Package Dependencies for Java with Neo4j

References

- Analyze java package metrics in a graph database
- Calculate metrics
- py2neo

Artifacts

Table 1

· List all the artifacts this notebook is based on

	artifactName	packages	types
0	axon-eventsourcing-4.7.5.jar	9	130
1	axon-modelling-4.7.5.jar	10	149
2	axon-configuration-4.7.5.jar	1	39
3	axon-messaging-4.7.5.jar	61	729
4	axon-disruptor-4.7.5.jar	1	22
5	axon-test-4.7.5.jar	8	85

Cyclic Dependencies

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

Table 2

· List packages with cyclic dependencies

	packageName	dependentPackageName	forwardToBackwardBalance	numberForward	numberBackward
0	org.axonframework.queryhandling	org.axonframework.messaging.responsetypes	0.882353	16	1
1	org.axonframework.eventhandling	org.axonframework.tracing	0.857143	13	1
2	org.axonframework.eventhandling	org.axonframework.messaging	0.853659	38	3
3	org.axonframework.eventhandling	org.axonframework.messaging.annotation	0.840000	23	2 [A
4	org.axonframework.queryhandling	org.axonframework.tracing	0.800000	9	1
5	org.axonframework.eventsourcing	org.axonframework.eventsourcing.eventstore	0.777778	16	2 [
6	org.axonframework.deadline	org.axonframework.tracing	0.750000	7	1
7	org.axonframework.commandhandling.callbacks	org.axonframework.commandhandling	0.733333	13	2
8	org.axonframework.commandhandling	org.axonframework.tracing	0.666667	5	1 [As
9	org.axonframework.eventhandling	org.axonframework.serialization	0.647059	14	3 [Tr
10	org.axonframework.messaging.unitofwork	org.axonframework.messaging	0.647059	14	3
11	$org. ax on framework. eventh and ling. as {\it ync}$	org.axonframework.eventhandling	0.538462	10	3 [Ev
12	org.axonframework.eventhandling.replay	org.axonframework.eventhandling	0.454545	8	3
13	org. axon framework. serialization. upcasting. event	org.axonframework.eventhandling	0.333333	6	3 [L
14	org.axonframework.eventsourcing.eventstore.jdbc	org. ax on framework. events our cing. events to re. jdb	0.317073	27	14
15	org. axon framework. modelling. command. in spection	org. ax on framework. modelling. command	0.250000	20	12 [Ag
16	org.axonframework.queryhandling.registration	org.axonframework.queryhandling	0.250000	5	3 [Dı
17	org.axonframework.messaging	org.axonframework.serialization	0.238095	13	8
18	org.axonframework.eventhandling	org. ax on framework. eventh and ling. to ken store	0.230769	8	5 [7
19	org.axonframework.messaging.annotation	org.axonframework.messaging.interceptors	0.200000	3	2 [M
20	org.axonframework.modelling.saga	org.axonframework.modelling.saga.metamodel	0.142857	4	3
21	org. ax on framework. command handling. distributed	org.axonframework.commandhandling.distributed	0.076923	7	6

Table 3

• List packages with cyclic dependencies with every dependency in a separate row sorted by the easiest and most valuable to resolve

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org.axonframework.eventhandling org.axonframework.messaging GenericDomainEventMessage->MetaData 0.853659 org.axonframework.eventhandling org.axonframework.messaging MultiStreamableMessageSource\$Builder->Streamab 0.853659 org.axonframework.eventhandling org.axonframework.messaging EventProcessor->MessageHandlerInterceptorSupport 0.853659 org.axonframework.eventhandling org.axonframework.messaging EventProcessor->MessageHandlerInterceptor 0.853659 org.axonframework.eventhandling org.axonframework.messaging EventBus->SubscribableMessageSource 0.853659 org.axonframework.eventhandling org.axonframework.messaging EventBus->MessageDispatchInterceptorSupport 0.853659 org.axonframework.eventhandling org.axonframework.messaging SubscribingEventProcessor->SubscribableMessage 0.853659 org.axonframework.eventhandling org.axonframework.messaging AbstractEventBus->MessageDispatchInterceptor 0.853659 org.axonframework.eventhandling org.axonframework.messaging AbstractEventBus->MessageDispatchInterceptor 0.853659 org.axonframework.eventhandling org.axonframework.messaging AbstractEventBus->MessageDispatchInterceptor 0.853659	40	org.axonframework.eventhandling	org.axonframework.messaging	GenericDomainEventMessage->GenericMessage	0.853659	
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45 org.axonframework.eventhandling org.axonframework.messaging EventProcessor->MessageHandlerInterceptor 0.853659 46 org.axonframework.eventhandling org.axonframework.messaging EventBus->SubscribableMessageSource 0.853659 47 org.axonframework.eventhandling org.axonframework.messaging EventBus->MessageDispatchInterceptorSupport 0.853659 48 org.axonframework.eventhandling org.axonframework.messaging SubscribingEventProcessor->SubscribableMessage 0.853659 49 org.axonframework.eventhandling org.axonframework.messaging AbstractEventBus->MessageDispatchInterceptor 0.853659 50 org.axonframework.eventhandling org.axonframework.messaging AnnotationEventHandlerAdapter->Message 0.853659	43	org.axonframework.eventhandling	org.axonframework.messaging	MultiStreamableMessageSource\$Builder->Streamab	0.853659	
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49 org.axonframework.eventhandling org.axonframework.messaging AbstractEventBus->MessageDispatchInterceptor 0.853659 50 org.axonframework.eventhandling org.axonframework.messaging AnnotationEventHandlerAdapter->Message 0.853659	47	org.axonframework.eventhandling	org.axonframework.messaging	EventBus->MessageDispatchInterceptorSupport	0.853659	
50 org.axonframework.eventhandling org.axonframework.messaging AnnotationEventHandlerAdapter->Message 0.853659	48	org.axonframework.eventhandling	org.axonframework.messaging	SubscribingEventProcessor->SubscribableMessage	0.853659	
	49	org.axonframework.eventhandling	org.axonframework.messaging	AbstractEventBus->MessageDispatchInterceptor	0.853659	
51 org.axonframework.eventhandling org.axonframework.messaging EventMessageHandler->Message 0.853659	50	org.axonframework.eventhandling	org.axonframework.messaging	AnnotationEventHandlerAdapter->Message	0.853659	
	51	org.axonframework.eventhandling	org.axonframework.messaging	EventMessageHandler->Message	0.853659	
52 org.axonframework.eventhandling org.axonframework.messaging EventMessageHandler 0.853659	52	org.axonframework.eventhandling	org.axonframework.messaging	EventMessageHandler->MessageHandler	0.853659	

	packageName	dependentPackageName	dependency	forward To Backward Balance	numberl
53	org.axonframework.eventhandling	org.axonframework.messaging	DomainEventMessage->Message	0.853659	
54	org.axonframework.eventhandling	org.axonframework.messaging	AbstractEventProcessor->MessageHandlerInterceptor	0.853659	
55	org.axonframework.eventhandling	org.axonframework.messaging	AbstractEventProcessor->ResultMessage	0.853659	
56	org.axonframework.eventhandling	org.axonframework.messaging	AbstractEventProcessor->DefaultInterceptorChain	0.853659	
57	org.axonframework.eventhandling	org.axonframework.messaging	$Subscribing {\tt EventProcessor\$Builder->Subscribabl}$	0.853659	
58	org.axonframework.eventhandling	org.axonframework.messaging	${\it TimestampParameterResolverFactory\$TimestampPar}$	0.853659	
59	org.axonframework.eventhandling	org.axonframework.messaging	TrackingEventProcessor->Message	0.853659	

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 3

 List top 20 most used combinations of methods of larger Types that might benefit from Interface Segregation

	dependentType.fqn	declaredMethods	calledMethodNames	calledMethods	callerTypes
0	org. ax on framework. command handling. Command Message	9	[getCommandName]	1	18
1	org. ax on framework. messaging. Result Message	9	[exceptionResult, isExceptional]	2	10
2	org. ax on framework. eventhand ling. Domain Event Mes	10	[getSequenceNumber]	1	9
3	org. ax on framework. eventh and ling. Event Message	9	[getIdentifier]	1	8
4	$org. ax on framework. eventh and ling. Event {\tt Message}$	9	[getIdentifier, getTimestamp]	2	8
5	$org. ax on framework. eventh and ling. Tracked {\sf EventMe}$	10	[trackingToken]	1	7
6	org. ax on framework. eventh and ling. Domain Event Mes	10	$[get Sequence Number, \ get Type, \ get Aggregate Ident$	3	5
7	org. axon framework. command handling. Generic Comma	15	[asCommandResultMessage]	1	4
8	org. axon framework. command handling. Generic Comma	14	[asCommandResultMessage]	1	4
9	$org. ax on framework. eventh and ling. Tracked {\sf EventMe}$	12	[trackingToken]	1	4
10	org. ax on framework. dead line. Generic Dead line Message	11	[asDeadlineMessage]	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 Event Mes	10	[getType]	1	4
13	org. ax on framework. eventh and ling. Domain Event Mes	10	[getAggregateIdentifier]	1	4
14	$org. ax on framework. eventh and ling. Generic {\sf Event Me}$	10	[asEventMessage]	1	4
15	org. ax on framework. common. transaction. No Transac	4	[instance]	1	4
16	org. ax on framework. modelling. command. in spection	13	[type]	1	3
17	org. ax on framework. eventh and ling. Domain Event Mes	11	$[{\tt getSequenceNumber}, {\tt getType}, {\tt getAggregateIdent}$	3	3
18	org. ax on framework. eventh and ling. Domain Event Mes	10	[getSequenceNumber, getAggregateIdentifier]	2	3
19	org. ax on framework. event handling. Gap Aware Tracki	10	$[newInstance, with {\tt GapsTruncatedAt}, advance{\tt To}, \dots$	5	3

Package Usage

Types that are used by multiple packages

Table 4

• List the top 20 packages that are used by the highest count of different packages

	dependentType.fqn	dependentType.name	dependentTypeLabels	numberOfUsingPackages
0	org.axonframework.common.BuilderUtils	BuilderUtils	[Type, File, Java, ByteCode, Class]	41
1	org.axonframework.messaging.Message	Message	[Type, File, Java, ByteCode, GenericDeclaratio	36
2	$org. ax on framework. common. Ax on Configuration {\sf Exce}$	$Axon Configuration {\sf Exception}$	[Type, File, Java, ByteCode, Class]	35
3	org. ax on framework. eventh and ling. Event Message	EventMessage	[Type, File, Java, ByteCode, GenericDeclaratio	30
4	org. ax on framework. messaging. Meta Data	MetaData	[Type, File, Java, ByteCode, Class]	30
5	org. ax on framework. messaging. unit of work. Unit Of Work	UnitOfWork	[Type, File, Java, ByteCode, GenericDeclaratio	29
6	org.axonframework.common.Assert	Assert	[Type, File, Java, ByteCode, Class]	26
7	org. ax on framework. serialization. Serializer	Serializer	[Type, File, Java, ByteCode, Interface]	26
8	org. ax on framework. common. transaction. Transacti	TransactionManager	[Type, File, Java, ByteCode, Interface]	23
9	org. ax on framework. serialization. Serialized Object	SerializedObject	[Type, File, Java, ByteCode, GenericDeclaratio	22
10	org. ax on framework. messaging. unit of work. Current	CurrentUnitOfWork	[Type, File, Java, ByteCode, Class]	21
11	$org. ax on framework. serialization. Serialized {\it Type}$	SerializedType	[Type, File, Java, ByteCode, Interface]	21
12	org. axon framework. common. Axon Non Transient Excep	Axon Non Transient Exception	[Type, File, Java, ByteCode, Class]	18
13	org. ax on framework. messaging. annotation. Paramet	ParameterResolverFactory	[Type, File, Java, ByteCode, Interface]	18
14	org. ax on framework. eventhand ling. Domain Event Mes	DomainEventMessage	[Type, File, Java, ByteCode, GenericDeclaratio	17
15	org. ax on framework. eventh and ling. Tracking Token	TrackingToken	[Type, File, Java, ByteCode, Interface]	17
16	org.axonframework.common.Registration	Registration	[Type, File, Java, ByteCode, Interface]	16
17	$org. ax on framework. eventh and ling. Generic {\tt Event Me}$	GenericEventMessage	[Type, File, Java, ByteCode, Class, GenericDec	16
18	org.axonframework.common.ObjectUtils	ObjectUtils	[Type, File, Java, ByteCode, Class]	15
19	org. ax on framework. messaging. Message Handler In te	MessageHandlerInterceptor	[Type, File, Java, ByteCode, GenericDeclaratio	15

Packages that are used by multiple artifacts

Table 5

• List the top 20 artifacts that only use a few (compared to all existing) packages of another artifact

	artifactName	dependentArtifactName	dependentPackages	dependentArtifactPackages	packageUsagePercentage	dependentFullQualifiedPackageNames
0	axon- disruptor-4.7.5	axon-messaging-4.7.5	9	61	0.147541	[org.axonframework.monitoring, org.axonframewo
1	axon-test- 4.7.5	axon-messaging-4.7.5	10	61	0.163934	[org.axonframework.messaging, org.axonframewor
2	axon- eventsourcing- 4.7.5	axon-modelling-4.7.5	2	10	0.200000	[org.axonframework.modelling.command, org.axon
3	axon- disruptor-4.7.5	axon-modelling-4.7.5	2	10	0.200000	[org.axonframework.modelling.command, org.axon
4	axon- disruptor-4.7.5	axon-eventsourcing-4.7.5	2	9	0.222222	[org.axonframework.eventsourcing, org.axonfram
5	axon-test- 4.7.5	axon-eventsourcing-4.7.5	2	9	0.222222	[org.axonframework.eventsourcing.eventstore, o
6	axon- modelling- 4.7.5	axon-messaging-4.7.5	18	61	0.295082	[org.axonframework.messaging.annotation, org.a
7	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	20	61	0.327869	[org.axonframework.messaging, org.axonframewor
8	axon- configuration- 4.7.5	axon-eventsourcing-4.7.5	4	9	0.444444	[org.axonframework.eventsourcing, org.axonfram
9	axon-test- 4.7.5	axon-modelling-4.7.5	5	10	0.500000	[org.axonframework.modelling.saga.repository.i
10	axon- configuration- 4.7.5	axon-messaging-4.7.5	34	61	0.557377	[org.axonframework.eventhandling.tokenstore.jp
11	axon- modelling- 4.7.5	axon-modelling-4.7.5	6	10	0.600000	[org.axonframework.modelling.command, org.axon
12	axon- configuration- 4.7.5	axon-modelling-4.7.5	6	10	0.600000	[org.axonframework.modelling.saga.repository.i
13	axon-test- 4.7.5	axon-test-4.7.5	5	8	0.625000	[org.axonframework.test.matchers, org.axonfram
14	axon- messaging- 4.7.5	axon-messaging-4.7.5	40	61	0.655738	[org.axonframework.common, org.axonframework.e
15	axon- eventsourcing- 4.7.5	axon-eventsourcing-4.7.5	7	9	0.777778	[org.axonframework.eventsourcing.eventstore, o
16	axon- configuration- 4.7.5	axon-disruptor-4.7.5	1	1	1.000000	[org.axonframework.disruptor.commandhandling]

Packages that are used by multiple artifacts

Table 6

• List the top 20 packages that only use a few (compared to all existing) types of another package

	artifactName	dependentArtifactName	packageName	dependentPackage.fqn	dependentTypes	dependentPackageTy
0	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org.axonframework.eventsourcing.snapshotting	org.axonframework.eventhandling	1	
1	axon-test- 4.7.5	axon-messaging-4.7.5	org.axonframework.test.matchers	org.axonframework.eventhandling	1	
2	axon- modelling- 4.7.5	axon-messaging-4.7.5	org.axonframework.modelling.saga.metamodel	org.axonframework.eventhandling	1	
3	axon- eventsourcing- 4.7.5	axon-modelling-4.7.5	org. ax on framework. events our cing. conflict resolu	org.axonframework.modelling.command	1	
4	axon- eventsourcing- 4.7.5	axon-modelling-4.7.5	org.axonframework.eventsourcing.eventstore.jdbc	org.axonframework.modelling.command	1	
5	axon- modelling- 4.7.5	axon-messaging-4.7.5	org.axonframework.modelling.command.legacyjpa	org.axonframework.eventhandling	2	
6	axon- modelling- 4.7.5	axon-messaging-4.7.5	org.axonframework.modelling.command	org.axonframework.eventhandling	2	
7	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org. ax on framework. events our cing. conflict resolu	org.axonframework.eventhandling	2	
8	axon-test- 4.7.5	axon-messaging-4.7.5	org.axonframework.test.eventscheduler	org.axonframework.eventhandling	2	
9	axon-test- 4.7.5	axon-messaging-4.7.5	org.axonframework.test	org.axonframework.messaging	1	
10	axon-test- 4.7.5	axon-messaging-4.7.5	org.axonframework.test.matchers	org.axonframework.messaging	1	
11	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org. ax on framework. events our cing. conflict resolu	org.axonframework.messaging	1	
12	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org.axonframework.eventsourcing.eventstore	org.axonframework.messaging	1	
13	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org.axonframework.eventsourcing.eventstore.jpa	org.axonframework.serialization	1	
14	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org. axon framework. events our cing. events to re.leg	org.axonframework.serialization	1	
15	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org.axonframework.eventsourcing.eventstore.jdbc	org.axonframework.serialization	1	
16	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org. axon framework. events our cing. events to re. jdb	org.axonframework.eventhandling	3	
17	axon-test- 4.7.5	axon-modelling-4.7.5	org.axonframework.test.utils	org.axonframework.modelling.saga	1	
18	axon-test- 4.7.5	axon-messaging-4.7.5	org.axonframework.test.matchers	org.axonframework.commandhandling	1	
19	axon- eventsourcing- 4.7.5	axon-messaging-4.7.5	org. ax on framework. events our cing. conflict resolu	org.axonframework.commandhandling	1	