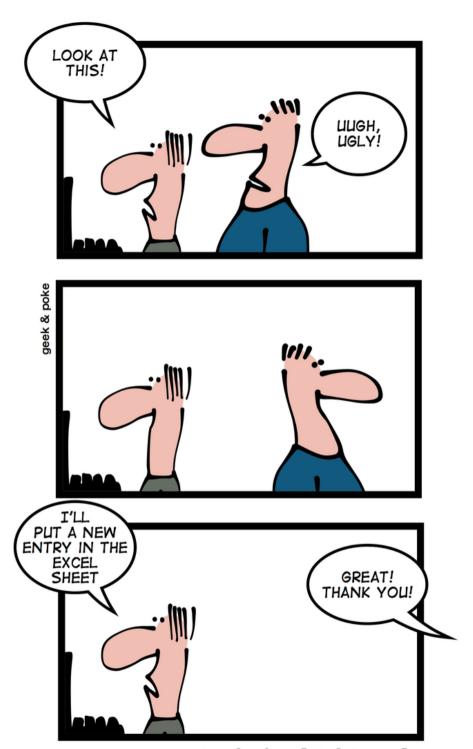
EVOLUTION



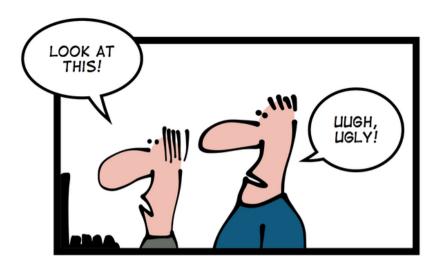
HOMERSAPIEN

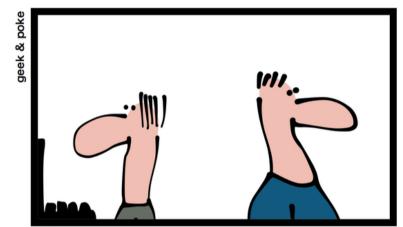
EVOLUTION 2.0





technicalDebts.xls

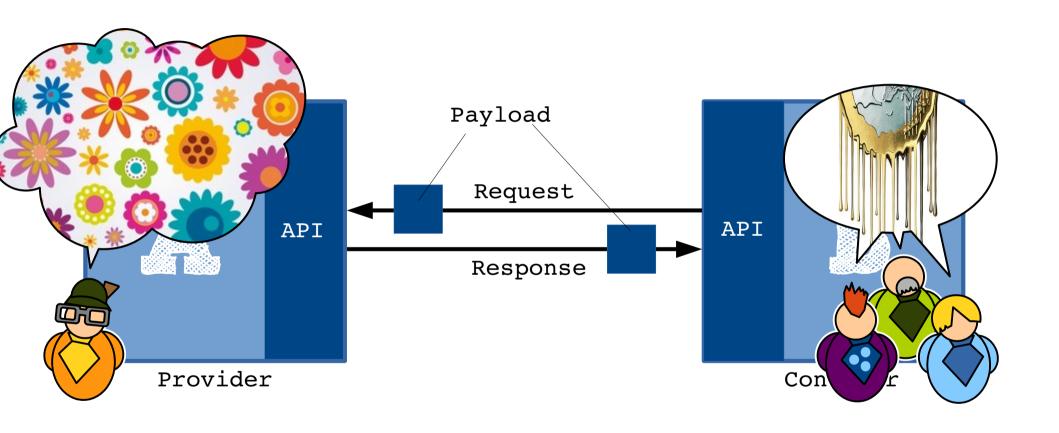


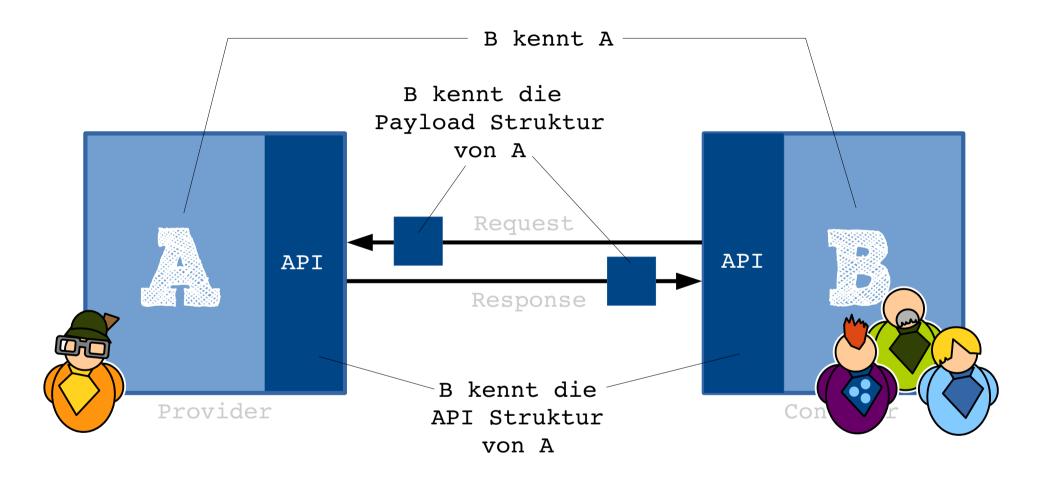


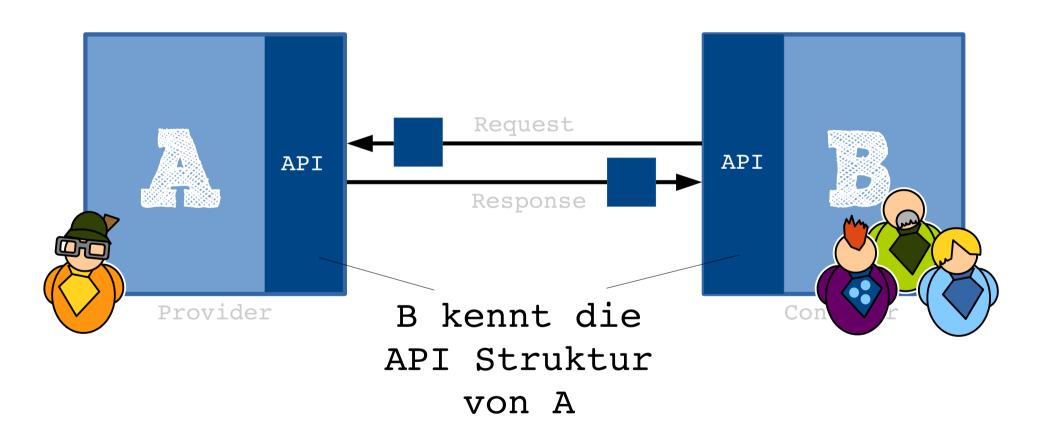


technicalDebts.xls

TECHNICAL DEPT







RESTBUCKS, THE SAMPLE

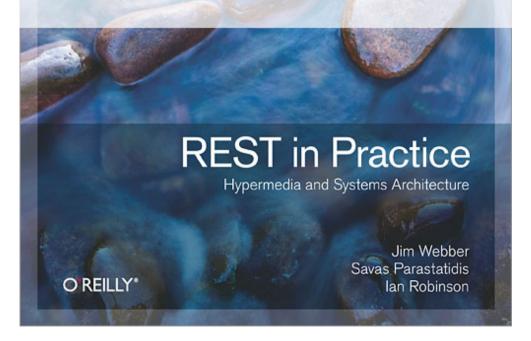


http://codebetter.com/glennblock/2011/06/06/rest-in-practice-the-book-restbucks-the-sample

https://github.com/olivergierke/spring-restbucks

https://speakerdeck.com/olivergierke

http://olivergierke.de/2016/04/benefits-of-hypermedia/





https://RESTBUCKS.IO/VI/CREATE ORDER

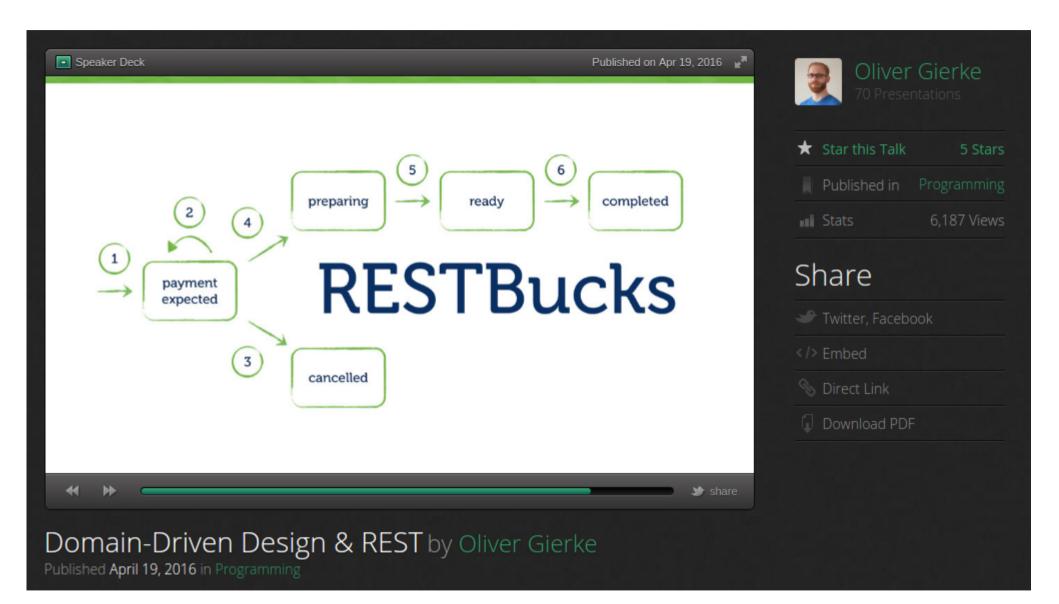


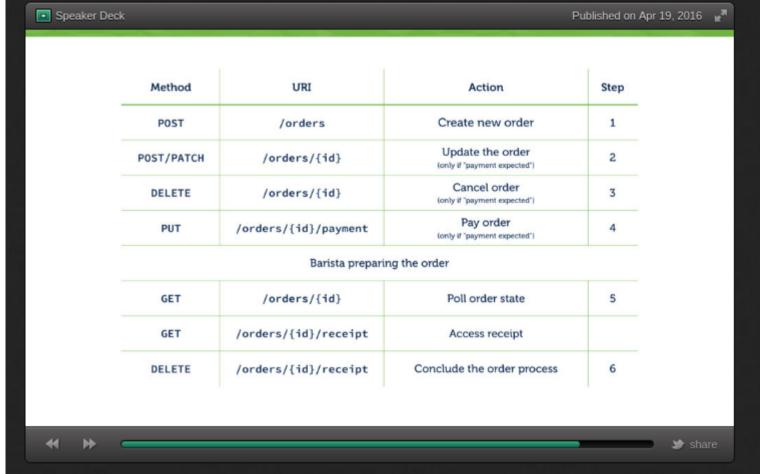
https://RESTBUCKS.IO/V2/CREATE ORDER



https://RESTBUCKS.IO/V2/ORDER/{ID}

POST = create order
PATCH = update order
DELETE = delete order
GET = read order

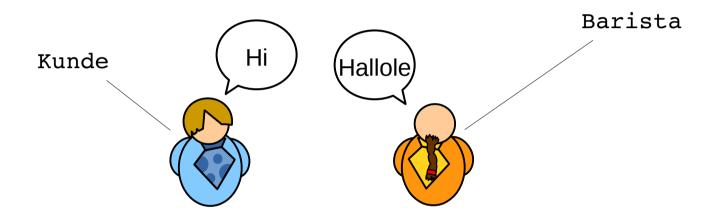






Domain-Driven Design & REST by Oliver Gierke

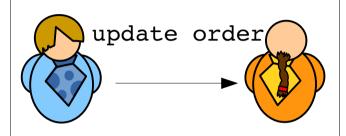
Published April 19, 2016 in Programming

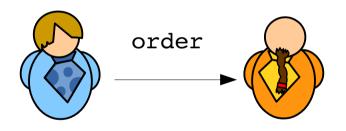


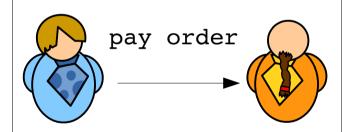
SCHRITTI

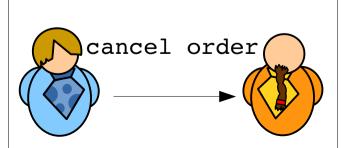
SCHRITT 2

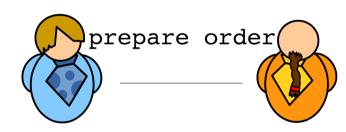
SCHRITT 3





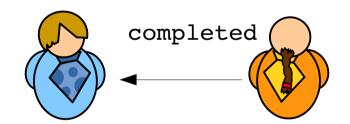






SCHRITT 4

SCHRITT 5





drink event

HATEOAS

Hypermedia

As

The

Engine

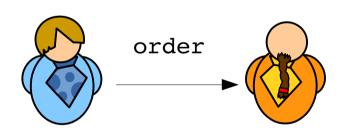
Of

Application

State



Request Response



POST: RESTBUCKS.io/v2/order

self

GET: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

update order

POST/PATCH: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

cancel order

DELETE: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

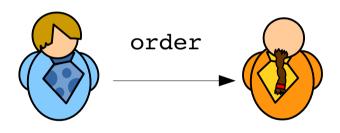
pay order

PUT: RESTBUCKS.io/v2/order/1/payment

RESTBUCKS.io/v2/order/{id}/payment



Request Response



POST: RESTBUCKS.io/v2/order

self

GET: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

update order

POST/PATCH: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

cancel order

DELETE: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

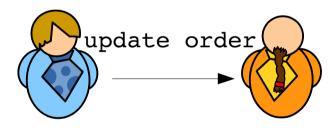
pay order

PUT: RESTBUCKS.io/v2/order/1/payment

RESTBUCKS.io/v2/order/{id}/payment

SCHRITT 2

Request Response



PATCH: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

SCHRITT 2

Request Response



PATCH: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

self

GET: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

update order

POST/PATCH: RESTBUCKS.io/v2/order/1

RESTBUCKS.io/v2/order/{id}

cancel order

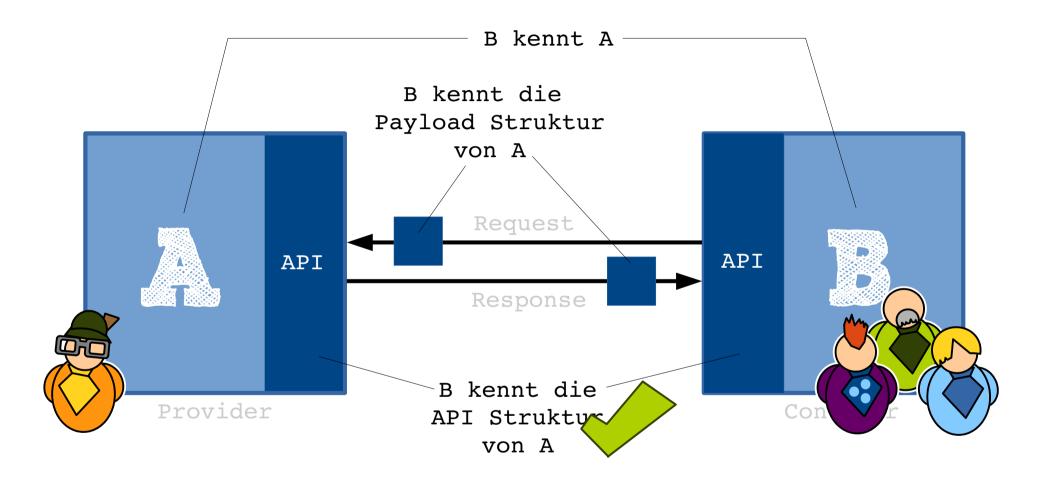
DELETE: RESTBUCKS.io/v2/order/1

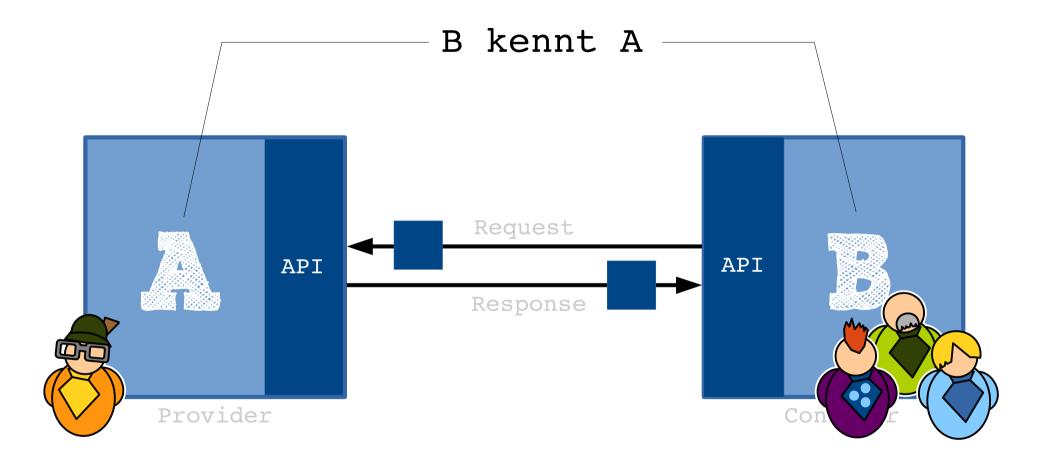
RESTBUCKS.io/v2/order/{id}

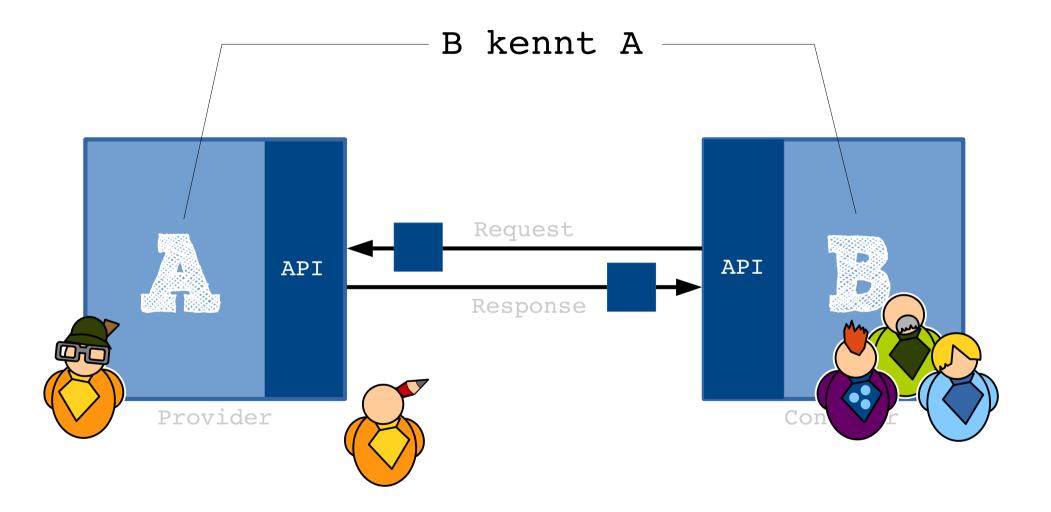
pay order

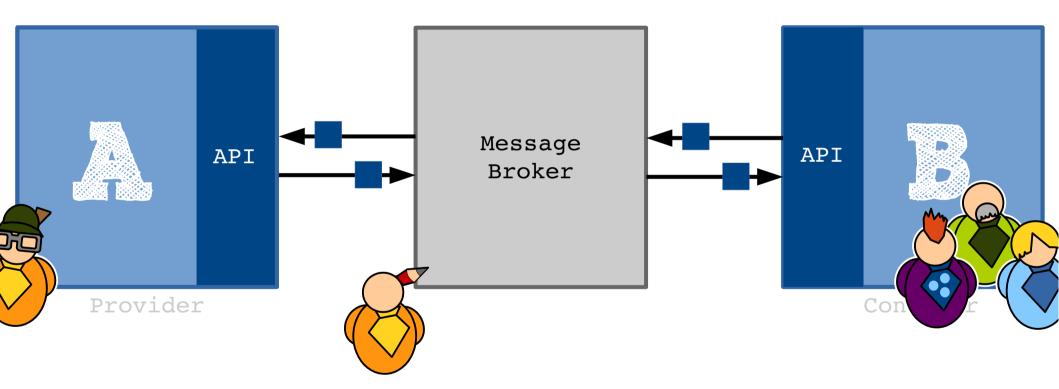
PUT: RESTBUCKS.io/v2/order/1/payment

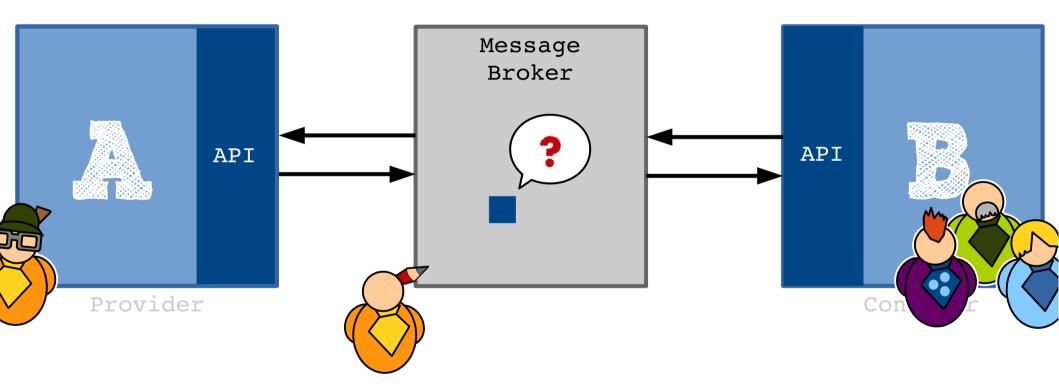
RESTBUCKS.io/v2/order/{id}/payment









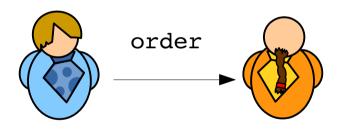


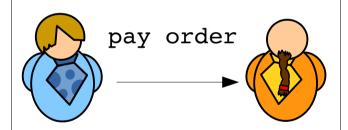
SCHRITTI

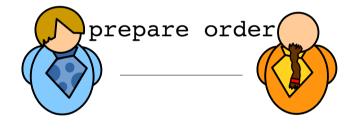
SCHRITT 2

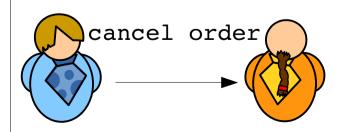
SCHRITT 3











SCHRITTI

SCHRITT 2

SCHRITT 3

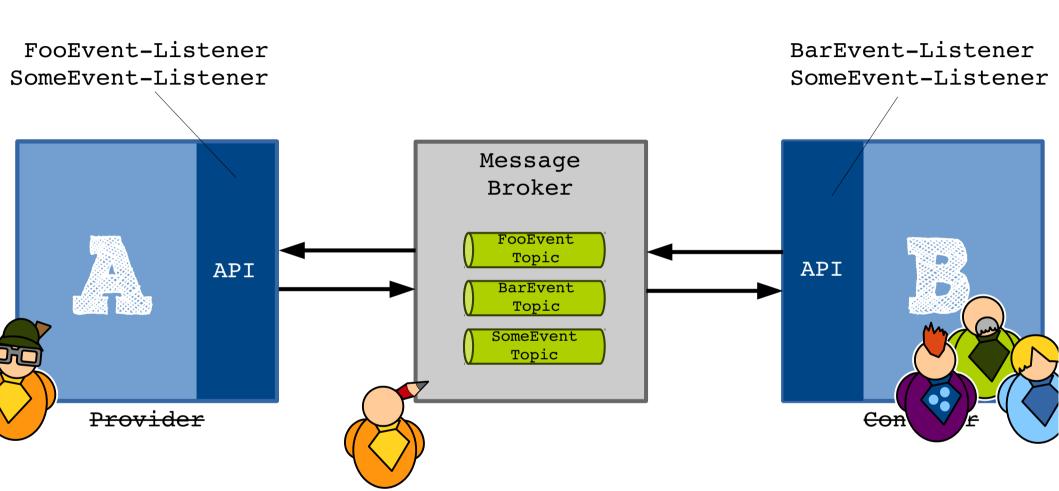


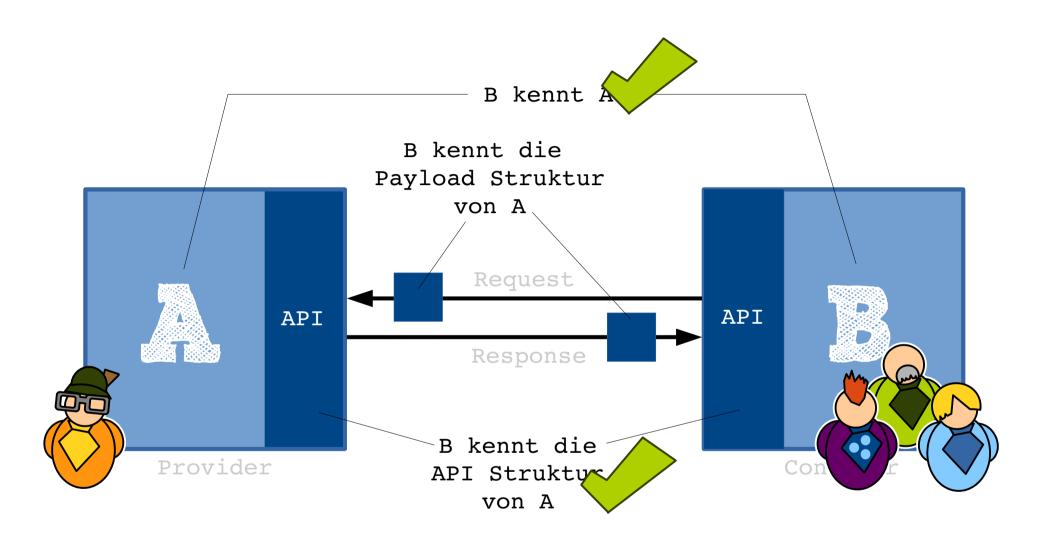




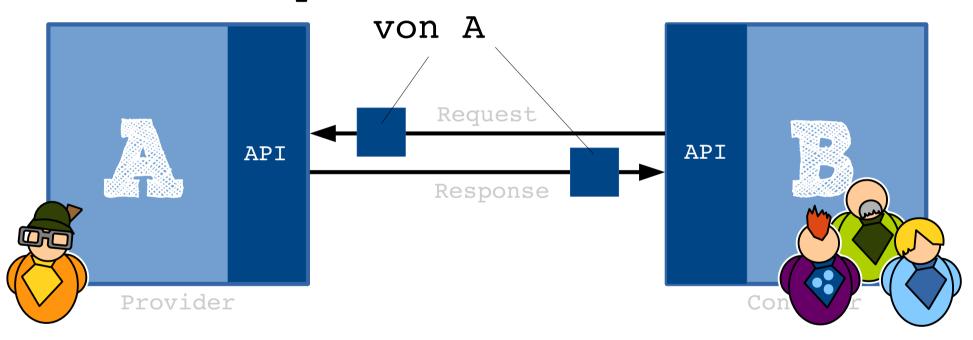






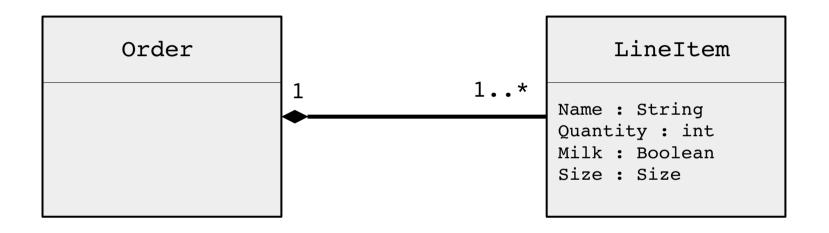


B kennt die Payload Struktur





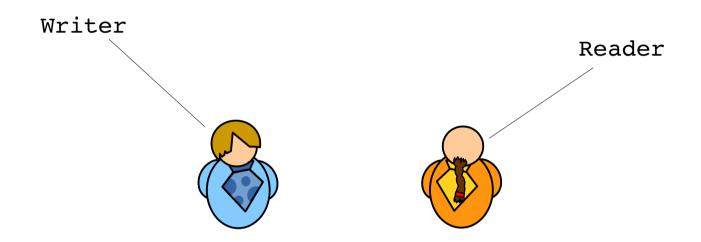




SCHEMA EVOLUTION



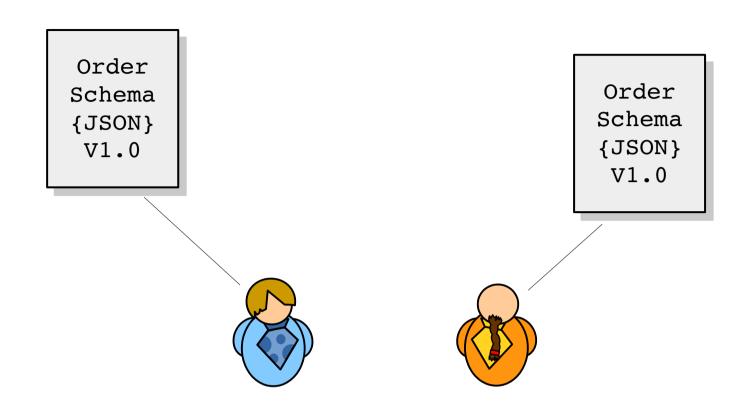




Order Schema {JSON} V1.0







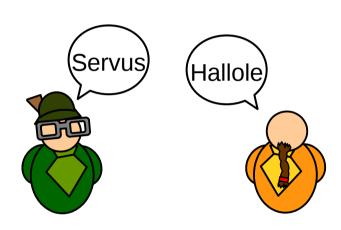
```
Version 1.0
     {
         "type": "enum",
         "name": "Sizes",
         "symbols": ["LARGE", "MIDDLE", "SMALL"]
     },
         "type": "record",
         "name": "LineItem",
         "fields": [
             {"name": "name", "type": "string"},
             {"name": "quantity", "type": "int"},
             {"name": "milk", "type": "boolean"},
             {"name": "size", "type": "Sizes"}
     },
         "type": "record",
         "name": "Order",
         "fields": [
             {"name": "item", "type": "LineItem"}
```

```
Version 1.0
         "type": "enum",
         "name": "Sizes",
                                                        Enumeration
         "symbols": ["LARGE", "MIDDLE", "SMALL"]
         "type": "record",
         "name": "LineItem",
         "fields": [
             {"name": "name", "type": "string"},
             {"name": "quantity", "type": "int"},
             {"name": "milk", "type": "boolean"},
             {"name": "size", "type": "Sizes"}
     },
         "type": "record",
         "name": "Order",
         "fields": [
             {"name": "item", "type": "LineItem"}
```

```
Version 1.0
     {
         "type": "enum",
         "name": "Sizes",
         "symbols": ["LARGE", "MIDDLE", "SMALL"]
         "type": "record",
         "name": "LineItem",
         "fields": [
             {"name": "name", "type": "string"},
                                                        LineItem Type
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         "type": "record",
         "name": "Order",
         "fields": [
             {"name": "item", "type": "LineItem"}
```

```
Version 1.0
     {
         "type": "enum",
         "name": "Sizes",
         "symbols": ["LARGE", "MIDDLE", "SMALL"]
     },
         "type": "record",
         "name": "LineItem",
         "fields": [
             {"name": "name", "type": "string"},
             {"name": "quantity", "type": "int"},
             {"name": "milk", "type": "boolean"},
             {"name": "size", "type": "Sizes"}
     },
         "type": "record",
         "name": "Order",
         "fields": [
                                                        Order Type
             {"name": "item", "type": "LineItem"}
```

```
Version 1.0
     {
         "type": "enum",
         "name": "Sizes",
         "symbols": ["LARGE", "MIDDLE", "SMALL"]
     },
         "type": "record",
         "name": "LineItem",
         "fields": [
             {"name": "name", "type": "string"},
             {"name": "quantity", "type": "int"},
             {"name": "milk", "type": "boolean"},
             {"name": "size", "type": "Sizes"}
     },
         "type": "record",
         "name": "Order",
         "fields": [
             {"name": "item", "type": "LineItem"}
```



Order Schema {JSON} V2.0





Order Schema {JSON} V2.0

Order Schema {JSON} V1.0

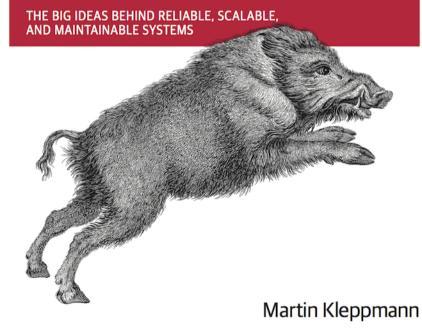




```
Version 2.0
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     },
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         "fields": [
             {"name": "name", "type": "string"},
             {"name": "quantity", "type": "int"},
             {"name": "milk", "type": "boolean"},
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     },
         "type": "record",
         "name": "Order",
         "fields": [
             {"name": "item", "type": "LineItem"}
```

O'REILLY®

Designing Data-Intensive Applications



Schema Registry Server:

spring-cloud-stream-schema-server als Dependency

@EnableSchemaRegistryServer

Schema Registry Client:

spring-cloud-stream-schema als Dependency

@EnableSchemaRegistryClient

Funktioniert auch mit der confluent schema registry (https://www.confluent.io/)