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## Stomp 👺

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### **Outline**

- STOMP
- Why use STOMP?
- Communication
- Headers
- Connection
- Heartbeat
- **Frames**





### **STOMP**





### **STOMP**



\*Mandatory impact image



### Why use STOMP?





# Stomp 3

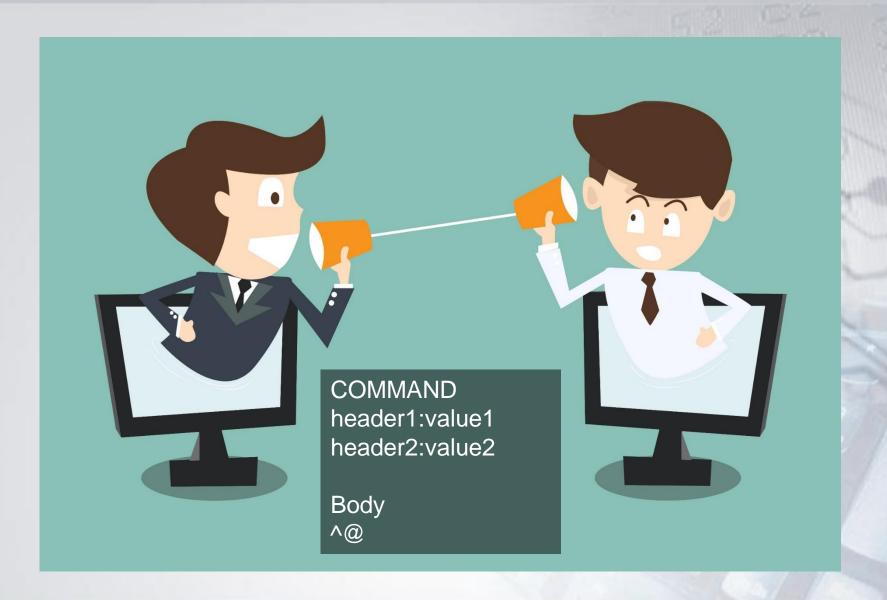


### Communication





### Communication





### Headers

#### COMMAND

content-length:50

content-type:text/html;charset=utf-16

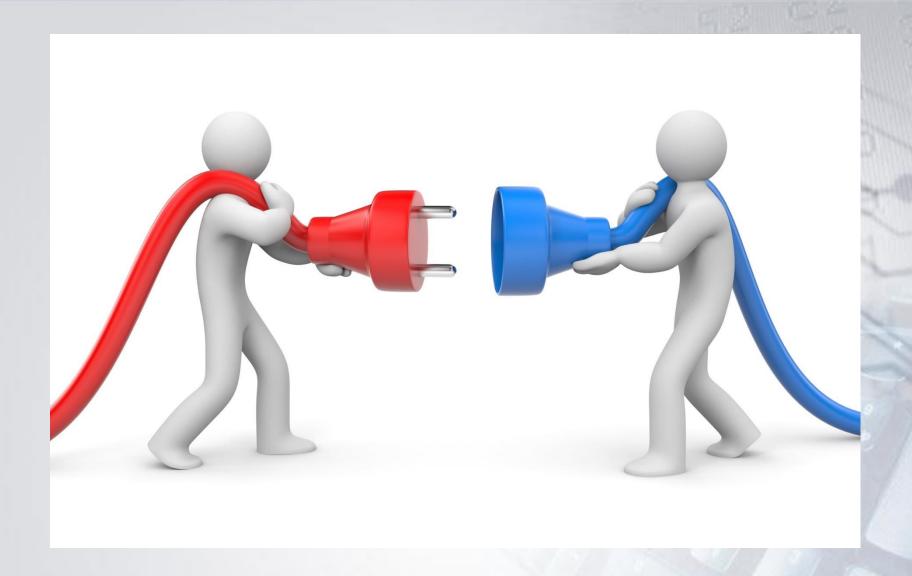
receipt:arbitraryString

receipt:y-u-repeat-header?

Body



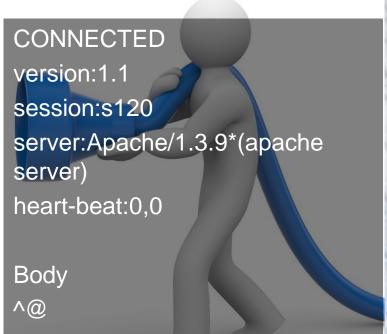
### Connection





### Connection







### Connection (StompJS)

#### **Stomp Client**

```
let url = "ws://localhost:61614/stomp";
let client = Stomp.client(url);
```

#### Connection

```
client.connect(login, passcode, connectCallback, errorCallback);

var headers = {
    'login': 'mylogin',
    'passcode': 'mypasscode',
    // additional header
    'client-id': 'my-client-id'

};

client.connect(headers, connectCallback, errorCallback);
```

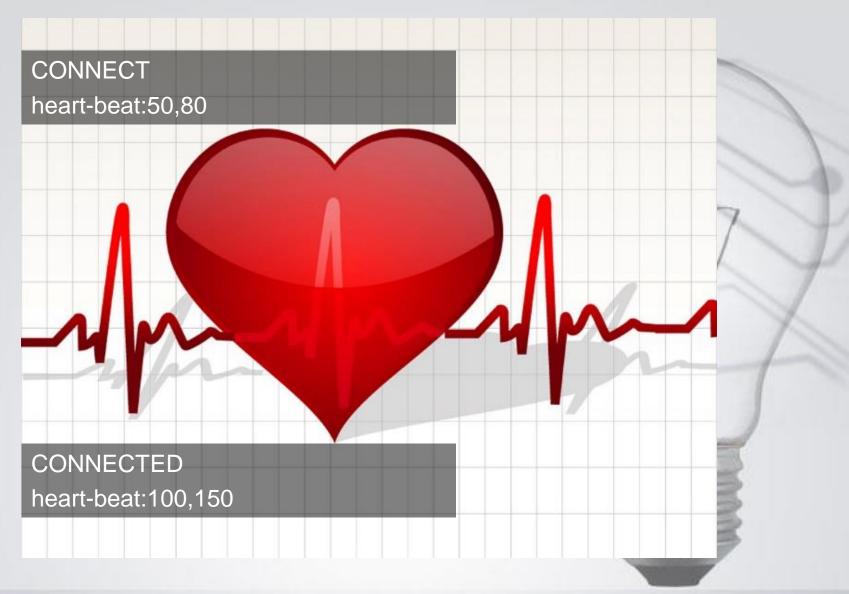


### Heartbeat





### Heartbeat





#### **SEND**

destination:/zbra-chat/messages/1

content-length:50

content-type:application/json

irrelevant-header:isIrrelevant

{ user: { username: 'zbra054', email: 'zbra054@haha.com' }, text: 'Hello! ' }



#### **SEND**

destination:/zbra-chat/messages/1

content-length:50

content-type:application/json

irrelevant-header:isIrrelevant

{ user: { username: 'zbra054', email: 'zbra054@haha.com' }, text: 'Hello! ' }

^@

#### SUBSCRIBE

ld:0

destination:/queue/messages/1

ack:client



#### **SEND**

destination:/zbra-chat/messages/1

content-length:50

content-type:application/json

irrelevant-header:isIrrelevant

{ user: { username: 'zbra054', email: 'zbra054@haha.com' }, text: 'Hello! ' }

^@

#### SUBSCRIBE

ld:0

destination:/queue/messages/1

ack:client

**^**@

#### UNSUBSCRIBE

id:0

10



#### SEND

```
client.send("/queue/test", {priority: 9}, "Hello, STOMP");
```

#### SUBSCRIBE & UNSUBSCRIBE

```
let callback = function(message) {
    if (message.body) {
        alert("got message with body " + message.body)
    } else {
        alert("got empty message");
    }
};

var subscription = client.subscribe("/queue/test", callback);
subscription.unsubscribe();
```



ACK id:12345

transaction:tx1



ACK id:12345 transaction:tx1

**^**@

NACK id:12345

transaction:tx1



ACK id:12345

transaction:tx1

**^**@

NACK

id:12345

transaction:tx1

**^**@

DISCONNECT

receipt:xd



```
ACK
id:12345
transaction:tx1
^@
```

```
NACK
id:12345
transaction:tx1
10
```

```
DISCONNECT
receipt:xd
^@
```

```
var subscription = client.subscribe("/queue/test",
    function(message) {
       message.ack();
    },
    {ack: 'client'}
```



BEGIN

transaction:tx1



BEGIN

transaction:tx1

**^**@

COMMIT

transaction:tx1



BEGIN

transaction:tx1

**^**@

COMMIT

transaction:tx1

**^**@

ABORT

transaction:tx1



### BEGIN transaction:tx1 ^@

```
COMMIT transaction:tx1
```

```
ABORT transaction:tx1
```

```
var subscription = client.subscribe("/queue/test",
    function(message) {
       var tx = client.begin();
       message.ack({ transaction: tx.id, receipt: 'my-receipt' });
       tx.commit();
    },
    {ack: 'client'}
);
```



#### MESSAGE

subscription:0

message-id:007

destination:/queue/messages/1

content-type:application/json

{ user: { username: 'zbra054', email: 'zbra054@haha.com' }, text: 'Hello! ' }



```
MESSAGE
subscription:0
message-id:007
destination:/queue/messages/1
content-type:application/json

{ user: { username: 'zbra054', email: 'zbra054@haha.com' }, text: 'Hello! ' }
^@
```

```
@MessageMapping("/join/{roomId}")
@SendToUser(value = "/queue/room/{roomId}")
public Room joinRoom(@DestinationVariable String roomId, @Payload User user) {
    final Optional<Room> room = roomRepository.findById(roomId);
    if (room.isPresent()) {
        room.get().getUsers().add(user);
        return room.get();
    }
    return null;
}
```



RECEIPT

receipt-id:xd

<u>۸@</u>



#### RECEIPT

receipt-id:xd

**^**@

#### ERROR

receipt-id:xd

content-type:application/json

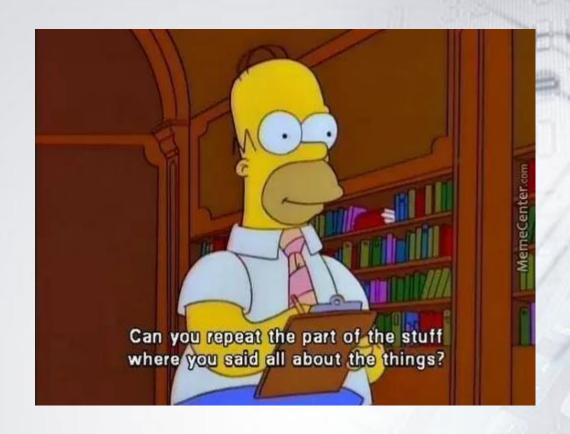
content-length:171

message:message could not be processed

{ faultReason: 'User zbra054 has been removed, try using zbra54' }



### Questions







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