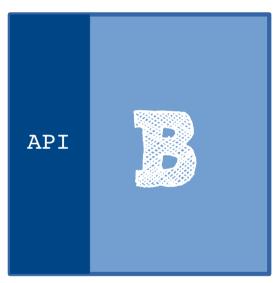


Wenn

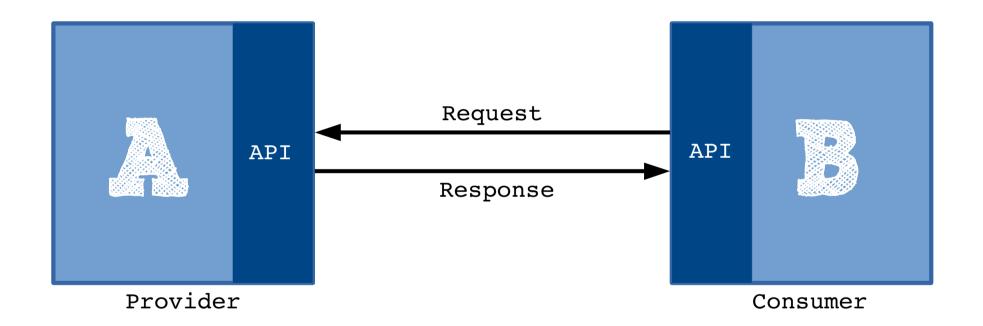
alt werden...

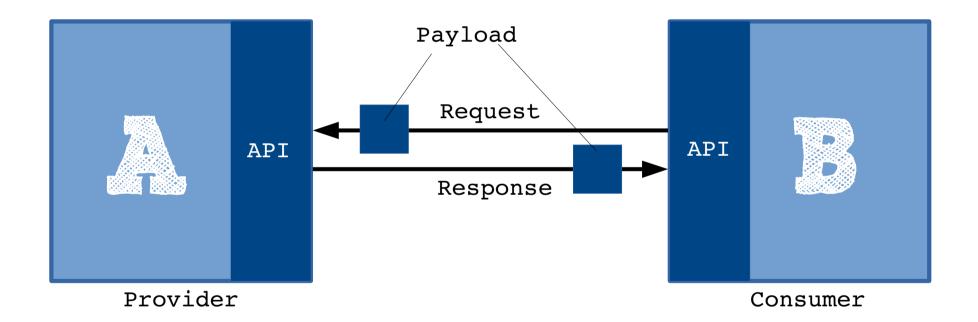


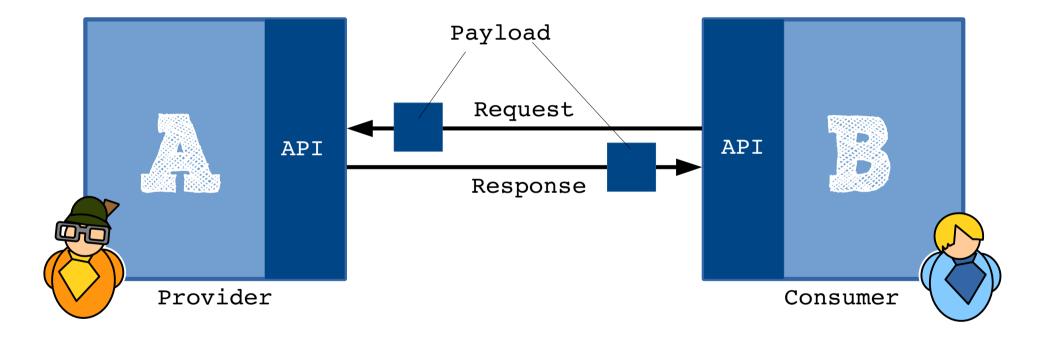
Provider

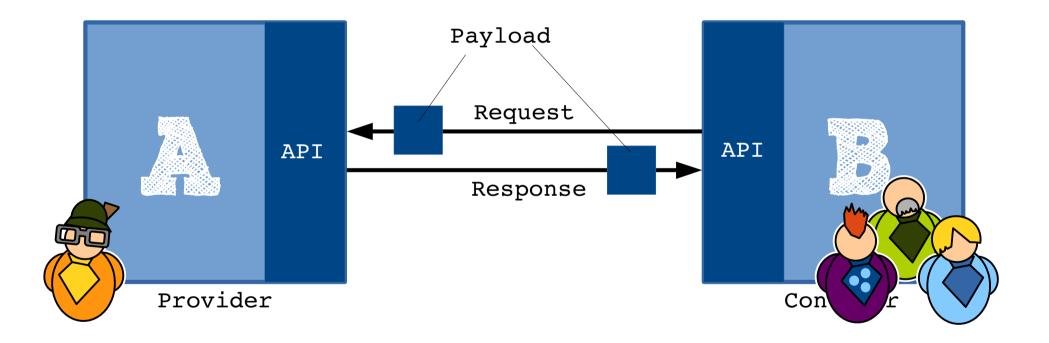


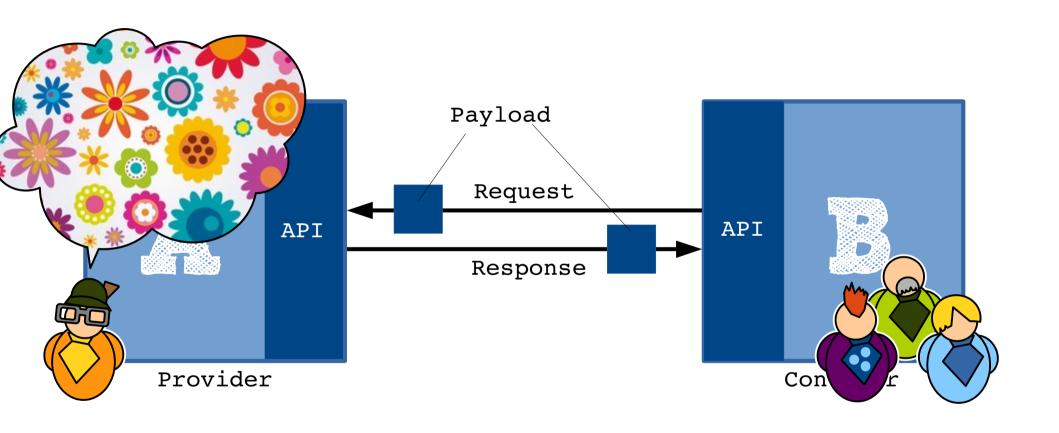
Consumer

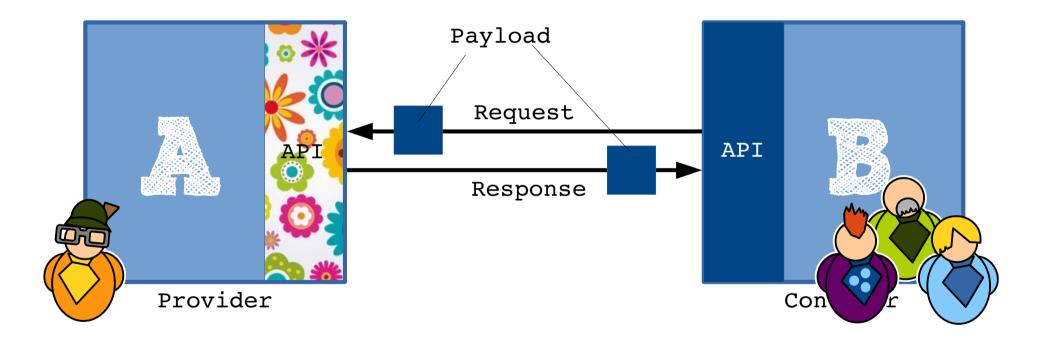


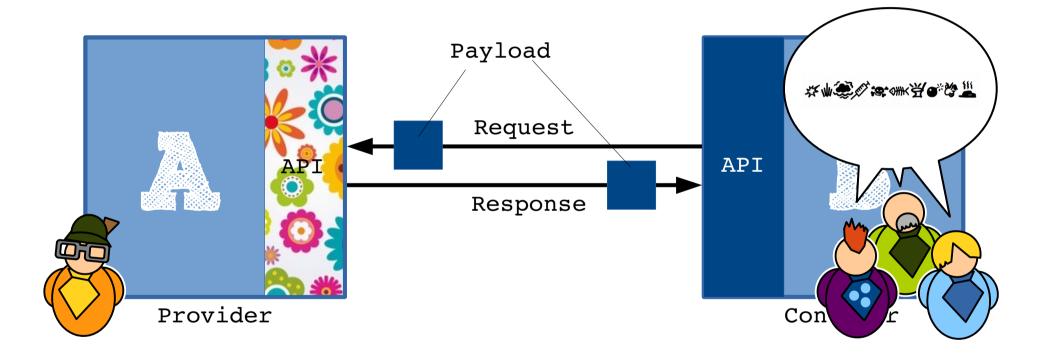


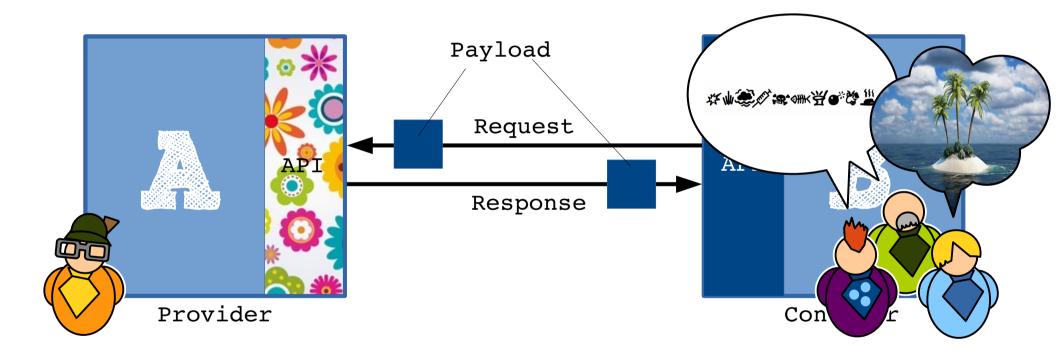


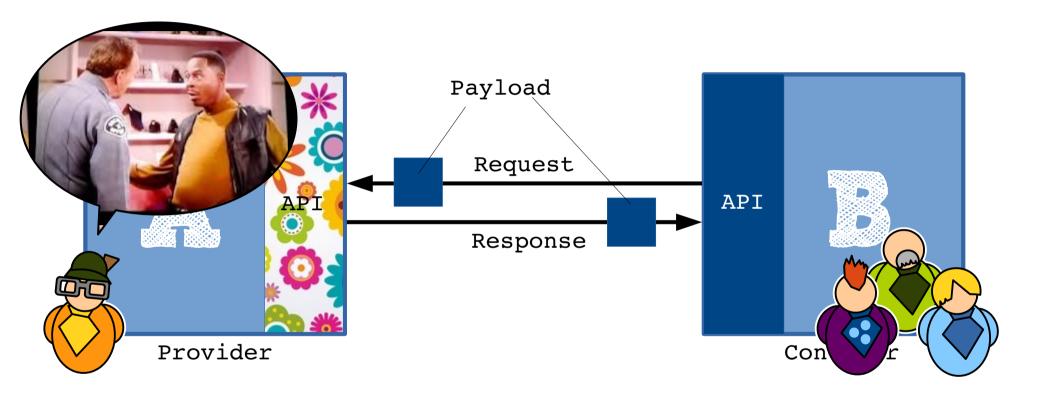


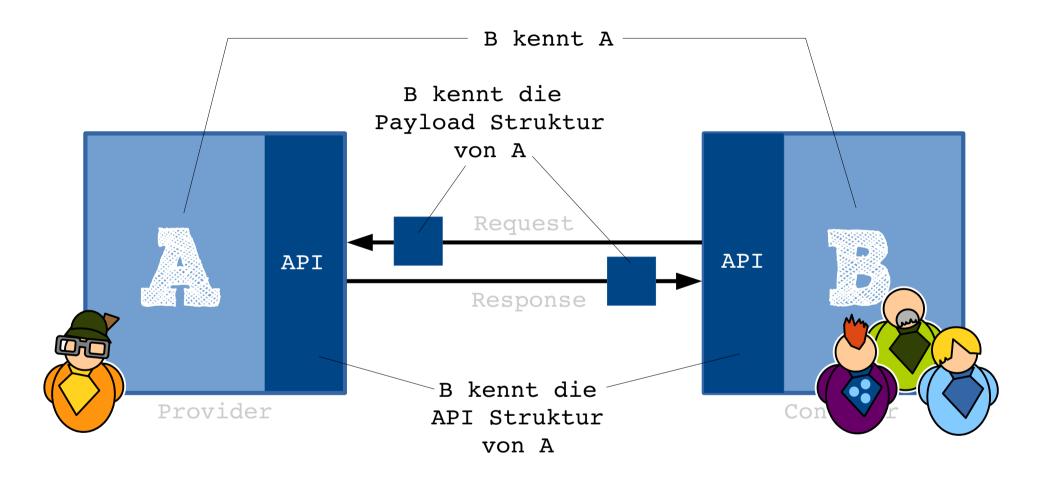






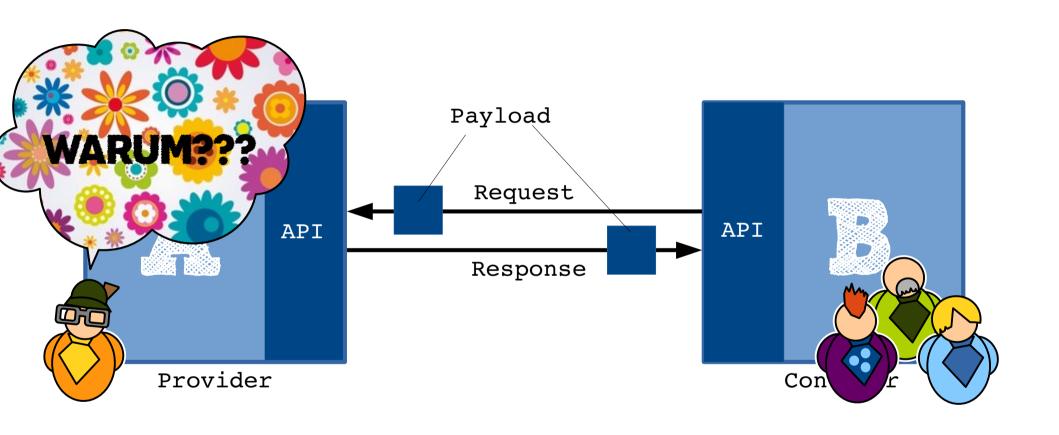


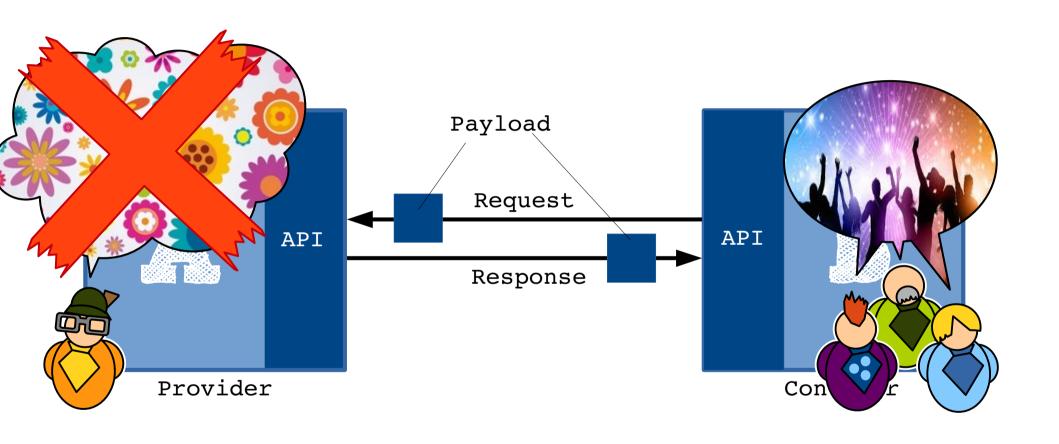




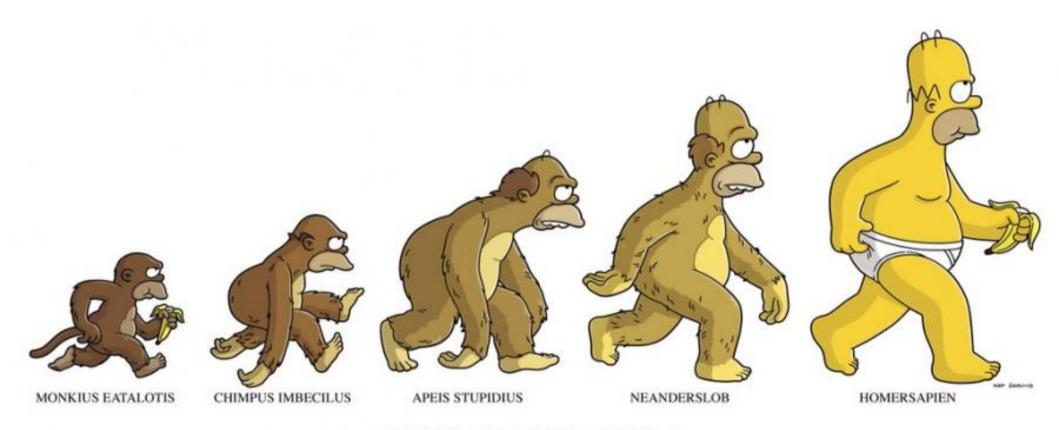
System muss ziemlich viel von System

kennen, damit die Kommunikation funktioniert!



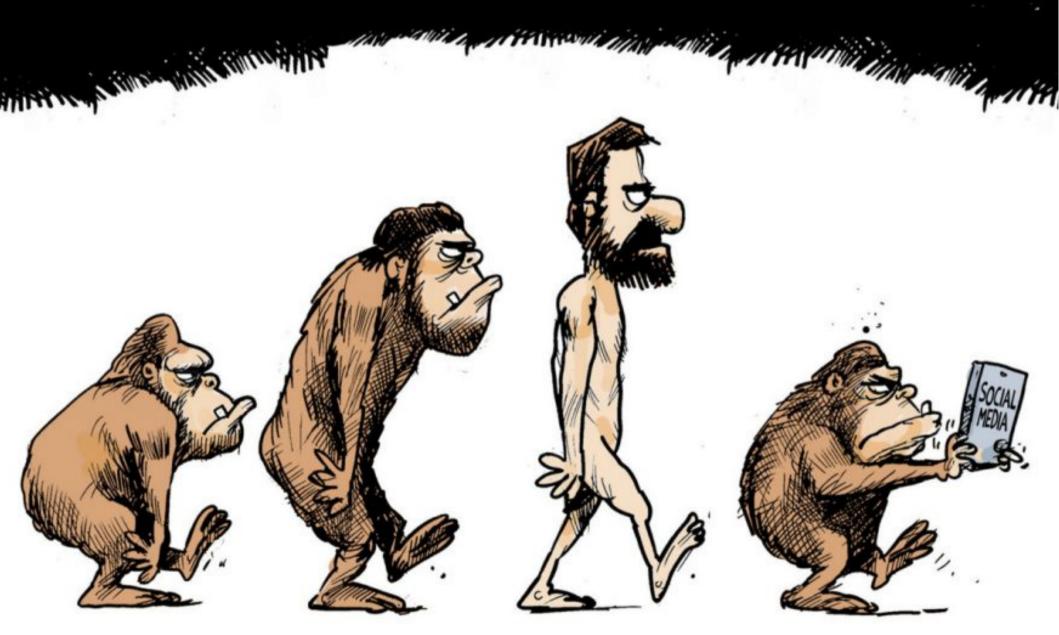


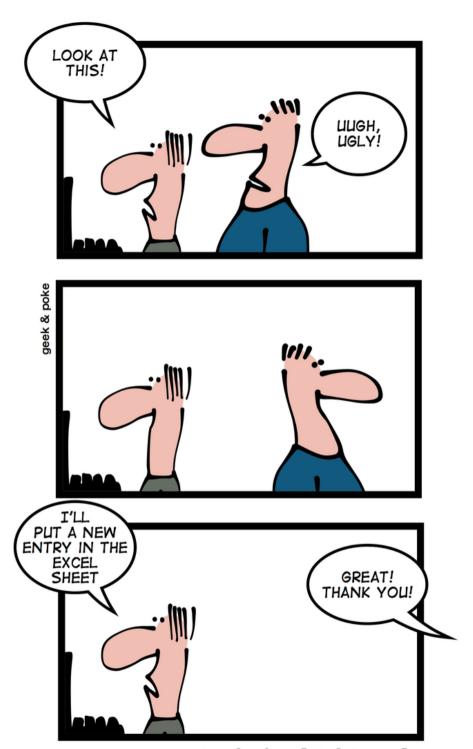
EVOLUTION



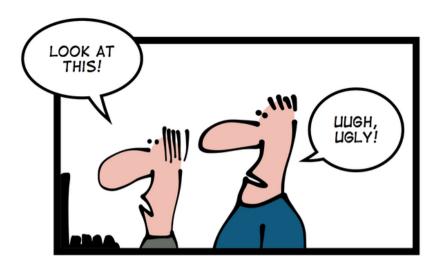
HOMERSAPIEN

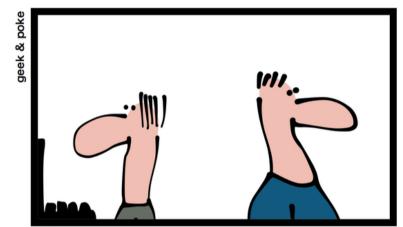
EVOLUTION 2.0





technicalDebts.xls

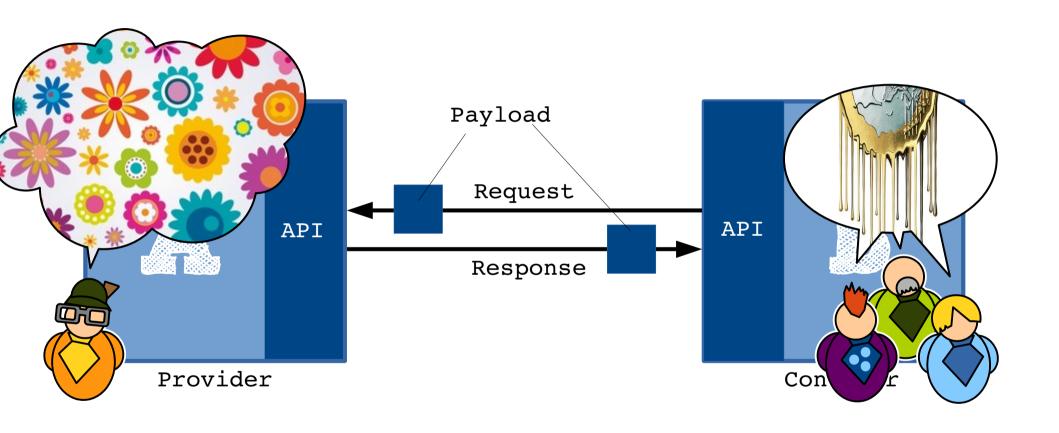


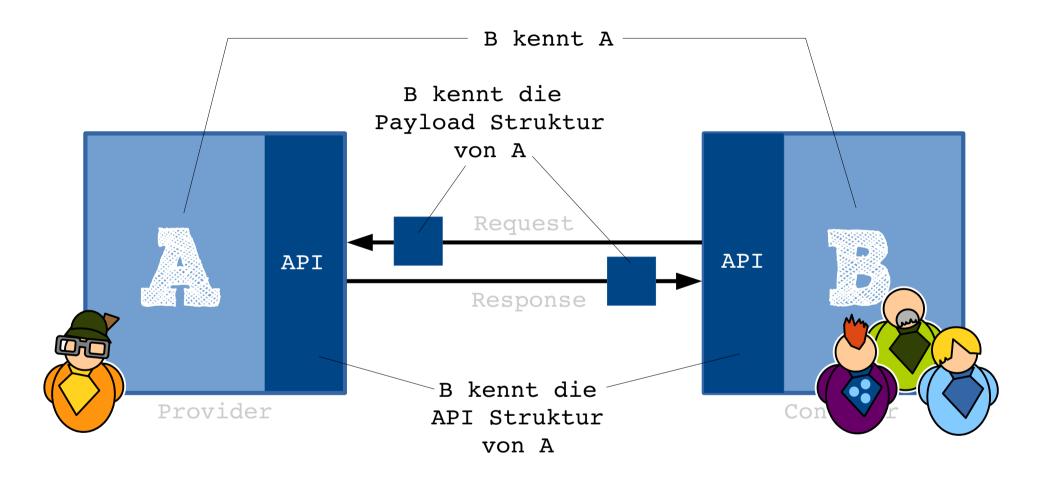


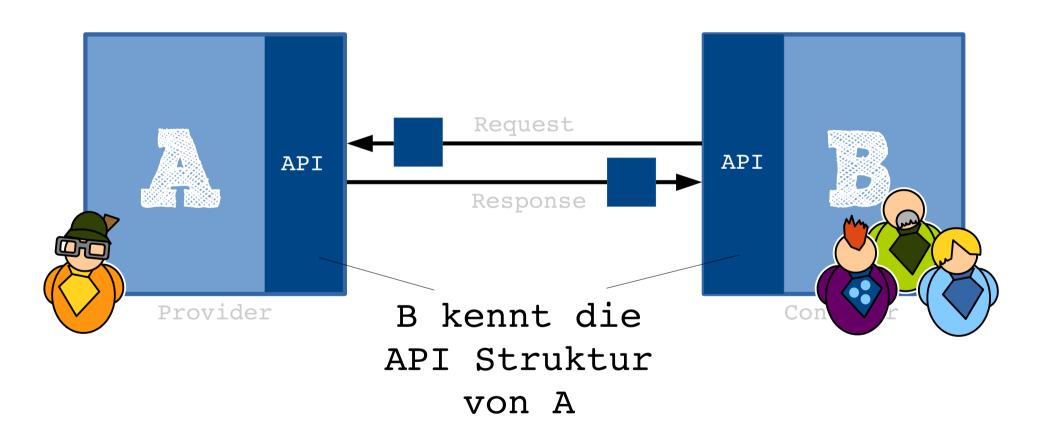


technicalDebts.xls

TECHNICAL DEPT







RESTBUCKS, THE SAMPLE

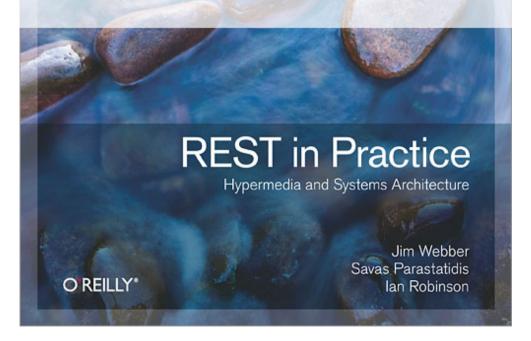


http://codebetter.com/glennblock/2011/06/06/rest-in-practice-the-book-restbucks-the-sample

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

https://speakerdeck.com/olivergierke

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





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

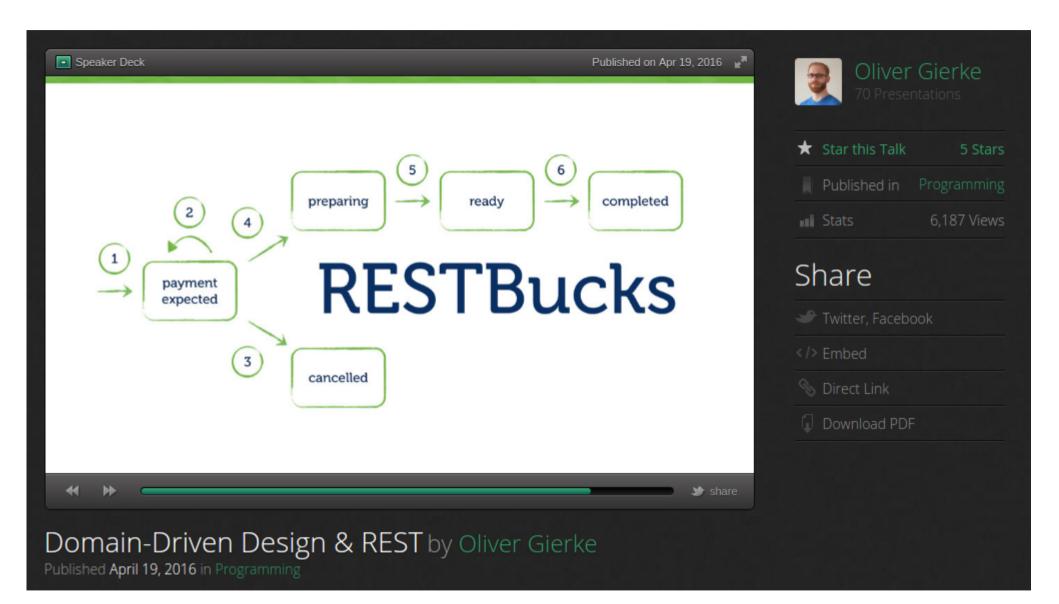


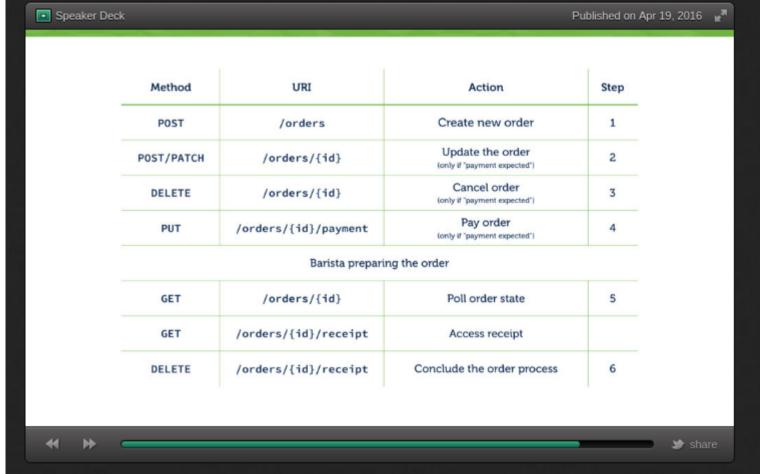
https://RESTBUCKS.IO/V2/CREATE ORDER



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

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

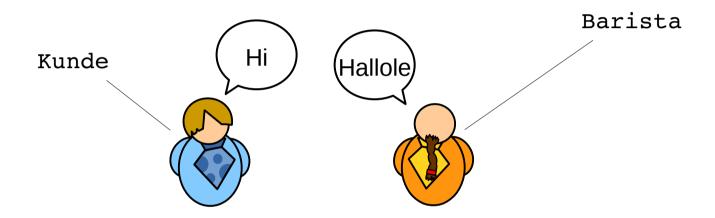






Domain-Driven Design & REST by Oliver Gierke

Published April 19, 2016 in Programming

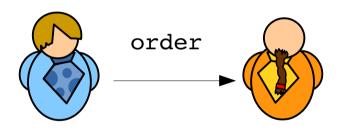


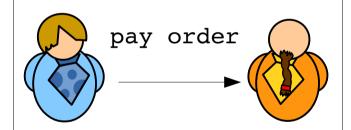
SCHRITTI

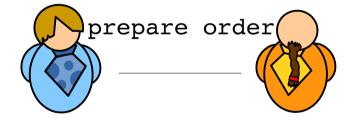
SCHRIIT 2

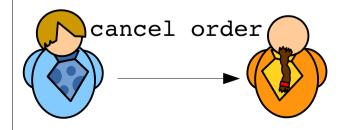
SCHRITT 3





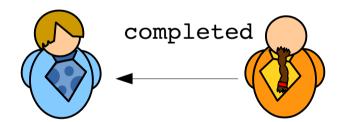






SCHRITT 4

SCHRITT 5





drink

HATEOAS

Hypermedia

As

The

Engine

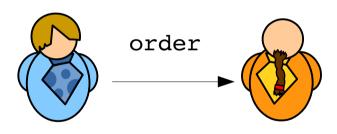
Of

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}

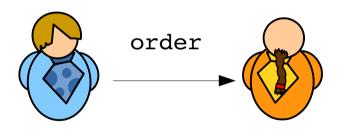
pay order

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}

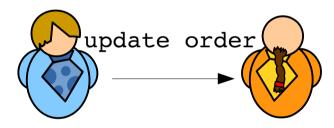
pay order

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

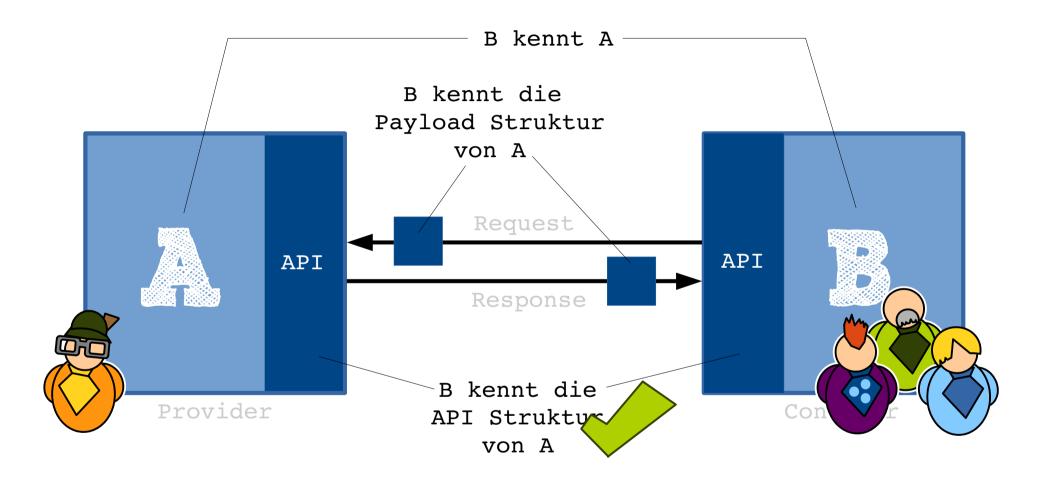
DELETE: RESTBUCKS.io/v2/order/1

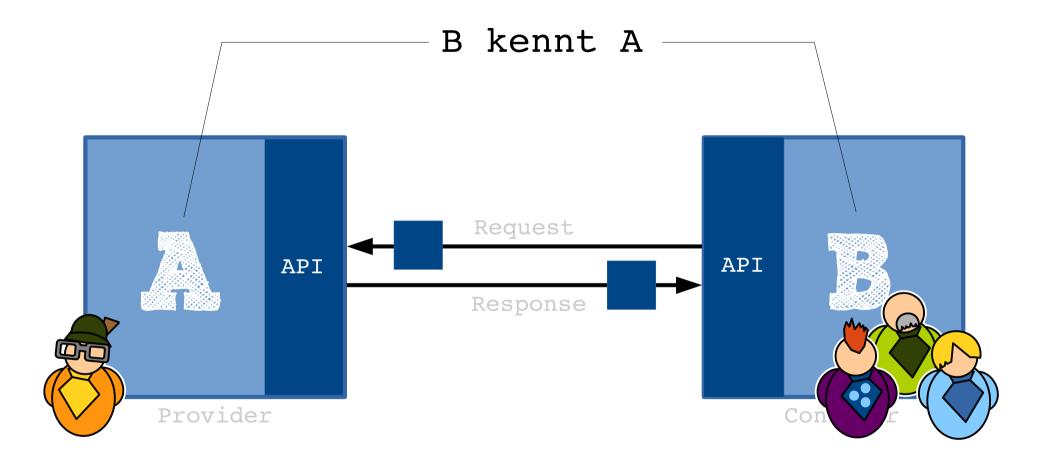
RESTBUCKS.io/v2/order/{id}

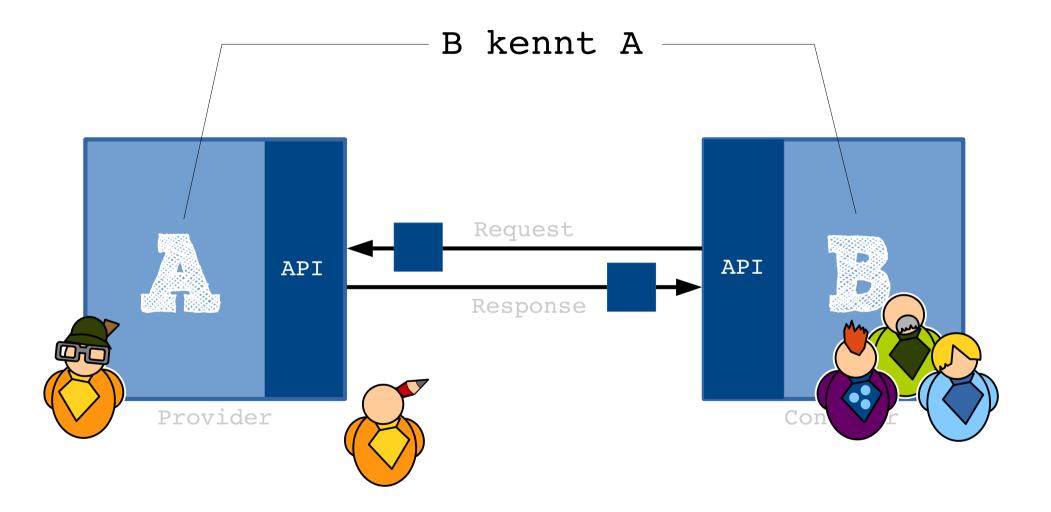
pay order

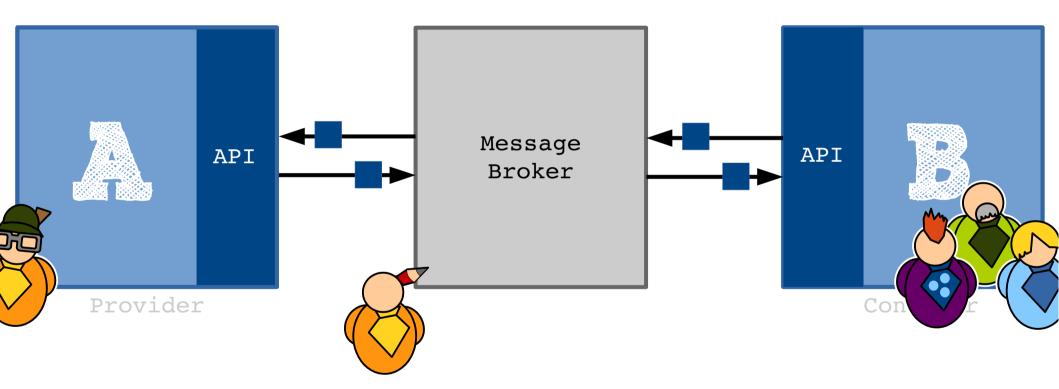
PUT: RESTBUCKS.io/v2/order/1/payment

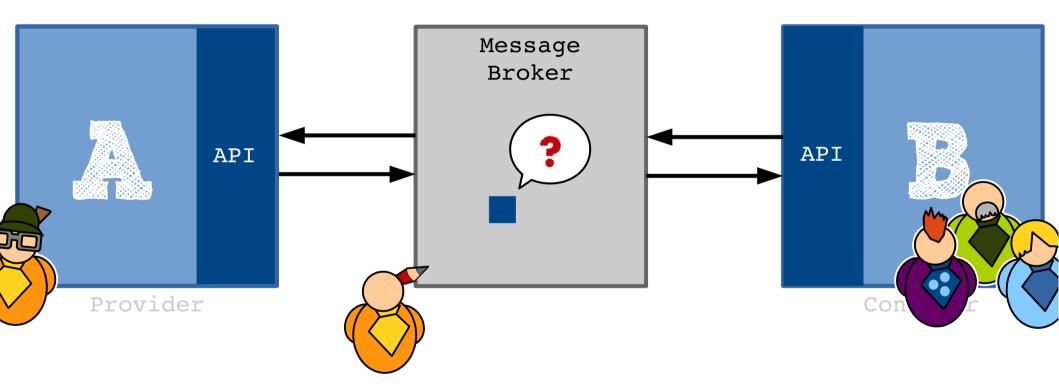
RESTBUCKS.io/v2/order/{id}/payment









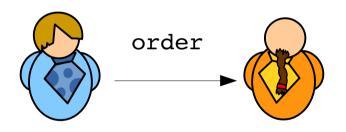


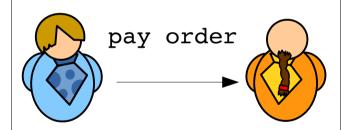
SCHRITTI

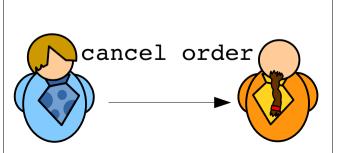
SCHRITT 2

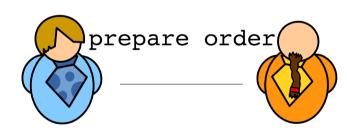
SCHRITT 3











SCHRITTI

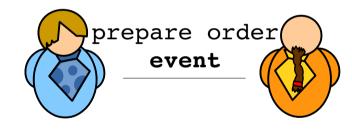
SCHRITT 2

SCHRITT 3

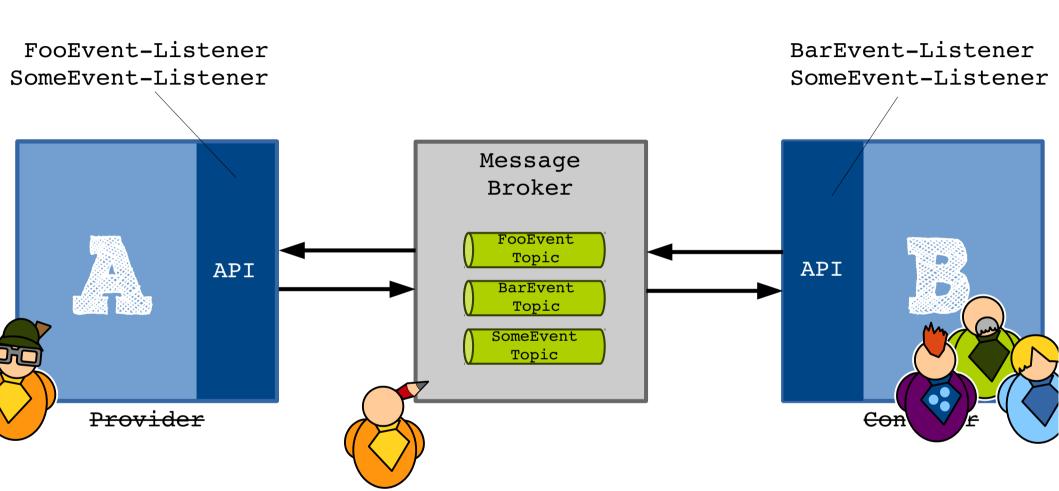


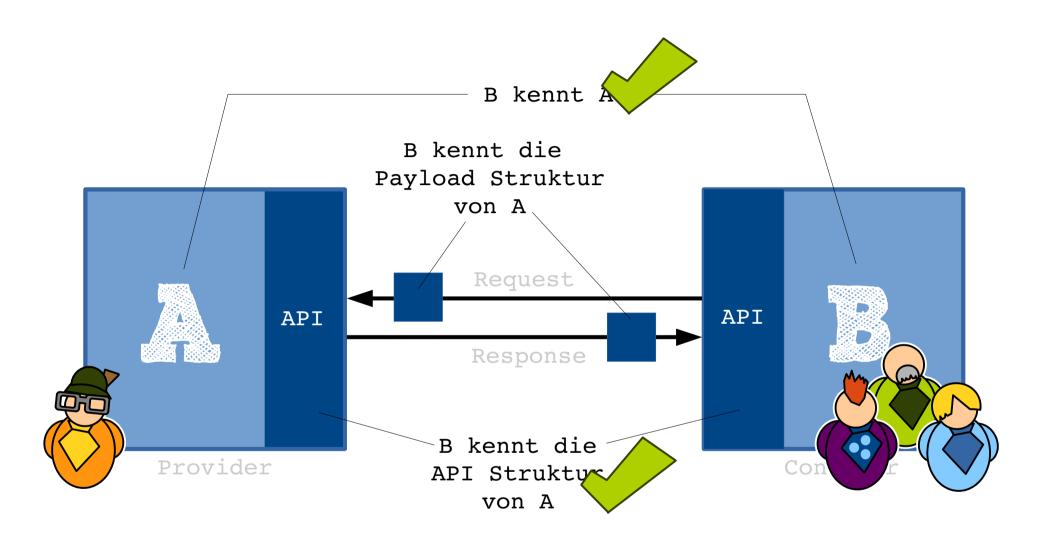




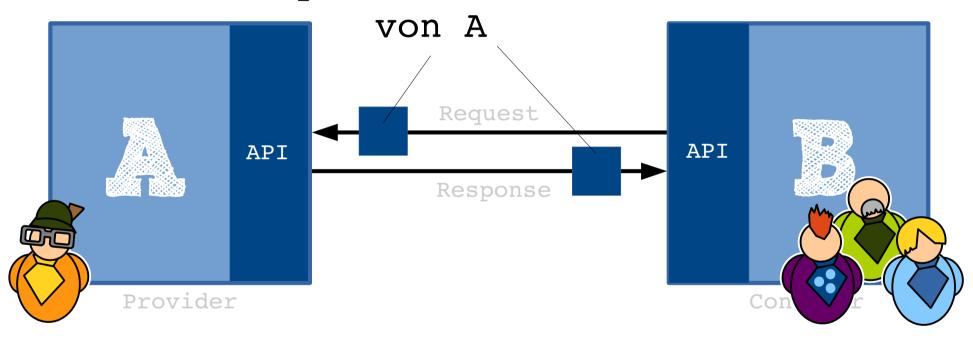






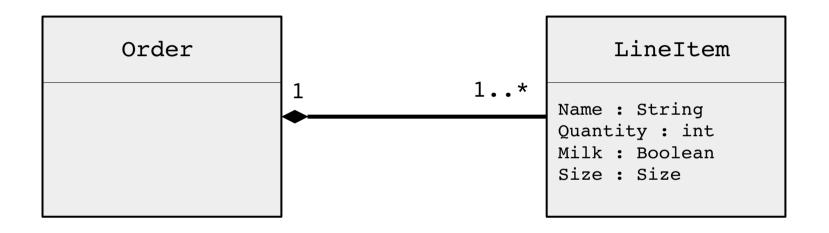


B kennt die Payload Struktur





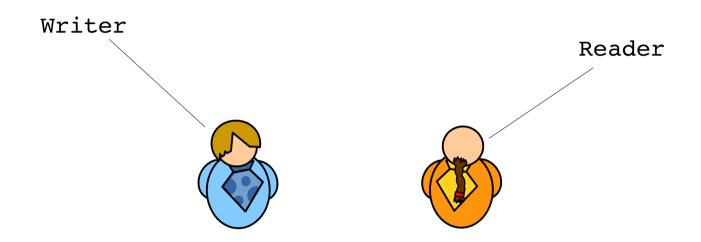




SCHEMA EVOLUTION





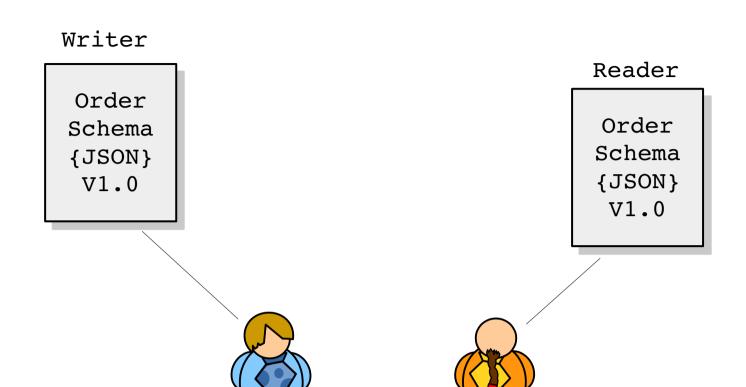


Writer

Order Schema {JSON} V1.0





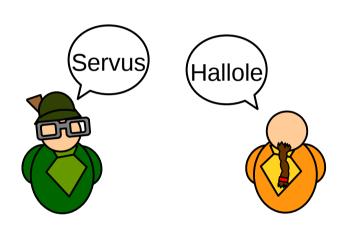


```
Version 1.0
     {
```

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    "fields": [
        {"name": "name", "type": "string",
          "default": "coffee"},
        {"name": "quantity", "type": "int",
          "default": "1"},
        {"name": "milk", "type": "boolean",
          "default": "false"}
},
    "namespace": "de.muenchen.jfs17",
    "type": "record",
    "name": "Order",
    "fields": [
        {"name": "item", "type": "LineItem"}
```

```
"namespace": "de.muenchen.jfs17",
"type": "record",
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"fields": [
    {"name": "name", "type": "string",
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                                              LineItem Type
    {"name": "quantity", "type": "int",
      "default": "1"},
    {"name": "milk", "type": "boolean",
      "default": "false"}
"namespace": "de.muenchen.jfs17",
"type": "record",
"name": "Order",
"fields": [
    {"name": "item", "type": "LineItem"}
```

```
"namespace": "de.muenchen.jfs17",
    "type": "record",
    "name": "LineItem",
    "fields": [
        {"name": "name", "type": "string",
          "default": "coffee"},
        {"name": "quantity", "type": "int",
          "default": "1"},
        {"name": "milk", "type": "boolean",
          "default": "false"}
},
    "namespace": "de.muenchen.jfs17",
    "type": "record",
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    "fields": [
                                                  Order Type
        {"name": "item", "type": "LineItem"}
```

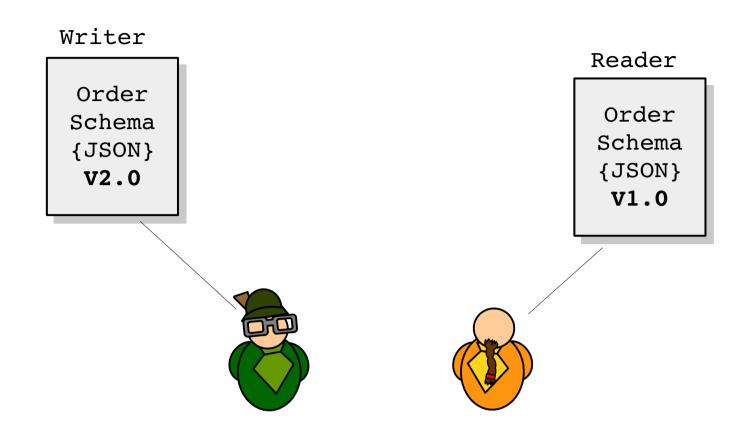


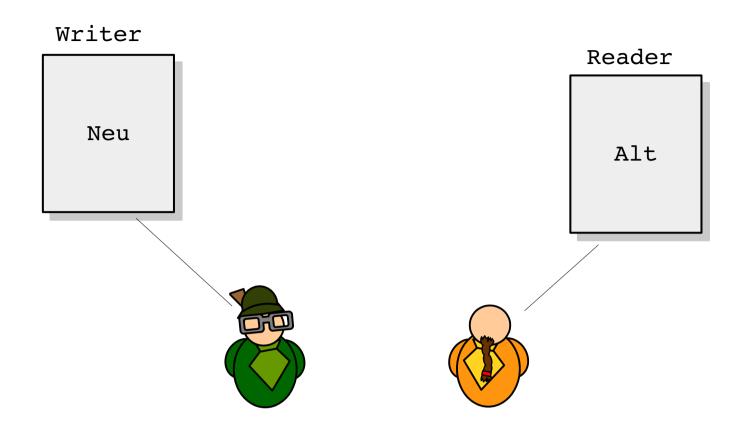
Writer

Order Schema {JSON} **V2.0**

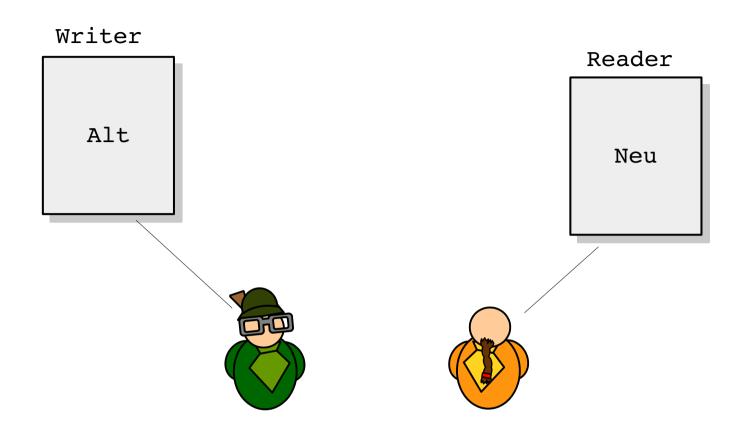








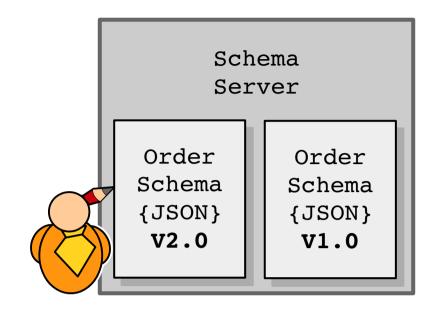
Vorwärtskompatibilität



Rückwärtskompatibilität

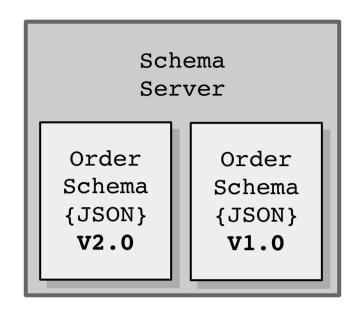
```
Version 2.0
     {
```

```
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    "name": "Sizes",
    "symbols": ["LARGE", "MIDDLE", "SMALL"]
},
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    "type": "record",
    "name": "RechnungsPosten",
    "aliases": ["LineItem"],
    "fields": [
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          "default": "coffee"},
        {"name": "quantity", "type": "int",
          "default": "1"},
        {"name": "milk", "type": "boolean",
          "default": "false"},
        {"name": "size", "type": "Sizes",
          "default": "MIDDLE"}
},
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    "name": "Bestellung",
    "aliases": ["Order"],
    "fields":
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```

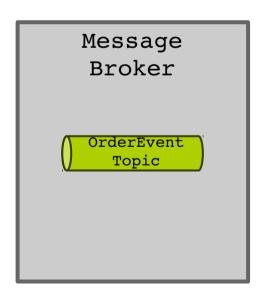


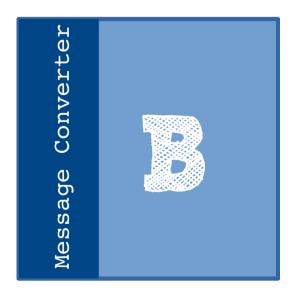
1 gr. Kaffee ohne Milch 2 kl. Kaffee mit Milch

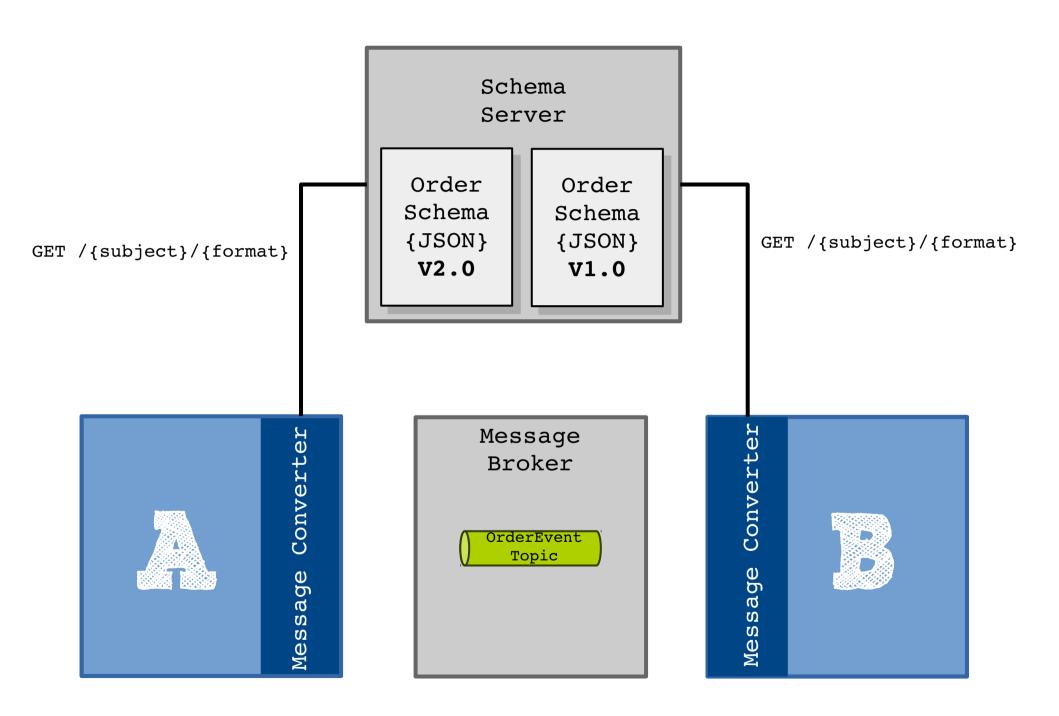


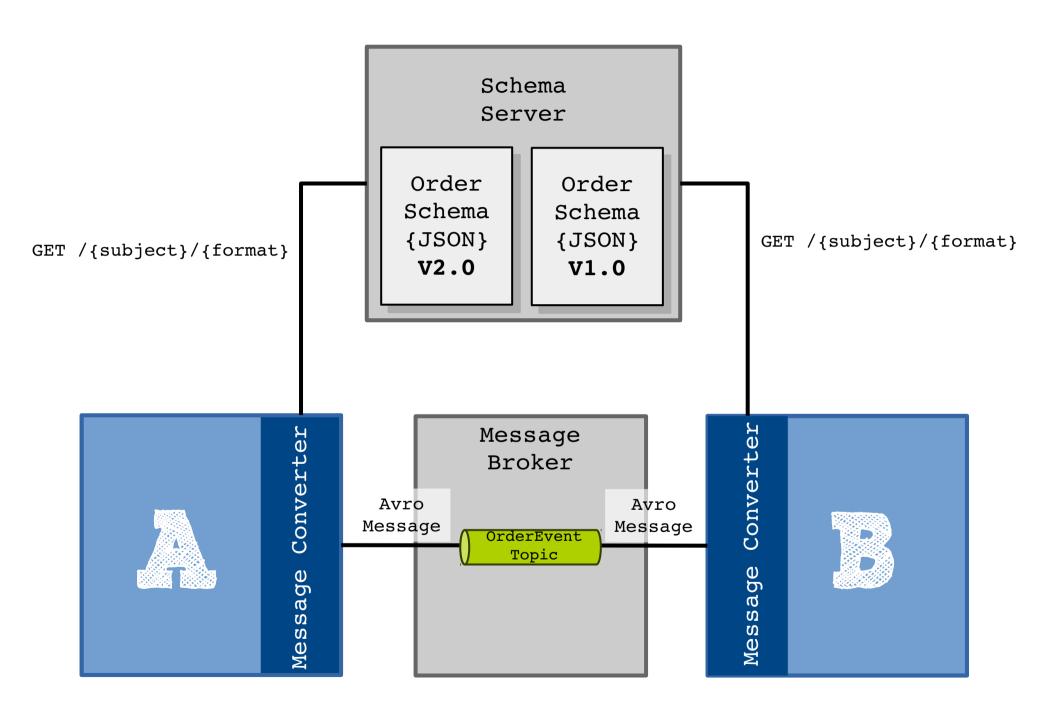


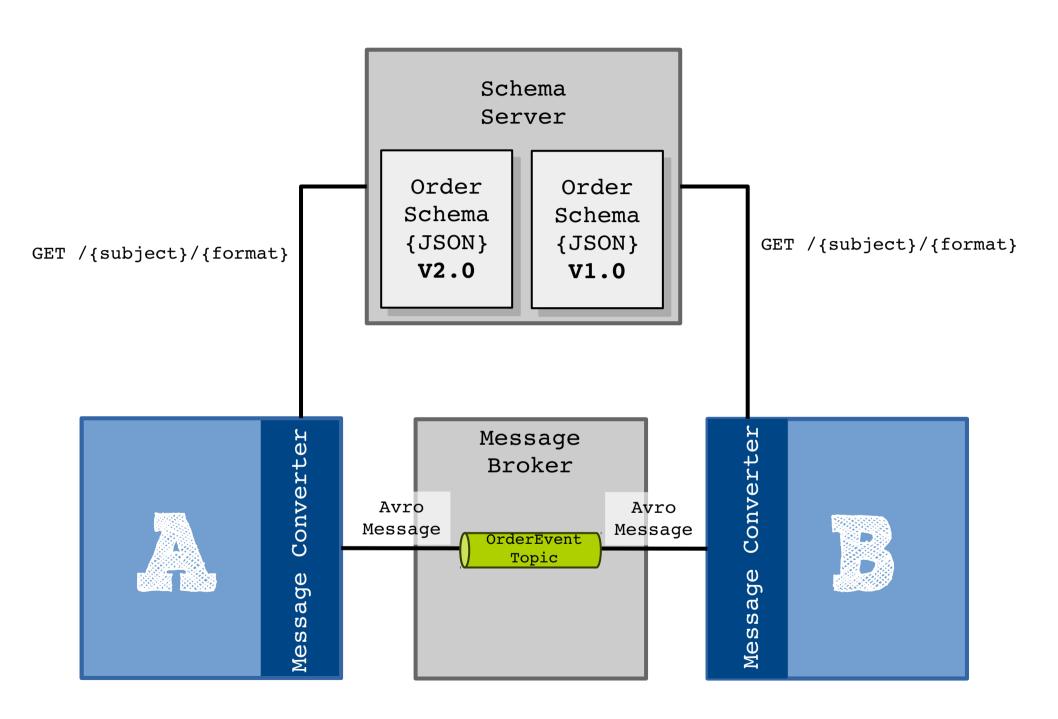








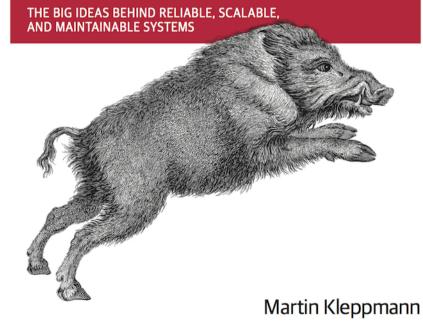




https://cloud.spring.io/spring-cloud-stream/

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Designing Data-Intensive Applications

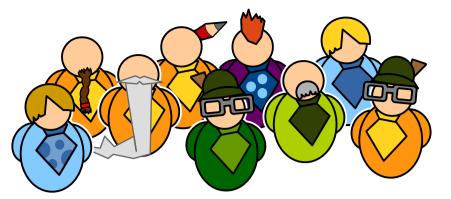




https://github.com/xdoo/schema_evolution_demo



https://speakerdeck.com/xdoo



FERZLICHEN DANK FUR DIE AUFMERKSAMHEIT

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claus.straube@muenchen.de



@clausstraube