

HIBERNATE SEARCH 7

**/ Nouveautés et cas pratiques
de la recherche full-text et vectorielle Java**



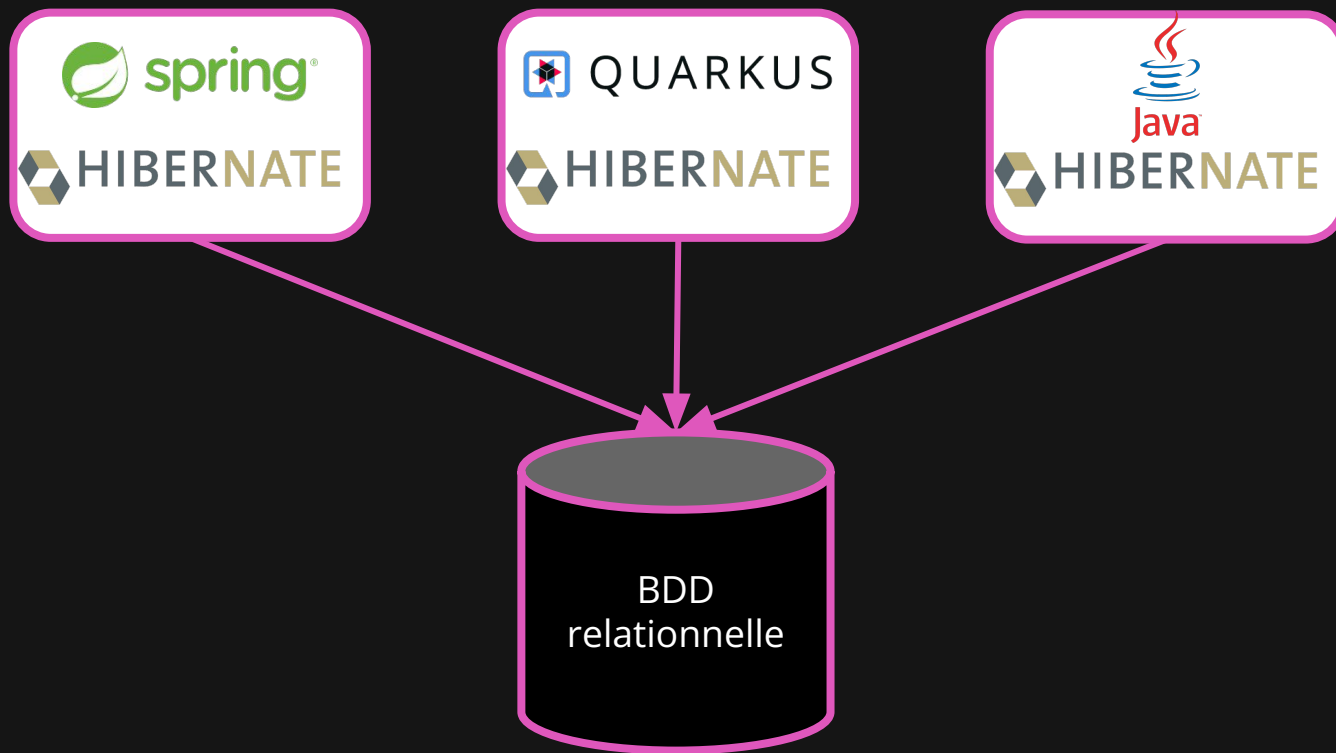
Yoann Rodière

Red Hat - Hibernate - Quarkus



Katia Aresti

Red Hat - Infinispan - Quarkus



Dossier de formation

Numéro (dossier, archivage...)

Secteur d'activité



Date de modification



Date de modification



Session

Organisme de formation (nom ou numéro DA)

Type de modalité

Modalité d'exécution

Intitulé

Nature

Thème

Modalité particulière

Département

Région

Ville

Lieu

Année de début



Date de début



Date de début



Filtrer

952382 dossiers de formations trouvés

N° dossier	↓	N° archivage	↓	Intitulé	↓	Situation	Stagiaires
M1337001		-		INTITULE STAGE FORMATION		Agrément	Stagiaire Nom Prénom
M1337001				INTITULE STAGE FORMATION		Agrément	Stagiaire Nom Prénom

Source: <https://www.kobalt.fr/clients/fafcea>

ILIKE

ILIKE '%thé%'

'kinési**thé**rapie'



ILIKE '%pommes**s**%'

Perf



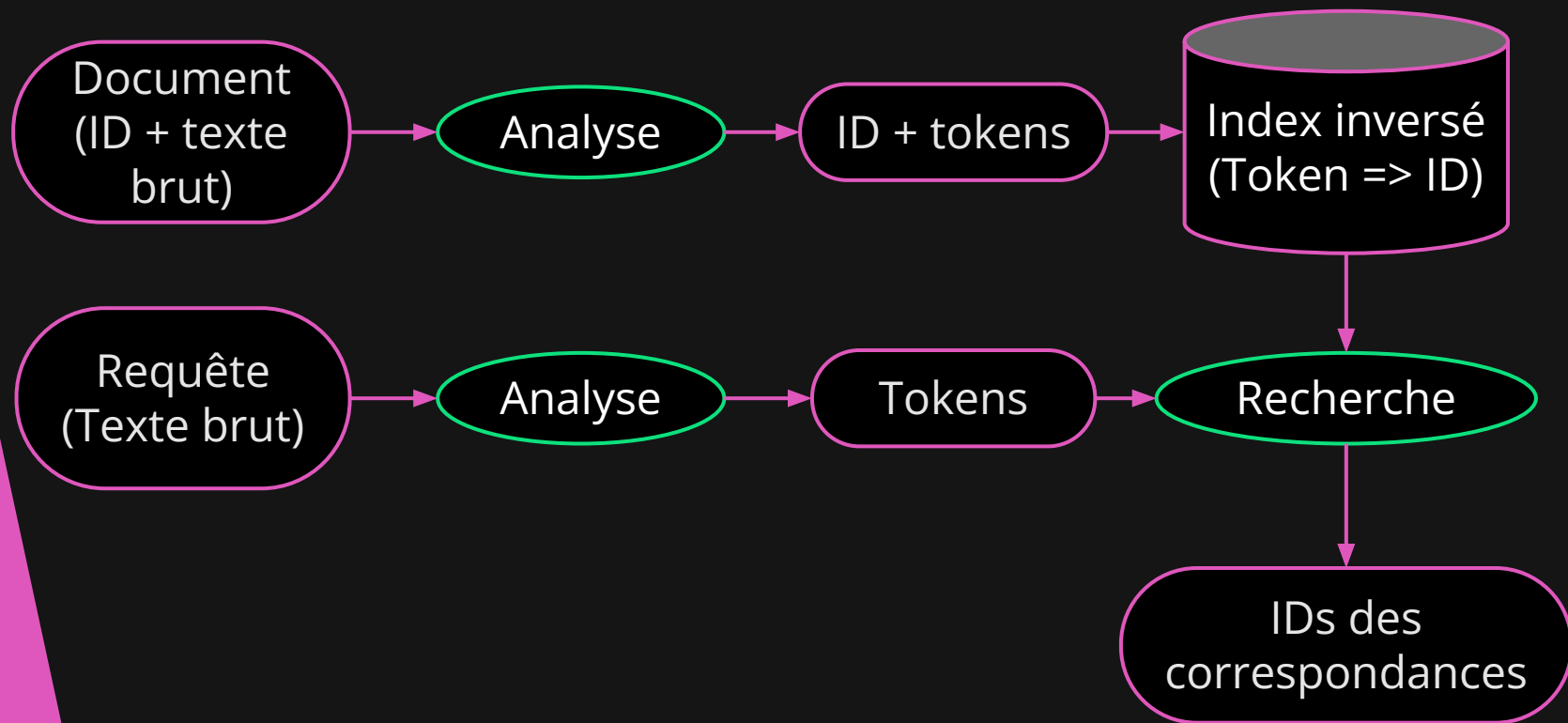
'pomme'

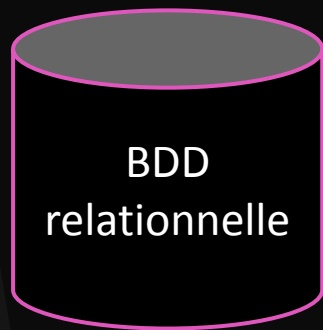


Tri



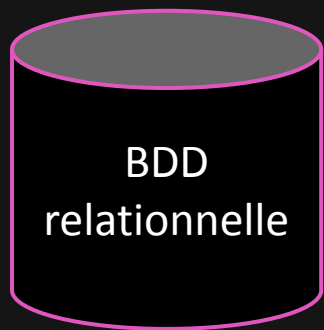
RECHERCHE FULL TEXT





APACHE
LUCENETM







HIBERNATE SEARCH

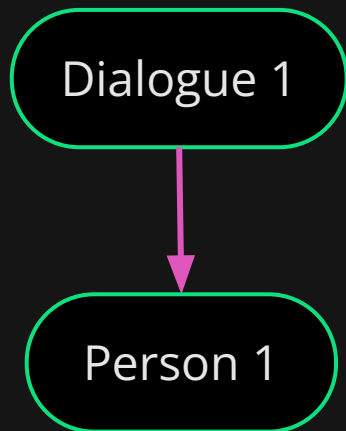
ORM. Lucene.
Elasticsearch.
Integrated.



DÉMO

<https://github.com/yrodiere/rivieradev-2024-hibernate-search-demo>

HIBERNATE Entités

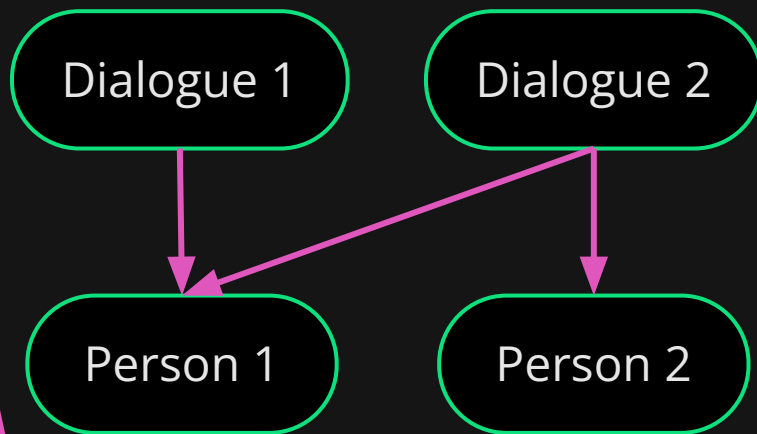


APACHE LUCENE Document

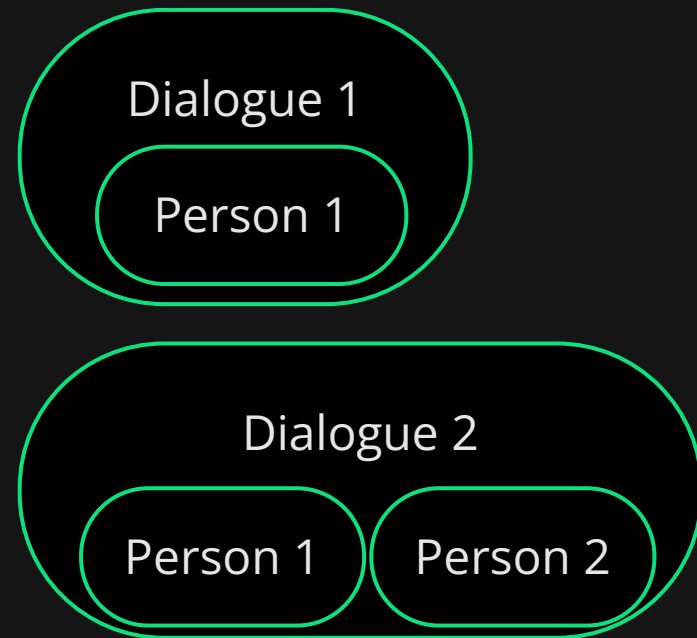


DÉNORMALISATION

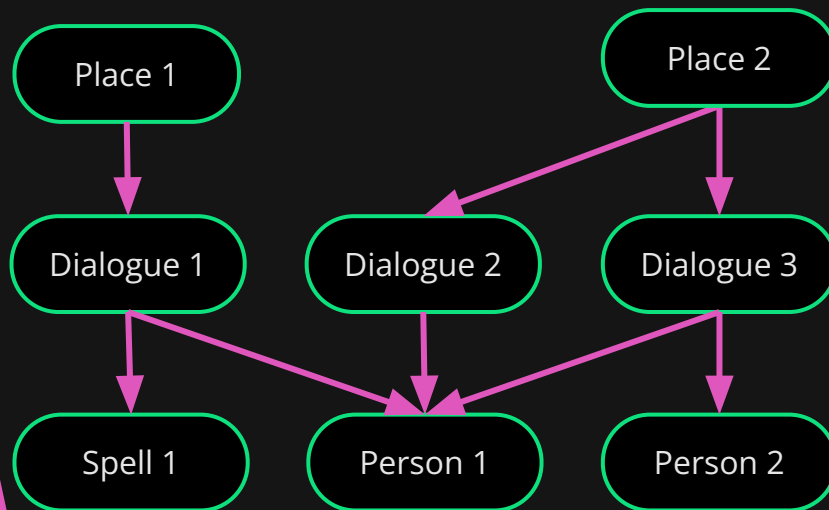
HIBERNATE Entités



APACHE LUCENE Document



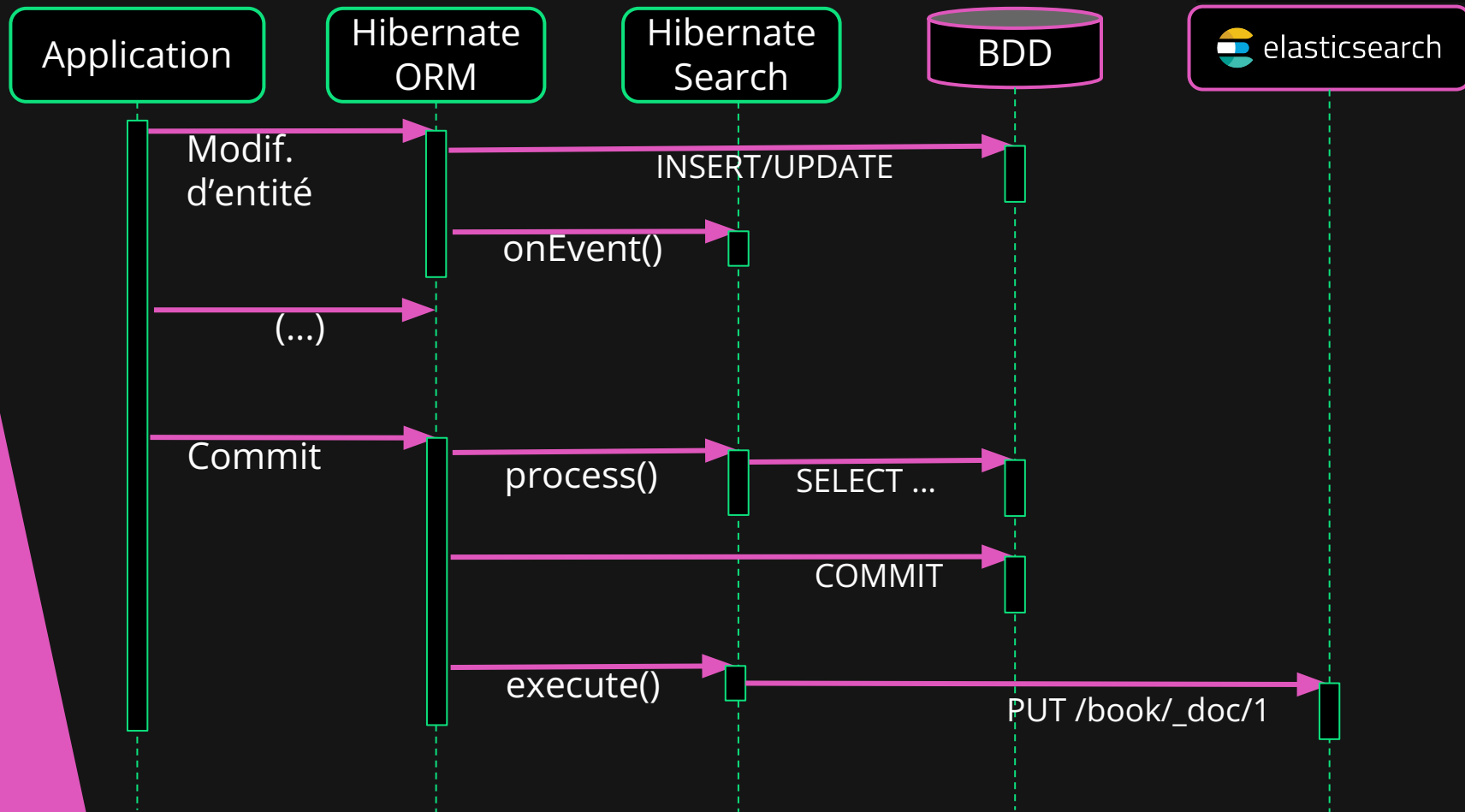
HIBERNATE Entités



APACHE LUCENE Document



INDEXATION





HIBERNATE SEARCH

VERSION 6+
2020

REFONTE API



GÉNÉRIQUE

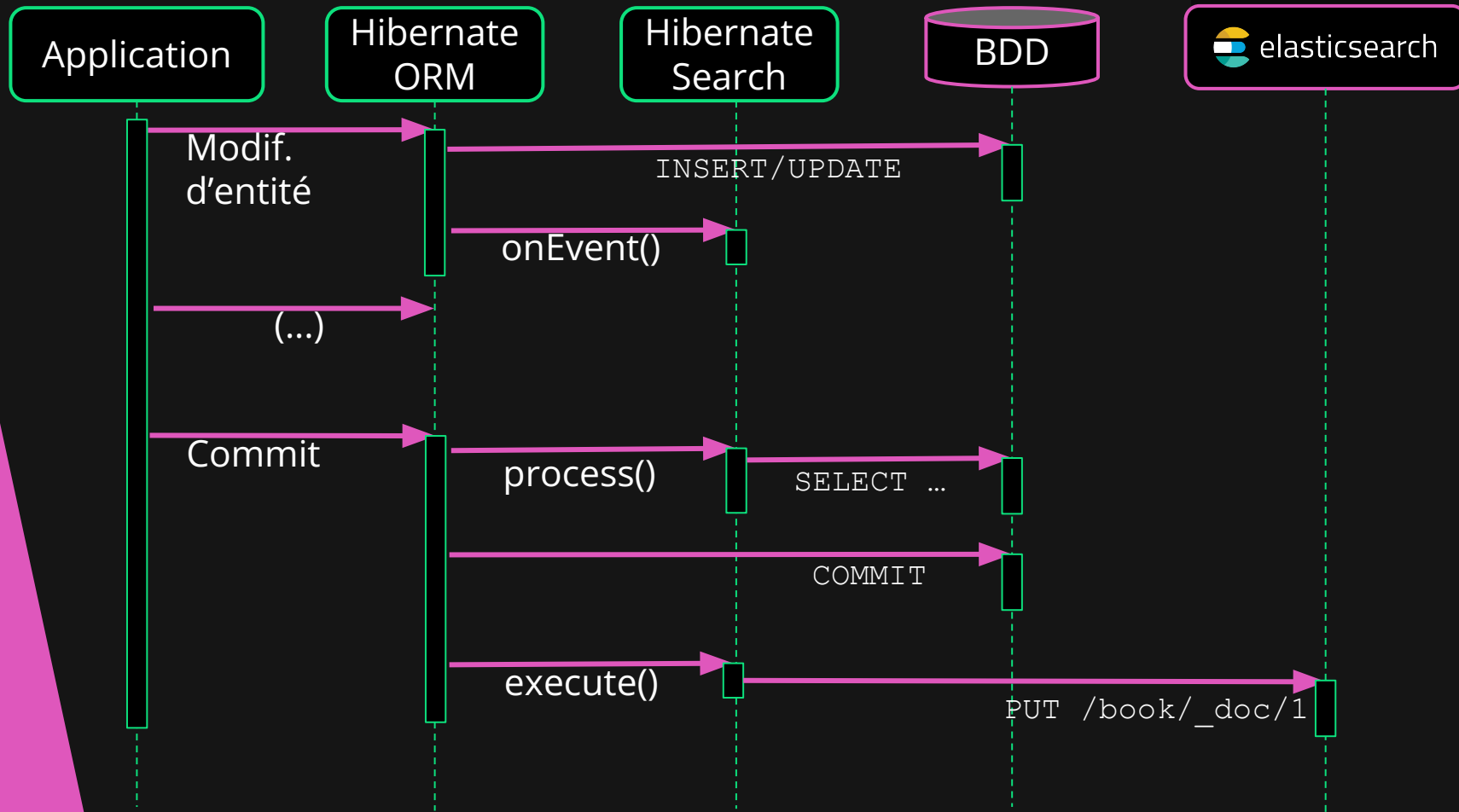
CONCIS

CUSTOMISABLE

ÉPROUVÉ



TRANSACTIONS ?



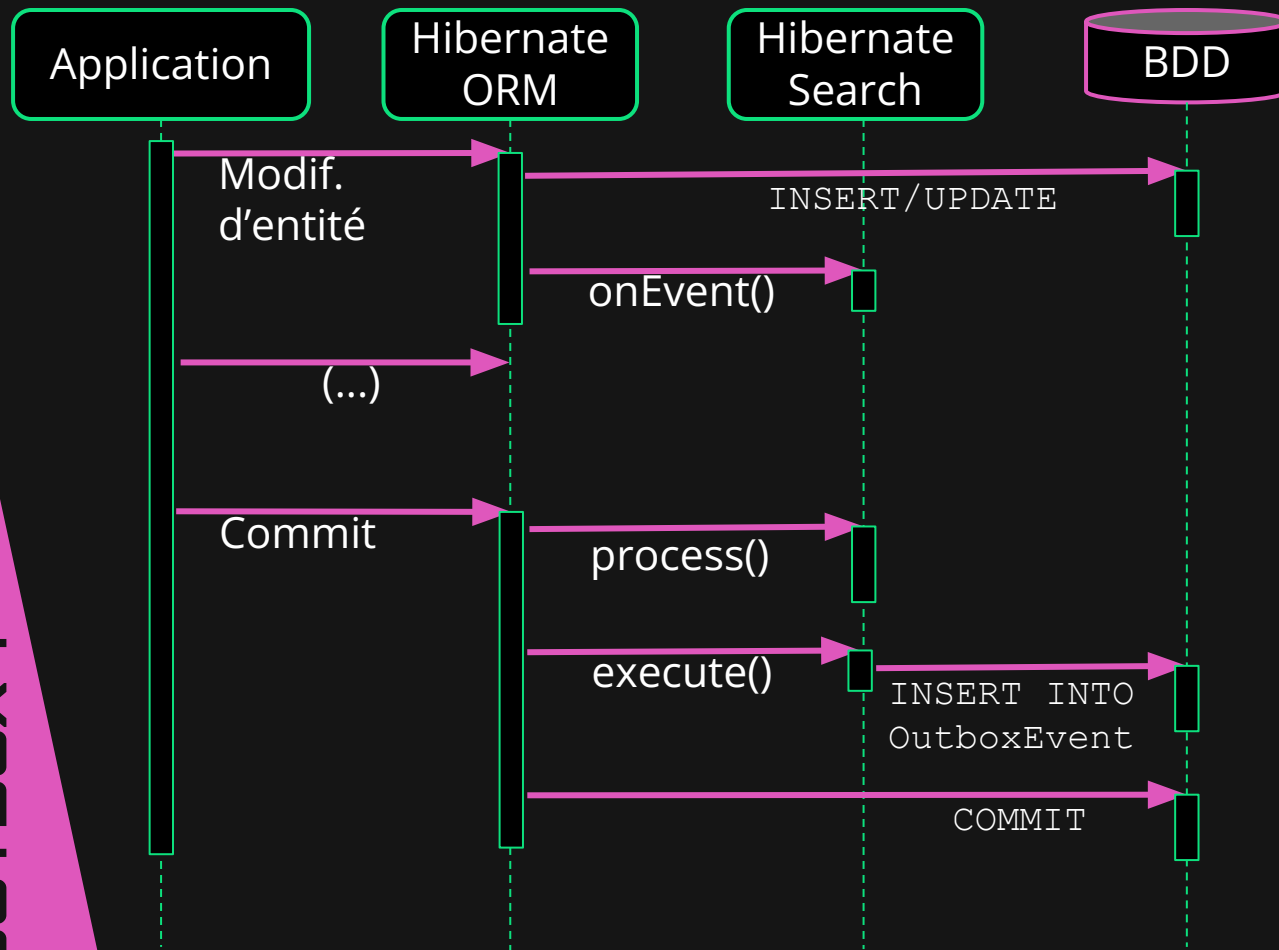


TRANSACTIONAL OUTBOX

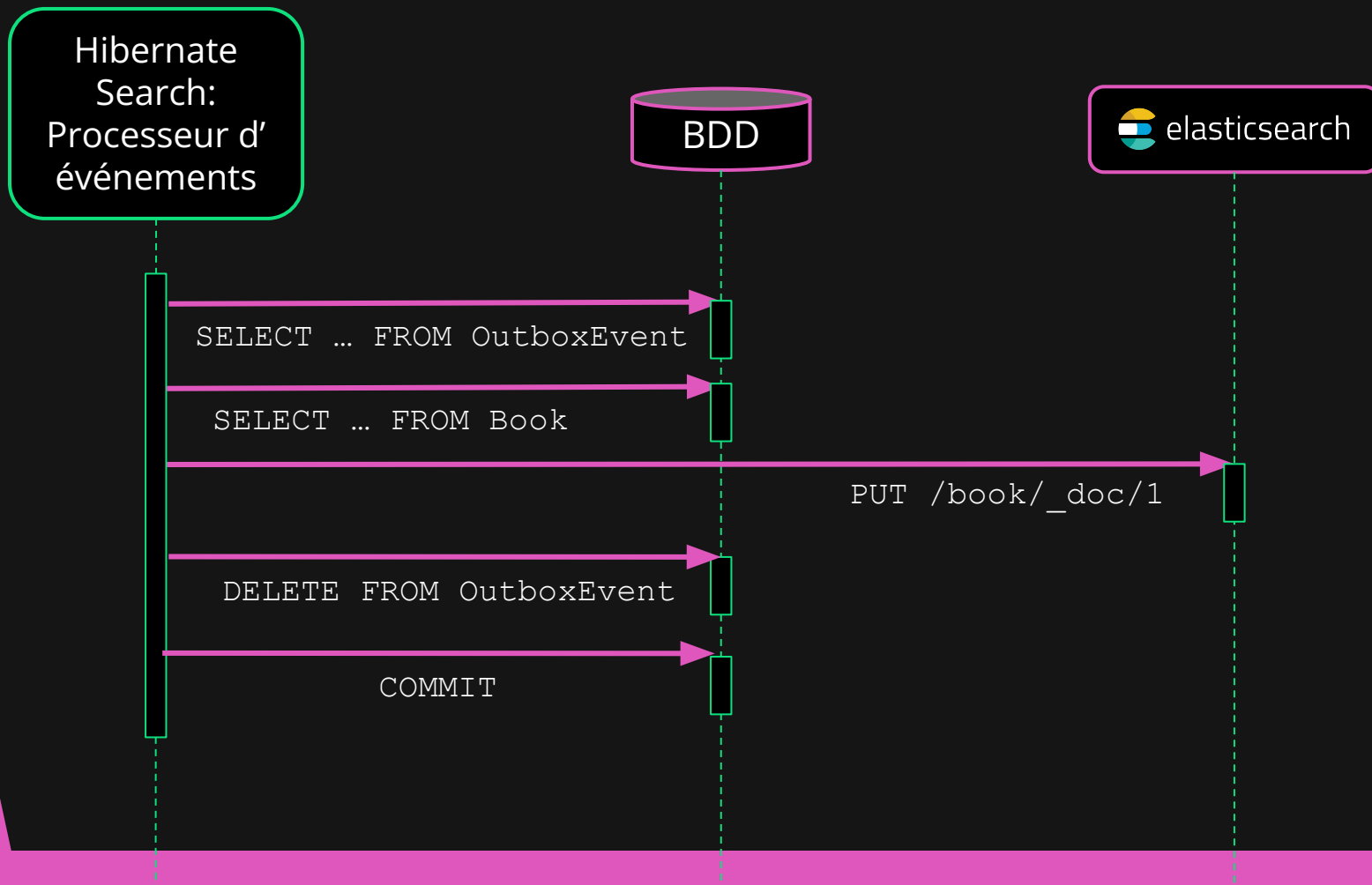
[https://docs.jboss.org/hibernate/stable/search/reference/en-US/html_single
/#coordination-database-polling](https://docs.jboss.org/hibernate/stable/search/reference/en-US/html_single/#coordination-database-polling)



TRANSACTIONAL OUTBOX 1



TRANSACTIONAL OUTBOX 2



TRANSACTIONNEL

Perte d'événement impossible



PLUS
PUISSANT...

ASYNCHRONE

Latence minimale

PARTITIONNÉ

Pas de conflits d'indexation
Parallélisme

Infrastructure :

Application

+

BDD

+

 elasticsearch

Configuration :

```
<dependency>
  <groupId>io.quarkus</groupId>
  <artifactId>
    quarkus-hibernate-search-orm-outbox-polling
  </artifactId>
</dependency>

quarkus.hibernate-search-orm.coordination.strategy
=outbox-polling
```

... ET TOUT
AUSSI SIMPLE



STANDALONE POJO MAPPER

https://docs.jboss.org/hibernate/stable/search/getting-started/standalone/en-US/html_single/index.html#mapper-pojo-standalone-getting-started

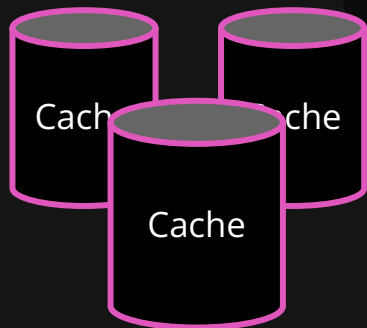
STANDALONE POJO MAPPER



Hibernate
Search +
intégration
custom



INFINISPAN



Hibernate Search +
intégration custom

APACHE
LUCENE™



Infinispan

<https://infinispan.org/>

<https://infinispan.org/docs/stable/titles/query/query.html>

INFINISPAN EMBEDDING STORE



Infinispan



Lanchain 4J



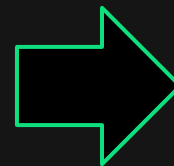
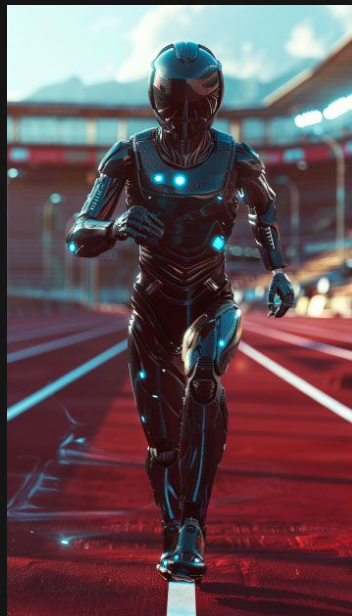
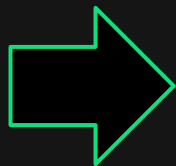
LangChain



HIBERNATE SEARCH

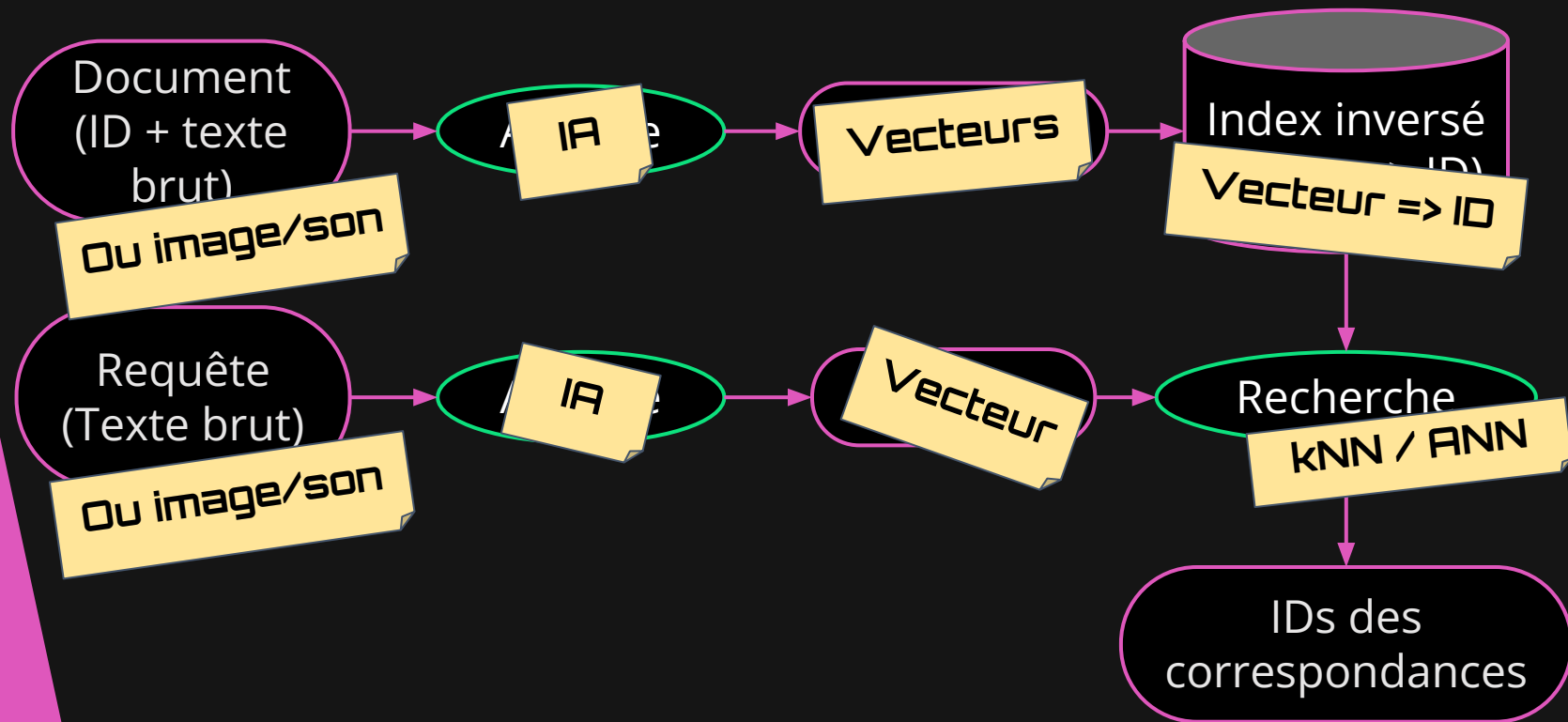
VERSION 7
2023 / 2024

VECTEURS ET EMBEDDINGS



$[-0.7754,$
 $-0.7972,$
 $-0.5784,$
 \dots
 $-0.4750,$
 $-0.4254]$

RECHERCHE VECTORIELLE





DÉMO

<https://github.com/yrodiere/rivieradev-2024-hibernate-search-demo>



STAY TUNED

<https://xkcd.com/1425/>

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MERCI !



<https://quarkus.io/>



<https://hibernate.org/search/>



ALLER PLUS
LOIN



