

ralph.debusmann@forecasty.ai

Please do



No-Code Deep Tech for the Future.

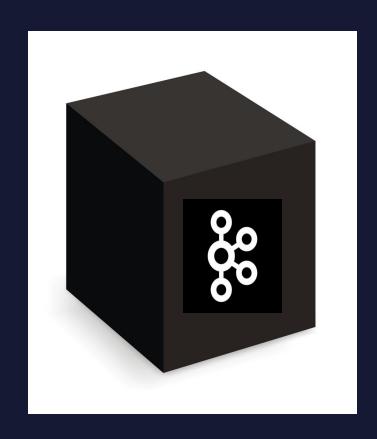


"Kafka is Like a Black Box – You Can't See What's Inside"





1. Transfer the Data from the Topics to a Database

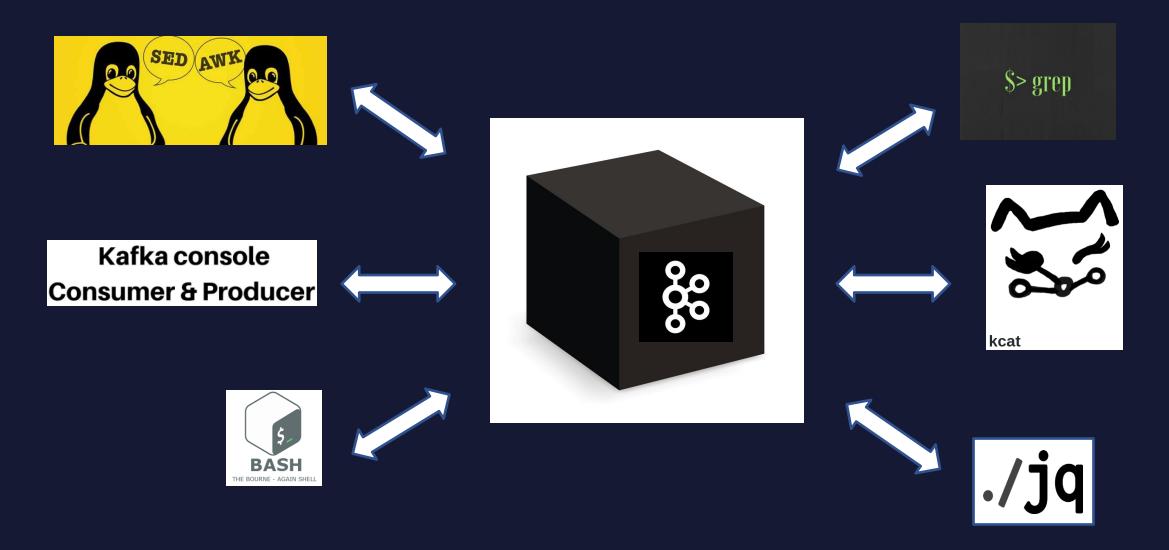






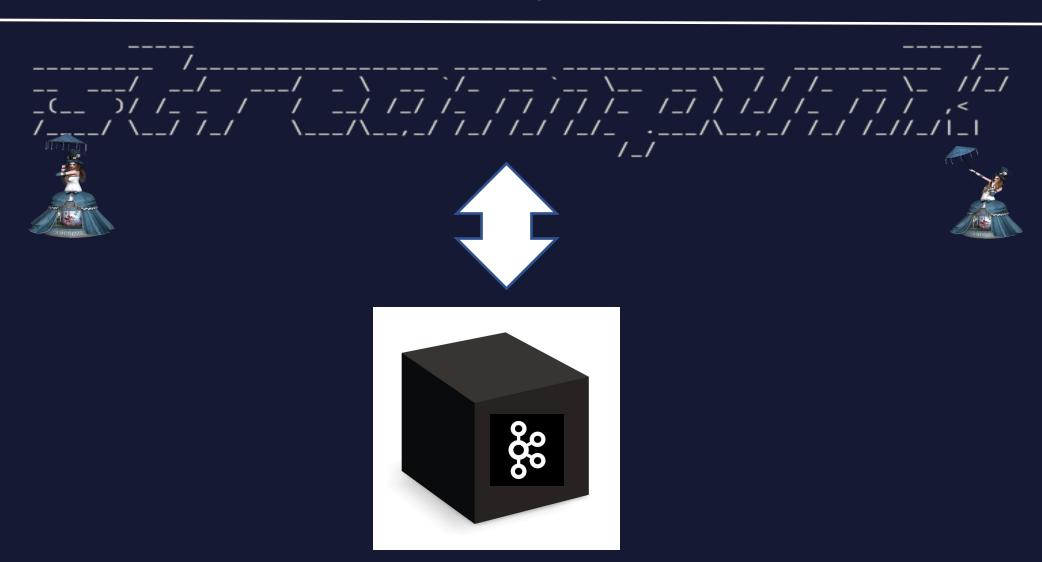


2. Use the well-known eclectic mix of Bash, Apache Kafka CLI tools, kcat...



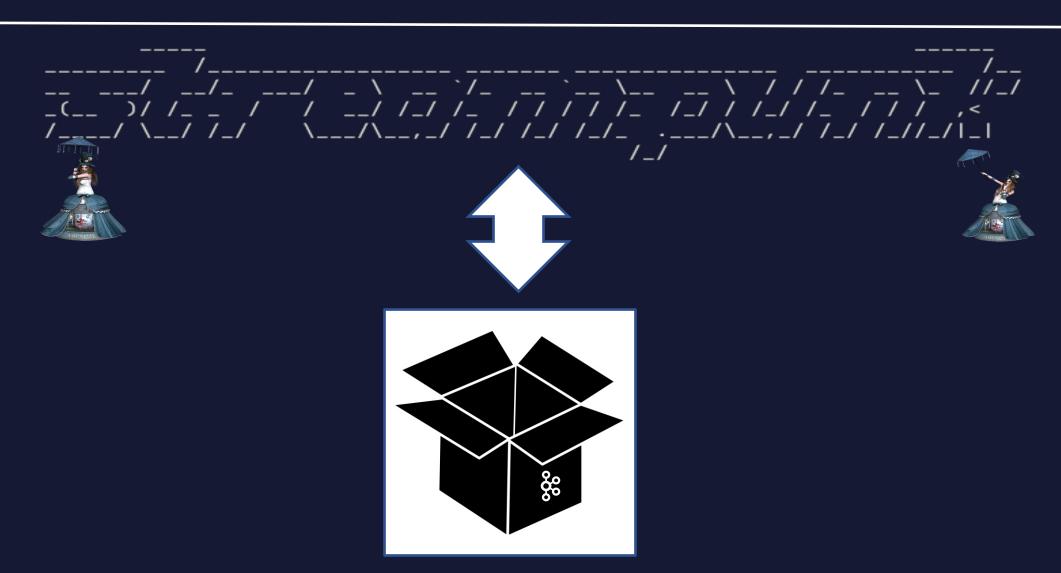


This Is How Streampunk Was Born



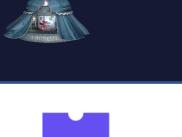


Streampunk Unlocks the Kafka Black Box





Streampunk is a Polyglot Programmable Shell for Kafka





















Streampunk Is Standing on the Shoulders of Giants









Streampunk Is Standing on the Shoulders of Giants









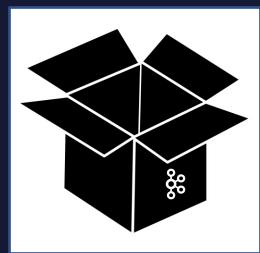
Streampunk Enables Polyglot Message Transforms for All Kafkas













Streampunk Enables Polyglot Message Transforms for All Kafkas















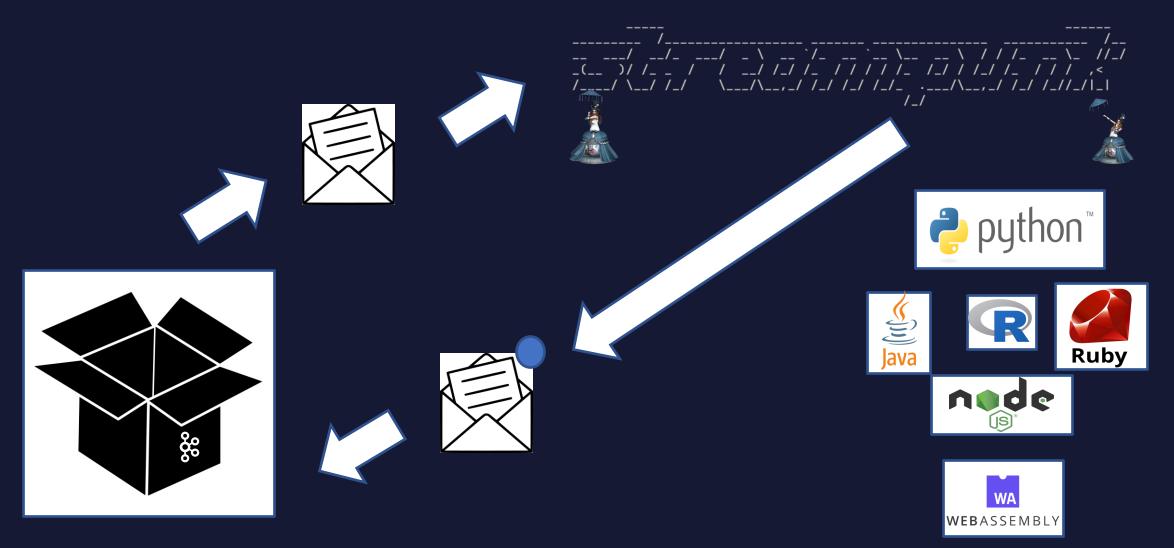




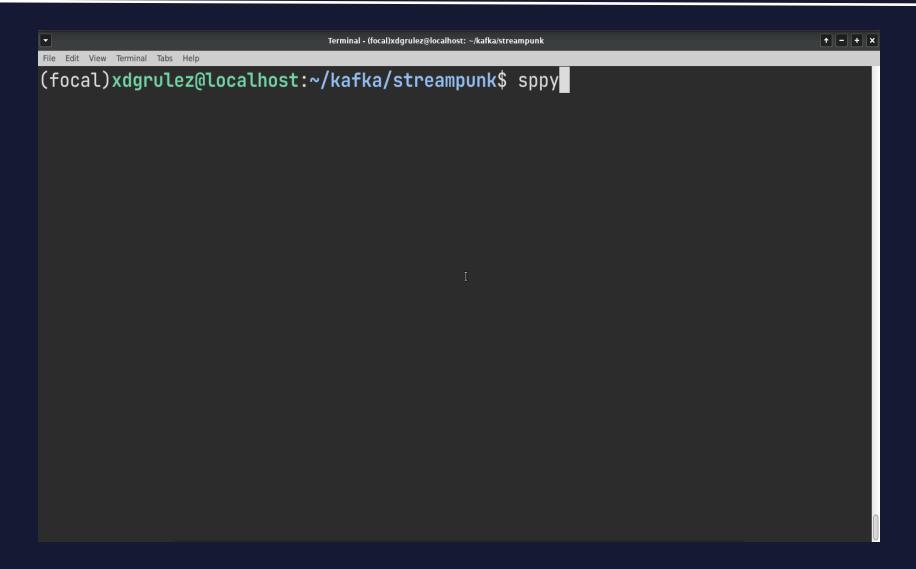




Streampunk Enables Polyglot Message Transforms for All Kafkas









```
+ - + x
                                  Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
```



```
+ - + x
                                  Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
```



```
+ - + x
                                 Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
```



```
+ - + x
                                 Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
```



```
+ - + x
                                 Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>>
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>>
```

```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>> ProducerString.produce("local", "input", "z")
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>> ProducerString.produce("local", "input", "z")
None
>>>
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>> ProducerString.produce("local", "input", "z")
None
>>> ProducerString.produce("local", "input", "z")
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>> ProducerString.produce("local", "input", "z")
None
>>> ProducerString.produce("local", "input", "z")
None
>>>
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>>
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
(focal)xdgrulez@localhost:~/kafka/streampunk$ sppy
Python 3.8.5 (Wed Mar 09 17:55:14 CET 2022)
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>>
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
[Graal, GraalVM CE, Java 11.0.14] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>>
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
>>>
>>> from sp import *
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>> Topic.getTotalSize("local", "input")
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>> Topic.getTotalSize("local", "input")
6
>>>
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
>>>
>>> Topic.create("local", "input", 1)
None
>>> ProducerString.produce("local", "input", "z")
None
>>> Topic.getTotalSize("local", "input")
6
>>> ConsumerString.consume("local", "input", "test", None)
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
>>> ConsumerString.consume("local", "input", "test", None)
Topic: input, Partition: 0, Offset: 0, Timestamp: 2022-04-22 13:24:12.505
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 1, Timestamp: 2022-04-22 13:24:28.121
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 2, Timestamp: 2022-04-22 13:24:40.178
Headers:
Key: null
Value: z
Continue (Y/n)?
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Continue (Y/n)?
Topic: input, Partition: 0, Offset: 3, Timestamp: 2022-04-22 13:24:52.781
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 4, Timestamp: 2022-04-22 13:25:08.769
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)?
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Continue (Y/n)?
Topic: input, Partition: 0, Offset: 3, Timestamp: 2022-04-22 13:24:52.781
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 4, Timestamp: 2022-04-22 13:25:08.769
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Topic: input, Partition: 0, Offset: 3, Timestamp: 2022-04-22 13:24:52.781
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 4, Timestamp: 2022-04-22 13:25:08.769
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
```

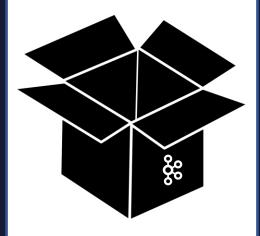




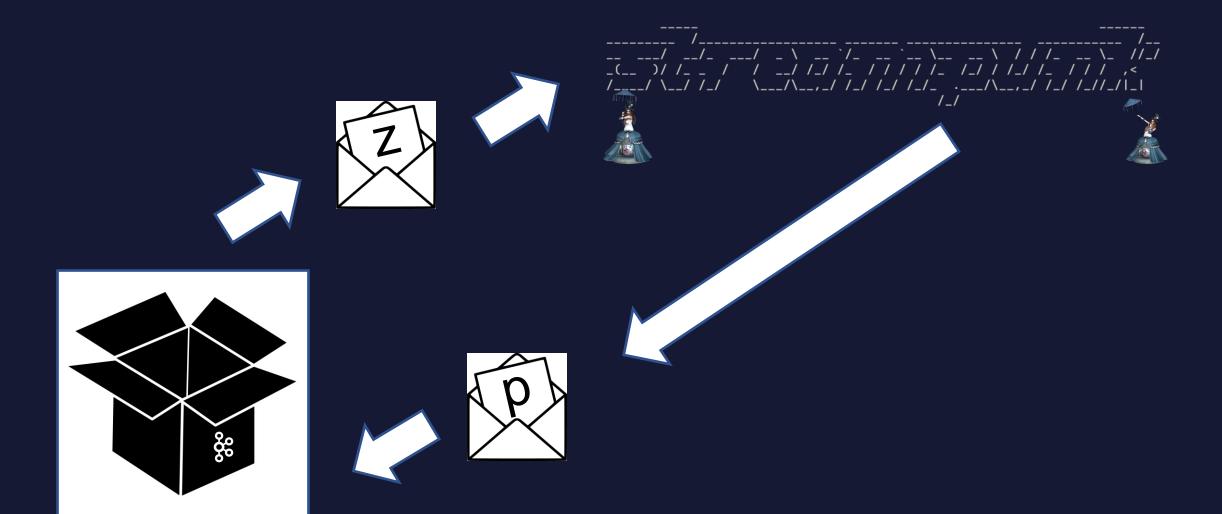




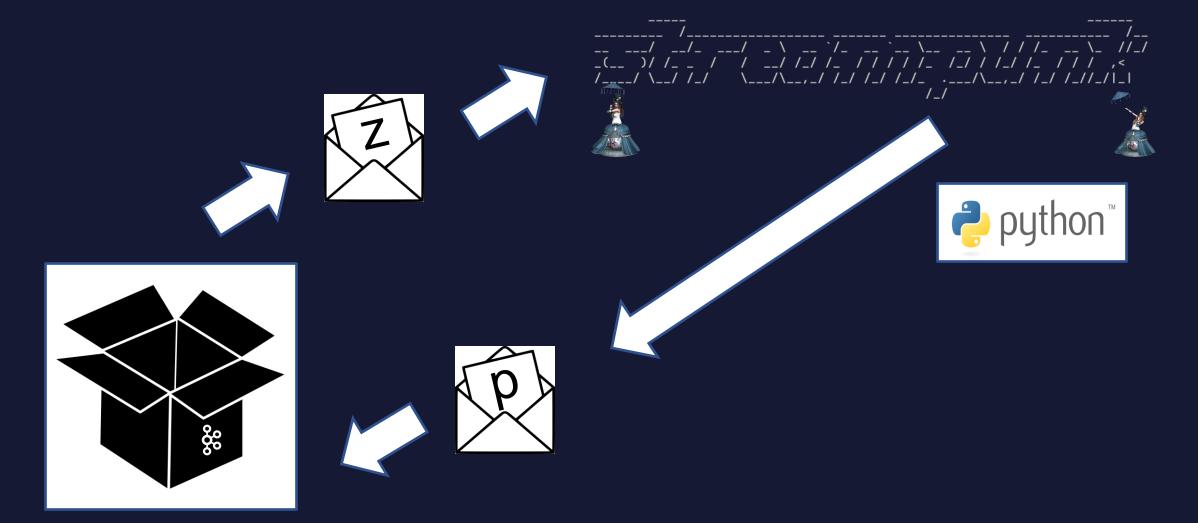


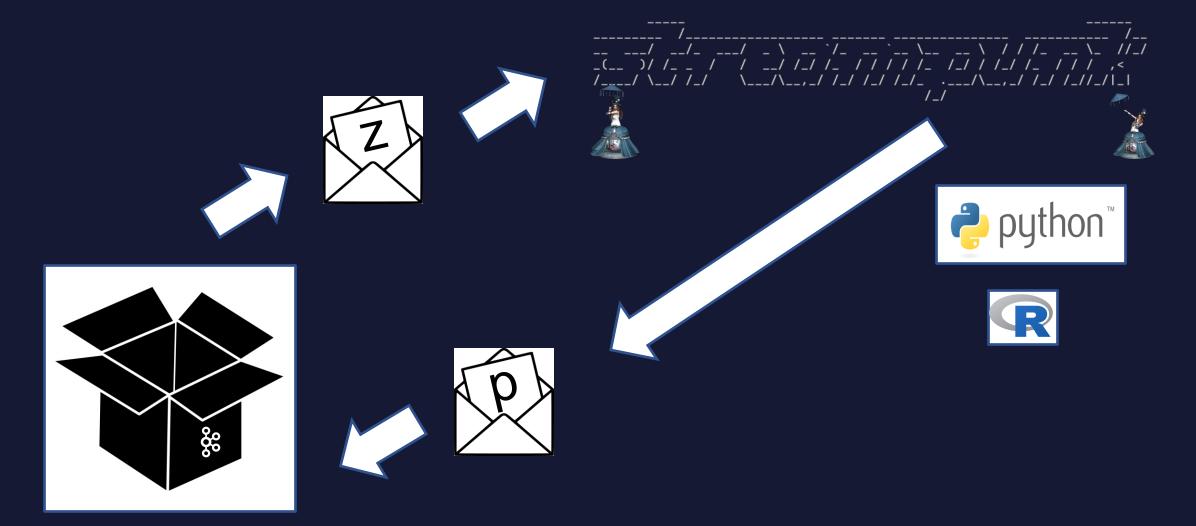












```
+ - + x
File Edit Selection View Go Run Ten
© *z_to_p.R × Selection View Go Run Terminal Help
       q z_to_p.R X
        home > xdgrulez > kafka > streampunk > examples > z_to_p > @ z_to_p.R
                z_to_p <- function(str) {</pre>
                     if (str == "z") "p" else if (str == "Z") "P" else str
                export('z_to_p', z_to_p)
        polygloi..
       z_to_p = polyglo.._
Ln 6, Col 1 Spaces: 4 UTF-8 LF R 🔊 贷
```



```
+ - + x
                                                z to p.R - Visual Studio Code
File Edit Selection View Go Run Terminal Help
     1 z_to_p <- function(str) {</pre>
            if (str == "z") "p" else if (str == "Z") "P" else str
      5 export('z_to_p', z_to_p)
        z to p.py 1 x
 home > xdgrulez > kafka > streampunk > examples > z_to_p > 🏺 z_to_p.py > ...
                  import polyglot
                  polyglot.eval(path="examples/z_to_p/z_to_p.R", language="R")
                  z_to_p = polyglot.import_value("z_to_p")
% main* → ⊗ 0 A 1
                                                                                                 , coi 1 Spaces: 4 UTF-8 LF R 🔊 贷
```



```
+ - + x
                                 Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 4, Timestamp: 2022-04-22 13:25:08.769
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
>>> from examples.z_to_p.z_to_p import *
```



```
+ - + x
                                 Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Key: null
Value: z
Topic: input, Partition: 0, Offset: 4, Timestamp: 2022-04-22 13:25:08.769
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
>>> from examples.z_to_p.z_to_p import *
>>>
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Key: null
Value: z
Topic: input, Partition: 0, Offset: 4, Timestamp: 2022-04-22 13:25:08.769
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
>>> from examples.z_to_p.z_to_p import *
>>> Replicate.copyString("local", "local", "input", "output", z_to_p)
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Key: null
Value: z
Topic: input, Partition: 0, Offset: 4, Timestamp: 2022-04-22 13:25:08.769
Headers:
Key: null
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
>>> from examples.z_to_p.z__p impor *
>>> Replicate.copyString("local", "local", "input", "output", z_to_p)
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
>>> from examples.z_to_p.z_to_p import *
>>> Replicate.copyString("local", "local", "input", "output", z_to_p)
replicateTopics() local/local, input/output
replicateTopicContents() local/input, local/output
Topic: input, partition: 0, offset: 0/6
local/input/0 0 -> local/output/0
None
>>>
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Value: z
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
>>> from examples.z_to_p.z_to_p import *
>>> Replicate.copyString("local", "local", "input", "output", z_to_p)
replicateTopics() local/local, input/output
replicateTopicContents() local/input, local/output
Topic: input, partition: 0, offset: 0/6
local/input/0 0 -> local/output/0
None
>>> Topic.list("local")
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
>>> from examples.z_to_p.z_to_p import *
>>> Replicate.copyString("local", "local", "input", "output", z_to_p)
replicateTopics() local/local, input/output
replicateTopicContents() local/input, local/output
Topic: input, partition: 0, offset: 0/6
local/input/0 0 -> local/output/0
None
>>> Topic.list("local")
['input', 'output']
>>>
```



```
+ - + x
                               Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Topic: input, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: z
Continue (Y/n)? n
None
>>>
>>> from examples.z_to_p.z_to_p import *
>>> Replicate.copyString("local", "local", "input", "output", z_to_p)
replicateTopics() local/local, input/output
replicateTopicContents() local/input, local/output
Topic: input, partition: 0, offset: 0/6
local/input/0 0 -> local/output/0
None
>>> Topic.list("local")
['input', 'output']
>>> ConsumerString.consume("local", "output", "test", None)
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
>>> ConsumerString.consume("local", "output", "test", None)
Topic: output, Partition: 0, Offset: 0, Timestamp: 2022-04-22 13:24:12.505
Headers:
Key: null
Value: p
Topic: output, Partition: 0, Offset: 1, Timestamp: 2022-04-22 13:24:28.121
Headers:
Key: null
Value: p
Topic: output, Partition: 0, Offset: 2, Timestamp: 2022-04-22 13:24:40.178
Headers:
Key: null
Value: p
Continue (Y/n)?
```



```
+ - + x
                                Terminal - (focal)xdgrulez@localhost: ~/kafka/streampunk
File Edit View Terminal Tabs Help
Continue (Y/n)?
Topic: output, Partition: 0, Offset: 3, Timestamp: 2022-04-22 13:24:52.781
Headers:
Key: null
Value: p
Topic: output, Partition: 0, Offset: 4, Timestamp: 2022-04-22 13:25:08.769
Headers:
Key: null
Value: p
Topic: output, Partition: 0, Offset: 5, Timestamp: 2022-04-22 13:25:21.998
Headers:
Key: null
Value: p
Continue (Y/n)?
```









https://github.com/xdgrulez/streampunk







No-Code Deep Tech for the Future.





Check out Commodity Desk ORECASTY.AI

No-Code Deep Tech for the Future.





Check out Commodity Desk ORECASTY.AI

No-Code Deep Tech forme out lead investor!

Become out lead investor!