Overview in General

This file contains a general overview of the data in the graph including node labels and relationships types.

References

- jqassistant
- Neo4j Python Driver

Node Labels

Table 1a - Highest node count by label combination

Lists the 30 label combinations with the highest number of nodes. The labels with the lowest node count are listed in table 1b. The total list would sum up to the total number of labels (100%).

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

Total number of nodes: 92791

	nodeLabels	nodes With That Labels	nodes With That Labels Percent
0	[Git, Change]	71722	77.294134
1	[Git, Commit]	9845	10.609865
2	[File, Git]	5049	5.441260
3	[Author, Git, Person]	1181	1.272753
4	[Git, Tag]	1048	1.129420
5	[Json, Key]	668	0.719897
6	[Json, Value, Scalar]	603	0.649848
7	[Committer, Git, Person]	371	0.399823
8	[NPM, Dependency]	330	0.355638
9	[Type, TS, Primitive, ExternalType]	291	0.313608
10	[Type, TS, Declared, ExternalType]	286	0.308220
11	[TS, ExternalDeclaration]	211	0.227393
12	[Type, TS, Literal, ExternalType]	136	0.146566
13	[Json, Value, Object]	133	0.143333
14	[Type, TS, Union, ExternalType]	120	0.129323
15	[Type, TS, ObjectMember, ExternalType]	98	0.105614
16	[NPM, Script]	91	0.098070
17	[TS, Property]	65	0.070050
18	[TS, Function]	47	0.050651
19	[Type, Object, TS, ExternalType]	38	0.040952
20	[Type, TS, FunctionParameter, ExternalType]	38	0.040952
21	[File, Directory]	34	0.036641
22	[TS, Parameter]	33	0.035564
23	[Type, TS, Function, ExternalType]	33	0.035564
24	[Package, File, Json, NPM]	29	0.031253
25	[TS, ExternalModule]	25	0.026942
26	[Git, Branch]	25	0.026942
27	[TS, Variable]	24	0.025865
28	[Value, TS, Literal]	20	0.021554
29	[jQAssistant, Rule, Concept]	19	0.020476

Chart 1a - Highest node count by label combination

Values under 0.5% will be grouped into "others" to get a cleaner plot. The group "others" is then broken down in Chart 1b.

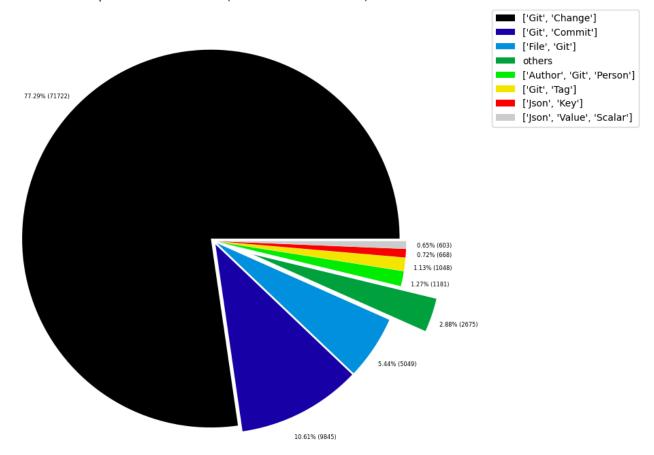


Table 1b - Lowest node count by label combination

Lists the 30 label combinations with the lowest number of nodes until they reach 0.5% of the total node count, which are shown above.

	nodeLabels	nodes With That Labels	nodes With That Labels Percent
0	[Analyze, Task, jQAssistant]	1	0.001078
1	[File, TS, Scan]	1	0.001078
2	[TS, Method]	1	0.001078
3	[Value, TS, ObjectMember]	1	0.001078
4	[TS, Constructor]	1	0.001078
5	[TS, Class]	1	0.001078
6	[TS, Enum]	2	0.002155
7	[Value, Object, TS]	3	0.003233
8	[Type, TS, Tuple, ExternalType]	3	0.003233
9	[Value, TS, Function]	4	0.004311
10	[TS, TypeParameter]	4	0.004311
11	[Value, TS, Complex]	5	0.005388
12	[NPM, Engine]	6	0.006466
13	[Project, TS]	6	0.006466
14	[File, Local]	6	0.006466
15	[Value, TS, Call]	6	0.006466
16	[Value, TS, Member]	6	0.006466
17	[File, TS, Local, Module]	6	0.006466
18	$[{\sf Type},{\sf TS},{\sf TypeParameterReference},{\sf ExternalType}]$	6	0.006466
19	[TS, EnumMember]	8	0.008622
20	[Type, TS, NotIdentified, ExternalType]	11	0.011855
21	[Json, Value, Array]	12	0.012932
22	[Value, TS, Declared]	13	0.014010
23	[TS, TypeAlias]	14	0.015088
24	[File, Directory, Local]	16	0.017243
25	[Type, TS, Intersection, ExternalType]	17	0.018321
26	[TS, Interface]	18	0.019398
27	[jQAssistant, Rule, Concept]	19	0.020476
28	[Value, TS, Literal]	20	0.021554
29	[TS, Variable]	24	0.025865

Chart 1b - Lowest node count by label combination

Shows the lowest (less than 0.5% overall) node count label combinations. Therefore, this plot breaks down the "others" slice of the pie chart above. Values under 0.01% will be grouped into "others" to get a cleaner plot.

Nodes per label combination (less than 0.5% overall)

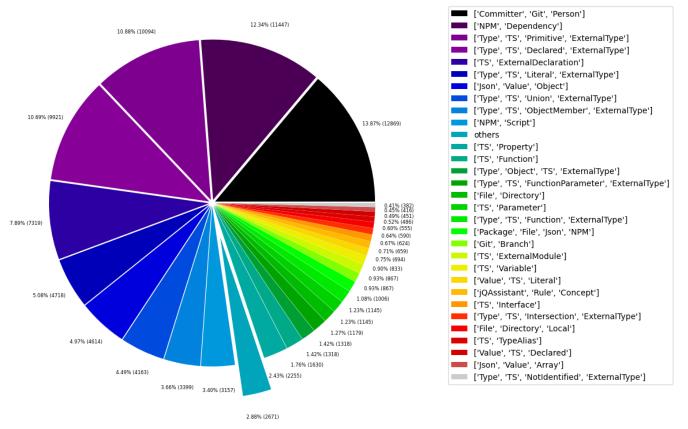


Table 1c - Highest node count by single label

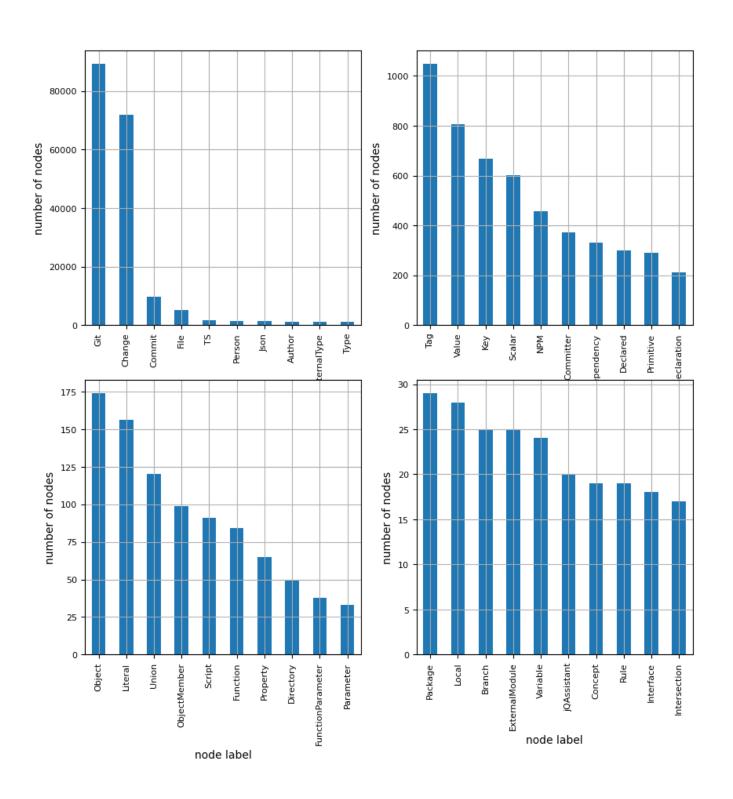
Lists the 40 labels with the highest number of nodes. Doesn't sum up to the total number of nodes or 100% because one node can have multiple labels. Helps to identify commonly used labels.

0 Git 89241 96.17419 1 Change 71722 77.294134 2 Commit 9845 10.609865 3 File 5141 5.540408 4 TS 1602 1.726461 5 Person 1552 1.672576 6 Json 1445 1.557263 7 Author 1181 1.272753 8 ExternalType 1077 1.160673 9 Type 1077 1.160673 10 Tag 1048 1.129420 11 Value 806 0.868619 12 Key 668 0.719897 13 Scalar 603 0.649848 14 NPM 456 0.491427 15 Committer 371 0.399823 16 Dependency 330 0.355638 17 Declared 299 0.32230 18 Primitive		nodeLabel	nodes With That Label	nodesWithThatLabelPercent	
2 Commit 9845 10.609865 3 File 5141 5.540408 4 TS 1602 1.726461 5 Person 1552 1.672576 6 Json 1.445 1.557263 7 Author 1181 1.272753 8 ExternalType 1077 1.160673 9 Type 1077 1.160673 10 Tag 1048 1.129420 11 Value 806 0.868619 12 Key 668 0.719897 13 Scalar 603 0.649848 14 NPM 456 0.491427 15 Committer 371 0.39923 16 Dependency 330 0.35538 17 Declared 299 0.32230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object	0	Git	89241	96.174198	
3 File 5.141 5.54040 4 TS 1602 1.726461 5 Person 1552 1.672576 6 Json 1445 1.557263 7 Author 1181 1.272753 8 ExternalType 1077 1.160673 9 Type 1077 1.160673 10 Tag 1048 1.129420 11 Value 806 0.868619 12 Key 668 0.719897 13 Scalar 603 0.649848 14 NPM 456 0.491427 15 Committer 371 0.399823 16 Dependency 330 0.355638 17 Declared 299 0.322230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal <th>1</th> <th>Change</th> <th>71722</th> <th>77.294134</th>	1	Change	71722	77.294134	
4 TS 1602 1.726461 5 Person 1552 1.672576 6 Json 1445 1.557263 7 Author 1181 1.272753 8 ExternalType 1077 1.160673 9 Type 1077 1.160673 10 Tag 1048 1.129420 11 Value 806 0.868619 12 Key 668 0.719897 13 Scalar 603 0.649848 14 NPM 456 0.491427 15 Committer 371 0.399823 16 Dependency 330 0.355638 17 Declared 299 0.322230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal 156 0.168120 22 Union <th>2</th> <th>Commit</th> <th>9845</th> <th>10.609865</th>	2	Commit	9845	10.609865	
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6 Json 1445 1.557263 7 Author 1181 1.272753 8 ExternalType 1077 1.160673 9 Type 1077 1.160673 10 Tag 1048 1.129420 11 Value 806 0.868619 12 Key 668 0.719897 13 Scalar 603 0.649848 14 NPM 456 0.491427 15 Committer 371 0.399823 16 Dependency 330 0.355638 17 Declared 299 0.32230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 S	4	TS	1602	1.726461	
7 Author 1181 1.272753 8 ExternalType 1077 1.160673 9 Type 1077 1.160673 10 Tag 1048 1.129420 11 Value 806 0.868619 12 Key 668 0.719897 13 Scalar 603 0.649848 14 NPM 456 0.491427 15 Committer 371 0.399823 16 Dependency 330 0.355638 17 Declared 299 0.322230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 <th< th=""><th>5</th><th>Person</th><th>1552</th><th>1.672576</th></th<>	5	Person	1552	1.672576	
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10 Tag 1048 1.129420 11 Value 806 0.868619 12 Key 668 0.719897 13 Scalar 603 0.649848 14 NPM 456 0.491427 15 Committer 371 0.399823 16 Dependency 330 0.355638 17 Declared 299 0.322230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.099526 26 Property 65 0.070050 27 Directory 50 0.05385 28	8	ExternalType	1077	1.160673	
11 Value 806 0.868619 12 Key 668 0.719897 13 Scalar 603 0.649848 14 NPM 456 0.491427 15 Committer 371 0.399823 16 Dependency 330 0.355638 17 Declared 299 0.32230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.099526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29	9	Туре	1077	1.160673	
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16 Dependency 330 0.355638 17 Declared 299 0.322230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 <	14	NPM	456	0.491427	
17 Declared 299 0.322230 18 Primitive 291 0.313608 19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865	15	Committer	371	0.399823	
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19 ExternalDeclaration 211 0.227393 20 Object 174 0.187518 21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	17	Declared	299	0.322230	
20 Object 174 0.187518 21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 <	18	Primitive	291	0.313608	
21 Literal 156 0.168120 22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	19	ExternalDeclaration	211	0.227393	
22 Union 120 0.129323 23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	20	Object	174	0.187518	
23 ObjectMember 99 0.106691 24 Script 91 0.098070 25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	21	Literal	156	0.168120	
24 Script 91 0.098070 25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	22	Union	120	0.129323	
25 Function 84 0.090526 26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	23	ObjectMember	99	0.106691	
26 Property 65 0.070050 27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	24	Script	91	0.098070	
27 Directory 50 0.053885 28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	25	Function	84	0.090526	
28 FunctionParameter 38 0.040952 29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	26	Property	65	0.070050	
29 Parameter 33 0.035564 30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	27	Directory	50	0.053885	
30 Package 29 0.031253 31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	28	FunctionParameter	38	0.040952	
31 Local 28 0.030175 32 Branch 25 0.026942 33 ExternalModule 25 0.025865 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	29	Parameter	33	0.035564	
32 Branch 25 0.026942 33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	30	Package	29	0.031253	
33 ExternalModule 25 0.026942 34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	31	Local	28	0.030175	
34 Variable 24 0.025865 35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	32	Branch	25	0.026942	
35 jQAssistant 20 0.021554 36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	33	ExternalModule	25	0.026942	
36 Concept 19 0.020476 37 Rule 19 0.020476 38 Interface 18 0.019398	34	Variable			
37 Rule 19 0.020476 38 Interface 18 0.019398		jQAssistant			
38 Interface 18 0.019398		Concept	19	0.020476	
39 Intersection 17 0.018321					
	39	Intersection	17	0.018321	

Chart 1c - Highest node count by label

Shows the 40 labels with the highest number of nodes.

Node count by label



Relationship Types

Table 2a - Highest relationship count by type

Lists the 30 relationship types with the highest number of occurrences. The whole table can be found in the CSV report Relationship_type_count .

Total number of relationships: 258735

	relationshipType	nodes With That Relationship Type	nodes With That Relationship Type Percent
0	CONTAINS_CHANGE	71722	27.720254
1	MODIFIES	71722	27.720254
2	UPDATES	47874	18.503102
3	COMMITTED	19690	7.610103
4	CREATES	16664	6.440567
5	HAS_PARENT	10840	4.189615
6	DELETES	9889	3.822057
7	RENAMES	2705	1.045471
8	HAS_NEW_NAME	1543	0.596363
9	ON_COMMIT	1048	0.405048
10	DEPENDS_ON	953	0.368331
11	HAS_KEY	668	0.258179
12	HAS_VALUE	668	0.258179
13	CONTAINS	604	0.233443
14	OF_TYPE	330	0.127544
15	EXPORTS	271	0.104740
16	REFERENCES	198	0.076526
17	DECLARES	185	0.071502
18	DECLARES_DEV_DEPENDENCY	169	0.065318
19	DECLARES_DEPENDENCY	161	0.062226
20	HAS_MEMBER	99	0.038263
21	HAS_TYPE_ARGUMENT	99	0.038263
22	DECLARES_SCRIPT	91	0.035171
23	RETURNS	81	0.031306
24	RESOLVES_TO	80	0.030920
25	HAS_PARAMETER	71	0.027441
26	CONTAINS_VALUE	51	0.019711
27	INITIALIZED_WITH	32	0.012368
28	COPIES	29	0.011208
29	REQUIRES_CONCEPT	28	0.010822

Chart 2a - Highest relationship count by type

Values under 0.5% will be grouped into "others" to get a cleaner plot. The group "others" is then broken down in the second chart.

Relationship types (more than 0.5% overall)

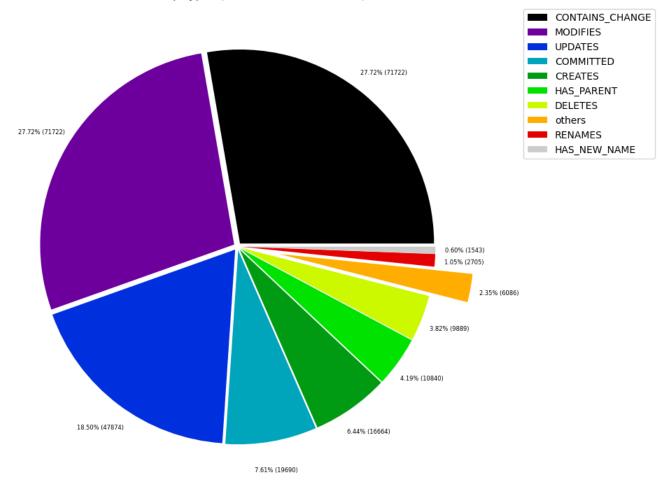


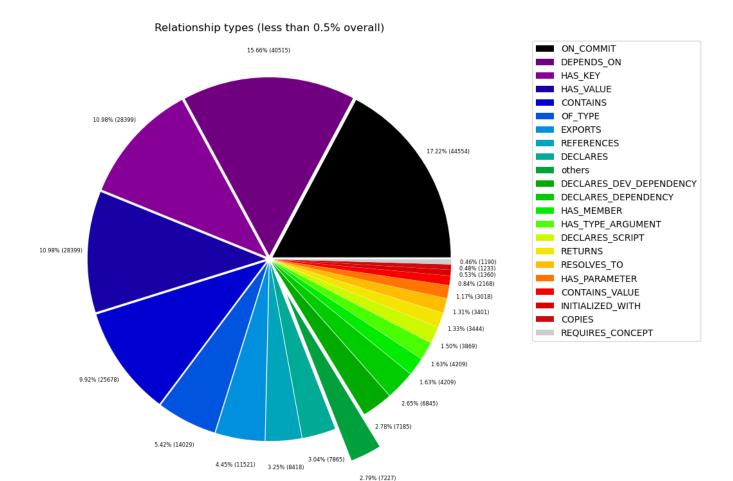
Table 2b - Lowest relationship count by type

Lists the 30 relationships type with the lowest number of occurrences up to 0.5% of the total node count. This is essentially breaking down the "others" slice from the chart above.

	relationshipType	nodesWithThatRelationshipType	nodesWithThatRelationshipTypePercent
0	CONSTRAINED_BY	4	0.001546
1	REFERENCED_PROJECTS	5	0.001932
2	MEMBER	6	0.002319
3	HAS_ROOT	6	0.002319
4	HAS_NPM_PACKAGE	6	0.002319
5	HAS_CONFIG	6	0.002319
6	HAS_ARGUMENT	6	0.002319
7	DECLARES_ENGINE	6	0.002319
8	CONTAINS_PROJECT	6	0.002319
9	CALLS	6	0.002319
10	PARENT	6	0.002319
11	EXTENDS	7	0.002705
12	SIMILAR	10	0.003865
13	INCLUDES_CONCEPT	19	0.007343
14	COPY_OF	21	0.008116
15	USES	25	0.009662
16	HAS_HEAD	25	0.009662
17	REQUIRES_CONCEPT	28	0.010822
18	COPIES	29	0.011208
19	INITIALIZED_WITH	32	0.012368
20	CONTAINS_VALUE	51	0.019711
21	HAS_PARAMETER	71	0.027441
22	RESOLVES_TO	80	0.030920
23	RETURNS	81	0.031306
24	DECLARES_SCRIPT	91	0.035171
25	HAS_TYPE_ARGUMENT	99	0.038263
26	HAS_MEMBER	99	0.038263
27	DECLARES_DEPENDENCY	161	0.062226
28	DECLARES_DEV_DEPENDENCY	169	0.065318
29	DECLARES	185	0.071502

Chart 2b - Lowest relationship count by type

Shows the lowest (less than 0.5% overall) relationship types. This plot breaks down the "others" slice of the pie chart above. Values under 0.01% will be grouped into "others" to get a cleaner plot.



Node labels with their relationships

Table 3a - Highest relationship count by node labels and relationship type

Lists the 30 node labels and their relationship types with the highest number of occurrences.

	sourceLabels	relationType	targetLabels	number Of Relation ships	number Of Nodes With Same Labels As Source	numberOfNodes
0	[Git, Commit]	CONTAINS_CHANGE	[Git, Change]	71722	9845	
1	[Git, Change]	MODIFIES	[File, Git]	71722	71722	
2	[Git, Change]	UPDATES	[File, Git]	47874	71722	
3	[Git, Change]	CREATES	[File, Git]	16664	71722	
4	[Git, Commit]	HAS_PARENT	[Git, Commit]	10840	9845	
5	[Git, Change]	DELETES	[File, Git]	9889	71722	
6	[Author, Git, Person]	COMMITTED	[Git, Commit]	9845	1181	
7	[Committer, Git, Person]	COMMITTED	[Git, Commit]	9845	371	
8	[Git, Change]	RENAMES	[File, Git]	2705	71722	
9	[File, Git]	HAS_NEW_NAME	[File, Git]	1543	5049	
10	[Git, Tag]	ON_COMMIT	[Git, Commit]	1048	1048	
11	[Json, Value, Object]	HAS_KEY	[Json, Key]	668	133	
12	[Json, Key]	HAS_VALUE	[Json, Value, Scalar]	552	668	
13	[TS, Function]	DEPENDS_ON	[TS, ExternalDeclaration]	280	47	
14	[TS, ExternalModule]	EXPORTS	[TS, ExternalDeclaration]	211	25	
15	[File, TS, Local, Module, Mark4ModuleWeaklyCon	DEPENDS_ON	[TS, ExternalDeclaration]	188	3	
16	[Package, File, Json, NPM]	DECLARES_DEV_DEPENDENCY	[NPM, Dependency]	169	29	
17	[Package, File, Json, NPM]	DECLARES_DEPENDENCY	[NPM, Dependency]	161	29	
18	[Type, TS, Union, ExternalType]	CONTAINS	[Type, TS, Primitive, ExternalType]	149	120	
19	[Type, TS, Declared, ExternalType]	REFERENCES	[TS, ExternalDeclaration]	139	286	
20	[TS, Function]	DEPENDS_ON	[TS, ExternalModule]	129	47	
21	[Type, TS, Union, ExternalType]	CONTAINS	[Type, TS, Literal, ExternalType]	119	120	
22	[Json, Key]	HAS_VALUE	[Json, Value, Object]	104	668	
23	[Type, Object, TS, ExternalType]	HAS_MEMBER	[Type, TS, ObjectMember, ExternalType]	98	38	
24	[Package, File, Json, NPM]	DECLARES_SCRIPT	[NPM, Script]	91	29	
25	[Type, TS, Union, ExternalType]	CONTAINS	[Type, TS, Declared, ExternalType]	78	120	
26	[File, Directory]	CONTAINS	[File, Directory]	63	34	
27	[TS, Interface]	DECLARES	[TS, Property]	61	18	
28	[File, Directory]	CONTAINS	[Package, File, Json, NPM]	58	34	
29	[File, Git]	RESOLVES_TO	[Package, File, Json, NPM]	57	5049	

Graph Density

total_number_of_nodes (vertices): 92791
total_number_of_relationships (edges): 258735

-> total directed graph density: 3.005025428988939e-05

-> total directed graph density in percent: 0.003005025428988939