Method Metrics

References

- jqassistant
- Neo4j Python Driver

Effective Method Line Count

Table 1a - Effective method line count distribution

This table shows the distribution of the effective method line count per artifact. For each artifact the number of methods with effective line count = 1,2,3,... is shown to get an overview of how line counts are distributed over methods.

Only the 15 artifacts with the highest method count and their effective method line count distribution (limited by 40)is shown here. The whole table can be found in the CSV report Effective Method Line Count Distribution .

Have a look below to find out which packages and methods have the highest effective lines of code.

artifactName	axon-messaging- 4.9.0.jar	axon-eventsourcing- 4.9.0.jar	axon-modelling- 4.9.0.jar	axon-test- 4.9.0.jar	axon-configuration- 4.9.0.jar	axon-disruptor- 4.9.0.jar
effectiveLineCount						
1	2819	574	532	279	310	84
2	823	203	158	169	146	31
3	674	127	141	64	34	30
4	269	64	57	49	42	8
5	221	39	45	24	16	5
6	161	34	45	18	17	6
7	103	32	24	20	3	2
8	80	12	10	11	7	0
9	76	17	17	11	8	4
10	45	8	8	3	6	3
11	46	2	8	9	5	1
12	41	5	2	9	1	1
13	26	2	9	5	2	1
14	17	3	3	3	1	2
15	9	2	5	2	0	0
16	8	6	2	4	0	0
17	10	0	2	4	1	1
18	9	3	0	2	1	1
19	6	0	1	0	1	1
20	5	2	2	1	0	0
21	7	2	1	1	1	0
22	2	0	2	1	0	1
23	5	1	0	1	1	0
24	3	2	1	1	0	1
25	2	2	0	0	0	0
26	2	0	1	1	1	0
28	2	0	0	1	0	0
30	1	0	0	0	0	0
31	1	0	0	1	0	0
32	1	0	0	0	0	1
33	1	0	0	0	0	0
34	1	0	0	0	0	0
36	2	0	0	0	0	0
38	0	0	1	0	0	0
43	0	0	0	0	1	0
44	1	0	0	0	0	0
45	0	0	0	1	0	0
50	1	0	0	0	1	0
63	1	0	0	0	0	0
64	1	0	0	0	0	0

Table 1b - Effective method line count distribution (normalized)

The table shown here only includes the first 40 rows which typically represents the most significant entries. Have a look below to find out which packages and methods have the highest effective lines of code.

artifactName	axon-messaging- 4.9.0.jar	axon-eventsourcing- 4.9.0.jar	axon-modelling- 4.9.0.jar	axon-test- 4.9.0.jar	axon-configuration- 4.9.0.jar	axon-disruptor- 4.9.0.jar
effectiveLineCount						
1	51.413460	50.262697	49.396472	40.143885	51.155116	45.652174
2	15.010031	17.775832	14.670381	24.316547	24.092409	16.847826
3	12.292541	11.120841	13.091922	9.208633	5.610561	16.304348
4	4.906073	5.604203	5.292479	7.050360	6.930693	4.347826
5	4.030640	3.415061	4.178273	3.453237	2.640264	2.717391
6	2.936349	2.977233	4.178273	2.589928	2.805281	3.260870
7	1.878534	2.802102	2.228412	2.877698	0.495050	1.086957
8	1.459055	1.050788	0.928505	1.582734	1.155116	0.000000
9	1.386102	1.488616	1.578459	1.582734	1.320132	2.173913
10	0.820719	0.700525	0.742804	0.431655	0.990099	1.630435
11	0.838957	0.175131	0.742804	1.294964	0.825083	0.543478
12	0.747766	0.437828	0.185701	1.294964	0.165017	0.543478
13	0.474193	0.175131	0.835655	0.719424	0.330033	0.543478
14	0.310049	0.262697	0.278552	0.431655	0.165017	1.086957
15	0.164144	0.175131	0.464253	0.287770	0.000000	0.000000
16	0.145906	0.525394	0.185701	0.575540	0.000000	0.000000
17	0.182382	0.000000	0.185701	0.575540	0.165017	0.543478
18	0.164144	0.262697	0.000000	0.287770	0.165017	0.543478
19	0.109429	0.000000	0.092851	0.000000	0.165017	0.543478
20	0.091191	0.175131	0.185701	0.143885	0.000000	0.000000
21	0.127667	0.175131	0.092851	0.143885	0.165017	0.000000
22	0.036476	0.000000	0.185701	0.143885	0.000000	0.543478
23	0.091191	0.087566	0.000000	0.143885	0.165017	0.000000
24	0.054715	0.175131	0.092851	0.143885	0.000000	0.543478
25	0.036476	0.175131	0.000000	0.000000	0.000000	0.000000
26	0.036476	0.000000	0.092851	0.143885	0.165017	0.000000
28	0.036476	0.000000	0.000000	0.143885	0.000000	0.000000
30	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
31	0.018238	0.000000	0.000000	0.143885	0.000000	0.000000
32	0.018238	0.000000	0.000000	0.000000	0.000000	0.543478
33	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
34	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
36	0.036476	0.000000	0.000000	0.000000	0.000000	0.000000
38	0.000000	0.000000	0.092851	0.000000	0.000000	0.000000
43	0.000000	0.000000	0.000000	0.000000	0.165017	0.000000
44	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
45	0.000000	0.000000	0.000000	0.143885	0.000000	0.000000
50	0.018238	0.000000	0.000000	0.000000	0.165017	0.000000
63	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
64	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000

Table 1b Chart 1 - Effective method line count distribution (normalized)

<Figure size 640x480 with 0 Axes>

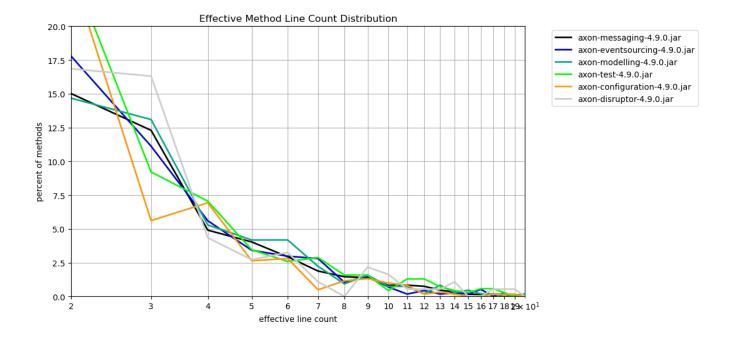


Table 1c - Top 30 packages with highest effective line counts

The following table shows the top 30 packages with the highest effective lines of code. The whole table can be found in the CSV report Effective_lines_of_method_code_per_package .

	artifactName	fullPackageName	linesInPackage	methodCount	maxLinesMethod	maxLinesMethodName
0	axon- messaging- 4.9.0	org.axonframework.eventhandling	2338	838	64	processBatch
1	axon- configuration- 4.9.0	org.axonframework.config	1587	606	50	<init></init>
2	axon- messaging- 4.9.0	org.axonframework.eventhandling.pooled	1021	333	78	run
3	axon-test- 4.9.0	org.axonframework.test.aggregate	951	249	45	appendEventOverview
4	axon- messaging- 4.9.0	org.axonframework.queryhandling	927	381	36	doQuery
5	axon- messaging- 4.9.0	org. ax on framework. even than dling. dead letter. jdbc	849	249	31	convertToLetter
6	axon- modelling- 4.9.0	org.axonframework.modelling.command	824	329	17	lambda $initialize Handler 7$
7	axon- eventsourcing- 4.9.0	org.axonframework.eventsourcing.eventstore	712	264	21	peekPrivateStream
8	axon- messaging- 4.9.0	org.axonframework.messaging.annotation	673	239	23	<init></init>
9	axon- modelling- 4.9.0	org.axonframework.modelling.command.inspection	637	218	26	inspectFieldsAndMethods
10	axon- eventsourcing- 4.9.0	org.axonframework.eventsourcing	623	251	20	doScheduleSnapshot
11	axon- disruptor-4.9.0	org.axonframework.disruptor.commandhandling	605	184	32	<init></init>
12	axon- eventsourcing- 4.9.0	org. axon framework. events our cing. events to re.leg	573	187	25	fetchTrackedEvents
13	axon- eventsourcing- 4.9.0	org.axonframework.eventsourcing.eventstore.jdbc	569	236	24	getTrackedEventData
14	axon- messaging- 4.9.0	org.axonframework.serialization	537	181	22	<init></init>
15	axon- messaging- 4.9.0	org.axonframework.eventhandling.deadletter.jpa	522	132	28	equals
16	axon- messaging- 4.9.0	org.axonframework.common	501	144	24	get Exact Direct Super Types Of Parameterized Type Or C
17	axon- modelling- 4.9.0	org.axonframework.modelling.saga	490	194	22	handle
18	axon- messaging- 4.9.0	org.axonframework.commandhandling.gateway	488	174	50	createGateway
19	axon-test- 4.9.0	org.axonframework.test.saga	487	167	28	<init></init>
20	axon- messaging- 4.9.0	org. ax on framework. command handling. distributed	477	175	23	dispatch
21	axon- messaging- 4.9.0	org.axonframework.eventhandling.tokenstore.jdbc	430	130	26	updateToken
22	axon- messaging- 4.9.0	org. ax on framework. eventh and ling. dead letter. leg	401	97	21	convert
23	axon- messaging- 4.9.0	org.axonframework.commandhandling	377	169	13	<init></init>
24	axon- modelling- 4.9.0	org.axonframework.modelling.saga.repository.jdbc	374	84	38	updateSaga
25	axon- messaging- 4.9.0	org.axonframework.messaging.unitofwork	363	129	32	executeWithResult
26	axon-test- 4.9.0	org.axonframework.test.matchers	351	108	21	matchingFields

maxLinesMethodName	maxLinesMethod	methodCount	linesInPackage	fullPackageName	artifactName	
defaultHeaders	13	156	348	org.axonframework.messaging	axon- messaging- 4.9.0	27
execute	18	103	321	org.axonframework.deadline.dbscheduler	axon- messaging- 4.9.0	28
fetchTrackedEvents	25	101	320	org.axonframework.eventsourcing.eventstore.jpa	axon- eventsourcing- 4.9.0	29

Table 1d - Top 30 methods with the highest effective line count

The following table shows the top 30 methods with the highest effective lines of code. The whole table can be found in the CSV report Effective_lines_of_method_code_per_package.

Part		index	artifactName	fullPackageName	maxLinesMethodType	maxLinesMetho
1	0	2	messaging-	org.axonframework.eventhandling.pooled	Coordinator\$CoordinationTask	
2	1	0	messaging-	org.axonframework.eventhandling	TrackingEventProcessor	proces
3 12 messageing magnetimental contracted languagements magnetimental contracted languagements magnetimental contracted magnetimental contracte	2	1	configuration-	org.axonframework.config	DefaultConfigurer	
1	3	18	messaging-	org.axonframework.commandhandling.gateway	CommandGatewayFactory	createG
5 86 messaging and some season of accompany of accompany and some season of accompany of a some season	4	3		org.axonframework.test.aggregate	Reporter	appendEventO ¹
Part	5	35	messaging-	org.axonframework.deadline.quartz	DeadlineJob	e
1	6	24	modelling-	org.axonframework.modelling.saga.repository.jdbc	JdbcSagaStore	upda
8	7	4	messaging-	org.axonframework.queryhandling	SimpleQueryBus	d
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24 17 modelling- 4.9.0 org.axonframework.modelling.saga AbstractSagaManager 25 14 messaging- 4.9.0 org.axonframework.serialization AbstractXStreamSerializer 26 32 modelling- org.axonframework.modelling.saga.repository AssociationValueMap\$AssociationValueComparator calculated associationValueComparator calculated associationValueCom	23	20	messaging-	org.axonframework.commandhandling.distributed	DistributedCommandBus	d
25 14 messaging-4.9.0 org.axonframework.serialization AbstractXStreamSerializer axon- 26 32 modelling- org.axonframework.modelling.saga.repository AssociationValueMap\$AssociationValueComparator ca	24	17	modelling-	org.axonframework.modelling.saga	AbstractSagaManager	
26 32 modelling- org.axonframework.modelling.saga.repository AssociationValueMap\$AssociationValueComparator ci	25	14	messaging-	org.axonframework.serialization	AbstractXStreamSerializer	
	26	32	modelling-	org.axonframework.modelling.saga.repository	AssociationValueMap\$AssociationValueComparator	CI

maxLinesMetho	maxLinesMethodType	fullPackageName	artifactName	index	
peekPrivate	EmbeddedEventStore\$EventConsumer	org.axonframework.eventsourcing.eventstore	axon- eventsourcing- 4.9.0	7	27
matchin	DeepEqualsMatcher	org.axonframework.test.matchers	axon-test- 4.9.0	26	28
	InitialEventRepresentation	org.axonframework.serialization.upcasting.event	axon- messaging- 4.9.0	54	29

Cyclomatic Complexity

Table 2a - Cyclomatic method complexity distribution

This table shows the distribution of the cyclomatic complexity of methods per artifact. For each artifact the number of methods with the cyclomatic complexity = 1,2,3,... is shown to get an overview of how cyclomatic complexity is distributed over methods.

Only the 15 artifacts with the highest method count sum and their cyclomatic method complexity distribution (limited by 40) is shown here. The whole table can be found in the CSV report Cyclomatic_Method_Complexity_Distribution.

Have a look below to find out which packages and methods have the highest effective lines of code.

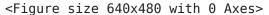
artifactName	axon-messaging- 4.9.0.jar	axon-eventsourcing- 4.9.0.jar	axon-modelling- 4.9.0.jar	axon-test- 4.9.0.jar	axon-configuration- 4.9.0.jar	axon-disruptor- 4.9.0.jar
cyclomaticComplexity						
1	4413	943	895	518	542	146
2	462	94	75	60	37	20
3	284	53	38	60	17	5
4	141	24	29	22	5	4
5	74	9	24	12	3	3
6	45	4	10	9	0	2
7	20	7	2	4	2	2
8	12	7	1	3	0	2
9	7	0	2	1	0	0
10	4	0	0	1	0	0
11	9	0	0	2	0	0
12	4	0	0	2	0	0
13	2	1	0	1	0	0
14	1	0	0	0	0	0
15	1	0	0	0	0	0
16	0	0	1	0	0	0
17	1	0	0	0	0	0
21	1	0	0	0	0	0
22	1	0	0	0	0	0
40	1	0	0	0	0	0

Table 2b - Cyclomatic method complexity distribution (normalized)

The table shown here only includes the first 40 rows which typically represents the most significant entries. Have a look below to find out which packages and methods have the highest effective lines of

artifactName	axon-messaging- 4.9.0.jar	axon-eventsourcing- 4.9.0.jar	axon-modelling- 4.9.0.jar	axon-test- 4.9.0.jar	axon-configuration- 4.9.0.jar	axon-disruptor- 4.9.0.jar
cyclomaticComplexity						
1	80.485136	82.574431	83.101207	74.532374	89.438944	79.347826
2	8.426044	8.231173	6.963788	8.633094	6.105611	10.869565
3	5.179646	4.640981	3.528319	8.633094	2.805281	2.717391
4	2.571585	2.101576	2.692665	3.165468	0.825083	2.173913
5	1.349626	0.788091	2.228412	1.726619	0.495050	1.630435
6	0.820719	0.350263	0.928505	1.294964	0.000000	1.086957
7	0.364764	0.612960	0.185701	0.575540	0.330033	1.086957
8	0.218858	0.612960	0.092851	0.431655	0.000000	1.086957
9	0.127667	0.000000	0.185701	0.143885	0.000000	0.000000
10	0.072953	0.000000	0.000000	0.143885	0.000000	0.000000
11	0.164144	0.000000	0.000000	0.287770	0.000000	0.000000
12	0.072953	0.000000	0.000000	0.287770	0.000000	0.000000
13	0.036476	0.087566	0.000000	0.143885	0.000000	0.000000
14	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
15	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
16	0.000000	0.000000	0.092851	0.000000	0.000000	0.000000
17	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
21	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
22	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000
40	0.018238	0.000000	0.000000	0.000000	0.000000	0.000000

Table 2b Chart 1 - Cyclomatic method complexity distribution (normalized)



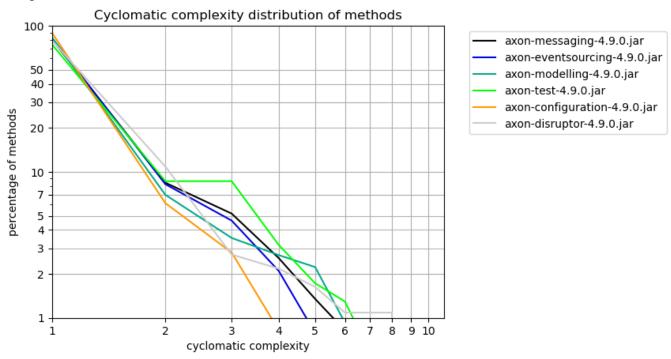


Table 2c - Top 30 packages with highest cyclomatic complexity

The following table shows the top 30 packages with the highest cyclomatic complexity. The whole table can be found in the CSV report Effective_lines_of_method_code_per_package .

	artifactName	fullPackageName	complexityInPackage	methodCount	maxComplexity	maxComplexityMeth
0	axon- messaging- 4.9.0	org.axonframework.eventhandling	1277	838	21	processBat
1	axon- configuration- 4.9.0	org.axonframework.config	716	606	7	invokeLifecycleHandle
4	axon- messaging- 4.9.0	org.axonframework.queryhandling	477	381	11	doQue
2	axon- messaging- 4.9.0	org.axonframework.eventhandling.pooled	448	333	22	r
6	axon- modelling- 4.9.0	org.axonframework.modelling.command	445	329	9	resolveTarç
3	axon-test- 4.9.0	org.axonframework.test.aggregate	434	249	13	ensureValuesEqu
7	axon- eventsourcing- 4.9.0	org.axonframework.eventsourcing.eventstore	397	264	13	hasNe
8	axon- messaging- 4.9.0	org.axonframework.messaging.annotation	386	239	14	hand
9	axon- modelling- 4.9.0	org.axonframework.modelling.command.inspection	339	218	9	prepareHandle
10	axon- eventsourcing- 4.9.0	org.axonframework.eventsourcing	325	251	8	doScheduleSnapst
5	axon- messaging- 4.9.0	org. ax on framework. eventh and ling. dead letter. jdbc	304	249	12	equ₁
16	axon- messaging- 4.9.0	org.axonframework.common	301	144	9	getExactDirectSuperTypesOfParameterizedTypeOrC
12	axon- eventsourcing- 4.9.0	org. axon framework. events our cing. events to re.leg	292	187	8	withGapsClean
14	axon- messaging- 4.9.0	org.axonframework.serialization	285	181	7	equa
17	axon- modelling- 4.9.0	org.axonframework.modelling.saga	277	194	6	instantiateAssociationResol\
11	axon- disruptor-4.9.0	org.axonframework.disruptor.commandhandling	274	184	8	doDispat
13	axon- eventsourcing- 4.9.0	org.axonframework.eventsourcing.eventstore.jdbc	273	236	7	${\tt lambda} fetch Tracked Events$
18	axon- messaging- 4.9.0	org.axonframework.commandhandling.gateway	249	174	12	createGatew
20	axon- messaging- 4.9.0	org.axonframework.commandhandling.distributed	243	175	12	equa
19	axon-test- 4.9.0	org.axonframework.test.saga	234	167	9	assertDispatchedEqual
15	axon- messaging- 4.9.0	org. ax on framework. eventhand ling. dead letter. jp a	212	132	15	equa
27	axon- messaging- 4.9.0	org.axonframework.messaging	209	156	4	endSco
25	axon- messaging- 4.9.0	org.axonframework.messaging.unitofwork	206	129	11	executeWithRes
23	axon- messaging- 4.9.0	org.axonframework.commandhandling	201	169	10	<in< td=""></in<>
26	axon-test- 4.9.0	org.axonframework.test.matchers	191	108	8	matchesL
31	axon- messaging- 4.9.0	org.axonframework.common.caching	182	110	8	onEve
21	axon- messaging- 4.9.0	org.axonframework.eventhandling.tokenstore.jdbc	173	130	9	updateTok

on	xComp	mplex	cityM	eth	Meth
			6	equa	equa
ine	ermineM	neMes	sage	:Nar	jeNar
(e)	adKeyV	eyViol	ation(Cod	nCod

Table 2d - Top 30 methods with highest cyclomatic complexity

The following table shows the top 30 packages containing the methods with the highest cyclomatic complexity. The whole table can be found in the CSV report

Effective_lines_of_method_code_per_package .

	index	artifactName	fullPackageName	maxComplexityType	maxComple
0	51	axon- messaging- 4.9.0	org. ax on framework. eventhand ling. scheduling. job	JobRunrEventScheduler	deserial
1	2	axon- messaging- 4.9.0	org.axonframework.eventhandling.pooled	Coordinator\$CoordinationTask	
2	0	axon- messaging- 4.9.0	org.axonframework.eventhandling	TrackingEventProcessor	pı
3	32	axon- modelling- 4.9.0	org.axonframework.modelling.saga.repository	AssociationValueMap\$AssociationValueComparator	
4	15	axon- messaging- 4.9.0	org. ax on framework. even than dling. dead letter. jp a	DeadLetterEventEntry	
5	8	axon- messaging- 4.9.0	org.axonframework.messaging.annotation	AnnotatedMessageHandlingMember	
6	47	axon- messaging- 4.9.0	org.axonframework.deadline.jobrunr	JobRunrDeadlineManager	deserial
7	7	axon- eventsourcing- 4.9.0	org.axonframework.eventsourcing.eventstore	ConcatenatingDomainEventStream	
8	52	axon- messaging- 4.9.0	org. ax on framework. command handling. distributed	CommandNameFilter	deserial
9	3	axon-test- 4.9.0	org.axonframework.test.aggregate	AggregateTestFixture	ensure ¹
10	5	axon- messaging- 4.9.0	org. ax on framework. eventh and ling. dead letter. jdbc	JdbcDeadLetter	
11	37	axon- messaging- 4.9.0	org.axonframework.common.jdbc	ConnectionWrapperFactory	lar
12	39	axon-test- 4.9.0	org.axonframework.test.server	AxonServerContainer	
13	20	axon- messaging- 4.9.0	org.axonframework.commandhandling.distributed	ReplyMessage	
14	18	axon- messaging- 4.9.0	org.axonframework.commandhandling.gateway	CommandGatewayFactory	cre
15	22	axon- messaging- 4.9.0	org.axonframework.eventhandling.deadletter.leg	JpaDeadLetter	
16	4	axon- messaging- 4.9.0	org.axonframework.queryhandling	SimpleQueryBus	
17	25	axon- messaging- 4.9.0	org.axonframework.messaging.unitofwork	BatchingUnitOfWork	execut
18	28	axon- messaging- 4.9.0	org.axonframework.deadline.dbscheduler	DbSchedulerHumanReadableDeadlineDetails	
19	35	axon- messaging- 4.9.0	org.axonframework.deadline.quartz	DeadlineJob	
20	49	axon- messaging- 4.9.0	org.axonframework.common.lock	PessimisticLockFactory\$DisposableLock	
21	40	axon- messaging- 4.9.0	org.axonframework.messaging.responsetypes	MultipleInstancesResponseType	
22	23	axon- messaging- 4.9.0	org.axonframework.commandhandling	$\label{lem:MethodCommandHandlerDefinition\$MethodCommandMe} MethodCommandHandlerDefinition\$MethodCommandMe$	
23	30	axon- messaging- 4.9.0	org.axonframework.messaging.deadletter	GenericDeadLetter	
24	16	axon- messaging- 4.9.0	org.axonframework.common	TypeReflectionUtils	getExactDirectSuperTypesOfParameterize
25	6	axon- modelling- 4.9.0	org.axonframework.modelling.command	AnnotationCommandTargetResolver	re
26	19	axon-test- 4.9.0	org.axonframework.test.saga	CommandValidator	assertDispato

maxComple	maxComplexityType	fullPackageName	artifactName	index	
	JacksonSerializer	org.axonframework.serialization.json	axon- messaging- 4.9.0	50	27
ι	JdbcTokenStore	org. ax on framework. eventh and ling. to ken store. jdbc	axon- messaging- 4.9.0	21	28
prep	AnnotatedAggregateMetaModelFactory\$AnnotatedAg	org.axonframework.modelling.command.inspection	axon- modelling- 4.9.0	9	29