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 Java artifacts

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

	artifactName	packages	types	incomingDependencies	outgoingDependencies
0	axon-messaging-4.9.3.jar	64	786	5	0
1	axon-modelling-4.9.3.jar	10	156	4	1
2	axon-eventsourcing-4.9.3.jar	9	133	3	2
3	axon-test-4.9.3.jar	8	87	0	3
4	axon-configuration-4.9.3.jar	1	40	0	4
5	axon-disruptor-4.9.3.jar	1	22	1	3

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

	artifactName	packages	types	incomingDependencies	outgoingDependencies
0	axon-messaging-4.9.3.jar	64	786	5	0
1	axon-modelling-4.9.3.jar	10	156	4	1
2	axon-eventsourcing-4.9.3.jar	9	133	3	2
3	axon-test-4.9.3.jar	8	87	0	3
4	axon-configuration-4.9.3.jar	1	40	0	4
5	axon-disruptor-4.9.3.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-4.9.3.jar	64	786	5	0
1	axon-modelling-4.9.3.jar	10	156	4	1
2	axon-eventsourcing-4.9.3.jar	9	133	3	2
3	axon-disruptor-4.9.3.jar	1	22	1	3
4	axon-configuration-4.9.3.jar	1	40	0	4
5	axon-test-4.9.3.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	$incoming \\ Dependencies$	outgoingDependencies
0	axon-configuration-4.9.3.jar	1	40	0	4
1	axon-disruptor-4.9.3.jar	1	22	1	3
2	axon-test-4.9.3.jar	8	87	0	3
3	axon-eventsourcing-4.9.3.jar	9	133	3	2
4	axon-modelling-4.9.3.jar	10	156	4	1
5	axon-messaging-4.9.3.jar	64	786	5	0

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

	artifactName	packages	types	$incoming \\ Dependencies$	outgoingDependencies
0	axon-configuration-4.9.3.jar	1	40	0	4
1	axon-disruptor-4.9.3.jar	1	22	1	3
2	axon-test-4.9.3.jar	8	87	0	3
3	axon-eventsourcing-4.9.3.jar	9	133	3	2
4	axon-modelling-4.9.3.jar	10	156	4	1
5	axon-messaging-4.9.3.jar	64	786	5	0

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

	artifactName	packages	types	incomingDependencies	outgoingDependencies
0	axon-disruptor-4.9.3.jar	1	22	1	3
1	axon-configuration-4.9.3.jar	1	40	0	4
2	axon-test-4.9.3.jar	8	87	0	3
3	axon-eventsourcing-4.9.3.jar	9	133	3	2
4	axon-modelling-4.9.3.jar	10	156	4	1
5	axon-messaging-4.9.3.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-4.9.3.jar	1	40	0	4
1	axon-test-4.9.3.jar	8	87	0	3
2	axon-disruptor-4.9.3.jar	1	22	1	3
3	axon-eventsourcing-4.9.3.jar	9	133	3	2
4	axon-modelling-4.9.3.jar	10	156	4	1
5	axon-messaging-4.9.3.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-4.9.3.jar	64	786	5	0
1	axon-modelling-4.9.3.jar	10	156	4	1
2	axon-eventsourcing-4.9.3.jar	9	133	3	2
3	axon-disruptor-4.9.3.jar	1	22	1	3
4	axon-test-4.9.3.jar	8	87	0	3
5	axon-configuration-4.9.3.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- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	0.900000
1	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	0.882353
2	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.tracing	0.875000
3	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.messaging	0.857143
4	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.messaging.annotation	0.840000
5	axon- messaging- 4.9.3	org.axonframework.deadline	axon-messaging-4.9.3	org.axonframework.tracing	0.800000
6	axon- messaging- 4.9.3	org.axonframework.commandhandling	axon-messaging-4.9.3	org.axonframework.tracing	0.777778
7	axon- eventsourcing- 4.9.3	org.axonframework.eventsourcing	axon-eventsourcing-4.9.3	org.axonframework.eventsourcing.eventstore	0.777778
8	axon- messaging- 4.9.3	org.axonframework.commandhandling.callbacks	axon-messaging-4.9.3	org.axonframework.commandhandling	0.733333
9	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.serialization	0.647059
10	axon- messaging- 4.9.3	org.axonframework.messaging.unitofwork	axon-messaging-4.9.3	org.axonframework.messaging	0.647059
11	axon- messaging- 4.9.3	org.axonframework.eventhandling.async	axon-messaging-4.9.3	org.axonframework.eventhandling	0.538462
12	axon- messaging- 4.9.3	org.axonframework.eventhandling.replay	axon-messaging-4.9.3	org.axonframework.eventhandling	0.454545
13	axon- messaging- 4.9.3	org.axonframework.serialization.upcasting.event	axon-messaging-4.9.3	org.axonframework.eventhandling	0.333333
14	axon- eventsourcing- 4.9.3	org.axonframework.eventsourcing.eventstore.jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	0.317073
15	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.eventhandling.tokenstore	0.285714
16	axon- modelling- 4.9.3	org.axonframework.modelling.command.inspection	axon-modelling-4.9.3	org.axonframework.modelling.command	0.250000
17	axon- messaging- 4.9.3	org. ax on framework. query handling. registration	axon-messaging-4.9.3	org.axonframework.queryhandling	0.250000
18	axon- messaging- 4.9.3	org.axonframework.messaging	axon-messaging-4.9.3	org.axonframework.serialization	0.238095
19	axon- messaging- 4.9.3	org.axonframework.messaging.annotation	axon-messaging-4.9.3	org.axonframework.messaging.interceptors	0.200000
20	axon- modelling- 4.9.3	org.axonframework.modelling.saga	axon-modelling-4.9.3	org.axonframework.modelling.saga.metamodel	0.142857
21	axon- messaging- 4.9.3	org. ax on framework. command handling. distributed	axon-messaging-4.9.3	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- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	SimpleEventBus\$Builder->SpanFactory	
1	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	SubscribingEventProcessor\$Builder- >SpanFactory	
2	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	DefaultEventProcessorSpanFactory- >NoOpSpanFact	
3	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	AbstractEventBus->SpanScope	
4	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	EventMessage<-NestingSpanFactory	
5	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	EventBusSpanFactory->Span	
6	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	DefaultEventBusSpanFactory->SpanFactory	
7	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	DefaultEventProcessorSpanFactory->Span	
8	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	AbstractEventProcessor\$Builder- >NoOpSpanFactory	
9	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	AbstractEventBus->Span	
10	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	TrackingEventProcessor\$Builder- >SpanFactory	
11	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	DefaultEventProcessorSpanFactory\$Builder->Span	
12	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	AbstractEventBus\$Builder- >NoOpSpanFactory	
13	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	DefaultEventBusSpanFactory\$Builder- >SpanFactory	
14	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	AbstractEventBus\$Builder->SpanFactory	
15	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	DefaultEventBusSpanFactory->Span	
16	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	AbstractEventProcessor->Span	
17	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	DefaultEventProcessorSpanFactory- >SpanFactory	
18	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	EventProcessorSpanFactory->Span	
19	axon- messaging- 4.9.3	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.tracing	AbstractEventProcessor\$Builder- >SpanFactory	
20	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	StreamingQueryMessage->ResponseType	
21	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	QuerySubscription->ResponseType	
22	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	GenericSubscriptionQueryMessage->ResponseType	
23	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	SimpleQueryUpdateEmitter->MultipleInstancesRes	
24	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	SimpleQueryBus->ResponseType	
25	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	SimpleQueryUpdateEmitter- >OptionalResponseType	

	artifactName	packageName	dependentArtifactName	dependentPackageName	dependency	forward
26	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	GenericStreamingQueryMessage- >PublisherRespons	
27	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	SimpleQueryUpdateEmitter- >PublisherResponseType	
28	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	QueryResponseMessage<- ConvertingResponseMessage	
29	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	SubscriptionQueryMessage->ResponseType	
30	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	GenericQueryMessage->ResponseType	
31	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	GenericStreamingQueryMessage- >ResponseType	
32	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	SimpleQueryUpdateEmitter->ResponseType	
33	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	DefaultQueryGateway->ResponseType	
34	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	QueryGateway->ResponseTypes	
35	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	QueryGateway->ResponseType	
36	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.messaging.responsetypes	QueryMessage->ResponseType	
37	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.tracing	SimpleQueryUpdateEmitter\$Builder->NoOpSpanFactory	
38	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.tracing	SimpleQueryUpdateEmitter\$Builder- >SpanFactory	
39	axon- messaging- 4.9.3	org.axonframework.queryhandling	axon-messaging-4.9.3	org.axonframework.tracing	DefaultQueryUpdateEmitterSpanFactory->Span	

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

deper	dependentPackageName	dependentArtifactName	packageName	artifactName	
EventMessage<-NestingSpan	org.axonframework.tracing	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	0
QueryResponseMes ConvertingResponseM	org.axonframework.messaging.responsetypes	axon-messaging-4.9.3	org.axonframework.queryhandling	axon- messaging- 4.9.3	1
QueryMessage<-Sr	org.axonframework.tracing	axon-messaging-4.9.3	org.axonframework.queryhandling	axon- messaging- 4.9.3	2
DomainEventMessage<-H	org.axonframework.messaging	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	3
Tracking1 StreamableMessage	org.axonframework.messaging	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	4
EventMessage<-H	org.axonframework.messaging	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	5
DomainEventMes SourceIdParameterResc	org.axonframework.messaging.annotation	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	6
DomainEventMes AggregateTypeParameter	org.axonframework.messaging.annotation	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	7
DeadlineMessage<-Sr.	org.axonframework.tracing	axon-messaging-4.9.3	org.axonframework.deadline	axon- messaging- 4.9.3	8
CommandMessage<-Sp	org.axonframework.tracing	axon-messaging-4.9.3	org.axonframework.commandhandling	axon- messaging- 4.9.3	9
EventStrean AbstractEventStorage	org.axonframework.eventsourcing.eventstore	axon-eventsourcing-4.9.3	org.axonframework.eventsourcing	axon- eventsourcing- 4.9.3	10
EventStreamUtils<-DomainEvent	org.axonframework.eventsourcing.eventstore	axon-eventsourcing-4.9.3	org.axonframework.eventsourcing	axon- eventsourcing- 4.9.3	11
NoOpCal SimpleCommandBus\$	org.axonframework.commandhandling	axon-messaging-4.9.3	org.axonframework.commandhandling.callbacks	axon- messaging- 4.9.3	12
LoggingCal SimpleCommandBus\$	org.axonframework.commandhandling	axon-messaging-4.9.3	org.axonframework.commandhandling.callbacks	axon- messaging- 4.9.3	13
GenericDomainEventMes AbstractXStrear	org.axonframework.serialization	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	14
GapAwareTrackingTok	org.axonframework.serialization	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	15
GenericEventMes AbstractXStreamSe	org.axonframework.serialization	axon-messaging-4.9.3	org.axonframework.eventhandling	axon- messaging- 4.9.3	16
UnitOfWork<-DefaultIntercepto	org.axonframework.messaging	axon-messaging-4.9.3	org.axonframework.messaging.unitofwork	axon- messaging- 4.9.3	17
UnitOf MessageHandlerInte	org.axonframework.messaging	axon-messaging-4.9.3	org.axonframework.messaging.unitofwork	axon- messaging- 4.9.3	18
CurrentUnitOfWork<-GenericM	org.axonframework.messaging	axon-messaging-4.9.3	org.axonframework.messaging.unitofwork	axon- messaging- 4.9.3	19
SequentialPerAggregateF SimpleEventI	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.eventhandling.async	axon- messaging- 4.9.3	20
SequencingF SimpleEventHandlerInvoke	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.eventhandling.async	axon- messaging- 4.9.3	21
SequencingF SimpleEventHandler	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.eventhandling.async	axon- messaging- 4.9.3	22
ResetContext<-ResetI	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.eventhandling.replay	axon- messaging- 4.9.3	23
ResetCc AnnotationEventHandler/	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.eventhandling.replay	axon- messaging- 4.9.3	24
GenericResetCc AnnotationEventHandle	org.axonframework.eventhandling	axon-messaging-4.9.3	org.axonframework.eventhandling.replay	axon- messaging- 4.9.3	25

	artifactName	packageName	dependentArtifactName	dependentPackageName	deper
26	axon- messaging- 4.9.3	org.axonframework.serialization.upcasting.event	axon-messaging-4.9.3	org.axonframework.eventhandling	EventUpcaster<-Ev
27	axon- messaging- 4.9.3	org.axonframework.serialization.upcasting.event	axon-messaging-4.9.3	org.axonframework.eventhandling	IntermediateEventRepresent Ev
28	axon- messaging- 4.9.3	org.axonframework.serialization.upcasting.event	axon-messaging-4.9.3	org.axonframework.eventhandling	InitialEventRepresentation<-Ev
29	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re.jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl CleanGapsStatement
30	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re.jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl FetchTrackedEventsStatement
31	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re.jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl JdbcEventStorageEngineStat
32	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re.jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl CreateTokenAtStatemen
33	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re. jdbc	axon-eventsourcing-4.9.3	org. ax on framework. events our cing. events to re. jdb	EventScl ReadSnapshotDataStatement
34	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re. jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl CreateTailTokenStatemen
35	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re. jdbc	axon-eventsourcing-4.9.3	org. ax on framework. events our cing. events to re. jdb	EventScl ReadEventDataWithoutGapsState
36	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re. jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl AppendSnapshotStatement
37	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re.jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl DeleteSnapshotsStatement
38	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re. jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl CreateHeadTokenStatemen
39	axon- eventsourcing- 4.9.3	org. axon framework. events our cing. events to re. jdbc	axon-eventsourcing-4.9.3	org. axon framework. events our cing. events to re. jdb	EventScl AppendEventsStatement

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. ax on framework. command handling. Command Message	9	[getCommandName]	1	18
1	$org. ax on framework. eventh and ling. Event {\tt Message}$	9	[getIdentifier, getTimestamp]	2	10
2	org. ax on framework. eventh and ling. Domain Event Mes	10	[getSequenceNumber]	1	9
3	$org. ax on framework. eventh and ling. Tracked {\sf EventMe}$	10	[trackingToken]	1	8
4	org. ax on framework. eventh and ling. Domain Event Mes	10	[getType,getSequenceNumber,getAggregateIdent	3	7
5	org. ax on framework. eventh and ling. Event Message	9	[getIdentifier]	1	7
6	org. ax on framework. messaging. Result Message	9	[exceptionResult, isExceptional]	2	6
7	org. axon framework. command handling. Generic Comma	14	[asCommandResultMessage]	1	5
8	org. axon 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	$org. ax on framework. eventh and ling. Tracked {\tt Event Me}$	12	[trackingToken]	1	4
11	org.axonframework.deadline.DeadlineMessage	10	[getDeadlineName]	1	4
12	org. ax on framework. eventh and ling. Domain Event Mes	10	[getAggregateIdentifier]	1	4
13	org. ax on framework. eventh and ling. Domain Event Mes	10	[getType]	1	4
14	org.axonframework.eventhandling.GenericEventMe	10	[asEventMessage]	1	4
15	org.axonframework.eventhandling.EventMessage	9	[getTimestamp]	1	4
16	org.axonframework.deadline.DefaultDeadlineMana	8	[builder]	1	4
17	org.axonframework.common.transaction.NoTransac	4	[instance]	1	4
18	org.axonframework.commandhandling.GenericComma	15	[asCommandResultMessage]	1	3
19	org.axonframework.modelling.command.inspection	13	[type]	1	3
20	org.axonframework.eventhandling.DomainEventMes	11	[getType, getSequenceNumber, getAggregateIdent	3	3
21	$org. ax on framework. eventh and ling. Generic {\tt EventMe}$	11	[asEventMessage]	1	3
22	org.axonframework.eventhandling.TrackedEventMe	11	[trackingToken]	1	3
23	org.axonframework.eventhandling.TrackedEventMe	11	[trackingToken, withTrackingToken]	2	3
24	org.axonframework.eventhandling.DomainEventMes	10	[getSequenceNumber, getAggregateIdentifier]	2	3
25	org.axonframework.eventhandling.GapAwareTracki	10	[getGaps, newInstance, withGapsTruncatedAt, ge	5	3
26	org.axonframework.eventhandling.TrackedEventData	5	[trackingToken]	1	3
27	org.axonframework.eventhandling.tokenstore.Con	5	[get]	1	3
28	org.axonframework.eventhandling.TrackerStatus	17	[getTrackingToken, split, getSegment]	3	2
29	org.axonframework.modelling.command.inspection	17	[initialize, getAggregateRoot, initSequence]	4	2
30	org.axonframework.queryhandling.SimpleQueryUpd	17	[builder]	1	2
31	org.axonframework.commandhandling.CommandMessa	14	[commandName, isFactoryHandler]	2	2
32	org.axonframework.commandhandling.GenericComma	14	[asCommandResultMessage]	2	2
33	org.axonframework.deadline.DeadlineMessage	14	[getDeadlineName]	1	2
34	org.axonframework.messaging.GenericResultMessage	14	[asResultMessage]	1	2
35	org.axonframework.messaging.annotation.Wrapped	14	[handle]	1	2
36	org.axonframework.eventhandling.DomainEventMes	13	[getSequenceNumber, getAggregateIdentifier]	2	2
37	org.axonframework.eventhandling.ReplayToken	13	[isReplay]	1	2
38	org.axonframework.modelling.command.inspection	13	[types]	1	2
39	org. ax on framework. query handling. Subscription Qu	12	[getUpdateResponseType]	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, Mark4TopCe	44
1	org. axon framework. common. Axon Configuration Exce	AxonConfigurationException	[Type, File, Java, ByteCode, Class, Mark4TopCe	37
2	org.axonframework.messaging.Message	Message	[Type, File, Java, ByteCode, GenericDeclaratio	34
3	org.axonframework.messaging.MetaData	MetaData	[Type, File, Java, ByteCode, Class, Mark4TopCe	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, Mark4T	29
7	org.axonframework.common.Assert	Assert	[Type, File, Java, ByteCode, Class, Mark4TopCe	27
8	org.axonframework.common.transaction.Transacti	TransactionManager	[Type, File, Java, ByteCode, Interface, Mark4T	27
9	org.axonframework.serialization.SerializedObject	SerializedObject	[Type, File, Java, ByteCode, GenericDeclaratio	25
10	org.axonframework.serialization.SerializedType	SerializedType	[Type, File, Java, ByteCode, Interface, Mark4T	24
11	org.axonframework.messaging.unitofwork.Current	CurrentUnitOfWork	[Type, File, Java, ByteCode, Class, Mark4TopCe	21
12	org.axonframework.common.AxonNonTransientExcep	AxonNonTransientException	[Type, File, Java, ByteCode, Class, Mark4TopCe	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, Mark4T	18
16	org.axonframework.eventhandling.TrackingToken	TrackingToken	[Type, File, Java, ByteCode, Interface, Mark4T	18
17	org.axonframework.common.Registration	Registration	[Type, File, Java, ByteCode, Interface, Mark4T	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, Mark4TypeW	16
21	org.axonframework.tracing.SpanFactory	SpanFactory	[Type, File, Java, ByteCode, Interface, Mark4T	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, Mark4T	14
26	org.axonframework.common.ReflectionUtils	ReflectionUtils	[Type, File, Java, ByteCode, Class, Mark4TypeW	14
27	org.axonframework.eventhandling.EventBus	EventBus	[Type, File, Java, ByteCode, Interface, Mark4T	13
28	org.axonframework.lifecycle.Lifecycle	Lifecycle	[Type, File, Java, ByteCode, Interface, Mark4T	13
29	org.axonframework.lifecycle.Lifecycle\$Lifecycl	Lifecycle\$LifecycleRegistry	[Type, File, Java, ByteCode, Interface, Mark4T	13
30	org.axonframework.common.transaction.NoTransac	NoTransactionManager	[Type, File, Java, ByteCode, Enum, Mark4TypeWe	13
31	org.axonframework.messaging.ResultMessage	ResultMessage	[Type, File, Java, ByteCode, GenericDeclaratio	13
32	org.axonframework.common.DateTimeUtils	DateTimeUtils	[Type, File, Java, ByteCode, Class, Mark4TypeW	12
33	org.axonframework.messaging.DefaultInterceptor	DefaultInterceptorChain	[Type, File, Java, ByteCode, Class, GenericDec	12
34	org.axonframework.messaging.InterceptorChain	InterceptorChain	[Type, File, Java, ByteCode, Interface, Mark4T	12

	full Qualified Dependent Type Name	dependentTypeName	dependentTypeLabels	numberOfUsingPackages
35	org.axonframework.tracing.NoOpSpanFactory	NoOpSpanFactory	[Type, File, Java, ByteCode, Class, Mark4TypeW	12
36	org.axonframework.messaging.ScopeDescriptor	ScopeDescriptor	[Type, File, Java, ByteCode, Interface, Mark4T	12
37	org. ax on framework. common. Ax on Transient Exception	AxonTransientException	[Type, File, Java, ByteCode, Class, Mark4TypeW	11
38	org.axonframework.messaging.annotation.Classpa	ClasspathHandlerDefinition	[Type, File, Java, ByteCode, Class, Mark4TypeW	11
39	org.axonframework.messaging.annotation.Classpa	ClasspathParameterResolverFactory	[Type, File, Java, ByteCode, Class, Mark4TypeW	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	d
axon- modelling- 4.9.3	axon-modelling-4.9.3	6	10	0.600000	[org.axonframework.modelling.saga.repository,	(
axon-test-	axon-test-4.9.3	5	8	0.625000	[org.axonframework.test.matchers, org.axonfram	
axon- messaging- 4.9.3	axon-messaging-4.9.3	41	64	0.640625	[org. ax on framework. eventh and ling. deadletter. jp	
axon- 3 eventsourcing- 4.9.3	axon-eventsourcing-4.9.3	7	9	0.777778	[org.axonframework.eventsourcing, org.axonfram	

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-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test.matchers	org.axonframework.eventhandling	1	
1	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.snapshotting	org.axonframework.eventhandling	1	
2	axon- modelling- 4.9.3	axon-messaging-4.9.3	org.axonframework.modelling.saga.metamodel	org.axonframework.eventhandling	1	
3	axon- eventsourcing- 4.9.3	axon-modelling-4.9.3	org.axonframework.eventsourcing.conflictresolu	org.axonframework.modelling.command	1	
4	axon- eventsourcing- 4.9.3	axon-modelling-4.9.3	org.axonframework.eventsourcing.eventstore.jdbc	org.axonframework.modelling.command	1	
5	axon-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test.eventscheduler	org.axonframework.eventhandling	2	
6	axon- modelling- 4.9.3	axon-messaging-4.9.3	org.axonframework.modelling.command	org.axonframework.eventhandling	2	
7	axon- modelling- 4.9.3	axon-messaging-4.9.3	org.axonframework.modelling.command.legacyjpa	org.axonframework.eventhandling	2	
8	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.conflictresolu	org.axonframework.eventhandling	2	
9	eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.conflictresolu	org.axonframework.messaging	1	
10	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.eventstore	org.axonframework.messaging	1	
11	axon-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test	org.axonframework.messaging	1	
12	axon-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test.matchers	org.axonframework.messaging	1	
13	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org. axon framework. events our cing. events to re.leg	org.axonframework.serialization	1	
14	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.eventstore.jdbc	org.axonframework.serialization	1	
15	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.eventstore.jpa	org.axonframework.serialization	1	
16	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org. axon framework. events our cing. events to re. jdb	org.axonframework.eventhandling	3	
17	axon-test- 4.9.3	axon-modelling-4.9.3	org.axonframework.test.utils	org.axonframework.modelling.saga		
18	axon-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test.matchers	org.axonframework.commandhandling	1	
19	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.conflictresolu	org.axonframework.commandhandling	1	
20	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org. axon framework. events our cing. events to re. jdb	org.axonframework.common	1	
21	axon-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test.eventscheduler	org.axonframework.common	1	
22	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.snapshotting	org.axonframework.common	1	
23	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org. ax on framework. events our cing. conflict resolu	org.axonframework.common	1	
24	axon-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test.server	org.axonframework.common	1	
25	axon- modelling- 4.9.3	axon-messaging-4.9.3	org.axonframework.modelling.command.legacyjpa	org.axonframework.common	1	
26	axon-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test.utils	org.axonframework.common	1	
27	axon-test- 4.9.3	axon-messaging-4.9.3	org.axonframework.test	org.axonframework.messaging.annotation	2	
28	axon- eventsourcing- 4.9.3	axon-messaging-4.9.3	org.axonframework.eventsourcing.conflictresolu	org.axonframework.messaging.annotation	2	

artifactName	dependentArtifactName	packageName dependentPa		dependentTypes de	pendentPackageT
axon- 29 eventsourcing- 4.9.3	axon-modelling-4.9.3	org.axonframework.eventsourcing.eventstore	org.axonframework.modelling.command	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.

0 javakannotation Nonnull Parameter 1501 [org.axonframework.eventsourcing.AbstractSnaps] 1 javalang Deprecated Method 96 [org.axonframework.eventsourcing.AbstractSnaps] 2 javakang PunctionalInterface 61 [org.axonframework.eventsourcing.eventstore.Ev] 4 javalang annotation Retention Annotation 40 [org.axonframework.eventsourcing.eventsourcing. 5 javalang annotation. Target Annotation 40 [org.axonframework.eventsourcing.EventSourcing] 6 javax.persistence. Basic Field 33 [org.axonframework.eventsourcing. EventSourcing] 7 javax.persistence. Basic Field 33 [org.axonframework.eventsourcing] 8 javax.persistence. Basic Field 33 [org.axonframework.eventsourcing] 9 com.fasterxml.jackson.annotation. JosnProperty Parameter 32 [org.axonframework.eventsourcing] 11 javax.persistence. Basic Field 33 [org.axonframework.eventsourcing] 12 javax.persistence. Basic Field 33 [org.axonframework.eventsourcing] <th></th> <th>annotationName</th> <th>languageElement</th> <th>number Of Annotated Elements</th> <th>examples</th>		annotationName	languageElement	number Of Annotated Elements	examples
2 javax.annotation.Nullable Parameter 61 jorg.axonframework.eventsourcing.eventstore.Ev 3 java.lang.FunctionalInterface Interface 54 jorg.axonframework.eventsourcing.conflictresol 4 java.lang.annotation.Retention Annotation 40 jorg.axonframework.eventsourcing.EventSourcing 5 java.lang.annotation.Target Annotation 40 jorg.axonframework.eventsourcing.EventSourcing 6 javax.persistence.Basic Field 39 jorg.axonframework.eventsourcing.EventSourcing 7 javax.annotation.Nonnull Method 37 jorg.axonframework.eventsourcing.EventSourcing 8 jakarta.persistence.Basic Field 33 jorg.axonframework.test.aggregate.Aggregate 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 jorg.axonframework.modelling.command.Aggregate 10 java.lang.Deprecated Class 25 jorg.axonframework.eventsourcing.MultiStreamab 11 java.beans.ConstructorProperties Constructor 21 jorg.axonframework.eventsourcing.MultiStreamab 12 java.lang.annotation.Documented Annotation 21 jorg.axonframework.eventsourcing.MultiStreamab 14 com.fasterxml.jackson.annotation.SponCreator Constructor 17 jorg.axonframework.eventsourcing.MultiStreamab 15 java.lang.Deprecated Constructor 16 jorg.axonframework.eventsourcing.MultiStreamab 16 javax.persistence.Column Field 11 jorg.axonframework.eventsourcing.MultiStreamab 17 javax.persistence.Column Field 11 jorg.axonframework.eventsourcing.Baga.repositoryj 18 javax.persistence.Lob Field 10 jorg.axonframework.modelling.saga.repositoryj 19 javax.persistence.Lob Field 10 jorg.axonframework.eventsourcing.eventstore.Ab 20 javax.persistence.Lob Field 9 jorg.axonframework.eventsourcing.eventstore.Ab 21 javax.persistence.Lob Field 9 jorg.axonframework.eventsourcing.eventstore.Ab 22 javax.persistence.Lob Field 9 jorg.axonframework.eventsourcing.eventstore.Ab 23 org.axonframework.messaging.annotation.JsonGetter Method 9 jorg.axonframework.eventsourcing.eventstore.Ab 24 javax.persistence.Lob Field 9 jorg.axonframework.eventsourcing.eventstore.Ab 25 javax.persistence.AappedS	0	javax.annotation.Nonnull	Parameter	1501	[org.axonframework.eventsourcing.AbstractSnaps
java.lang.functionalInterface Interface 54 Gorg.axonframework.eventsourcing.conflictresol 4 java.lang.annotation.Retention Annotation 40 Gorg.axonframework.eventsourcing.conflictresol 5 java.lang.annotation.Target Annotation 40 Gorg.axonframework.eventsourcing 6 javax.persistence.Basic Field 39 Gorg.axonframework.eventsourcing 7 javax.annotation.Nonnull Method 37 Gorg.axonframework.eventsourcing 8 jakarta.persistence.Basic Field 33 Gorg.axonframework.modelling.saga.repository] 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 Gorg.axonframework.modelling.saga.repository 10 java.lang.Deprecated Class 25 Gorg.axonframework.modelling.command.Aggregate 11 java.beans.ConstructorProperties Constructor 21 Gorg.axonframework.modelling.command.Aggregate 12 java.lang.annotation.Documented Annotation 21 Gorg.axonframework.eventsourcing 13 java.lang.Deprecated Constructor 16 Gorg.axonframework.modelling.command.Aggregate 14 com.fasterxml.jackson.annotation.sonCreator Constructor 16 Gorg.axonframework.modelling.command.Aggregate 15 javax.persistence.Column Field 11 Gorg.axonframework.modelling.saga.repositoryj 16 jakarta.persistence.Column Field 11 Gorg.axonframework.modelling.saga.repositoryj 17 org.axonframework.common.Priority Class 11 Gorg.axonframework.modelling.saga.repositoryj 18 javax.persistence.Lob Field 10 Gorg.axonframework.modelling.saga.repositoryj 19 javax.persistence.Lob Field 10 Gorg.axonframework.eventsourcing.eventstore.Ab 20 javax.persistence.Lob Field 10 Gorg.axonframework.eventsourcing.eventstore.Ab 21 javax.persistence.Lob Field 10 Gorg.axonframework.eventsourcing.eventstore.Ab 22 javax.persistence.Lob Field 10 Gorg.axonframework.eventsourcing.eventstore.Ab 23 org.axonframework.modelling.saga.repositoryj 24 jakarta.persistence.Lob	1	java.lang.Deprecated	Method	96	[org. axon framework. events our cing. Abstract Snaps
Annotation	2	javax.annotation.Nullable	Parameter	61	[org. ax on framework. events our cing. events tore. Ev
Signal ang annotation Target Annotation 40 [org.axonframework.eventsourcing_EventSourcing	3	java.lang.FunctionalInterface	Interface	54	[org. axon framework. events our cing. conflict resol
6 javax.persistence.Basic Field 39 [org.axonframework.modelling.saga.repository.j 7 javax.annotation.Nonnull Method 37 [org.axonframework.test.aggregate.Aggregate Tes 8 javax.annotation.JsonProperty Parameter 32 [org.axonframework.modelling.saga.repository.j 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 [org.axonframework.modelling.command.Aggregate 10 java.lang.Deprecated Class 25 [org.axonframework.wodelling.command.Aggregate 11 java.beans.ConstructorProperties Constructor 21 [org.axonframework.wodelling.command.Aggregate 12 [org.axonframework.comsind.Construction.Documented Annotation 21 [org.axonframework.wodelling.command.Aggregate 14 com.fasterxml.jackson.annotation.DsonCreator 17 [org.axonframework.wodelling.command.Aggregate 15 javax.persistence.Column Field 12 [org.axonframework.modelling.saga.repository.j 16 [org.axonframework.modelling.saga.repository.j 17 org.axonframework.common.Priority Class 11 [org.axonframework.modelling.saga.repository.j 17 org.axonframework.common.Priority Class 11 [org.axonframework.common.Priority Class 11 [org.axonframework.common.Priority Class 11 [org.axonframework.common.Priority Class 12 [org.axonframework.common.Priority Class 13 [org.axonframework.common.Priority Class 14 [org.axonframework.common.Priority Class 15 [org.axonframework.common.Priority Class 16 [org.axonframework.common.Priority Class 17 [org.axonframework.common.Priority Class 17 [org.axonframework.common.Priority Class 18 [org.axonframework.common.Creatiore.Ab 19 [org.axonframework.common.Creatiore.C 19 [org.axonfram	4	java.lang.annotation.Retention	Annotation	40	[org. axon framework. events our cing. Event Sour cing
7 javax.annotation.Nonnull Method 37 [org.axonframework.test.aggregate.Aggregate.Aggregate.Tess] 8 jakarta.persistence.Basic Field 33 [org.axonframework.modelling.saga.repository.j] 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 [org.axonframework.modelling.command.Aggregate] 10 java.lang.Deprecated Class 25 [org.axonframework.modelling.command.Aggregate] 11 java.lang.annotation.Documented Annotation 21 [org.axonframework.comton/e.command.Aggregate] 12 java.lang.annotation.JsonCreator Constructor 17 [org.axonframework.eventsourcing.EventSourcing. 14 com.fasterxml.jackson.annotation.JsonCreator Constructor 16 [org.axonframework.commork.common.Protructor 16 [org.axonframework.modelling.saga.repository.j] 15 javax.persistence.Column Field 11 [org.axonframework.modelling.saga.repository.j] 16 javax.persistence.Column Field 10 [org.axonframework.modelling.saga.repository.j] 17 org.axonframework.common.Priority Class 11 [org.axonframework.	5	java.lang.annotation.Target	Annotation	40	[org. axon framework. events our cing. Event Sour cing
8 jakarta.persistence. Basic Field 33 [org.axonframework.modelling.saga.repository] 9 com.fasterxml.jackson.annotation.JsonProperty Parameter 32 [org.axonframework.modelling.command.Aggregate 10 java.lang.Deprecated Class 25 [org.axonframework.modelling.command.Aggregate	6	javax.persistence.Basic	Field	39	[org. ax on framework. modelling. saga. repository. j
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