Internal Dependencies

References

- Analyze java package metrics in a graph database
- Calculate metrics
- Neo4j Python Driver

Artifacts

List the artifacts this notebook is based on. Different sorting variations help finding artifacts by their features and support larger code bases where the list of all artifacts gets too long.

Only the top 30 entries are shown. The whole table can be found in the following CSV report: List all existing artifacts

Table 1a - Top 30 artifacts with the highest package count

	artifactName	packages	types	incoming Dependencies	outgoingDependencies
0	axon-messaging-4.9.1.jar	64	786	5	0
1	axon-modelling-4.9.1.jar	10	156	4	1
2	axon-eventsourcing-4.9.1.jar	9	133	3	2
3	axon-test-4.9.1.jar	8	87	0	3
4	axon-configuration-4.9.1.jar	1	40	0	4
5	axon-disruptor-4.9.1.jar	1	22	1	3

Table 1b - Top 30 artifacts with the highest type count

	artifactName	packages	types	incomingDependencies	outgoingDependencies
0	axon-messaging-4.9.1.jar	64	786	5	0
1	axon-modelling-4.9.1.jar	10	156	4	1
2	axon-eventsourcing-4.9.1.jar	9	133	3	2
3	axon-test-4.9.1.jar	8	87	0	3
4	axon-configuration-4.9.1.jar	1	40	0	4
5	axon-disruptor-4.9.1.jar	1	22	1	3

Table 1c - Top 30 artifacts with the highest number of incoming dependencies

The following table lists the top 30 artifacts that are used the most by other artifacts (highest count of incoming dependencies, highest in-degree).

	artifactName	packages	types	incomingDependencies	outgoingDependencies
0	axon-messaging-4.9.1.jar	64	786	5	0
1	axon-modelling-4.9.1.jar	10	156	4	1
2	axon-eventsourcing-4.9.1.jar	9	133	3	2
3	axon-disruptor-4.9.1.jar	1	22	1	3
4	axon-configuration-4.9.1.jar	1	40	0	4
5	axon-test-4.9.1.jar	8	87	0	3

Table 1d - Top 30 artifacts with the highest number of outgoing dependencies

The following table lists the top 30 artifacts that are depending on the highest number of other artifacts (highest count of outgoing dependencies, highest out-degree).

	artifactName	packages	types	incomingDependencies	outgoingDependencies
0	axon-configuration-4.9.1.jar	1	40	0	4
1	axon-disruptor-4.9.1.jar	1	22	1	3
2	axon-test-4.9.1.jar	8	87	0	3
3	axon-eventsourcing-4.9.1.jar	9	133	3	2
4	axon-modelling-4.9.1.jar	10	156	4	1
5	axon-messaging-4.9.1.jar	64	786	5	0

Table 1e - Top 30 artifacts with the lowest package count

	artifactName	packages	types	$incoming {\bf Dependencies}$	outgoingDependencies
0	axon-configuration-4.9.1.jar	1	40	0	4
1	axon-disruptor-4.9.1.jar	1	22	1	3
2	axon-test-4.9.1.jar	8	87	0	3
3	axon-eventsourcing-4.9.1.jar	9	133	3	2
4	axon-modelling-4.9.1.jar	10	156	4	1
5	axon-messaging-4.9.1.jar	64	786	5	0

Table 1f - Top 30 artifacts with the lowest type count

	artifactName	packages	types	incomingDependencies	outgoingDependencies
0	axon-disruptor-4.9.1.jar	1	22	1	3
1	axon-configuration-4.9.1.jar	1	40	0	4
2	axon-test-4.9.1.jar	8	87	0	3
3	axon-eventsourcing-4.9.1.jar	9	133	3	2
4	axon-modelling-4.9.1.jar	10	156	4	1
5	axon-messaging-4.9.1.jar	64	786	5	0

Table 1g - Top 30 artifacts with the lowest number of incoming dependencies

The following table lists the top 30 artifacts that are used the least by other artifacts (lowest count of incoming dependencies, lowest in-degree).

	artifactName	packages	types	incomingDependencies	outgoingDependencies
0	axon-configuration-4.9.1.jar	1	40	0	4
1	axon-test-4.9.1.jar	8	87	0	3
2	axon-disruptor-4.9.1.jar	1	22	1	3
3	axon-eventsourcing-4.9.1.jar	9	133	3	2
4	axon-modelling-4.9.1.jar	10	156	4	1
5	axon-messaging-4.9.1.jar	64	786	5	0

Table 1h - Top 30 artifacts with the lowest number of outgoing dependencies

The following table lists the top 30 artifacts that are depending on the lowest number of other artifacts (lowest count of outgoing dependencies, lowest out-degree).

	artifactName	packages	types	incoming Dependencies	outgoingDependencies
0	axon-messaging-4.9.1.jar	64	786	5	0
1	axon-modelling-4.9.1.jar	10	156	4	1
2	axon-eventsourcing-4.9.1.jar	9	133	3	2
3	axon-disruptor-4.9.1.jar	1	22	1	3
4	axon-test-4.9.1.jar	8	87	0	3
5	axon-configuration-4.9.1.jar	1	40	0	4

Cyclic Dependencies

Cyclic dependencies occur when one package uses a class of another package and vice versa. These dependencies can lead to problems when one of these packages needs to be changed.

Table 2a - Cyclic Dependencies Overview

Show the top 40 cyclic dependencies sorted by the most promising to resolve first. This is done by calculating the number of forward dependencies (first cycle participant to second cycle participant) in relation to backward dependencies (second cycle participant back to first cycle participant). The higher this rate (approaching 1), the easier it should be to resolve the cycle by focusing on the few backward dependencies.

Only the top 40 entries are shown. The whole table can be found in the following CSV report:

Cyclic Dependencies

Columns:

- artifactName identifies the artifact of the first participant of the cycle
- packageName identifies the package of the first participant of the cycle
- dependentArtifactName identifies the artifact of the second participant of the cycle

- dependentPackageName identifies the package of the second participant of the cycle
- forwardToBackwardBalance is between 0 and 1. High for many forward and few backward dependencies.
- *numberForward* contains the number of dependencies from the first participant of the cycle to the second one
- *numberBackward* contains the number of dependencies from the second participant of the cycle back to the first one
- someForwardDependencies lists some forward dependencies in the text format "type1 -> type2"
- backwardDependencies lists the backward dependencies in the format "type1 <- type2" that are recommended to get resolved

	artifactName	packageName	dependentArtifactName	dependentPackageName	forwardToBackwardBalance
0	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	0.900000
1	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	0.882353
2	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.tracing	0.875000
3	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.messaging	0.857143
4	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.messaging.annotation	0.840000
5	axon- messaging- 4.9.1	org.axonframework.deadline	axon-messaging-4.9.1	org.axonframework.tracing	0.800000
6	axon- messaging- 4.9.1	org.axonframework.commandhandling	axon-messaging-4.9.1	org.axonframework.tracing	0.777778
7	axon- eventsourcing- 4.9.1	org.axonframework.eventsourcing	axon-eventsourcing-4.9.1	org.axonframework.eventsourcing.eventstore	0.777778
8	axon- messaging- 4.9.1	org.axonframework.commandhandling.callbacks	axon-messaging-4.9.1	org.axonframework.commandhandling	0.733333
9	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.serialization	0.647059
10	axon- messaging- 4.9.1	org.axonframework.messaging.unitofwork	axon-messaging-4.9.1	org.axonframework.messaging	0.647059
11	axon- messaging- 4.9.1	org.axonframework.eventhandling.async	axon-messaging-4.9.1	org.axonframework.eventhandling	0.538462
12	axon- messaging- 4.9.1	org.axonframework.eventhandling.replay	axon-messaging-4.9.1	org.axonframework.eventhandling	0.454545
13	axon- messaging- 4.9.1	org.axonframework.serialization.upcasting.event	axon-messaging-4.9.1	org.axonframework.eventhandling	0.333333
14	axon- eventsourcing- 4.9.1	org. ax on framework. events our cing. events to re.jdbc	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdb	0.317073
15	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org. ax on framework. eventhand ling. to ken store	0.285714
16	axon- modelling- 4.9.1	org.axonframework.modelling.command.inspection	axon-modelling-4.9.1	org.axonframework.modelling.command	0.250000
17	axon- messaging- 4.9.1	org. ax on framework. query handling. registration	axon-messaging-4.9.1	org.axonframework.queryhandling	0.250000
18	axon- messaging- 4.9.1	org.axonframework.messaging	axon-messaging-4.9.1	org.axonframework.serialization	0.238095
19	axon- messaging- 4.9.1	org.axonframework.messaging.annotation	axon-messaging-4.9.1	org.axonframework.messaging.interceptors	0.200000
20	axon- modelling- 4.9.1	org.axonframework.modelling.saga	axon-modelling-4.9.1	org.axonframework.modelling.saga.metamodel	0.142857
21	axon- messaging- 4.9.1	org. axon framework. command handling. distributed	axon-messaging-4.9.1	org.axonframework.commandhandling.distributed	0.076923

Table 2b - Cyclic Dependencies Break Down

Lists packages with cyclic dependencies with every dependency in a separate row sorted by the most promising dependency first.

Only the top 40 entries are shown. The whole table can be found in the following CSV report: Cyclic_Dependencies_Breakdown

Columns in addition to Table 2a:

dependency shows the cycle dependency in the text format "type1 -> type2" (forward) or "type2<-type1" (backward)

	artifactName	packageName	dependentArtifactName	dependentPackageName	dependency	forward
0	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	DefaultEventProcessorSpanFactory- >SpanFactory	
1	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	AbstractEventBus->Span	
2	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	AbstractEventBus\$Builder- >NoOpSpanFactory	
3	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	DefaultEventBusSpanFactory\$Builder- >SpanFactory	
4	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	EventMessage<-NestingSpanFactory	
5	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	TrackingEventProcessor\$Builder- >SpanFactory	
6	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	AbstractEventProcessor\$Builder- >NoOpSpanFactory	
7	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	AbstractEventBus\$Builder->SpanFactory	
8	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	AbstractEventBus->SpanScope	
9	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	DefaultEventBusSpanFactory->SpanFactory	
10	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	DefaultEventProcessorSpanFactory\$Builder->Span	
11	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	EventBusSpanFactory->Span	
12	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	DefaultEventProcessorSpanFactory->Span	
13	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	EventProcessorSpanFactory->Span	
14	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	DefaultEventProcessorSpanFactory- >NoOpSpanFact	
15	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	AbstractEventProcessor\$Builder- >SpanFactory	
16	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	DefaultEventBusSpanFactory->Span	
17	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	SimpleEventBus\$Builder->SpanFactory	
18	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	AbstractEventProcessor->Span	
19	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	SubscribingEventProcessor\$Builder- >SpanFactory	
20	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	SimpleQueryBus->ResponseType	
21	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	SimpleQueryUpdateEmitter- >PublisherResponseType	
22	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	GenericStreamingQueryMessage- >PublisherRespons	
23	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	SimpleQueryUpdateEmitter- >OptionalResponseType	
24	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	GenericQueryMessage->ResponseType	
25	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	SimpleQueryUpdateEmitter->ResponseType	

	artifactName	packageName	dependentArtifactName	dependentPackageName	dependency	forward
26	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	GenericSubscriptionQueryMessage- >ResponseType	
27	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	GenericStreamingQueryMessage- >ResponseType	
28	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	QueryGateway->ResponseTypes	
29	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	QueryGateway->ResponseType	
30	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	QuerySubscription->ResponseType	
31	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	StreamingQueryMessage->ResponseType	
32	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	SimpleQueryUpdateEmitter->MultipleInstancesRes	
33	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	QueryResponseMessage<- ConvertingResponseMessage	
34	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	QueryMessage->ResponseType	
35	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	SubscriptionQueryMessage->ResponseType	
36	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	DefaultQueryGateway->ResponseType	
37	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.tracing	QueryMessage<-SpanUtils	
38	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.tracing	SimpleQueryUpdateEmitter\$Builder- >NoOpSpanFactory	
39	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.tracing	SimpleQueryUpdateEmitter\$Builder- >SpanFactory	

Table 2c - Cyclic Dependencies Break Down - Backward Dependencies Only

Lists packages with cyclic dependencies with every dependency in a separate row sorted by the most promising dependency first. This table only contains the backward dependencies from the second participant of the cycle back to the first one that are the most promising to resolve.

Only the top 40 entries are shown. The whole table can be found in the following CSV report: Cyclic Dependencies Breakdown BackwardOnly

	artifactName	packageName	dependentArtifactName	dependentPackageName	depe
0	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.tracing	EventMessage<-NestingSpan
1	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.messaging.responsetypes	QueryResponseMes ConvertingResponseM
2	axon- messaging- 4.9.1	org.axonframework.queryhandling	axon-messaging-4.9.1	org.axonframework.tracing	QueryMessage<-St
3	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.messaging	Tracking StreamableMessage
4	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.messaging	DomainEventMessage<-ŀ
5	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.messaging	EventMessage<-F
6	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.messaging.annotation	DomainEventMes SourceIdParameterRes
7	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.messaging.annotation	DomainEventMes AggregateTypeParameter
8	axon- messaging- 4.9.1	org.axonframework.deadline	axon-messaging-4.9.1	org.axonframework.tracing	DeadlineMessage<-Sp
9	axon- messaging- 4.9.1	org.axonframework.commandhandling	axon-messaging-4.9.1	org.axonframework.tracing	CommandMessage<-Sp
10	axon- eventsourcing- 4.9.1	org.axonframework.eventsourcing	axon-eventsourcing-4.9.1	org.axonframework.eventsourcing.eventstore	EventStrear AbstractEventStorage
11	axon- eventsourcing- 4.9.1	org.axonframework.eventsourcing	axon-eventsourcing-4.9.1	org.axonframework.eventsourcing.eventstore	EventStreamUtils<-DomainEvent
12	axon- messaging- 4.9.1	org.axonframework.commandhandling.callbacks	axon-messaging-4.9.1	org.axonframework.commandhandling	LoggingCal SimpleCommandBus\$
13	axon- messaging- 4.9.1	org.axonframework.commandhandling.callbacks	axon-messaging-4.9.1	org.axonframework.commandhandling	NoOpCal SimpleCommandBus\$
14	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.serialization	GapAwareTracking ⁻ GapAwareTrackingTok
15	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.serialization	GenericDomainEventMes AbstractXStrea
16	axon- messaging- 4.9.1	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.serialization	GenericEventMes AbstractXStreamS
17	axon- messaging- 4.9.1	org.axonframework.messaging.unitofwork	axon-messaging-4.9.1	org.axonframework.messaging	UnitOfWork<-DefaultIntercept
18	axon- messaging- 4.9.1	org.axonframework.messaging.unitofwork	axon-messaging-4.9.1	org.axonframework.messaging	UnitOl MessageHandlerInte
19	axon- messaging- 4.9.1	org.axonframework.messaging.unitofwork	axon-messaging-4.9.1	org.axonframework.messaging	CurrentUnitOfWork<-GenericM
20	axon- messaging- 4.9.1	org.axonframework.eventhandling.async	axon-messaging-4.9.1	org.axonframework.eventhandling	SequentialPerAggregatel SimpleEvent
21	axon- messaging- 4.9.1	org.axonframework.eventhandling.async	axon-messaging-4.9.1	org.axonframework.eventhandling	Sequencingl SimpleEventHandlerInvok
22	axon- messaging- 4.9.1	org.axonframework.eventhandling.async	axon-messaging-4.9.1	org.axonframework.eventhandling	Sequencingl SimpleEventHandler
23	axon- messaging- 4.9.1	org.axonframework.eventhandling.replay	axon-messaging-4.9.1	org.axonframework.eventhandling	ResetCo AnnotationEventHandler
24	axon- messaging- 4.9.1	org.axonframework.eventhandling.replay	axon-messaging-4.9.1	org.axonframework.eventhandling	ResetContext<-Resetl
25	axon- messaging- 4.9.1	org.axonframework.eventhandling.replay	axon-messaging-4.9.1	org.axonframework.eventhandling	GenericResetCo AnnotationEventHandle

depe	dependentPackageName	dependentArtifactName	packageName	artifactName	
IntermediateEventRepresen Ev	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.serialization.upcasting.event	axon- messaging- 4.9.1	26
g InitialEventRepresentation<-Ev	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.serialization.upcasting.event	axon- messaging- 4.9.1	27
g EventUpcaster<-Ev	org.axonframework.eventhandling	axon-messaging-4.9.1	org.axonframework.serialization.upcasting.event	axon- messaging- 4.9.1	28
. EventSc . CleanGapsStatemen	org. ax on framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re.jdbc	axon- eventsourcing- 4.9.1	29
EventSc CreateTailTokenStatemen	org. ax on framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	30
EventSc ReadEventDataForAggregateStat	org. axon framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re.jdbc	axon- eventsourcing- 4.9.1	31
EventSc CreateHeadTokenStatemen	org. ax on framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	32
EventSc - JdbcEventStorageEngineStat	org. axon framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	33
EventSc - AppendSnapshotStatemen	org. axon framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	34
EventSc . CreateTokenAtStatemen	org. axon framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	35
EventSc . AppendEventsStatemen	org. axon framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	36
EventSc . DeleteSnapshotsStatemen	org. axon framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	37
EventSc LastSequenceNumberForStateme	org. ax on framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	38
EventSc ReadEventDataWithoutGapsState	org. ax on framework. events our cing. events to re. jdb	axon-eventsourcing-4.9.1	org. axon framework. events our cing. events to re. jdbc	axon- eventsourcing- 4.9.1	39

Interface Segregation Candidates

Well known from Design Principles and Design Patterns by Robert C. Martin, the *Interface Segregation Principle* suggests that software components should have narrow, focused interfaces rather than large, general-purpose ones. The goal is to minimize the dependencies between components and increase modularity, flexibility, and maintainability.

Smaller, focused and purpose-driven interfaces

- make it easier to modify individual components without affecting the rest of the system.
- make it clearer which client is affected by which change.
- don't force their clients to depend on methods they don't need.
- reduce the scope of changes since a change to one component doesn't affect others.
- lead to a more loosely coupled architecture that is easier to understand and maintain.

Reference: Analyze java package metrics in a graph database

How to apply the results

If just one method of a type is used, especially in many places, then the result of this method can be used to call e.g. a method or constuct an object instead of using the whole object and then just calling that single method.

If there are a couple of methods that are used for a distinct purpose, those could be factored out into a separate interface. The original type can extended/implement the new interface so that there are no breaking changes. Then all the callers, that use only this group of methods, can be changed to the new interface.

Table 4 - Top 40 most used combinations of methods

The following table shows the top 40 most used combinations of methods of larger types that might benefit from applying the *Interface Segregation Principle*. The whole table can be found in the CSV report Candidates for Interface Segregation.

	fullDependentTypeName	declaredMethods	calledMethodNames	calledMethods	callerTypes
0	org.axonframework.commandhandling.CommandMessage	9	[getCommandName]	1	18
1	$org. ax on framework. eventh and ling. Domain {\tt EventMes}$	10	[getSequenceNumber]	1	9
2	org. ax on framework. eventh and ling. Event Message	9	[getTimestamp, getIdentifier]	2	9
3	$org. ax on framework. eventh and ling. Tracked {\sf EventMe}$	10	[trackingToken]	1	8
4	org.axonframework.eventhandling.EventMessage	9	[getIdentifier]	1	7
5	$org. ax on framework. eventh and ling. Domain {\tt EventMes}$	10	[getType, getAggregateIdentifier, getSequenceN	3	6
6	org. ax on framework. messaging. Result Message	9	[isExceptional, exceptionResult]	2	6
7	org. ax on framework. command handling. Generic Comma	14	[asCommandResultMessage]	1	5
8	org. ax on framework. dead line. Generic Dead line Message	11	[asDeadlineMessage]	1	5
9	org. ax on framework. eventhand ling. Replay Token	13	[createReplayToken]	1	4
10	$org. ax on framework. eventh and ling. Tracked {\tt EventMe}$	12	[trackingToken]	1	4
11	org. ax on framework. dead line. Dead line Message	10	[getDeadlineName]	1	4
12	$org. ax on framework. eventh and ling. Domain {\tt EventMes}$	10	[getType]	1	4
13	$org. ax on framework. eventh and ling. Domain {\tt EventMes}$	10	[getAggregateIdentifier]	1	4
14	$org. ax on framework. eventhand ling. Generic {\tt Event Me}$	10	[asEventMessage]	1	4
15	org. ax on framework. dead line. Default Dead line Mana	8	[builder]	1	4
16	org. ax on framework. common. transaction. No Transac	4	[instance]	1	4
17	org. ax on framework. command handling. Generic Comma	15	[asCommandResultMessage]	1	3
18	org. ax on framework. messaging. annotation. Wrapped	14	[handle]	1	3
19	org. ax on framework. modelling. command. in spection	13	[type]	1	3
20	$org. ax on framework. eventh and ling. Domain {\tt EventMes}$	11	[getType, getAggregateIdentifier, getSequenceN	3	3
21	$org. ax on framework. eventhand ling. Generic {\tt Event Me}$	11	[asEventMessage]	1	3
22	$org. ax on framework. eventh and ling. Domain {\tt EventMes}$	10	[getAggregateIdentifier, getSequenceNumber]	2	3
23	org. ax on framework. eventhand ling. Gap Aware Tracki	10	[getIndex, getGaps, newInstance, withGapsTrunc	5	3
24	org. ax on framework. eventh and ling. Event Message	9	[getTimestamp]	1	3
25	org.axonframework.messaging.MessageDecorator	9	[describeTo]	1	3
26	$org. ax on framework. eventhand ling. Tracked {\sf EventData}$	5	[trackingToken]	1	3
27	org. ax on framework. eventhand ling. to ken store. Con	5	[get]	1	3
28	org. ax on framework. eventh and ling. Tracker Status	17	[split, getSegment, getTrackingToken]	3	2
29	org. ax on framework. modelling. command. in spection	17	[initialize, initSequence, getAggregateRoot]	4	2
30	org. ax on framework. query handling. Simple Query Upd	17	[builder]	1	2
31	org. ax on framework. messaging. annotation. Wrapped	15	[canHandle, handle]	2	2
32	org. ax on framework. command handling. Command Messa	14	[commandName, isFactoryHandler]	2	2
33	org. ax on framework. command handling. Generic Comma	14	[asCommandResultMessage]	2	2
34	org. ax on framework. dead line. Dead line Message	14	[getDeadlineName]	1	2
35	org. ax on framework. messaging. Generic Result Message	14	[asResultMessage]	1	2
36	org. ax on framework. messaging. annotation. Wrapped	14	[canHandle]	1	2
37	org. ax on framework. eventh and ling. Domain Event Mes	13	[getAggregateIdentifier, getSequenceNumber]	2	2
38	org. ax on framework. eventh and ling. Replay Token	13	[isReplay]	1	2
39	org. ax on framework. modelling. command. in spection	13	[types]	1	2

Package Usage

Table 5 - Types that are used by multiple packages

This table shows the top 40 packages that are used by the highest number of different packages. The whole table can be found in the CSV report

 ${\tt List_types_that_are_used_by_many_different_packages}\ .$

	fullQualifiedDependentTypeName	dependentTypeName	dependentTypeLabels	numberOfUsingPackages
0	org.axonframework.common.BuilderUtils	BuilderUtils	[Type, File, Java, ByteCode, Class, TopCentral	44
1	org. axon framework. common. Axon Configuration Exce	AxonConfigurationException	[Type, File, Java, ByteCode, Class, TopCentral	37
2	org.axonframework.messaging.Message	Message	[Type, File, Java, ByteCode, GenericDeclaratio	34
3	org.axonframework.messaging.MetaData	MetaData	[Type, File, Java, ByteCode, Class, TopCentral	33
4	org.axonframework.eventhandling.EventMessage	EventMessage	[Type, File, Java, ByteCode, GenericDeclaratio	32
5	org.axonframework.messaging.unitofwork.UnitOfWork	UnitOfWork	[Type, File, Java, ByteCode, GenericDeclaratio	31
6	org.axonframework.serialization.Serializer	Serializer	[Type, File, Java, ByteCode, Interface, TopCen	29
7	org.axonframework.common.Assert	Assert	[Type, File, Java, ByteCode, Class, TopCentral	27
8	org.axonframework.common.transaction.Transacti	TransactionManager	[Type, File, Java, ByteCode, Interface, TopCen	27
9	org.axonframework.serialization.SerializedObject	SerializedObject	[Type, File, Java, ByteCode, GenericDeclaratio	25
10	org.axonframework.serialization.SerializedType	SerializedType	[Type, File, Java, ByteCode, Interface, TopCen	24
11	org.axonframework.messaging.unitofwork.Current	CurrentUnitOfWork	[Type, File, Java, ByteCode, Class, TopCentral	21
12	org.axonframework.common.AxonNonTransientExcep	AxonNonTransientException	[Type, File, Java, ByteCode, Class, TopCentral	18
13	org.axonframework.eventhandling.DomainEventMes	DomainEventMessage	[Type, File, Java, ByteCode, GenericDeclaratio	18
14	org.axonframework.eventhandling.GenericEventMe	GenericEventMessage	[Type, File, Java, ByteCode, Class, GenericDec	18
15	org.axonframework.messaging.annotation.Paramet	ParameterResolverFactory	[Type, File, Java, ByteCode, Interface, TopCen	18
16	org.axonframework.eventhandling.TrackingToken	TrackingToken	[Type, File, Java, ByteCode, Interface, TopCen	18
17	org.axonframework.common.Registration	Registration	[Type, File, Java, ByteCode, Interface, TypeWe	17
18	org.axonframework.serialization.SimpleSerializ	SimpleSerializedObject	[Type, File, Java, ByteCode, Class, GenericDec	17
19	org.axonframework.messaging.MessageHandlerInte	MessageHandlerInterceptor	[Type, File, Java, ByteCode, GenericDeclaratio	16
20	org.axonframework.common.ObjectUtils	ObjectUtils	[Type, File, Java, ByteCode, Class, TypeWeakly	16
21	org.axonframework.tracing.SpanFactory	SpanFactory	[Type, File, Java, ByteCode, Interface, TopCen	16
22	org.axonframework.messaging.MessageDispatchInt	MessageDispatchInterceptor	[Type, File, Java, ByteCode, GenericDeclaratio	15
23	org.axonframework.commandhandling.CommandMessage	CommandMessage	[Type, File, Java, ByteCode, GenericDeclaratio	14
24	org.axonframework.messaging.unitofwork.Default	DefaultUnitOfWork	[Type, File, Java, ByteCode, Class, GenericDec	14
25	org.axonframework.messaging.annotation.Handler	HandlerDefinition	[Type, File, Java, ByteCode, Interface, TopCen	14
26	org.axonframework.common.ReflectionUtils	ReflectionUtils	[Type, File, Java, ByteCode, Class, TypeWeakly	14
27	org.axonframework.eventhandling.EventBus	EventBus	[Type, File, Java, ByteCode, Interface, TopCen	13
28	org.axonframework.lifecycle.Lifecycle	Lifecycle	[Type, File, Java, ByteCode, Interface, TypeWe	13
29	org.axonframework.lifecycle.Lifecycle\$Lifecycl	Lifecycle\$LifecycleRegistry	[Type, File, Java, ByteCode, Interface, TypeWe	13
30	org.axonframework.common.transaction.NoTransac	NoTransactionManager	[Type, File, Java, ByteCode, Enum, TypeWeaklyC	13
31	org.axonframework.messaging.ResultMessage	ResultMessage	[Type, File, Java, ByteCode, GenericDeclaratio	13
32	org.axonframework.common.DateTimeUtils	DateTimeUtils	[Type, File, Java, ByteCode, Class, TypeWeakly	12
33	org. ax on framework. messaging. Default Interceptor	DefaultInterceptorChain	[Type, File, Java, ByteCode, Class, GenericDec	12
34	org. ax on framework. messaging. Interceptor Chain	InterceptorChain	[Type, File, Java, ByteCode, Interface, TypeWe	12

	full Qualified Dependent Type Name	dependentTypeName	dependentTypeLabels	numberOfUsingPackages
35	org.axonframework.tracing.NoOpSpanFactory	NoOpSpanFactory	[Type, File, Java, ByteCode, Class, TypeWeakly	12
36	org.axonframework.messaging.ScopeDescriptor	ScopeDescriptor	[Type, File, Java, ByteCode, Interface, TypeWe	12
37	org.axonframework.common.AxonTransientException	AxonTransientException	[Type, File, Java, ByteCode, Class, TypeWeakly	11
38	org.axonframework.messaging.annotation.Classpa	ClasspathHandlerDefinition	[Type, File, Java, ByteCode, Class, TypeWeakly	11
39	org.axonframework.messaging.annotation.Classpa	ClasspathParameterResolverFactory	[Type, File, Java, ByteCode, Class, TypeWeakly	11

Table 6 - Packages that are used by multiple artifacts

This table shows the top 30 artifacts that only use a few (compared to all existing) packages of another artifact. The whole table can be found in the CSV report ArtifactPackageUsage.

artifactName	dependentArtifactName	dependentPackages	dependentArtifactPackages	packageUsagePercentage	dependent Full Qualified Package Names	dep
axon- modelling- 4.9.1	axon-modelling-4.9.1	6	10	0.600000	[org.axonframework.modelling.saga, org.axonfra	ins
axon-test- 4.9.1	axon-test-4.9.1	5	8	0.625000	[org.axonframework.test, org.axonframework.tes	[to
axon- messaging- 4.9.1	axon-messaging-4.9.1	41	64	0.640625	[org.axonframework.messaging.annotation, org.a	[an
axon- 3 eventsourcing- 4.9.1	axon-eventsourcing-4.9.1	7	9	0.777778	$[org. axon framework. events our cing. events tore, \\ 0$	[e [,]

Table 7 - Types that are used by multiple artifacts

This table shows the top 30 types that only use a few (compared to all existing) types of another artifact. The whole table can be found in the CSV report ClassesPerPackageUsageAcrossArtifacts.

	artifactName	dependentArtifactName	packageName	dependentPackage.fqn	dependentTypes	dependentPackageT
0	axon- modelling- 4.9.1	axon-messaging-4.9.1	org.axonframework.modelling.saga.metamodel	org.axonframework.eventhandling	1	
1	axon-test- 4.9.1	axon-messaging-4.9.1	org.axonframework.test.matchers	org.axonframework.eventhandling	1	
2	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org.axonframework.eventsourcing.snapshotting	org.axonframework.eventhandling	1	
3	axon- eventsourcing- 4.9.1	axon-modelling-4.9.1	org.axonframework.eventsourcing.conflictresolu	org.axonframework.modelling.command	1	
4	axon- eventsourcing- 4.9.1	axon-modelling-4.9.1	org.axonframework.eventsourcing.eventstore.jdbc	org.axonframework.modelling.command	1	
5	axon- modelling- 4.9.1	axon-messaging-4.9.1	org.axonframework.modelling.command.legacyjpa	org.axonframework.eventhandling	2	
6	axon-test- 4.9.1	axon-messaging-4.9.1	org.axonframework.test.eventscheduler	org.axonframework.eventhandling	2	
7	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org. ax on framework. events our cing. conflict resolu	org.axonframework.eventhandling	2	
8	axon- modelling- 4.9.1	axon-messaging-4.9.1	org.axonframework.modelling.command	org.axonframework.eventhandling	2	
9	axon-test- 4.9.1	axon-messaging-4.9.1	org.axonframework.test	org.axonframework.messaging	1	
10	axon-test- 4.9.1	axon-messaging-4.9.1	org.axonframework.test.matchers	org.axonframework.messaging	1	
11	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org.axonframework.eventsourcing.eventstore	org.axonframework.messaging	1	
12	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org.axonframework.eventsourcing.conflictresolu	org.axonframework.messaging	1	
13	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org. axon framework. events our cing. events to re.leg	org.axonframework.serialization	1	
14	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org. ax on framework. events our cing. events to re. jpa	org.axonframework.serialization	1	
15	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org. ax on framework. events our cing. events to re.jdbc	org.axonframework.serialization	1	
16	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org. ax on framework. events our cing. events to re. jdb	org.axonframework.eventhandling	3	
17	axon-test- 4.9.1	axon-modelling-4.9.1	org.axonframework.test.utils	org.axonframework.modelling.saga	1	
18	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org. ax on framework. events our cing. conflict resolu	org.axonframework.commandhandling	1	
19	axon-test- 4.9.1	axon-messaging-4.9.1	org.axonframework.test.matchers	org.axonframework.commandhandling	1	
20	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org. axon framework. events our cing. events to re.jdb	org.axonframework.common	1	
21	axon-test- 4.9.1	axon-messaging-4.9.1	org.axonframework.test.eventscheduler	org.axonframework.common	1	
22	axon-test- 4.9.1	axon-messaging-4.9.1	org.axonframework.test.utils	org.axonframework.common	1	
23	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org.axonframework.eventsourcing.conflictresolu	org.axonframework.common	1	
24	axon-test- 4.9.1	axon-messaging-4.9.1	org.axonframework.test.server	org.axonframework.common	1	
25	axon- modelling- 4.9.1	axon-messaging-4.9.1	org.axonframework.modelling.command.legacyjpa	org.axonframework.common	1	
26	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org.axonframework.eventsourcing.snapshotting	org.axonframework.common	1	
27	axon- eventsourcing- 4.9.1	axon-messaging-4.9.1	org. ax on framework. events our cing. conflict resolu	org.axonframework.messaging.annotation	2	

	artifactName	dependentArtifactName	packageName	dependentPackage.fqn	dependentTypes	dependentPackageT
28	axon- eventsourcing- 4.9.1	axon-modelling-4.9.1	org.axonframework.eventsourcing.eventstore	org.axonframework.modelling.command	2	
29	axon- modelling- 4.9.1	axon-messaging-4.9.1	org.axonframework.modelling.command.legacyjpa	org.axonframework.messaging.annotation	2	

Table 8 - Duplicate package names across artifacts

This table shows the top 30 duplicate package names across artifacts. They are ordered by the number of duplicates descending.

This might lead to confusion, makes importing more error prone and might even lead to duplicate classes where only one of them will be loaded by the class loader. If a package is named the same way in two or more artifacts this even allows another artifact to access package protected classes, methods or members which might not be intended.

The whole table can be found in the CSV report DuplicatePackageNamesAcrossArtifacts.

packageName duplicates artifactNames

Table 9 - Annotated elements

This table shows 30 most used Java Annotations including some examples where they are used.

December Parameter 1501 Corg. axonframework.eventsourcing. AbstractSnaps		annotationName	languageElement	number Of Annotated Elements	examples
2 javax.annotation.Nullable Parameter 61 lorg.axonframework.eventsourcing.eventslore.Ev 3 java.lang.FunctionalInterface Interface 54 lorg.axonframework eventsourcing.conflictresol 4 java.lang.annotation.Retention Annotation 40 lorg.axonframework.eventsourcing.EventSourcing 5 java.lang.annotation.Target Annotation 40 lorg.axonframework.eventsourcing.EventSourcing 6 javax.persistence.Basic Field 39 lorg.axonframework.eventsourcing.EventSourcing 7 javax.annotation.Nonnull Method 37 lorg.axonframework.eventhandling.AbstractDomai 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 lorg.axonframework.eventhandling.dsstractDomai 10 java.lang.Deprecated Class 25 lorg.axonframework.eventsourcing.MultiStreamab 11 java.beans.ConstructorProperties Constructor 21 lorg.axonframework.eventsourcing.MultiStreamab 12 java.lang.annotation.Documented Annotation 21 lorg.axonframework.eventsourcing.MultiStreamab 13 java.lang.Deprecated Constructor 17 lorg.axonframework.eventsourcing.BventSourcing 14 com.fasterxml.jackson.annotation.SonCreator Constructor 16 lorg.axonframework.eventsourcing.MultiStreamab 15 java.spersistence.Column Field 12 lorg.axonframework.eventsourcing.MultiStreamab 16 org.axonframework.commandhandling.dstractEvent 17 javax.persistence.Column Field 11 lorg.axonframework.eventhandling.AbstractEvent 18 javax.persistence.Column Field 10 lorg.axonframework.eventhandling.AbstractEvent 19 javax.persistence.Lob Field 10 lorg.axonframework.eventhandling.AbstractEvent 20 javax.persistence.Lob Field 10 lorg.axonframework.eventhandling.dstractEvent 21 com.fasterxml.jackson.annotation.JsonGetter Method 9 lorg.axonframework.eventhandling.dstractEvent 22 javax.persistence.Lob Field 9 lorg.axonframework.eventhandling.dstractEvent 23 javax.persistence.Lob Field 9 lorg.axonframework.eventhandling.dstractEvent 24 org.axonframework.eventhandling.dstractEvent Annotation 8 lorg.axonframework.eventhandling.dstractEvent 25 javax.persistence.Lob Field 9 lorg.a	0	javax.annotation.Nonnull	Parameter	1501	[org.axonframework.eventsourcing.AbstractSnaps
java.lang.FunctionalInterface Interface 54 [org.axonframework.eventsourcing.conflictresol] Application Application	1	java.lang.Deprecated	Method	96	[org. axon framework. events our cing. Abstract Snaps
4 javalang.annotation.Retention Annotation 40 [org.axonframework.eventsourcing.EventSourcing 5 javalang.annotation.Target Annotation 40 [org.axonframework.eventsourcing 6 javax.persistence.Basic Field 39 [org.axonframework.eventhandling.AbstractDomai 7 javax.annotation.Nonnull Method 37 [org.axonframework.eventhandling.gateway.Def 8 jakarta.persistence.Basic Field 33 [org.axonframework.eventhandling.AbstractDomai 9 com.fasterxml.jackson.annotation.JonoProperty Parameter 32 [org.axonframework.commandhandling.distributed 10 java.lang.Deprecated Class 25 [org.axonframework.eventhandling.distributed 11 java.beans.ConstructorProperties Constructor 21 [org.axonframework.eventsourcing.MultiStreamab 12 [org.axonframework.eventsourcing.MultiStreamab 13 java.lang.Deprecated Constructor 21 [org.axonframework.eventsourcing.EventSourcing 14 com.fasterxml.jackson.annotation.Documented Annotation 21 [org.axonframework.eventsourcing.WultiStreamab 14 com.fasterxml.jackson.annotation.JsonCreator Constructor 17 [org.axonframework.eventhandling.GapAwareTrack 15 javax.lang.Deprecated Constructor 16 [org.axonframework.eventhandling.GapAwareTrack 15 javax.persistence.Column Field 12 [org.axonframework.eventhandling.GapAwareTrack 15 javax.persistence.Column Field 11 [org.axonframework.eventhandling.GapAwareTrack 16 [org.axonframework.common.Priority Class 11 [org.axonframework.eventhandling.GapAwareTrack 17 jakarta.persistence.Column Field 11 [org.axonframework.commandhandling.Garetevat 18 javax.persistence.Lob Field 10 [org.axonframework.eventhandling.AbstractEvent 19 [org.axonframework.eventhandling.AbstractEvent 19 [org.axonframework.eventhandling.Gaptevay.Non 19 [org.axonframework.eventhandling.Gaptevay.Non 19 [org.axonframework.eventhandling.Gaptevay.Non 19 [org.axonframework.eventhandling.Gaptevay.Non 19 [org.axonframework.eventhandling.Gaptevay.Non 19 [org.axonframework.eventhandling.Gaptevay 19 [org.axonframework.eventhandling.Gaptevay.Non 19 [org.ax	2	javax.annotation.Nullable	Parameter	61	[org. ax on framework. events our cing. events tore. Ev
5	3	java.lang.FunctionalInterface	Interface	54	[org. axon framework. events our cing. conflict resol
6 javax.persistence.Basic Field 39 [org.axonframework.eventhandling.AbstractDomai 7 javax.annotation.Nonnull Method 37 [org.axonframework.commandhandling.gateway.Def 8 javax.annotation.JsonProperty Parameter 32 [org.axonframework.commandhandling.distributed 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 [org.axonframework.commandhandling.distributed 10 java.lang.Deprecated Class 25 [org.axonframework.commandhandling.distributed 11 java.beans.ConstructorProperties Constructor 21 [org.axonframework.commandhandling.distributed 12 jaya.lang.annotation.Documented Annotation 21 [org.axonframework.commandhandling.distributed 13 java.lang.annotation.JsonCreator Constructor 17 [org.axonframework.eventsourcing.MultiStreamab 14 com.fasterxml.jackson.annotation.JsonCreator Constructor 16 [org.axonframework.eventsourcing.MultiStreamab 14 com.fasterxml.jackson.annotation.JsonCreator Constructor 16 [org.axonframework.eventhandling.GapAwareTrack 15 javax.persistence.Column Field 12 [org.axonframework.eventhandling.AbstractEvent 16 org.axonframework.common.Priority Class 11 [org.axonframework.commandhandling.CurrentUnit 17 jakarta.persistence.Column Field 11 [org.axonframework.eventhandling.AbstractEvent 18 javax.persistence.Lob Field 10 [org.axonframework.eventhandling.AbstractEvent 19 javax.persistence.Lob Field 10 [org.axonframework.eventhandling.distributed 20 javax.lang.SafeVarargs Constructor 9 [org.axonframework.eventhandling.distributed 21 com.fasterxml.jackson.annotation.JsonGetter Method 9 [org.axonframework.eventhandling.distributed 22 jakarta.persistence.Lob Field 9 [org.axonframework.eventhandling.distributed 24 org.axonframework.eventhandling.distributed 25 javax.persistence.Lob Field 8 [org.axonframework.eventhandling.distributed 24 org.axonframework.messaging.annotation.Hashand Annotation 8 [org.axonframework.eventhandling.distributed 25 javax.persistence.MappedSuperclass Class 6 [org.axonframework.eventhandling.commandHandl 26 or	4	java.lang.annotation.Retention	Annotation	40	[org. axon framework. events our cing. Event Sour cing
7 javax.anotation.Nonnull Method 37 [org.axonframework.commandhandling.gateway.Def 8 jakarta.persistence.Basic Field 33 [org.axonframework.commandhandling.distributed 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 [org.axonframework.commandhandling.distributed 10 java.lang.Deprecated Class 25 [org.axonframework.commandhandling.distributed 11 java.beans.ConstructorProperties Constructor 21 [org.axonframework.commandhandling.distributed 12 java.lang.annotation.Documented Annotation 21 [org.axonframework.eventsourcing.EventSourcing 13 java.lang.Deprecated Constructor 17 [org.axonframework.eventsourcing.EventSourcing 14 com.fasterxml.jackson.annotation.JsonCreator Constructor 16 [org.axonframework.eventhandling.GapAwareTrack 15 javax.persistence.Column Field 12 [org.axonframework.eventhandling.AshtractEvent 16 org.axonframework.common.Priority Class 11 [org.axonframework.commandhandling.CurrentUnit 17 jakarta.persistence.Column Field 11 [org.axonframework.commandhandling.AshtractEvent 18 javax.persistence.Lob Field 10 [org.axonframework.eventhandling.AshtractEvent 19 javax.persistence.Lob Field 10 [org.axonframework.eventhandling.AshtractEvent 20 java.lang.SafeVarargs Constructor 9 [org.axonframework.eventhandling.AshtractEvent 21 com.fasterxml.jackson.annotation.JsonGetter Method 9 [org.axonframework.eventhandling.dashtractEvent 22 jakarta.persistence.Lob Field 9 [org.axonframework.eventhandling.dashtractEvent 24 org.axonframework.messaging.annotation.JsonGetter Method 9 [org.axonframework.eventhandling.AshtractEvent 24 org.axonframework.messaging.annotation.HasHand Annotation 8 [org.axonframework.eventhandling.AshtractEvent 24 org.axonframework.messaging.annotation.HasHand Annotation 6 [org.axonframework.eventhandling.CommandHand 25 javax.persistence.Lob Field 10 [org.axonframework.eventhandling.Genemator 26 org.axonframework.messaging.annotation.HasHand 27 jakarta.persistence.Lob Field 10 [org.axonframework.eventhandling.Genemator	5	java.lang.annotation.Target	Annotation	40	[org. axon framework. events our cing. Event Sourcing
8 jakarta.persistence.Basic Field 33 [org.axonframework.eventhandling.AbstractDomai 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 [org.axonframework.commandhandling.distributed 10 java.lang.Deprecated Class 25 [org.axonframework.eventsourcing.MultiStreamab 11 java.beans.ConstructorProperties Constructor 21 [org.axonframework.eventsourcing.MultiStreamab 12 java.lang.annotation.Documented Annotation 21 [org.axonframework.eventsourcing.EventSourcing 13 java.lang.Deprecated Constructor 17 [org.axonframework.eventsourcing.MultiStreamab 14 com.fasterxml.jackson.annotation.JsonCreator Constructor 16 [org.axonframework.eventhandling.GapAwareTrack 15 javax.persistence.Column Field 12 [org.axonframework.eventhandling.AbstractEvent 16 org.axonframework.common.Priority Class 11 [org.axonframework.commandhandling.CurrentUnit 17 jakarta.persistence.Column Field 11 [org.axonframework.eventhandling.AbstractEvent 18 javax.persistence.Lob Field 10 [org.axonframework.eventhandling.AbstractEvent 19 javax.persistence.Lob Field 10 [org.axonframework.eventhandling.AbstractEvent 20 java.lang.SafeVarargs Constructor 9 [org.axonframework.eventhandling.AbstractEvent 21 com.fasterxml.jackson.annotation.JsonGetter Method 9 [org.axonframework.eventhandling.gateway.Non 22 jakarta.persistence.Lob Field 9 [org.axonframework.commandhandling.distributed 23 jakarta.persistence.Lob Field 9 [org.axonframework.eventhandling.AbstractEvent 24 org.axonframework.messaging.annotation.HasHand Annotation 8 [org.axonframework.eventhandling.AbstractEvent 25 javax.persistence.Lob Field 9 [org.axonframework.eventhandling.AbstractEvent 26 org.axonframework.messaging.annotation.HasHand Annotation 6 [org.axonframework.eventhandling.Commandhandl 27 jakarta.persistence.Lob Field 10 [org.axonframework.eventhandling.Genemandhandl 28 javax.persistence.MappedSuperclass Class 6 [org.axonframework.eventhandling.Commandhandl 39 javax.persistence.MappedSuperclass Class 6 [org.axonframework.	6	javax.persistence.Basic	Field	39	[org. ax on framework. eventhand ling. Abstract Domai
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