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]	75352	77.863084
1	[Git, Commit]	10065	10.400413
2	[File, Git]	5152	5.323689
3	[Author, Git, Person]	1184	1.223456
4	[Git, Tag]	1093	1.129424
5	[Json, Key]	668	0.690261
6	[Json, Value, Scalar]	603	0.623095
7	[Committer, Git, Person]	371	0.383363
8	[NPM, Dependency]	330	0.340997
9	[Type, TS, Primitive, ExternalType]	285	0.294498
10	[Type, TS, Declared, ExternalType]	272	0.281064
11	[TS, ExternalDeclaration]	215	0.222165
12	[Type, TS, Literal, ExternalType]	136	0.140532
13	[Json, Value, Object]	133	0.137432
14	[Type, TS, Union, ExternalType]	117	0.120899
15	[Type, TS, ObjectMember, ExternalType]	98	0.101266
16	[NPM, Script]	91	0.094033
17	[TS, Property]	65	0.067166
18	[TS, Function]	47	0.048566
19	[Type, Object, TS, ExternalType]	38	0.039266
20	[Type, TS, FunctionParameter, ExternalType]	37	0.038233
21	[File, Directory]	34	0.035133
22	[TS, Parameter]	33	0.034100
23	[Type, TS, Function, ExternalType]	32	0.033066
24	[Package, File, Json, NPM]	29	0.029966
25	[Git, Branch]	29	0.029966
26	[TS, ExternalModule]	25	0.025833
27	[TS, Variable]	24	0.024800
28	[Value, TS, Literal]	20	0.020666
29	[jQAssistant, Rule, Concept]	19	0.019633

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.

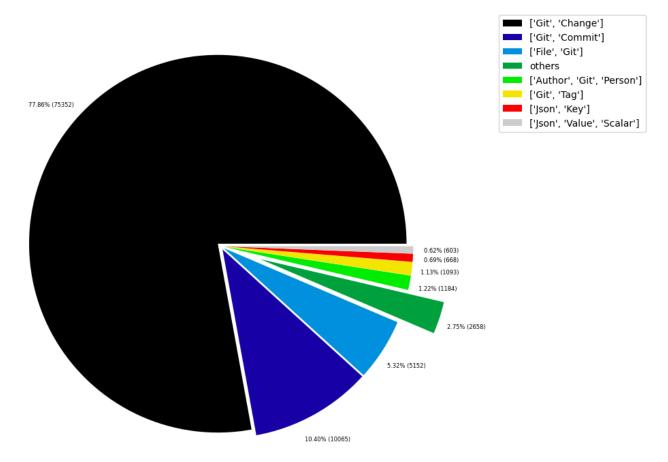


Table 1b - Lowest node count by label combination

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	nodesWithThatLabelsPercent
0	[Analyze, Task, jQAssistant]	1	0.001033
1	[File, TS, Scan]	1	0.001033
2	[TS, Method]	1	0.001033
3	[Value, TS, ObjectMember]	1	0.001033
4	[TS, Constructor]	1	0.001033
5	[TS, Class]	1	0.001033
6	[TS, Enum]	2	0.002067
7	[Value, Object, TS]	3	0.003100
8	[Type, TS, Tuple, ExternalType]	3	0.003100
9	[Value, TS, Function]	4	0.004133
10	[TS, TypeParameter]	4	0.004133
11	[Value, TS, Complex]	5	0.005167
12	[NPM, Engine]	6	0.006200
13	[Project, TS]	6	0.006200
14	[File, Local]	6	0.006200
15	[Value, TS, Call]	6	0.006200
16	[Value, TS, Member]	6	0.006200
17	[File, TS, Local, Module]	6	0.006200
18	$[{\sf Type}, {\sf TS}, {\sf TypeParameterReference}, {\sf ExternalType}]$	6	0.006200
19	[TS, EnumMember]	8	0.008267
20	[Type, TS, NotIdentified, ExternalType]	11	0.011367
21	[Json, Value, Array]	12	0.012400
22	[Value, TS, Declared]	13	0.013433
23	[TS, TypeAlias]	14	0.014467
24	[File, Directory, Local]	16	0.016533
25	[Type, TS, Intersection, ExternalType]	17	0.017567
26	[TS, Interface]	18	0.018600
27	[jQAssistant, Rule, Concept]	19	0.019633
28	[Value, TS, Literal]	20	0.020666
29	[TS, Variable]	24	0.024800

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.

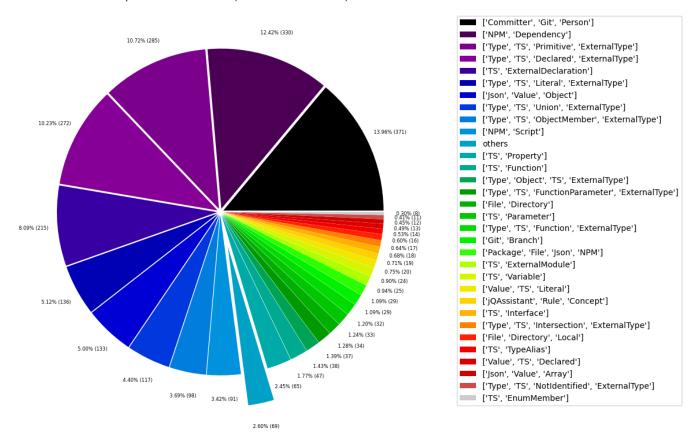


Table 1c - Highest node count by single label

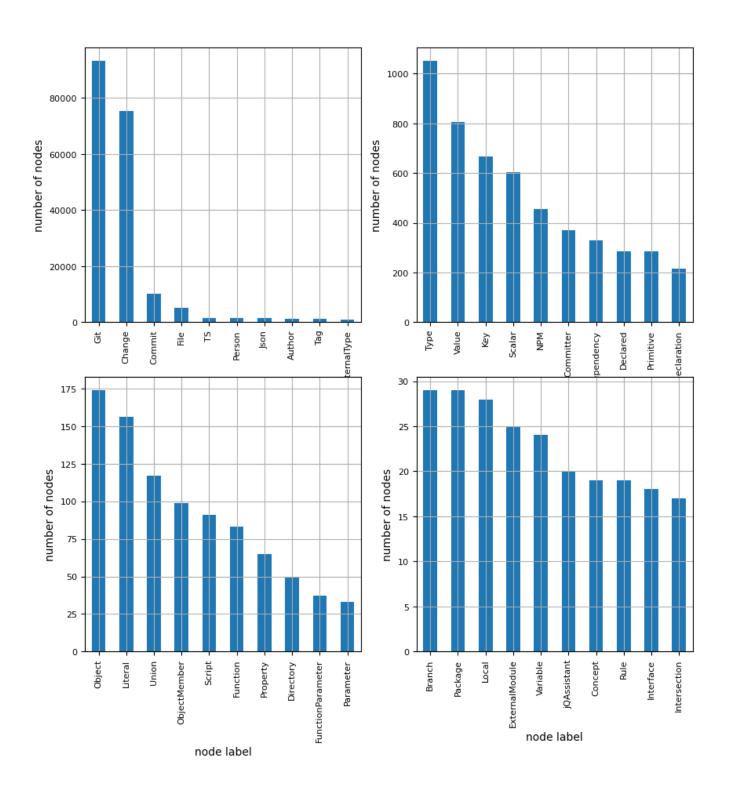
Lists the 40 labels with the highest number of nodes. Doesn't sum up to the total number of nodes or 100% because one node can have multiple labels. Helps to identify commonly used labels.

0 Git 93246 96.353397 1 Change 75352 77.863084 2 Commit 10065 10.400413 3 File 5244 5.418755 4 TS 1581 1.633686 5 Person 1555 1.606820 6 Json 1445 1.493154 7 Author 1184 1.223456 8 Tag 1093 1.129424 9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive <		nodeLabel	nodes With That Label	nodes With That Label Percent	
2 Commit 10065 10.400413 3 File 5244 5.418755 4 TS 1581 1.633686 5 Person 1555 1.606820 6 Json 1445 1.493154 7 Author 1184 1.223456 8 Tag 1093 1.129424 9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.22165 20 Object <th>0</th> <th>Git</th> <th>93246</th> <th>96.353397</th>	0	Git	93246	96.353397	
3 File 5244 1.633686 4 TS 1581 1.633686 5 Person 1555 1.606820 6 Json 1445 1.493154 7 Author 1184 1.223456 8 Tag 1093 1.129424 9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal <th>1</th> <th>Change</th> <th>75352</th> <th>77.863084</th>	1	Change	75352	77.863084	
4 TS 1581 1.638686 5 Person 1555 1.606820 6 Json 1445 1.493154 7 Author 1184 1.223456 8 Tag 1093 1.129424 9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union <th>2</th> <th>Commit</th> <th>10065</th> <th>10.400413</th>	2	Commit	10065	10.400413	
5 Person 1555 1.606820 6 Json 1445 1.493154 7 Author 1184 1.223456 8 Tag 1093 1.129424 9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.12299 24 Script	3	File	5244	5.418755	
6 Json 1445 1.493154 7 Author 1184 1.223456 8 Tag 1093 1.129424 9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.122099 24 Script 91 0.094033 25 Functi	4	TS	1581	1.633686	
7 Author 1184 1.223456 8 Tag 1093 1.129424 9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.02296 24 Script 91 0.094033 25	5	Person	1555	1.606820	
8 Tag 1093 1.129424 9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.122089 23 ObjectMember 99 0.102299 24 Script 91 0.09403 25 Function 83 0.087166 26 <td< th=""><th>6</th><th>Json</th><th>1445</th><th>1.493154</th></td<>	6	Json	1445	1.493154	
9 ExternalType 1052 1.087058 10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27	7	Author	1184	1.223456	
10 Type 1052 1.087058 11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 <t< th=""><th>8</th><th>Tag</th><th>1093</th><th>1.129424</th></t<>	8	Tag	1093	1.129424	
11 Value 806 0.832860 12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.09403 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.03823 30	9	ExternalType	1052	1.087058	
12 Key 668 0.690261 13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.03823 29 Parameter 33 0.02966 31 <th>10</th> <th>Туре</th> <th>1052</th> <th>1.087058</th>	10	Туре	1052	1.087058	
13 Scalar 603 0.623095 14 NPM 456 0.471196 15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.024906 31 Package 29 0.029966 3	11	Value	806	0.832860	
14 NPM 456 0.471196 15 Committer 371 0.38363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 34 Variable <	12	Key	668	0.690261	
15 Committer 371 0.383363 16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 External Declaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933	13	Scalar	603	0.623095	
16 Dependency 330 0.340997 17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.029933 33 ExternalModule 25 0.025833 <	14	NPM	456	0.471196	
17 Declared 285 0.294498 18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 34 Variable 24 0.024800 35 jQAssistant 20 0.02666 36 </th <th>15</th> <th>Committer</th> <th>371</th> <th>0.383363</th>	15	Committer	371	0.383363	
18 Primitive 285 0.294498 19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.02666 <td< th=""><th>16</th><th>Dependency</th><th>330</th><th>0.340997</th></td<>	16	Dependency	330	0.340997	
19 ExternalDeclaration 215 0.222165 20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.029933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 3	17	Declared	285	0.294498	
20 Object 174 0.179799 21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.029933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 <	18	Primitive	285	0.294498	
21 Literal 156 0.161199 22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.029933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	19	ExternalDeclaration	215	0.222165	
22 Union 117 0.120899 23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	20	Object	174	0.179799	
23 ObjectMember 99 0.102299 24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	21	Literal	156	0.161199	
24 Script 91 0.094033 25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	22	Union	117	0.120899	
25 Function 83 0.085766 26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.029933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	23	ObjectMember	99	0.102299	
26 Property 65 0.067166 27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	24	Script	91	0.094033	
27 Directory 50 0.051666 28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	25	Function	83	0.085766	
28 FunctionParameter 37 0.038233 29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	26	Property	65	0.067166	
29 Parameter 33 0.034100 30 Branch 29 0.029966 31 Package 29 0.029936 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	27	Directory	50	0.051666	
30 Branch 29 0.029966 31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	28	FunctionParameter	37	0.038233	
31 Package 29 0.029966 32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	29	Parameter	33	0.034100	
32 Local 28 0.028933 33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	30	Branch	29	0.029966	
33 ExternalModule 25 0.025833 34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600		Package	29	0.029966	
34 Variable 24 0.024800 35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	32	Local	28	0.028933	
35 jQAssistant 20 0.020666 36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	33	ExternalModule	25	0.025833	
36 Concept 19 0.019633 37 Rule 19 0.019633 38 Interface 18 0.018600	34	Variable		0.024800	
37 Rule 19 0.019633 38 Interface 18 0.018600		jQAssistant			
38 Interface 18 0.018600	36	Concept	19	0.019633	
	37	Rule	19	0.019633	
39 Intersection 17 0.017567	39	Intersection	17	0.017567	

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: 270534

	relationshipType	nodesWithThatRelationshipType	nodesWithThatRelationshipTypePercent
0	CONTAINS_CHANGE	75352	27.853061
1	MODIFIES	75352	27.853061
2	UPDATES	49608	18.337067
3	COMMITTED	20130	7.440839
4	CREATES	18010	6.657204
5	HAS_PARENT	11083	4.096712
6	DELETES	10510	3.884909
7	RENAMES	2776	1.026119
8	HAS_NEW_NAME	1571	0.580703
9	ON_COMMIT	1093	0.404016
10	DEPENDS_ON	962	0.355593
11	HAS_KEY	668	0.246919
12	HAS_VALUE	668	0.246919
13	CONTAINS	589	0.217718
14	OF_TYPE	329	0.121611
15	EXPORTS	275	0.101651
16	REFERENCES	196	0.072449
17	DECLARES	185	0.068383
18	DECLARES_DEV_DEPENDENCY	169	0.062469
19	DECLARES_DEPENDENCY	161	0.059512
20	HAS_MEMBER	99	0.036594
21	HAS_TYPE_ARGUMENT	92	0.034007
22	DECLARES_SCRIPT	91	0.033637
23	RESOLVES_TO	80	0.029571
24	RETURNS	80	0.029571
25	HAS_PARAMETER	70	0.025875
26	CONTAINS_VALUE	51	0.018852
27	COPIES	43	0.015894
28	INITIALIZED_WITH	32	0.011828
29	HAS_HEAD	29	0.010720

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.

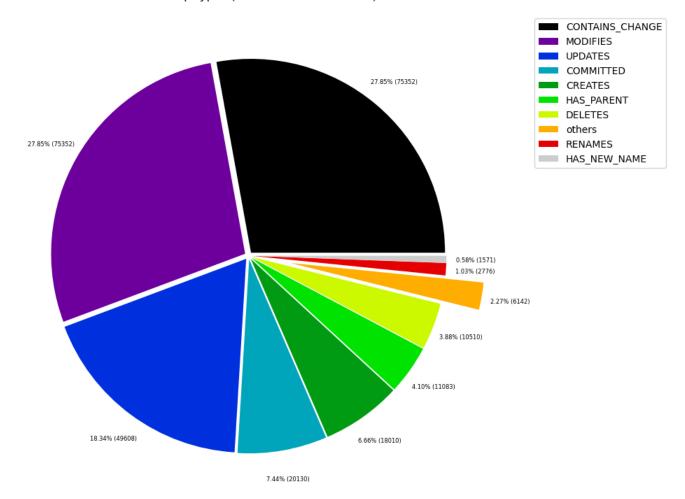


Table 2b - Lowest relationship count by type

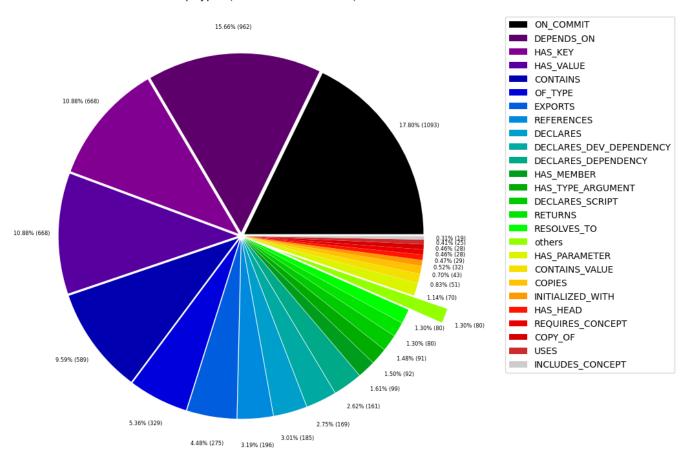
Lists the 30 relationships type with the lowest number of occurrences up to 0.5% of the total node count. This is essentially breaking down the "others" slice from the chart above.

	relationshipType	$nodes With That Relationship Type \\ nodes With That Relationship$	
0	CONSTRAINED_BY	4	0.001479
1	REFERENCED_PROJECTS	5	0.001848
2	MEMBER	6	0.002218
3	HAS_ROOT	6	0.002218
4	HAS_NPM_PACKAGE	6	0.002218
5	HAS_CONFIG	6	0.002218
6	HAS_ARGUMENT	6	0.002218
7	DECLARES_ENGINE	6	0.002218
8	CONTAINS_PROJECT	6	0.002218
9	CALLS	6	0.002218
10	PARENT	6	0.002218
11	EXTENDS	7	0.002587
12	SIMILAR	10	0.003696
13	INCLUDES_CONCEPT	19	0.007023
14	USES	25	0.009241
15	REQUIRES_CONCEPT	28	0.010350
16	COPY_OF	28	0.010350
17	HAS_HEAD	29	0.010720
18	INITIALIZED_WITH	32	0.011828
19	COPIES	43	0.015894
20	CONTAINS_VALUE	51	0.018852
21	HAS_PARAMETER	70	0.025875
22	RETURNS	80	0.029571
23	RESOLVES_TO	80	0.029571
24	DECLARES_SCRIPT	91	0.033637
25	HAS_TYPE_ARGUMENT	92	0.034007
26	HAS_MEMBER	99	0.036594
27	DECLARES_DEPENDENCY	161	0.059512
28	DECLARES_DEV_DEPENDENCY	169	0.062469
29	DECLARES	185	0.068383

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 Relation ships	number Of Nodes With Same Labels As Source	numberOfNodes
0	[Git, Commit]	CONTAINS_CHANGE	[Git, Change]	75352	10065	
1	[Git, Change]	MODIFIES	[File, Git]	75352	75352	
2	[Git, Change]	UPDATES	[File, Git]	49608	75352	
3	[Git, Change]	CREATES	[File, Git]	18010	75352	
4	[Git, Commit]	HAS_PARENT	[Git, Commit]	11083	10065	
5	[Git, Change]	DELETES	[File, Git]	10510	75352	
6	[Author, Git, Person]	COMMITTED	[Git, Commit]	10065	1184	
7	[Committer, Git, Person]	COMMITTED	[Git, Commit]	10065	371	
8	[Git, Change]	RENAMES	[File, Git]	2776	75352	
9	[File, Git]	HAS_NEW_NAME	[File, Git]	1571	5152	
10	[Git, Tag]	ON_COMMIT	[Git, Commit]	1093	1093	
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]	285	47	
14	[TS, ExternalModule]	EXPORTS	[TS, ExternalDeclaration]	215	25	
15	[File, TS, Local, Module, Mark4ModuleWeaklyCon	DEPENDS_ON	[TS, ExternalDeclaration]	192	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]	144	117	
19	[Type, TS, Declared, ExternalType]	REFERENCES	[TS, ExternalDeclaration]	141	272	
20	[TS, Function]	DEPENDS_ON	[TS, ExternalModule]	131	47	
21	[Type, TS, Union, ExternalType]	CONTAINS	[Type, TS, Literal, ExternalType]	119	117	
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]	69	117	
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	5152	

Graph Density

total_number_of_nodes (vertices): 96775
total_number_of_relationships (edges): 270534

-> total directed graph density: 2.8886836383851016e-05

-> total directed graph density in percent: 0.0028886836383851017