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.

	nodeLabels	nodes With That Labels	nodes With That Labels Percent
0	[Git, Change]	80710	78.282461
1	[Git, Commit]	10504	10.188068
2	[File, Git]	5447	5.283169
3	[Git, Tag]	1284	1.245381
4	[Author, Git, Person]	1203	1.166817
5	[Json, Key]	668	0.647908
6	[Json, Value, Scalar]	603	0.584863
7	[Committer, Git, Person]	371	0.359841
8	[NPM, Dependency]	330	0.320074
9	[Type, TS, Primitive]	291	0.282248
10	[Type, TS, Declared]	276	0.267699
11	[TS, ExternalDeclaration]	215	0.208533
12	[Type, TS, Literal]	136	0.131909
13	[Json, Value, Object]	133	0.129000
14	[Type, TS, Union]	119	0.115421
15	[Type, TS, ObjectMember]	101	0.097962
16	[NPM, Script]	91	0.088263
17	[TS, Property]	65	0.063045
18	[TS, Function]	47	0.045586
19	[Type, TS, FunctionParameter]	40	0.038797
20	[Type, Object, TS]	39	0.037827
21	[File, Directory]	34	0.032977
22	[Type, TS, Function]	34	0.032977
23	[TS, Parameter]	33	0.032007
24	[Git, Branch]	30	0.029098
25	[Package, File, Json, NPM]	29	0.028128
26	[TS, ExternalModule]	25	0.024248
27	[TS, Variable]	24	0.023278
28	[Value, TS, Literal]	20	0.019398
29	[jQAssistant, Rule, Concept]	19	0.018429

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.

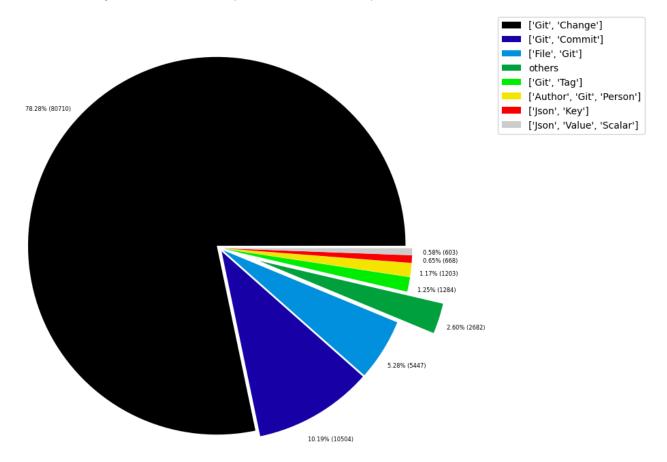


Table 1b - Lowest node count by label combination

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	nodesWithThatLabels	nodes With That Labels Percent
0	[Analyze, Task, jQAssistant]	1	0.000970
1	[File, TS, Scan]	1	0.000970
2	[TS, Method]	1	0.000970
3	[Repository, File, Git]	1	0.000970
4	[TS, Constructor]	1	0.000970
5	[Value, TS, ObjectMember]	1	0.000970
6	[TS, Class]	1	0.000970
7	[TS, Enum]	2	0.001940
8	[Value, Object, TS]	3	0.002910
9	[Type, TS, Tuple]	3	0.002910
10	[Value, TS, Function]	4	0.003880
11	[TS, TypeParameter]	4	0.003880
12	[Value, TS, Complex]	5	0.004850
13	[NPM, Engine]	6	0.005820
14	[Project, TS]	6	0.005820
15	[File, Local]	6	0.005820
16	[Value, TS, Call]	6	0.005820
17	[Value, TS, Member]	6	0.005820
18	[File, TS, Local, Module]	6	0.005820
19	[Type, TS, TypeParameterReference]	6	0.005820
20	[TS, EnumMember]	8	0.007759
21	[Type, TS, NotIdentified]	11	0.010669
22	[Json, Value, Array]	12	0.011639
23	[Value, TS, Declared]	13	0.012609
24	[TS, TypeAlias]	16	0.015519
25	[File, Directory, Local]	16	0.015519
26	[TS, Interface]	17	0.016489
27	[Type, TS, Intersection]	17	0.016489
28	[jQAssistant, Rule, Concept]	19	0.018429
29	[Value, TS, Literal]	20	0.019398

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.

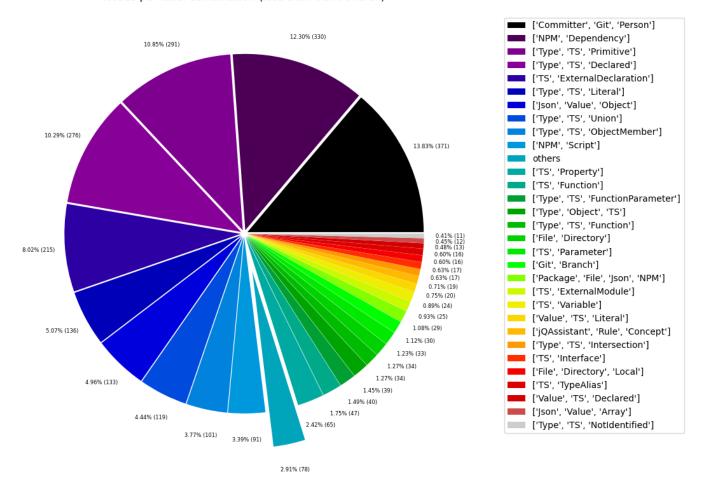


Table 1c - Highest node count by single label

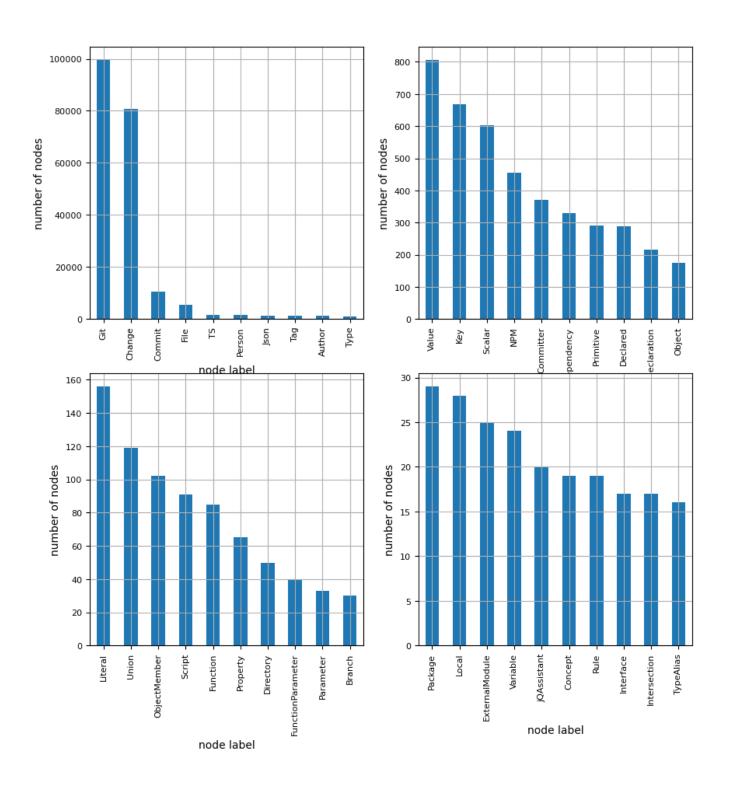
Lists the 40 labels with the highest number of nodes. Doesn't sum up to the total number of nodes or 100% because one node can have multiple labels. Helps to identify commonly used labels.

0 Git 99550 96.555805 1 Change 80710 78.282461 2 Commit 10504 10.188068 3 File 5540 5.373372 4 TS 1603 1.554786 5 Person 1574 1.526658 6 Json 1445 1.401538 7 Tag 1284 1.245381 8 Author 1203 1.166817 9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.58463 13 NPM 456 0.42285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.28033 19 Object 175 <th></th> <th>nodeLabel</th> <th>nodes With That Label</th> <th>nodes With That Label Percent</th>		nodeLabel	nodes With That Label	nodes With That Label Percent
2 Commit 10504 10.188068 3 File 5540 5.373372 4 TS 1603 1.554786 5 Person 1574 1.526658 6 Json 1445 1.401538 7 Tag 1284 1.245381 8 Author 1203 1.166817 9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.584863 13 NPM 456 0.42285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.28030 18 ExternalDeclaration 215 0.20853 19 Object 175 0.16973 20 Literal	0	Git	99550	96.555805
3 File 5540 5.373372 4 TS 1603 1.554786 5 Person 1574 1.526658 6 Json 1445 1.401538 7 Tag 1284 1.245381 8 Author 1203 1.166817 9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.58463 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.169736 20 Literal 156 0.151308 21 Union 119 0.115421 22 ObjectMember	1	Change	80710	78.282461
4 TS 1603 1.554786 5 Person 1574 1.526658 6 Json 1445 1.401538 7 Tag 1284 1.245381 8 Author 1203 1.166817 9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.584663 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.08263 22 ObjectMember	2	Commit	10504	10.188068
5 Person 1574 1.526658 6 Json 1445 1.401538 7 Tag 1284 1.245381 8 Author 1203 1.166817 9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.584863 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 21 Union 119 0.115421 22 ObjectMember 102 0.098932 23 Script 91 0.082443 25 Property	3	File	5540	5.373372
6 Json 1445 1.401538 7 Tag 1284 1.245381 8 Author 1203 1.166817 9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.58463 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.115421 22 ObjectMember 102 0.098932 23 Script 91 0.082443 25 Property	4	TS	1603	1.554786
7 Tag 1284 1.245381 8 Author 1203 1.166817 9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.584863 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.280533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.0115421 22 ObjectMember 102 0.098932 23 Script 91 0.08263 24 Function 85 0.082443 25 Prop	5	Person	1574	1.526658
8 Author 1203 1.166817 9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.584863 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.115421 22 ObjectMember 102 0.098932 23 Script 91 0.08263 24 Function 85 0.082443 25 Property 65 0.063045 26 D	6	Json	1445	1.401538
9 Type 1073 1.040727 10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.584863 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.115421 22 ObjectMember 102 0.098932 23 Script 91 0.08263 24 Function 85 0.082443 25 Property 65 0.063045 26 Directory 50 0.048496 27 <th< th=""><th>7</th><th>Tag</th><th>1284</th><th>1.245381</th></th<>	7	Tag	1284	1.245381
10 Value 806 0.781758 11 Key 668 0.647908 12 Scalar 603 0.584863 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.115421 22 ObjectMember 102 0.098932 23 Script 91 0.088263 24 Function 85 0.082443 25 Property 65 0.063045 26 Directory 50 0.048496 27 FunctionParameter 40 0.038797 28 <th>8</th> <th>Author</th> <th>1203</th> <th>1.166817</th>	8	Author	1203	1.166817
11 Key 668 0.647908 12 Scalar 603 0.584863 13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.115421 22 ObjectMember 102 0.098932 23 Script 91 0.088263 24 Function 85 0.082443 25 Property 65 0.063045 26 Directory 50 0.048496 27 FunctionParameter 40 0.038797 28 Parameter 33 0.022098 30<	9	Туре	1073	1.040727
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13 NPM 456 0.442285 14 Committer 371 0.359841 15 Dependency 330 0.320074 16 Primitive 291 0.282248 17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.115421 22 ObjectMember 102 0.098932 23 Script 91 0.08263 24 Function 85 0.082443 25 Property 65 0.063045 26 Directory 50 0.048496 27 FunctionParameter 40 0.038797 28 Parameter 33 0.032007 29 Branch 30 0.029098 30 Package 29 0.028128 31	11	Key	668	0.647908
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17 Declared 289 0.280308 18 ExternalDeclaration 215 0.208533 19 Object 175 0.169736 20 Literal 156 0.151308 21 Union 119 0.115421 22 ObjectMember 102 0.098932 23 Script 91 0.08263 24 Function 85 0.082443 25 Property 65 0.063045 26 Directory 50 0.048496 27 FunctionParameter 40 0.038797 28 Parameter 33 0.032007 29 Branch 30 0.029098 30 Package 29 0.028128 31 Local 28 0.027158 32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.018429 <td< th=""><th>15</th><th>Dependency</th><th>330</th><th>0.320074</th></td<>	15	Dependency	330	0.320074
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24 Function 85 0.082443 25 Property 65 0.063045 26 Directory 50 0.048496 27 FunctionParameter 40 0.038797 28 Parameter 33 0.032007 29 Branch 30 0.029098 30 Package 29 0.028128 31 Local 28 0.027158 32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.016489 37 Interface 17 0.016489 38 Intersection 17 0.016489	22	ObjectMember	102	0.098932
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26 Directory 50 0.048496 27 FunctionParameter 40 0.038797 28 Parameter 33 0.032007 29 Branch 30 0.029098 30 Package 29 0.028128 31 Local 28 0.027158 32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.016489 37 Interface 17 0.016489 38 Intersection 17 0.016489	24	Function	85	0.082443
27 FunctionParameter 40 0.038797 28 Parameter 33 0.032007 29 Branch 30 0.029098 30 Package 29 0.028128 31 Local 28 0.027158 32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.018429 37 Interface 17 0.016489 38 Intersection 17 0.016489	25	Property	65	0.063045
28 Parameter 33 0.032007 29 Branch 30 0.029098 30 Package 29 0.028128 31 Local 28 0.027158 32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.018429 37 Interface 17 0.016489 38 Intersection 17 0.016489	26	Directory	50	0.048496
29 Branch 30 0.029098 30 Package 29 0.028128 31 Local 28 0.027158 32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.016489 37 Interface 17 0.016489 38 Intersection 17 0.016489	27	FunctionParameter	40	0.038797
30 Package 29 0.028128 31 Local 28 0.027158 32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.018429 37 Interface 17 0.016489 38 Intersection 17 0.016489	28	Parameter	33	0.032007
31 Local 28 0.027158 32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.016489 37 Interface 17 0.016489 38 Intersection 17 0.016489	29	Branch	30	0.029098
32 ExternalModule 25 0.024248 33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.018429 37 Interface 17 0.016489 38 Intersection 17 0.016489	30	Package	29	0.028128
33 Variable 24 0.023278 34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.018429 37 Interface 17 0.016489 38 Intersection 17 0.016489	31	Local	28	
34 jQAssistant 20 0.019398 35 Concept 19 0.018429 36 Rule 19 0.018429 37 Interface 17 0.016489 38 Intersection 17 0.016489	32	ExternalModule	25	0.024248
35 Concept 19 0.018429 36 Rule 19 0.018429 37 Interface 17 0.016489 38 Intersection 17 0.016489	33	Variable	24	0.023278
36 Rule 19 0.018429 37 Interface 17 0.016489 38 Intersection 17 0.016489		jQAssistant	20	0.019398
37 Interface 17 0.016489 38 Intersection 17 0.016489				
38 Intersection 17 0.016489		Rule	19	0.018429
		Interface	17	0.016489
39 TypeAlias 16 0.015519				
	39	TypeAlias	16	0.015519

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: 307932

	relationshipType	nodesWithThatRelationshipType	nodes With That Relationship Type Percent
0	CONTAINS_CHANGE	80710	26.210332
1	MODIFIES	80710	26.210332
2	UPDATES	52786	17.142096
3	COMMITTED	21008	6.822285
4	CREATES	19561	6.352376
5	HAS_PARENT	11544	3.748880
6	DELETES	11534	3.745632
7	HAS_COMMIT	10504	3.411143
8	HAS_FILE	5447	1.768897
9	RENAMES	3171	1.029773
10	HAS_NEW_NAME	1718	0.557915
11	HAS_TAG	1284	0.416975
12	ON_COMMIT	1284	0.416975
13	HAS_AUTHOR	1203	0.390671
14	DEPENDS_ON	959	0.311432
15	HAS_KEY	668	0.216931
16	HAS_VALUE	668	0.216931
17	CONTAINS	594	0.192900
18	HAS_COMMITTER	371	0.120481
19	OF_TYPE	337	0.109440
20	EXPORTS	276	0.089630
21	REFERENCES	197	0.063975
22	DECLARES	186	0.060403
23	DECLARES_DEV_DEPENDENCY	169	0.054882
24	DECLARES_DEPENDENCY	161	0.052284
25	HAS_MEMBER	102	0.033124
26	HAS_TYPE_ARGUMENT	94	0.030526
27	DECLARES_SCRIPT	91	0.029552
28	RETURNS	82	0.026629
29	HAS_PARAMETER	73	0.023707

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.

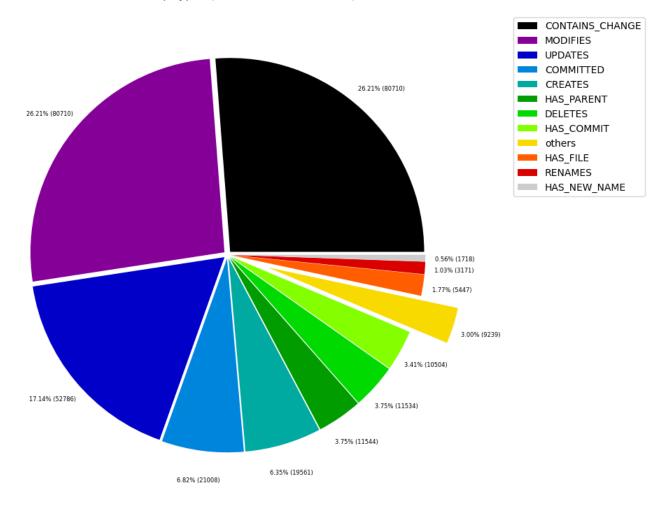


Table 2b - Lowest relationship count by type

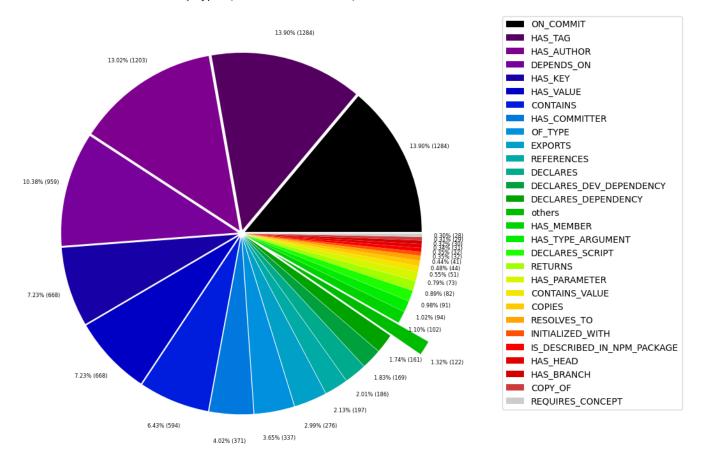
Lists the 30 relationships type with the lowest number of occurrences up to 0.5% of the total node count. This is essentially breaking down the "others" slice from the chart above.

	relationshipType	nodesWithThatRelationshipType nodesWithThatRelationshipTypePe	
0	PROVIDED_BY_NPM_DEPENDENCY	1	0.000325
1	IS_IMPLEMENTED_IN	2	0.000649
2	CONSTRAINED_BY	4	0.001299
3	REFERENCED_PROJECTS	5	0.001624
4	CONTAINS_PROJECT	6	0.001948
5	DECLARES_ENGINE	6	0.001948
6	EXTENDS	6	0.001948
7	HAS_ARGUMENT	6	0.001948
8	CALLS	6	0.001948
9	HAS_NPM_PACKAGE	6	0.001948
10	HAS_ROOT	6	0.001948
11	MEMBER	6	0.001948
12	PARENT	6	0.001948
13	HAS_CONFIG	6	0.001948
14	SIMILAR	6	0.001948
15	INCLUDES_CONCEPT	19	0.006170
16	USES	25	0.008119
17	REQUIRES_CONCEPT	28	0.009093
18	COPY_OF	29	0.009418
19	HAS_BRANCH	30	0.009742
20	HAS_HEAD	31	0.010067
21	IS_DESCRIBED_IN_NPM_PACKAGE	32	0.010392
22	INITIALIZED_WITH	32	0.010392
23	RESOLVES_TO	41	0.013315
24	COPIES	44	0.014289
25	CONTAINS_VALUE	51	0.016562
26	HAS_PARAMETER	73	0.023707
27	RETURNS	82	0.026629
28	DECLARES_SCRIPT	91	0.029552
29	HAS_TYPE_ARGUMENT	94	0.030526

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.

Relationship types (less than 0.5% overall)



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 Relationships	number Of Nodes With Same Labels As Source	numberOfNodes ¹
0	[Git, Change]	MODIFIES	[File, Git]	80710	80710	
1	[Git, Commit]	CONTAINS_CHANGE	[Git, Change]	80710	10504	
2	[Git, Change]	UPDATES	[File, Git]	52786	80710	
3	[Git, Change]	CREATES	[File, Git]	19561	80710	
4	[Git, Commit]	HAS_PARENT	[Git, Commit]	11544	10504	
5	[Git, Change]	DELETES	[File, Git]	11534	80710	
6	[Repository, File, Git]	HAS_COMMIT	[Git, Commit]	10504	1	
7	[Author, Git, Person]	COMMITTED	[Git, Commit]	10504	1203	
8	[Committer, Git, Person]	COMMITTED	[Git, Commit]	10504	371	
9	[Repository, File, Git]	HAS_FILE	[File, Git]	5447	1	
10	[Git, Change]	RENAMES	[File, Git]	3171	80710	
11	[File, Git]	HAS_NEW_NAME	[File, Git]	1718	5447	
12	[Repository, File, Git]	HAS_TAG	[Git, Tag]	1284	1	
13	[Git, Tag]	ON_COMMIT	[Git, Commit]	1284	1284	
14	[Repository, File, Git]	HAS_AUTHOR	[Author, Git, Person]	1203	1	
15	[Json, Value, Object]	HAS_KEY	[Json, Key]	668	133	
16	[Json, Key]	HAS_VALUE	[Json, Value, Scalar]	552	668	
17	[Repository, File, Git]	HAS_COMMITTER	[Committer, Git, Person]	371	1	
18	[TS, Function]	DEPENDS_ON	[TS, ExternalDeclaration]	285	47	
19	[TS, ExternalModule]	EXPORTS	[TS, ExternalDeclaration]	215	25	
20	[File, TS, Local, Module, Mark4ModuleWeaklyCon	DEPENDS_ON	[TS, ExternalDeclaration]	192	2	
21	[Package, File, Json, NPM]	DECLARES_DEV_DEPENDENCY	[NPM, Dependency]	169	29	
22	[Package, File, Json, NPM]	DECLARES_DEPENDENCY	[NPM, Dependency]	161	29	
23	[Type, TS, Union]	CONTAINS	[Type, TS, Primitive]	147	119	
24	[Type, TS, Declared]	REFERENCES	[TS, ExternalDeclaration]	142	276	
25	[TS, Function]	DEPENDS_ON	[TS, ExternalModule]	131	47	
26	[Type, TS, Union]	CONTAINS	[Type, TS, Literal]	119	119	
27	[Json, Key]	HAS_VALUE	[Json, Value, Object]	104	668	
28	[Type, Object, TS]	HAS_MEMBER	[Type, TS, ObjectMember]	101	39	
29	[Package, File, Json, NPM]	DECLARES_SCRIPT	[NPM, Script]	91	29	

Graph Density

total_number_of_nodes (vertices): 103101
total_number_of_relationships (edges): 307932

-> total directed graph density: 2.8968985061318354e-05

-> total directed graph density in percent: 0.0028968985061318354