

Master's thesis Master's Programme in Computer Science

Public licenses in Software Engineering: A Multivocal Literature Review

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Tiivistelmä — Referat — Abstract

Context: Public licenses are central to the distribution of works in software engineering. For example in open source there must be an appropriate PCL attached to the source code in order for open-source software to be freely available for possible modification and redistribution. Understanding PCLs can be difficult. This could stem from the legal nature of the license texts and the large number of already-existing PCLs. As a result some actions made within the boundaries of the PCLs may come as a surprise to the public.

Objective: The primary goal of this research is to conduct a multivocal literature review of the current state of PCLs in software engineering, the evaluation of the them and the evidence level of the research. The research aims to provide a novel perspective on relevant licenses and to extract key findings through a rigorous literature review process. This study has two main viewpoints: to provide rigorous research on PCLs to the academic field and to provide insights to the professional field of software engineering on PCLs. The grand goal of this thesis is to raise awareness of the importance of PCLs so that more licensers would make the correct choices based on their situations and needs in a mindful way.

Method: The search strategy examined 6666 sources, found through websites that list PCLs and ad-hoc searches. Applying inclusion and exclusion criteria resulted in the selection of 666 sources, which made relevant contributions related to PCLs in software engineering.

Results:

Conclusions:

ACM Computing Classification System (CCS)

Social and professional topics \rightarrow Computing / technology policy \rightarrow Intellectual property \rightarrow Licensing

Avainsanat — Nyckelord — Keywords

open source, free / libre software, copyright, proprietary software, copyleft, license

Säilytyspaikka — Förvaringsställe — Where deposited

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much love to artemis, sami nurmivaara, prof männistö and prof mäntylä

thanks to def for borrowing gpt4. thanks to rashid and barunes for sending me software licensing related videos and news. thanks to iikka and joonas for giving a hint for using a license database. thanks to suvi for supporting my work with the thesis from the beginning and enduring my mental health issues.

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- A Primary literature identified in the search process, duplicates removed
- B Primary literature reviewed, read in full and inclusion/exclusion criteria applied

C Primary literature reviewed, read in full and data extracted

1 Introduction

use the word public license instead of PCL, make fixes per perens' other comments. Free software license != strong copyleft software license

PCLs play a central role to the distribution of works in software engineering. For example in open source there must be an appropriate PCL attached to the source code in order for the piece of software to be freely available for possible modification and redistribution. Because open source is central to software engineering the licenses enabling open source must also be considered important in the same context.

Public license is defined by Wikipedia with the following words (Wikipedians, 2024a):

"A public license is a copyright license where the licensees are not limited. Examples include free content, open content, Creative Commons, free software and open source licences."

Understanding PCLs can be difficult. This could stem from the legal nature of the license texts and the large number of already-existing PCLs. The license texts usually favors correctedness over the readability for the developer. This is because the license text has to act as a valid legal instrument otherwise it cannot be endorsed (Ferguson, 2006). The lack of understanding of PCLs leaves too much room for interpretation. In June 21, 2023 International Business Machines' (IBM) Red Hat seemingly violated a PCL, the GNU General Public License version 2 (GPL-2.0) (Kuhn, 2023) (McGrath, 2023). This was an unpleasant surprise to the public since the project behind GNU General Public License (GPL), GNU Project initially attempted to ensure the users via the GPL have to the following three freedoms (GNU, 1996):

- Freedom 1: The freedom to study how the program works, and change it so it does your computing as you wish. Access to the source code is a precondition for this.
- Freedom 2: The freedom to redistribute copies so you can help others
- Freedom 3: The freedom to distribute copies of your modified versions to others. By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

Regardless, IBM's Red Hat essentially rendered the previously public Red Hat Enterprise Linux (RHEL) into proprietary software. If the licenses would be more easily understood the proprietarization of RHEL would have been less of a surprise to the users.

On top of PCL details, software engineers in general have a tough time understanding the basic goals of PCLs used in software engineering. In the instance of the RHEL incident it would not have been a big surprise to software engineers if they would have known about other licenses and what they try to achieve or how old is GPLv2 and why it has been succeeded by GNU General Public License version 3 (GPL-3.0).

This thesis' goal is to contribute into the solving these problems in a structured manner. First we state definitions and terminology used in the scope of this thesis. We go over the reasons why there does not exist consistent terminology in this area and why the conversely the definitions are the most stabile ones in this area. Second we take a deep dive into the PCLs through a multivocal literature review. To make more information available, a mapping study connected to the terminology scope defined in the first step is needed. Third includes our own suggestions and basic knowledge for professionals and academics in the industry to enhance the understanding of PCLs in software engineering. This step also includes discussion of the future research and contributes to stablizing the terminology and reinforcing the already-existing definitions in the academic field.

1.1 Research goal, questions and contributions

The primary goal of this research is to conduct a multivocal literature review of the current state of PCLs in software engineering, the evaluation of the them and the evidence level of the research. The research aims to provide a novel perspective on relevant licenses and to extract key findings through a rigorous literature review process. The research questions of the review are:

- RQ1: How many PCLs in software engineering does there exist?
- RQ3: What is the average length of a PCL in software engineering?
- RQ3: What are the most common components seen in PCLs in software engineering?
- RQ4: What are the most common changes made to PCLS in software engineering?

Terms such as open source, source code, software freedom and other vocabulary must be

defined in the scope of this thesis. Section 1.3 will examine this plethora of of terminology and definitions and will be used to establish a sound basis for discussing this broad subject.

This study has two main viewpoints. The first one is to provide rigorous multivocal research on PCLs to the academic field. Because this thesis already does the multivocal work on PCLs in software engineering the researches of the future can cite the results of this thesis without having to mark their study a multivocal one. This is the grand goal of this thesis. The second one is to provide insights and general metrics to the professional field of software engineering on PCLs. Hopefully this makes conversation on PCLs in software engineering easier and more rooted to scientific research rather than gut feeling and old, non-scientific articles on the insights and metrics of PCLs in software engineering.

1.2 Thesis structure

This thesis follows the IMRaD structure. Chapter 1 introduces the problem, this thesis' possible contributions and some further background. Chapter 2 goes over the process and the methods of the multivocal literature review. This is where most of the actual research takes place in. Chapter 3 presents results to the research questions. Chapter 4 discusses implications for research. The chapter also discusses software engineering professionals in the thesis' context and the validity of the thesis' research. Chapter 5 concludes this thesis with the help of the research questions and the future of the research.

1.3 Background and terminology of PCLs

The current terminology is used with different definitions which leads to inconsistencies in the field of software engineering. For example The Open Source Initiative (OSI) classifies GPL-3.0 under the term "open source" whereas the Free Software Foundation (FSF) classifies GPL-3.0 under the term "free software" (OSI, 2008) (Stallman, 2009). This is because their definitions on open source and free software differ from each other. Some parts of the two definitions are even mutually exclusive. This is rarely mentioned when people talk about Free and Open Source Software (FOSS) or Free / Libre and Open Source Software (FLOSS) which leads to misunderstanding that the two approaches are the same. This is why our focus will be PCLs in software engineering, which distinguishes our investigation from the broader topic of PCLs or the copyright law. This includs also PCLs that are not approved by the FSF nor OSI hence not falling under the group of FLOSS licenses. The

term "copyleft" is defined by Mustonen, 2003 in the following way:

"Copyeft is a novel licensing scheme. It facilitates open and decentralized software development. Its key feature is that once a program is licensed by the inventor, the subsequent programs based on the original must also be licensed similarly."

This is why the term is often used in the context of free software.

In this section we aim to increase the accessibility of our discussion by providing a concise overview of the background of the field of PCLs and the terms we employ.

To explain our emphasis on PCLs in software engineering, it is essential to examine the other possible areas of interest in PCLs. Our study classifies such efforts into eight domains as mentioned by the GNU Project (GNU, 2023).

These domains include:

- PCLs in software engineering
- PCLs in documentation for example architecture documentation of a project that may or may not be software or even publicly licensed
- PCLs in artistic works for example digital art, music or videos
- PCLs in educational works
- PCLs in fonts
- PCLs in viewpoints
- PCLs in physical objects
- PCLs in other works

The primary aim of this study is to investigate PCLs in software engineering process. However, it is important to acknowledge that PCLs in software engineering are only aspect of PCLs. These additional dimensions are crucial in adoption and implementation of PCLs in software engineering, but they are not the focus of this thesis.

For example, including artistic works such as music would require us to understand the basics of music theory and what sets apart distinct pieces of music from one another,

something that could be outside the skillset of the author. While developing a comprehensive theory, framework, and tooling for PCLs as a whole is a gargantuan task beyond the scope of a single thesis, narrowing our focus to software engineering enables us to examine a more concise and complete aspect of the main topic of this thesis.

As significant point of clarification, it is essential to acknowledge that PCLs are generally meant to be used as valid legal instruments. The question whether or not a PCL can act as a legal instrument is critical to the main function of these licenses. However, this thesis will not focus on the legal doctrine aspects either. The enforceability of PCLs has seen discussion in the academic field of law since the dawn of PCLs and since there's already an academic base for research it is likely the discussion seems to continue on with a healthy amount of activity (Duisburg, 2011).

Since the most recognized PCLs in software engineering in public are either open-source licenses or free-software licenses and since both paradigms are driven by different organizations with very different goals and values, it is understandable how non-standardized the terminology in the scope of PCL in SE is. The example given in the first section of this sub-chapter illustrates the challenges involved in maintaining consistency in the use of terminology in this emerging field and further warrants a closer inspection of the terminology to emphasize our own standing in the field.

To provide an understanding of the terminology used in this thesis, a Venn diagram is presented in Figure 1.1, which contextualizes the non-standardized terminology within the PCL scope as a whole. This perspective provides an increased understanding of where different subdomains fall in the larger picture of PCLs. Furthermore it is essential to note that PCLs in software engineering encompasses different aspects that require a closer examination.

Let us explore further the differences and similarities between open source and free software at the software engineering level of PCLs. This is a crucial step since we can see from the approximation in Figure 1.1 that the majority of PLCs are either free software, open source or both. We glanced over the free software definition in the first section of Chapter 1. Open Source Initiative defines open-source licenses in the Open Source Definition briefly in the following way (OSI, 2024):

"Open source licenses are licenses that comply with the Open Source Definition"

- in brief, they allow software to be freely used, modified, and shared."

Like the FSF with free software, OSI has the final word on what passes as open source



Figure 1.1: PCLs in software engineering

and what does not. For example a new software PCL will not classify as free software nor open source until the corresponding organization has acknowledged the software PCL as either free software, open source or neither. If a PCL is accepted by both FSF and OSI it will fall under the term FLOSS. If a PCL gets accepted by neither of the organization or it gets rejected by both organizations it will fall under other software PCLs in the Figure 1.1. In general free software license requirements are considered more strict than the open source license requirements. For the sake of perspective we could simplify the differences like so: free software requires the redistributions of the licensed software to be open as well but open source does not require this. The terms free software and open source are in general often misunderstood or just thought of as FLOSS collectively because the terms have a hard time conveying their paradigms in the natural language. One would not think free software does not mean software free of charge nor would one think that open source allows closed source redistributions of the licensed software. We will glance over the impacts on the industry of these two terms in Chapter 4.

With the context laid out in this chapter let us define PCLs in software engineering for the purpose of this study: Public software licenses are copyright licenses where the licenses are not limited and the copyright license in question is meant be used in licensing software source code. This helps us create the search strings and find the relevant literature for

this thesis. This also helps us exclude PCLs regarding documentation, media and all other non-software targeted PCLs.

The quest to categorize every software PCL under some paradigm objectively is a complex one and cannot be comprehensively answered in a single paragraph. Therefore it is essential to continue taking the correct steps towards incresing the scientific understanding and providing the industry with examples, standards and processes to follow. However, as the following chapters reveal, a significant amount of effort is still being spent on solving the same problem multiple times, rather than building on existing knowledge and finding the next problem to solve. This thesis aims to contribute to mitigating this challenge by providing a rigorous analysis of the current state of the field. As the knowledge, conventions, and terminology take shape, we can look forward to reaching a state where less effort is spent on defining concepts and more on practical problem-solving.

2 Methods

This chapter aims to establish a precisely defined and rigorous research approach to enhance transparency and repeatability. We will take the steps required to ensure that every phase and decision is thoroughly documented, enabling the reader to retrace the research process. In a thesis made by a single researcher the lack of cross-examination of results with multiple researchers and the validation of evaluation criteria for opinion bias pose threats to validity, as will be clarified further in Chapter 4. Therefore, special attention will be paid to address these concerns. By following this approach, this research endeavors to contribute to the existing body of knowledge in the field of computer science in a robust and reliable manner.

stage 1 licenses amount before rough deduplication could be a nice metric to say for my excel efforts. duplicates.txt can be just a one-time pass of the difflib duplicate thingy. ok now ill go through once the excluded and included licenses one by one and note any broader scale "mistakes" in the search string, gotta add sources on top of source

at the end of this section i will have to document the timestamp at which point i accessed the docs of scancode-licesendb since. actually i might be a good idea to create a wayback machine attempt to capturing the state of the licensedb rn. nvm great wayback machine is not viable solution for that. just stating here that i downloaded the licensedb on 2025 mar 25 15:30

it's good to note that when bumping into the missing license of attpubliclicense which was from gnu, it turned out that the license listing site doesnt state the license content whatsoever. i had to just put the comment of the license into manual licenses.

manual/missing licenses: check which shortcodes of missing licenses does stage2-3.py output. check from sheets where does the shrotcode originate from. ctrl + f that listing site. copy the full license to manual-licenses/shortcode.txt and re-run the stage2-3.py until no longer missing licenses appear in console.

remember to count here how many missing licenses / manual licenses had to be done manually

could be also a good idea to note here how many missing licenses came from which site. gnu and fsf seem to be the winners here. cvw was not found with the python script. i checked from the excel that its from the osi but osi didnt have it anymore by the time i got there. at some point between fetching the data and the re-fetching the license content from the original site MITRE had voluntarily retired the cvw license. it was found from the scancode licensedb with the name cvwl instead. dejavu and dbg-3.0 were also two other licenses that contained a space. this might indicate that the space is an accident that its simply just not found from a license listing site x. its also good to note that the python script was decided to be an valid approach since many of the licenses were actually found with the shortcode from the licensedb scancode. fetching 700 licenses by hand would have had time and validity issues. wayback machine could have been used to do the actual searching as well. this is unfortunately a validity issue but at least the source is available in wayback machine.

let it be said, that when looking for manual licenses, if there existed two sites which listed the same license, the leftmost was chosen, as per the order of the wikipedia mit article it seems like i have manually added licenses and invented shortcodes for them AT LEAST in DFSG license listing. FAL is a good example.

For example licenses like CorkForkPL from FSF are just empty licenses. CorkForkPL is used however in MighTyD project but the license would have to be seen from a downloaded project or something like that. A new scope: only licenses that are one (1) click away from the initial license landing page can be copypasted to the manual licenses. just like the JahiaCSL has a URL on FSF for the license new location although the FSF page is empty.

licenses like MPL exist on FSF and GNU. it was not easily found from FSF (empty with links to programs using this) so it was gotten from GNU which was labeled as MPL1.1, which the FSF DOES have so i just boldly went with that. threat to validity.

it could be a good idea to mention how many missing licenses came out of which sites. or it could be out of scope. i can just make a validity threat and say with face value that most of them were from FSF, GNU in that order. Python license seems just straight up an accident on FSF's side. scope is not to fix the documentation problems of the 5 organizations though so I'll leave it just like that and mention the possibility of it being just an accident.

so. now i figured ill take another validity threat L and decide to remove duplicates by human eyesight and choose the one left over from two seeming duplicates by pure human eyesight. i will document the ones that were chosen over the other duplicate and call it a day. for now. i gotta write number + shortcode to find duplicates and document them.

it would be good to note in conclusions that while im stripping away here the errorish licenses and "duplicates". the ones used mostly are different from those that are actually legally valid historically or even those that are not meant to be legally valid (MIT). whilst im doing this systematically it doesnt mean that all parts of it can be done automatically or by automation. human touch in for example checking the incl excl criteria and removing duplicates by combining and creating the weight value of shortcode + license name + license text is done basically by a human with the help of python first sorting them based on their word overlap (not sort, not full on difflib, not cosine similarity). ill do exclusion first though. inclusion is kinda implied here i just realized when i took them out of the license listing cites and removed blanks etc.

is a documentation license a software license. ok with the initial beginning inclusion words "(source|software|program|code|module|public(s+)license|ware|(w+)ware)" we managed to catch GFDL licenses and for this scope i think ill have to narrow it down to just purely source code or software targeting licenses. then again is font a piece of software. documentation might not be, font is considered a software in this scope of ours since the fonts might contain programmatic instructions how to draw and render them, documentation might be a part of a software package but is not considered software regardless.

i will call it a day to just remove creative commons licenses by exclusion string and remove GFDL licenses by manually providing a list of excluded licenses. the point of this thesis and this research is to provide how many public software licenses do we actually have so that we can understand the problem of open source and the reason why post-open source has begun to emerge. now i gotta just exclude and include (in that order) then just very lightly and cheaply remove the duplicates by checking licenses one by one with difflib

how do i exclude documentation from here do i need to manually exclude them? i can always just call it a day on validity threat and change it afterwards???? i started with

but soon realized that the point of this thesis is to provide a clearer picture of the actual problem that im trying to diminish here: the huge amount of open source licenses that exist. instead im removing everything else but the documentation license and creative commons thingy from the search string. will go through the excluded licenses once more just to check if it caught anything wrong, the big idea here is that because the open source licenses and the public licenses used are already sometimes too vague to be legally valid should be just left as is and just remove the sort of licenses that are already specifically not-software specific, i.e. documentation licenses, or at least creative commons is not

considered as such.

the eye-pass of 87 excluded licenses included cal1.0 and cal-combined which seem to need to be included. made inclusions.txt to manually include them although containing the words creative commons, since those license texts were licensed themselves with creative commons. will eyeball the stage-2 shortcodes as well just to see anything i know by heart is not public software license. cc-by-sa-japanese was included so i had to make a manual exclusions.txt to manually mark licenses that are not public software licenses.

stage 2: inclusion and exclusion is done. 656 licenses left to remove potential duplicates from using ratcliff and obershelp. then just writing. literally just writing after this.

so for stage 2: i output shortcodes to .txt and full licenses to folder. from .txt i bake them to google sheets and match the sources for them. from google sheets i put them to github markdown for reader to see. note: the python script does not work on windows due to some path handling errors. i would have loved to use my desktop 1160K instead of laptops i5-8265U. ok wow it took 4101.285 seconds on my laptop. check the ss on my laptop

licenses texts were sorted using difflib and renamed index plus shortcode. then opened in vscode and if seem the same content minus noise the other one usually the order of the 5 license sites is removed as duplicate. vscode compare tool was used to help with larger license texts. data/database licenses popped up during the duplicate searching phase. added ad-hoc open data as an exclusion string

duplicate removal in tabs was done so that: i check the text if the n and n+1 and if they look pretty much the same i act and if the shortcodes look the sam i act.

stage 3 is removing duplicates by a feel factor from the shortcodes and from the difflib sorted contents. this is also just a one pass test.

The systematic literature review method (SLR) is a well-established approach for conducting a comprehensive and rigorous analysis of the existing research on specific research question or subject (Kitchenham and Charters, 2007). This paper presents a multivocal literature review (MLR). MLR is a SLR that includes both academic (AL) and grey literature (GL). This method was selected for this study to facilitate a thorough and scientifically interdisciplinary examination of PCLs in software engineering. The existing literature consists of PCLs and as such are considered gray literature, making the thesis a multivocal literature review.

This study follows the guidelines outlined by Kitchenham and Charters, 2007, to ensure its quality. The multivocal review method consists of three distinct phases: planning,

conducting and reporting the review. This study strictly adhered to this structure. The phases can be further broken down into a research protocol, as illustrated in Figure 2.1. Adhering to the protocol is the first step in ensuring a well-documented and rigorous process, which increases the validity and auditability of the study.

The multivocal literature review process began with the formulation of research questions and the establishment of a comprehensive search strategy and scope. The search process was conducted by employing a quasi-gold standard (QGS) approach based on the implementation by Zhang and Ali Babar, 2010. After the completion of the search process, the inclusion and exclusion criteria were defined. To ensure a structured evaluation of the literature, a data extraction form was created. Finally, a strategy for analyzing the extracted data from the literature was designed.

To ensure the reliability and validity of the research protocol, it was validated against similar systematic literature reviews in computer science, the aforementioned guidelines by Kitchenham and Charters, 2007, and was further refined through an iterative process. Specifically, a subset of the data was tested on (The QGS) and any identified issues or problems were recorded and addressed. The details of this process are explained and thoroughly documented in the following sections. Similarly, the same approach was followed for the data extraction process, whereby a subset of literature was tested to refine the data extraction form. The revision of the form was undertaken as necessary to guarantee the completeness and accuracy of the extracted data.

2.1 Research questions

The research questions in this study served two primary purposes. Firstly, they aimed to provide an analysis of the existing multivocal literature on PCLs in software engineering for the researchers interested about the field. Secondly, the questions were designed to cater a secondary audience of professional software engineering practicioners. As discussed in the Chapter 1, the following research questions were addressed in this thesis:

- RQ1: How many PCLs in software engineering does there exist?
- RQ2: What is the average length of a PCL in software engineering?
- RQ3: What are the most common components seen in PCLs in software engineering?
- RQ4: What are the most common changes made to PCLS in software engineering?

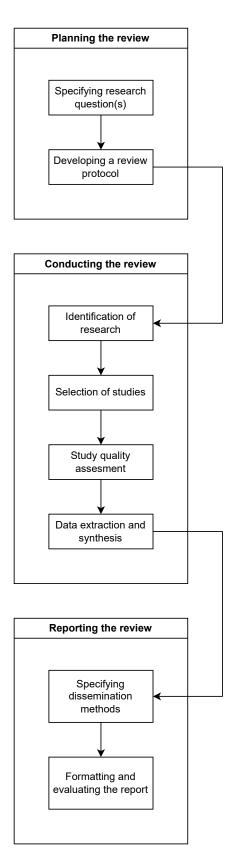


Figure 2.1: Three phases of a systematic literature review

The multivocal literature review in this thesis begins with addressing RQ1, which aims to provide the amount of PCLs that exist in software engineering. The review takes into account attributes like versions, supersedences to a different license family, formal or otherwise and recognizability. These attributes give us different amounts to existing PCLs in software engineering. This information could be most valuable for the practicioners out of all the research questions in the thesis since it could give some sense of the scale when picking a PCL that would serve the practicioners' needs the best.

Next RQ2 seeks to find the average length of the text of a PCL in software engineering. This research question has attributes like the number of characters, sentences, distinct sections and the size of the license on a computer screen. This information could be valuable for the practicioners mentioned in the previous parapgrah for the same reasons of getting a better overview of the PCLs in software engineering. The research questions could also be beneficial for the practicioners working directly within the meta plane of PCLs in software engineering. Let us refer to the latter as researchers.

Finally RQ3 and RQ4 attempt to distinguish the top level paragraphs and other components of the PCLS in software engineering and what are the common reasons for the changes made to them throughout the years. The research questions go over the content of the changes and the implied and expressed reasons for making the changes. The answers to these last two research questions could again be useful for the researchers. The results can be used to introduce some notable background of the current PCLs in software engineering and enabling focus to more specific areas inside this PCLs in software engineering.

2.2 Search stragey

The search process was conducted on various PCL listing websites. The selection criteria for the literature were defined after the search process and the selection process was based on inclusion and exclusion criteria. The inclusion and exclusion criteria and each step of exclusion on the literature found was documented and is available as Appendix A. The used criteria are presented later in this chapter.

The data extraction process was performed in a standardized and systematic manner, with the aim of obtaining all relevant information from the selected literature. The data extraction form used included information such as license name, release year, text length and inferred purpose and is available Table 2.2. The extracted data was then used to answer the research questions and perform the data analysis. The results of the data

analysis were then reported in a rigorous manner.

2.2.1 Search method

The search was conducted on various PCL listing websites, as mentioned earlier, to obtain a broad set of multivocal literature. This approach yielded a large number of literature that were processed to a subset of high-relevance literature using exclusion and quality criteria presented later in this chapter. Manual searching of databases with thousands of PCLs is not feasible, and it is prone to researcher bias and may overlook relevant venues from other scientific disciplines. However, a preliminary manual search was performed to reduce the number of iterations required and establish the quasi-gold standard (QGS) mentioned earlier.

2.2.2 Search scope and terms

Originally the search terms would have been present just like in a normal MLR or SLR. Keywords however produced highly varying and non-reproducabe results in Google Scholar and Google Search. Some PCL listing websites such as FSF's list of pages categorized as licenses could not be found from Google Search even with the site operator: site:https://directory.fsf.org/wiki/Category:License. Although the page has been up since 2013 for some reason Google has not crawled the page in 10 years (FSF, 2024). Hence why this thesis does not include search terms per se.

Instead, for establishing a QGS we started defining our search scope from the Wikipedia page of one of the most used open source license according to Balter, 2015, the MIT license (Wikipedians, 2024b). The infobox contained fields in the order shown in Table 2.1.

As we defined PCLs in software engineering as copyright licenses where the licensees are not limited and the copyright license in question is meant be used in licensing software source code in Chapter 2 and our research questions focus on finding measurements and reasonings to the PCLs' various attributes, we decided to gather PCLs from the related web pages of the aforementioned categorizers: SPDX, FSF, OSI and GNU. The publisher, GPL compatibility, copyleft and the linking exception did not result in any meaningful PCL listing websites. This leaves us with the SPDX, Debian FSG compatibility, FSF and OSI from which all resulted in some sort of PCL listing websites.

With the search for the initial PCL listing websites completed we moved onto the search

Field	Value
Publisher	Massachusetts Insitute of Technology
SPDX identifier	MIT
Debian FSG compatible	Yes
FSF approved	Yes
OSI approved	Yes
GPL compatible	Yes
Copyleft	No
Linking from code with a different license	Yes

Table 2.1: MIT License Wikipedia page infobox

process itself.

2.3 Search process

The literature selection process was divided into multiple stages, as outlined in Figure 2.2. The initial step involved the formation of the first PCL listing websites through which the first literature would be acquired from.

does this figure 2.2 have to use these terms since im really just applying K & C 2007 slr guidelines to a mlr. no it doesnt. change it when finishign up 2. methods.

In the first stage, the search was conducted using the "SPDX License List" (Linux Foundation, 2024), "The DFSG and Software Licenses" (Debian, 2024), FSF's "Category:License" Wiki page (FSF, 2024), GNU's "Various Licenses and Comments about Them" (GNU, 2023) and "OSI Approved licenses" (OSI, 2024). The PCLs appear in the same order as decribed above: SPDX, DFSG, FSF, OSI and GNU. The appendix was also crafted in a spreadsheet software so that only the initial hit source was documented in the order described above. For example even if MIT license would be found on SPDX and DFSG Appendix A would only display MIT license with the "First hit from" value being SPDX. The initial list of 789 PCLs excluding duplicates is provided in Appendix A.

Some things must be mentioned about the process of the first stage. First, the FSF outputted a "license" named "other". This "license" included at the time of observation 5282 known programs to FSF whose PCLs were not documented yet by the FSF. Although

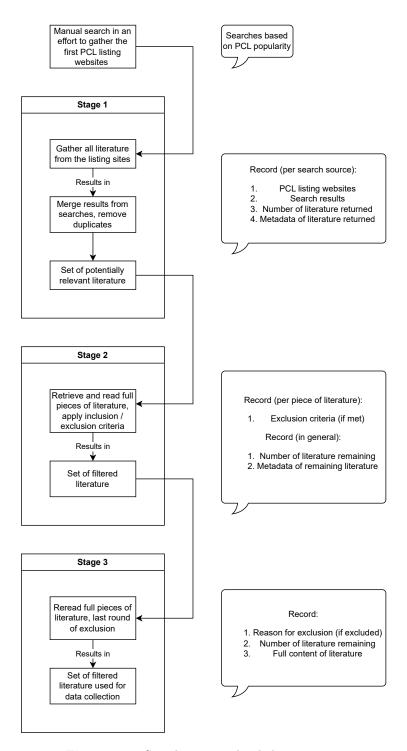


Figure 2.2: Search process divided into stages

some of the programs had straightforward PCLs such as GPL-2.0-only we decided to leave these PCLs out of the scope of this thesis due to the large amount of the programs. The second note is about GNU's PCLs. Since we had the most trouble scraping the identifiers automatically from this website we decided to limit the PCLs only to "Software Licenses" as defined by the table of contents on the website.

approx duplicates were the result of going to the two listing websites that had the approaximately same looking licenses. then i just checked if they were actually some sort of duplicates of one another or if they already exist somewhere else. examples here, this is also a validity threat, problem with focusing software specific licenses is for example wtfpl, it is mostly used in software licensing but it doesn't quite clearly state that it is software specific license, maybe ill have to include the word "public license" and just include stuff that's not actually software specific or maybe ill make some exclusion criteria in order to get less non-software licenses

In the second stage, the inclusion and exclusion criteria were applied to further filter the literature and reduce the number of licenses to be reviewed. This involved a manual review of the full licenses. The exclusion reason as a shortcode (e.g. I1 = failed to meet inclusion criteria 1 or E2 = met exclusion criteria 2) is provided in Appendix B.

The third stage was the most time-consuming and involved a manual review of the full licenses. After reading and evaluating each license, a final round of exclusions was completed and documented. The remaining licenses were used for data collection and analysis in the final part of the study. The final list of licenses is available in Appendix C.

2.4 Inclusion and exclusion criteria

To be eligible for the data collection and analysis, a license had to meet all of the following inclusion criteria:

- I1: The license focuses on the copyright of software source code or their binaries
- I2: inclusion criteria 2

Additionally, licenses were excluded if they met any of the following criteria:

• E1: The piece of literature is a license exception

#	Field	Concern/Research question
F1	Name	Documentation
F2	Length	RQ3
F3	FSF approval	Documentation
F4	OSI approval	Documentation
F5	Inferred purpose	RQ1, RQ2, RQ4

Table 2.2: Data extraction form

• E2: The piece of literature is a Creative Commons license

• E3: exclusion criteria here

• E4: exclusion criteria here

The relevance of each piece of literature was evaluated based on inclusion and exclusion criteria stated above. In cases where there was doubt about the suitability of a license, a more in-depth manual examination of its content was performed. The reason for exclusion was documented for each license that failed to meet the criteria, and when it was unclear, the license was included by default.

Another relevant criteria related to the ones of inclusion and exclusion are the quality and evidence criteria. These criteria used by Dybå et al., 2007 were not put into practice in this thesis since individual PCLs per se might not be meaningful in a results, evidence nor quality perspective. This puts more emphasis on the inclusion and exclusion criteria so that is something we must be mindful about.

2.5 Data collection and data analysis

To answer the research questions of this thesis, a thorough examination of the selected primary literature was conducted and the necessary data was collected using data extraction form presented in Table 2.2. A record of extracted data was kept for analysis and is available as Appendix B.

The subsequent chapter presents the outcomes of the steps taken in the study, as discussed above.

3 Results

This chapter employes the data extracted from the set of primary literature, available as Appendix A, utilizing the methods outlined in Chapter 2 to address the research questions. Firstly, a summary of the general statistics collected and aggregated from the studies is presented. Following that, an analysis of the data is performed to provide answers to each of the research questions.

```
mention design science, the artifact and its contributions how many licenses and why statistical overview with figures (mapping study) how many licenses during each stage (figure) basic statistic on final licenses (figure) essential statistics (figure)
```

3.1 Placeholder question (RQ1)

figures and literature identifier tables

3.2 Placeholder question (RQ2)

figures and literature identifier tables

3.3 Placeholder question (RQ3)

figures and literature identifier tables

3.4 Placeholder question (RQ4)

figures and literature identifier tables

4 Discussion

indications
follow-up observation
observation 1
observation 2
sum-up from those two

4.1 Implications for research

how to improve scientific scene 1 how to improve scientific scene 2 how to improve scientific scene 3

4.2 Implications for software engineering professionals

how to improve professional scene 1 how to improve professional scene 2 how to improve professional scene 3 overall

4.3 Limitations and threats to validity

The major limitation of this study is that the subjective results could not be validated by multiple researchers. In a systematic review, it is standard practice and highly recommended to have at least two, if not more, individuals independently conduct the review processes and then cross validating the findings. This would result in the possibility of comparing individual exclusion decisions and other decicions, thereby increasing the credibility of the study. However, in this study, the methodology was thoroughly documented, which allows us to assert with confidence that the study has an appropriate level of of validity.

As a work of single researcher, there is also a chance of inaccuracy and bias in the literature selection and filtering process. As much of the literature had to be reviewed manually and then included/excluded on a qualitative basis, this is a known limitation and a threat to validity. Multiple rounds of documented filtering and a clear paper trail of all decisions made keeps this threat in the acceptable levels.

4.3.1 Limitations of literature selection for review

Efforts were made to ensure the inclusion of comprehensive set of literature in the search process. This was achieved by setting the starting point of PCL lists to the Wikipedia article of the MIT license.

However, as with all systematic literature reviews, a comprehensive manual review of all literature would have been a formidable task. Therefore, additional filtering was conducted. This filtering was carried out in two phases, starting with the application of inclusion/exclusion criteria, followed by a second phase focused on evaluating the nature of the PCLs and conducting a manual review. As a result of this second phase, a set of literature were excluded following a critical appraisal, with documentation and reasoning provided for each section.

The first phase of filtering has some notable limitations starting with the two PCL listing websites: SPDX and DFSG. Since the material was gathered to a spreadsheet program the duplicates were removed using the short identifier the listing page was using. Let's look at this validity threat using an example. Suppose our spreadsheet program has acquired the PCL with an identifier "MIT". The results of phase 1 will not include any other PCL marked with the identifier "MIT". In the worst case the identifier "MIT" could have actually been "MIT-DFSG-edition" but with the identifier of "MIT". Since there were so many PCLs in phase 1 it would not have been possible to check the uniqueness of all removed duplicates. One of the reasons why this would not have been feasible is that the listing sites would fetch the PCL contents from another webpage or at the second worst case, from another website. The worst case is that the URl is dead and we get HTTP 404. The amount of PCLs, duplicates and the lack of already existing tools makes this problem

multilayered. However this is the integrity level we decided to live with.

FSF's PCL listing introduced us to pick another limitation for the scope of this thesis. The license shortcoded as "other" was not a PCL but instead a hyperlink to another listing webpage that listed programs that the FSF has no yet managed to document the license which the program uses. Although the one of the programs called "babl" was licensed as with "gplv3" the amount of undocumented programs was over 5200 at the time of observation. For this reason we are excluding the PCLs found indirectly from the category "other".

tell about the validity threats of osi literature selection for review

Lastly, GNU project's listing site allowed us to use a shortcut of sorts which we will document here for the purposes of acknowleding the limitations of it. The table of contents at the listing site marked certain consequtive PCLs as software PCLs. On top of this the PCLs were not organized into easily processable tables but rather in stacked on one another in rich text format. Although we decided to use regex on the HTMl file the included PCLs were only the ones that were simply under the header "Software licenses". In the worst case scenario GNU project could have misinterpreted some PCLs as non-software licenses thus making this thesis exclude them with a wrong reason. While from a quick glance and the existence of the other four PCL listing sites, we think it is still worth documenting when it comes to validity and the integrity of this thesis.

On top of too heavy filters we would also like to document the too light filters in the literature selection for review. We can see from Appendix A that for example PCLs with the literature identifiers L777 and L780 are almost the same regarding the shortcoded identifiers: "ZPL - 2.1" and "ZPL-2.1". The duplicate removal would have been seemingly simple to execute on phase 1. However with the presence of over 700 pieces of literature we decided not to give special treatment to any potential set of duplicates. While it is most possible that OSI's "ZPL - 2.1" is equivalent exactly to SPDX's "ZPL-2.1" we could not be sure without looking at their contents. This could have resulted duplicate PCLs in the literature selection for review but these type of duplicates are removed in phases 2 and 3 due to the PCLs being read in full.

As such we can note that the literature selection was done in a sufficient manner.

4.3.2 Limitations in data extraction

importance of data extraction

lack of measurements and tooling

5 Conclusions

primary objective of this study conclusions from each rq

5.1 Future research

adopting a clear baseline
why agplv3re is the best license
Docker CLA, SSPL
make cla easier maybe with gpg / joplin easy cla sign
LICENSE highlighting.js
what kind of efforts and why
what this thesis has provided

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$\begin{array}{cccc} {\bf Appendix} \ {\bf A} \ {\bf Primary} \ {\bf literature} \ {\bf identified} \ {\bf in} \ {\bf the} \ {\bf search} \ {\bf process}, \\ {\bf duplicates} \ {\bf removed} \end{array}$

Table A.1: A list of literature and the basic filtering step

Literature						
identifier	Identifier	SPDX	DFSG	FSF	OSI	GNU
L1	0BSD	SPDX			OSI	
L2	996			FSF		
L3	AAL	SPDX			OSI	
L4	Abstyles	SPDX				
L5	AcademicFreeLicense					GNU
L6	ACDL-1.0			FSF		
L7	ACEL			FSF		
L8	AdaCore-doc	SPDX				
L9	Adobe-2006	SPDX				
L10	Adobe-Display-PostScript	SPDX				
L11	Adobe-Glyph	SPDX				
L12	Adobe-Utopia	SPDX				
L13	ADSL	SPDX				
L14	AFL-1.1	SPDX				
L15	AFL-1.2	SPDX				
L16	AFL-2.0	SPDX				
L17	AFL-2.1	SPDX				
L18	AFL-3.0	SPDX		FSF	OSI	
L19	Afmparse	SPDX				
L20	AGPL					GNU
L21	AGPL-1.0-only	SPDX		FSF		
L22	AGPL-1.0-or-later	SPDX		FSF		
L23	AGPL-3.0-only	SPDX	DFSG	FSF	OSI	
L24	AGPL-3.0-or-later	SPDX		FSF		
L25	Aladdin	SPDX		FSF		GNU
L26	Aladdin-9			FSF		
L27	AMDPLPA	SPDX				

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L28	AML	SPDX				
L29	AML-glslang	SPDX				
L30	AMPAS	SPDX				
L31	ANTI-1.3			FSF		
L32	ANTI-1.4			FSF		
L33	anticapitalist					GNU
L34	ANTLR-PD	SPDX				
L35	ANTLR-PD-fallback	SPDX				
L36	Apache-1.0	SPDX		FSF		
L37	Apache-1.1	SPDX		FSF	OSI	
L38	Apache-2.0	SPDX	DFSG	FSF	OSI	
L39	apache1					GNU
L40	apache2					GNU
L41	APAFML	SPDX				
L42	APL-1.0	SPDX			OSI	
L43	App-s2p	SPDX				
L44	APSL-1.0	SPDX		FSF		
L45	APSL-1.1	SPDX		FSF		
L46	APSL-1.2	SPDX		FSF		
L47	APSL-2.0	SPDX	DFSG	FSF	OSI	
L48	apsl1					GNU
L49	apsl2					GNU
L50	APSLv1.x			FSF		
L51	Arphic-1999	SPDX				
L52	Arphic-PL			FSF		
L53	Artistic-1.0	SPDX		FSF	OSI	
L54	Artistic-1.0-cl8	SPDX				
L55	Artistic-1.0-Perl	SPDX		FSF	OSI	
L56	Artistic-2.0	SPDX	DFSG	FSF	OSI	
L57	ArtisticLicense					GNU
L58	ArtisticLicense2					GNU
L59	ASWF-Digital-Assets-1.0	SPDX				
L60	ASWF-Digital-Assets-1.1	SPDX				
L61	ATTPublicLicense					GNU
L62	Baekmuk	SPDX				

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L63	Bahyph	SPDX				
L64	Barr	SPDX				
L65	bcrypt-Solar-Designer	SPDX				
L66	Beerware	SPDX				
L67	BerkeleyDB					GNU
L68	Bitstream Font License			FSF		
L69	Bitstream-Charter	SPDX				
L70	Bitstream-Vera	SPDX				
L71	bittorrent					GNU
L72	BitTorrent-1.0	SPDX				
L73	BitTorrent-1.1	SPDX		FSF		
L74	blessing	SPDX				
L75	BlueOak-1.0.0	SPDX			OSI	
L76	Boehm-GC	SPDX				
L77	boost					GNU
L78	Borceux	SPDX				
L79	Brian-Gladman-2-Clause	SPDX				
L80	Brian-Gladman-3-Clause	SPDX				
L81	BSD-1-Clause	SPDX		FSF	OSI	
L82	BSD-2-Clause	SPDX		FSF		
L83	BSD-2-Clause-Darwin	SPDX				
L84	BSD-2-Clause-FreeBSD			FSF		
L85	BSD-2-Clause-Patent	SPDX			OSI	
L86	BSD-2-Clause-Views	SPDX				
L87	BSD-3-Clause	SPDX	DFSG	FSF	OSI	
L88	BSD-3-Clause-acpica	SPDX				
L89	BSD-3-Clause-Attribution	SPDX				
L90	BSD-3-Clause-Clear	SPDX		FSF		
L91	BSD-3-Clause-flex	SPDX				
L92	BSD-3-Clause-HP	SPDX				
L93	BSD-3-Clause-LBNL	SPDX			OSI	
L94	BSD-3-Clause-Modification	SPDX				
L95	BSD-3-Clause-No-Military-License	SPDX				
L96	BSD-3-Clause-No-Nuclear-License	SPDX				

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L97	BSD-3-Clause-No-Nuclear-License- 2014	SPDX			
L98	BSD-3-Clause-No-Nuclear-Warranty	SPDX			
L99	BSD-3-Clause-Open-MPI	SPDX			
L100	BSD-3-Clause-Sun	SPDX			
L101	BSD-4-Clause	SPDX		FSF	
L102	BSD-4-Clause-Shortened	SPDX			
L103	BSD-4-Clause-UC	SPDX			
L104	BSD-4.3RENO	SPDX			
L105	BSD-4.3TAHOE	SPDX			
L106	BSD-Advertising-Acknowledgement	SPDX			
L107	BSD-Attribution-HPND-disclaimer	SPDX			
L108	BSD-Inferno-Nettverk	SPDX			
L109	BSD-Protection	SPDX			
L110	BSD-Source-beginning-file	SPDX			
L111	BSD-Source-Code	SPDX			
L112	BSD-Systemics	SPDX			
L113	BSD-Systemics-W3Works	SPDX			
L114	BSL-1.0	SPDX		FSF	OSI
L115	BUSL-1.1	SPDX			
L116	bzip2-1.0.6	SPDX			
L117	C-UDA-1.0	SPDX			
L118	CAL-1.0	SPDX			OSI
L119	CAL-1.0-Combined-Work-Exception	SPDX			
L120	Caldera	SPDX			
L121	Caldera-no-preamble	SPDX			
L122	CATOSL-1.1	SPDX			
L123	CC-BY-1.0	SPDX	DFSG		
L124	CC-BY-2.0	SPDX		FSF	
L125	CC-BY-2.5	SPDX			
L126	CC-BY-2.5-AU	SPDX			
L127	CC-BY-3.0	SPDX	DFSG	FSF	
L128	CC-BY-3.0-AT	SPDX			
L129	CC-BY-3.0-AU	SPDX			
L130	CC-BY-3.0-DE	SPDX			
		•	•		

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L131	CC-BY-3.0-IGO	SPDX		
L132	CC-BY-3.0-NL	SPDX		
L133	CC-BY-3.0-US	SPDX		
L134	CC-BY-4.0	SPDX	DFSG	FSF
L135	CC-BY-NC-1.0	SPDX		
L136	CC-BY-NC-2.0	SPDX		
L137	CC-BY-NC-2.5	SPDX		
L138	CC-BY-NC-3.0	SPDX		
L139	CC-BY-NC-3.0-DE	SPDX		
L140	CC-BY-NC-4.0	SPDX		
L141	CC-BY-NC-ND-1.0	SPDX		
L142	CC-BY-NC-ND-2.0	SPDX		
L143	CC-BY-NC-ND-2.5	SPDX		
L144	CC-BY-NC-ND-3.0	SPDX		
L145	CC-BY-NC-ND-3.0-DE	SPDX		
L146	CC-BY-NC-ND-3.0-IGO	SPDX		
L147	CC-BY-NC-ND-4.0	SPDX		
L148	CC-BY-NC-SA-1.0	SPDX	DFSG	
L149	CC-BY-NC-SA-2.0	SPDX		
L150	CC-BY-NC-SA-2.0-DE	SPDX		
L151	CC-BY-NC-SA-2.0-FR	SPDX		
L152	CC-BY-NC-SA-2.0-UK	SPDX		
L153	CC-BY-NC-SA-2.5	SPDX		
L154	CC-BY-NC-SA-3.0	SPDX		
L155	CC-BY-NC-SA-3.0-DE	SPDX		
L156	CC-BY-NC-SA-3.0-IGO	SPDX		
L157	CC-BY-NC-SA-4.0	SPDX		
L158	CC-BY-ND-1.0	SPDX		
L159	CC-BY-ND-2.0	SPDX		
L160	CC-BY-ND-2.5	SPDX		
L161	CC-BY-ND-3.0	SPDX		FSF
L162	CC-BY-ND-3.0-DE	SPDX		
L163	CC-BY-ND-4.0	SPDX		
L164	CC-BY-SA-1.0	SPDX	DFSG	
L165	CC-BY-SA-2.0	SPDX		FSF

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L166	CC-BY-SA-2.0-UK	SPDX				
L167	CC-BY-SA-2.1-JP	SPDX				
L168	CC-BY-SA-2.5	SPDX		FSF		
L169	CC-BY-SA-3.0	SPDX	DFSG	FSF		
L170	CC-BY-SA-3.0-AT	SPDX				
L171	CC-BY-SA-3.0-DE	SPDX				
L172	CC-BY-SA-3.0-IGO	SPDX				
L173	CC-BY-SA-4.0	SPDX	DFSG	FSF		
L174	CC-PDDC	SPDX				
L175	CC-SAMPLING+1.0		DFSG			
L176	CC0			FSF		
L177	CC0-1.0	SPDX				
L178	CDDL					GNU
L179	CDDL-1.0	SPDX		FSF		
L180	CDDL-1.1	SPDX				
L181	CDL-1.0	SPDX				
L182	CDLA-Permissive-1.0	SPDX				
L183	CDLA-Permissive-2.0	SPDX				
L184	CDLA-Sharing-1.0	SPDX				
L185	CeCILL					GNU
L186	CECILL-1.0	SPDX				
L187	CECILL-1.1	SPDX				
L188	CECILL-2.0	SPDX		FSF		
L189	CECILL-2.1	SPDX			OSI	
L190	CECILL-B	SPDX				
L191	Cecill-B-v1			FSF		
L192	CECILL-C	SPDX				
L193	Cecill-C-v1			FSF		
L194	CERN-OHL-1.1	SPDX				
L195	CERN-OHL-1.2	SPDX				
L196	CERN-OHL-P-2.0	SPDX			OSI	
L197	CERN-OHL-S-2.0	SPDX			OSI	
L198	CERN-OHL-W-2.0	SPDX			OSI	
L199	CFITSIO	SPDX				
L200	check-cvs	SPDX				

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L201	checkmk	SPDX				
L202	ClarifiedArtistic					GNU
L203	ClArtistic	SPDX		FSF		
L204	clearbsd			5 -		GNU
L205	Clips	SPDX				
L206	CMU-Mach	SPDX				
L207	CMU-Mach-nodoc	SPDX				
L208	CNRI			FSF		
L209	CNRI-Jython	SPDX				
L210	CNRI-Python	SPDX			OSI	
L211	CNRI-Python-GPL-Compatible	SPDX				
L212	COIL-1.0	SPDX				
L213	comclause					GNU
L214	CommonPublicLicense10					GNU
L215	Commons-Clause			FSF		
L216	Community-Spec-1.0	SPDX				
L217	Condor					GNU
L218	Condor-1.1	SPDX		FSF		
L219	copyleft-next-0.3.0	SPDX				
L220	copyleft-next-0.3.1	SPDX				
L221	CorkforkPL			FSF		
L222	Cornell-Lossless-JPEG	SPDX				
L223	CPAL					GNU
L224	CPAL-1.0	SPDX	DFSG	FSF	OSI	
L225	CPL-1.0	SPDX	DFSG	FSF	OSI	
L226	cpol					GNU
L227	CPOL-1.02	SPDX		FSF		
L228	Cronyx	SPDX				
L229	Crossword	SPDX				
L230	CryptixGeneralLicense					GNU
L231	CryptixGL			FSF		
L232	CrystalStacker	SPDX				
L233	CUA-OPL-1.0	SPDX				
L234	Cube	SPDX				
L235	curl	SPDX		FSF		
'						

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L236	cvw				OSI	
L237	D-FSL-1.0	SPDX				
L238	DBG-3.0			FSF		
L239	DEC-3-Clause	SPDX				
L240	DejaVu			FSF		
L241	Design-Science-L			FSF		
L242	diffmark	SPDX				
L243	DL-DE-BY-2.0	SPDX				
L244	DL-DE-ZERO-2.0	SPDX				
L245	DOC	SPDX				
L246	DOR					GNU
L247	Dotseqn	SPDX				
L248	DRL-1.0	SPDX				
L249	DRL-1.1	SPDX				
L250	DSDP	SPDX				
L251	dtoa	SPDX				
L252	dvipdfm	SPDX				
L253	ECL-1.0	SPDX				
L254	ECL-2.0	SPDX		FSF	OSI	
L255	ECos-2.0			FSF	OSI	
L256	eCos11					GNU
L257	EFL-1.0	SPDX			OSI	
L258	EFL-2.0	SPDX		FSF	OSI	
L259	eGenix	SPDX				
L260	Eiffel					GNU
L261	Elastic-2.0	SPDX				
L262	Entessa	SPDX				
L263	EPICS	SPDX		FSF		
L264	EPL					GNU
L265	EPL-1.0	SPDX	DFSG	FSF	OSI	
L266	EPL-2.0	SPDX		FSF	OSI	
L267	EPL2					GNU
L268	ErlPL-1.1	SPDX		FSF		
L269	etalab-2.0	SPDX				
L270	EUDatagrid	SPDX		FSF	OSI	GNU

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L272 EUPL-1.1 SPDX FSF OSI L273 EUPL-1.2 SPDX OSI OSI L274 Eurosym SPDX SPDX OSI L275 Expat FSF GNU L276 EZ-Publish-Professional FSF FSF L277 Fair SPDX FSF GNU L278 FAL DFSG FSF GNU L280 fdk SPDX FSF GNU L281 FDK-AAC SPDX FSF GNU L282 Ferguson-Twofish SPDX FSF GNU L283 Frameworx-1.0 SPDX FSF GNU L284 FreeBSD-DL FSF FSF GNU L285 FreeBSD-DC SPDX FSF GNU L286 FreeBage SPDX FSF GNU L289 freetype SPDX FSF GNU L299 FSFAP-no-warranty-disclaimer SPDX <td< th=""><th>L271</th><th>EUPL-1.0</th><th>SPDX</th><th></th><th></th><th></th><th></th></td<>	L271	EUPL-1.0	SPDX				
L274 Eurosym	L272	EUPL-1.1	SPDX		FSF	OSI	
L276 Expat FSF GNU L276 EZ-Publish-Professional FSF GNU L277 Fair SPDX FSF GNU L278 FAL DFSG GNU GNU L279 FBM SPDX GNU GNU L280 fdk GNU GNU GNU L281 FDK-AAC SPDX GNU GNU L282 Ferguson-Twofish SPDX GNU GNU L283 Frameworx-1.0 SPDX FSF GNU L284 FreeBSD FSPDX FSF GNU L285 FreeBSD-DL FSPDX FSF GNU L286 FreeImage SPDX FSF GNU L287 FreeImage SPDX FSF GNU L298 freetype SPDX FSF GNU L299 FSFAP-no-warranty-disclaimer SPDX SPDX FSF L294 FSFULLR SPDX SPDX	L273	EUPL-1.2	SPDX			OSI	
L276 EZ-Publish-Professional SPDX FSF L277 Fair SPDX L278 FAL DFSG GNU L280 fdlk SPDX L281 FDK-AAC SPDX L282 Ferguson-Twofish SPDX L283 Frameworx-1.0 SPDX L284 FreeBSD GNU L285 FreeBSD-DL FSF L286 FreeBSD-DC SPDX L287 FreeImage SPDX L288 Freely-Redistributable FSF L290 FSFAP SPDX FSF L290 FSFULLR SPDX L291 FSFAP-no-warranty-disclaimer SPDX L292 FSFULLR SPDX L294 FSFULLRWD SPDX L295 FTL SPDX L296 Furuseth SPDX L297 fwlw SPDX L298 GCR-docs SPDX L299 GD SPDX L299 GD SPDX L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-on-invariants-or-later SPDX L303 GFDL-1.1-on-invariants-or-later SPDX L304 GFDL-1.1-on-invariants-or-later SPDX L305 GFDL-1.1-on-invariants-or-later SPDX L306 GFDL-1.1-on-invariants-or-later SPDX L307 GFDL-1.1-on-invariants-or-later SPDX L308 GFDL-1.1-on-invariants-or-later SPDX L309 GFDL-1.1-on-invariants-or-later SPDX L306 GFDL-1.1-on-invariants-or-later SPDX L307 GFDL-1.1-on-invariants-or-later SPDX L308 GFDL-1.1-on-invariants-or-later SPDX L309 GFDL-1.1-on-invariants-or-later SPDX L309 GFDL-1.1-on-invariants-or-later SPDX L300 GFDL-1.1-on-invariants-or-later SPDX	L274	Eurosym	SPDX				
L277 Fair SPDX DFSG Image: Control of the control	L275	Expat			FSF		GNU
L278 FAL SPDX GRU L279 FBM SPDX GRU L280 fdk GRU GRU L281 FDK-AAC SPDX GRU L282 Ferguson-Twofish SPDX GRU L283 Frameworx-1.0 SPDX GRU L284 FreeBSD GRU FSF L285 FreeBSD-DC SPDX FSF L286 FreeBSD-DOC SPDX FSF L287 FreeImage SPDX FSF L289 freetype FSF GNU L290 FSFAP SPDX FSF L291 FSFAP-no-warranty-disclaimer SPDX FSF L292 FSFUL SPDX FSF L293 FSFULR SPDX FSF L294 FSFULRWD SPDX FSF L295 FTL SPDX FSF L296 Furuseth SPDX FSF L299 GCR-docs	L276	EZ-Publish-Professional			FSF		
L279 FBM SPDX GNU L280 fdk GNU L281 FDK-AAC SPDX GNU L282 Ferguson-Twofish SPDX GNU L283 Frameworx-1.0 SPDX GNU L284 FreeBSD GNU FSF L285 FreeBSD-DOC SPDX FSF L286 FreeBSD-DOC SPDX FSF L287 FreeImage SPDX FSF L289 freetype FSF GNU L289 freetype FSF GNU L290 FSFAP SPDX FSF L291 FSFAP-no-warranty-disclaimer SPDX FSF L292 FSFULR SPDX FSF L293 FSFULR SPDX FSF L294 FSFULRWD SPDX FSF L295 FTL SPDX FSF L296 Furuseth SPDX FSF L298 GCR-docs SPDX	L277	Fair	SPDX				
L280 fdk SPDX GNU L281 FDK-AAC SPDX GNU L282 Ferguson-Twofish SPDX GNU L283 Frameworx-1.0 SPDX GNU L284 FreeBSD GNU FSF L285 FreeBSD-DOC SPDX FSF L286 FreeBSD-DOC SPDX FSF L287 FreeImage SPDX FSF L289 freetype FSF GNU L290 FSFAP SPDX FSF L291 FSFAP-no-warranty-disclaimer SPDX FSF L292 FSFUL SPDX FSF L293 FSFULR SPDX FSF L294 FSFULRWD SPDX FSF L295 FTL SPDX FSF L296 Furuseth SPDX FSF L297 fwlw SPDX FSP L298 GCR-docs SPDX FSP L300 GFDL-1.	L278	FAL		DFSG			
L281 FDK-AAC SPDX L <	L279	FBM	SPDX				
L282 Ferguson-Twofish SPDX Image: SPDX <td< td=""><td>L280</td><td>fdk</td><td></td><td></td><td></td><td></td><td>GNU</td></td<>	L280	fdk					GNU
L283 Frameworx-1.0 SPDX GNU L284 FreeBSD GNU L285 FreeBSD-DL FSF L286 FreeBSD-DOC SPDX L287 FreeImage SPDX L288 Freely-Redistributable FSF L289 freetype GNU L290 FSFAP SPDX L291 FSFAP-no-warranty-disclaimer SPDX L292 FSFUL SPDX L293 FSFULLR SPDX L294 FSFULLRWD SPDX L295 FTL SPDX L296 Furuseth SPDX L297 fwlw SPDX L298 GCR-docs SPDX L299 GD SPDX L300 GFDL-1.1-invariants-or-later SPDX L301 GFDL-1.1-no-invariants-or-later SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX	L281	FDK-AAC	SPDX				
L284 FreeBSD GNU L285 FreeBSD-DL FSF L286 FreeBSD-DOC SPDX L287 FreeImage SPDX L288 Freely-Redistributable FSF L289 freetype SPDX L290 FSFAP SPDX L291 FSFAP-no-warranty-disclaimer SPDX L292 FSFUL SPDX L293 FSFULLR SPDX L294 FSFULLRWD SPDX L295 FTL SPDX L296 Furuseth SPDX L297 fwlw SPDX L298 GCR-docs SPDX L299 GD SPDX L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L303 GFDL-1.1-on-invariants-or-later SPDX L304 GFDL-1.1-only SPDX	L282	Ferguson-Twofish	SPDX				
L285 FreeBSD-DL SPDX FSF L286 FreeBSD-DOC SPDX FSF L287 FreeImage SPDX FSF L288 Freely-Redistributable FSF FSF GNU FSF GNU GNU L289 freetype GNU	L283	Frameworx-1.0	SPDX				
L286 FreeBSD-DOC SPDX Image Image Image <td< td=""><td>L284</td><td>FreeBSD</td><td></td><td></td><td></td><td></td><td>GNU</td></td<>	L284	FreeBSD					GNU
L287 FreeImage SPDX FSF L288 Freely-Redistributable FSF GNU L289 freetype GNU L290 FSFAP SPDX FSF L291 FSFAP-no-warranty-disclaimer SPDX FSF L292 FSFULL SPDX FSF L293 FSFULLR SPDX FSF L294 FSFULLRWD SPDX FSF L295 FTL SPDX FSF L296 Furuseth SPDX FSF L297 fwlw SPDX FSF L298 GCR-docs SPDX FSF L300 GFDL-1.1-invariants-only SPDX FSF L301 GFDL-1.1-invariants-or-later SPDX FSF L303 GFDL-1.1-no-invariants-or-later SPDX FSF L304 GFDL-1.1-only SPDX FSF	L285	FreeBSD-DL			FSF		
L288 Freely-Redistributable FSF L289 freetype GNU L290 FSFAP SPDX FSF L291 FSFAP-no-warranty-disclaimer SPDX FSF L292 FSFUL SPDX SPDX L293 FSFULLR SPDX FSF L294 FSFULLRWD SPDX FSF L295 FTL SPDX FSF L296 Furuseth SPDX FSF L297 fwlw SPDX SPDX L298 GCR-docs SPDX SPDX L300 GFDL-1.1-invariants-only SPDX SPDX L301 GFDL-1.1-invariants-or-later SPDX SPDX L302 GFDL-1.1-no-invariants-or-later SPDX FSF L303 GFDL-1.1-olly SPDX FSF	L286	FreeBSD-DOC	SPDX				
L289 freetype SPDX FSF L290 FSFAP SPDX FSF L291 FSFAP-no-warranty-disclaimer SPDX FSF L292 FSFUL SPDX SPDX L293 FSFULLR SPDX FSF L294 FSFULLRWD SPDX FSF L295 FTL SPDX FSF L296 Furuseth SPDX FSF L297 fwlw SPDX SPDX L298 GCR-docs SPDX SPDX L300 GFDL-1.1-invariants-only SPDX SPDX L301 GFDL-1.1-invariants-or-later SPDX SPDX L302 GFDL-1.1-no-invariants-or-later SPDX FSF L303 GFDL-1.1-no-invariants-or-later SPDX FSF	L287	FreeImage	SPDX				
L290 FSFAP SPDX FSF L291 FSFAP-no-warranty-disclaimer SPDX SPDX L292 FSFUL SPDX SPDX L293 FSFULLR SPDX FSF L294 FSFULLRWD SPDX FSF L295 FTL SPDX FSF L296 Furuseth SPDX FSF L297 fwlw SPDX SPDX L298 GCR-docs SPDX SPDX L300 GFDL-1.1-invariants-only SPDX SPDX L301 GFDL-1.1-invariants-or-later SPDX SPDX L302 GFDL-1.1-no-invariants-or-later SPDX FSF L303 GFDL-1.1-no-invariants-or-later SPDX FSF	L288	Freely-Redistributable			FSF		
L291 FSFAP-no-warranty-disclaimer SPDX L292 FSFUL SPDX L293 FSFULLR SPDX L294 FSFULLRWD SPDX L295 FTL SPDX L296 Furuseth SPDX L297 fwlw SPDX L298 GCR-docs SPDX L299 GD SPDX L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX	L289	freetype					GNU
L292 FSFUL SPDX L293 FSFULLR SPDX L294 FSFULLRWD SPDX L295 FTL SPDX L296 Furuseth SPDX L297 fwlw SPDX L298 GCR-docs SPDX L299 GD SPDX L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX	L290	FSFAP	SPDX		FSF		
L293 FSFULLR SPDX Image: SPDX series of the content of the conten	L291	FSFAP-no-warranty-disclaimer	SPDX				
L294 FSFULLRWD SPDX FSF L295 FTL SPDX FSF L296 Furuseth SPDX FSF L297 fwlw SPDX FSF L298 GCR-docs SPDX FSF L299 GD SPDX FSF L300 GFDL-1.1-invariants-only SPDX FSF L301 GFDL-1.1-invariants-or-later SPDX FSF L302 GFDL-1.1-no-invariants-or-later SPDX FSF L304 GFDL-1.1-only SPDX FSF	L292	FSFUL	SPDX				
L295 FTL SPDX FSF L296 Furuseth SPDX FSF L297 fwlw SPDX FSF L298 GCR-docs SPDX FSF L299 GD SPDX FSF L300 GFDL-1.1-invariants-only SPDX FSF L301 GFDL-1.1-invariants-or-later SPDX FSF L302 GFDL-1.1-no-invariants-or-later SPDX FSF L303 GFDL-1.1-no-invariants-or-later SPDX FSF L304 GFDL-1.1-only SPDX FSF	L293	FSFULLR	SPDX				
L296 Furuseth SPDX L297 fwlw SPDX L298 GCR-docs SPDX L299 GD SPDX L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX	L294	FSFULLRWD	SPDX				
L297 fwlw SPDX L298 GCR-docs SPDX L299 GD SPDX L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX FSF	L295	FTL	SPDX		FSF		
L298 GCR-docs SPDX L299 GD SPDX L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX FSF	L296	Furuseth	SPDX				
L299 GD SPDX L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX FSF	L297	fwlw	SPDX				
L300 GFDL-1.1-invariants-only SPDX L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX FSF	L298	GCR-docs	SPDX				
L301 GFDL-1.1-invariants-or-later SPDX L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX FSF	L299	GD	SPDX				
L302 GFDL-1.1-no-invariants-only SPDX L303 GFDL-1.1-no-invariants-or-later SPDX L304 GFDL-1.1-only SPDX FSF	L300	GFDL-1.1-invariants-only	SPDX				
L303 GFDL-1.1-no-invariants-or-later SPDX SPDX GFDL-1.1-only SPDX FSF	L301	GFDL-1.1-invariants-or-later	SPDX				
L304 GFDL-1.1-only SPDX FSF	L302	GFDL-1.1-no-invariants-only	SPDX				
	L303	GFDL-1.1-no-invariants-or-later	SPDX				
L305 GFDL-1.1-or-later SPDX FSF	L304	GFDL-1.1-only	SPDX		FSF		
	L305	GFDL-1.1-or-later	SPDX		FSF		

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L306	GFDL-1.2-invariants-only	SPDX				
L307	GFDL-1.2-invariants-or-later	SPDX				
L308	GFDL-1.2-no-invariants-only	SPDX				
L309	GFDL-1.2-no-invariants-or-later	SPDX				
L310	GFDL-1.2-only	SPDX		FSF		
L311	GFDL-1.2-or-later	SPDX		FSF		
L312	GFDL-1.3		DFSG			
L313	GFDL-1.3-invariants-only	SPDX				
L314	GFDL-1.3-invariants-or-later	SPDX				
L315	GFDL-1.3-no-invariants-only	SPDX				
L316	GFDL-1.3-no-invariants-or-later	SPDX				
L317	GFDL-1.3-only	SPDX		FSF		
L318	GFDL-1.3-or-later	SPDX		FSF		
L319	Giftware	SPDX				
L320	GL2PS	SPDX		FSF		
L321	Glide	SPDX				
L322	Glulxe	SPDX				
L323	GLWTPL	SPDX				
L324	GNU-Verbatim-C-L			FSF		
L325	GNUAllPermissive					GNU
L326	GNUGPL					GNU
L327	GNUGPLv3					GNU
L328	gnuplot	SPDX		FSF		GNU
L329	GPL-1.0-only	SPDX		FSF		
L330	GPL-1.0-or-later	SPDX		FSF		
L331	GPL-2.0-only	SPDX		FSF		
L332	GPL-2.0-or-later	SPDX		FSF		
L333	GPL-3.0-only	SPDX	DFSG	FSF	OSI	
L334	GPL-3.0-or-later	SPDX		FSF		
L335	GPL-PA			FSF		
L336	GPLv2					GNU
L337	Graphics-Gems	SPDX				
L338	gSOAP-1.3b	SPDX				
L339	gtkbook	SPDX				
L340	HaskellReport	SPDX				

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L342	L341	hdparm	SPDX			
L344 hippocratic SPDX L345 Hippocratic-2.1 SPDX L346 HiP-1986 SPDX L347 HP-1989 SPDX L348 HPND SPDX ESF GNU L349 HPND-DEC SPDX L350 HPND-doc SPDX SPDX L351 HPND-doc-sell SPDX SPDX L352 HPND-export-US SPDX L353 HPND-export-US-modify SPDX L354 HPND-Fenneberg-Livingston SPDX L355 HPND-INRIA-IMAG SPDX L356 HPND-INRIA-IMAG SPDX L357 HPND-Markus-Kuhn SPDX L358 HPND-Markus-Kuhn SPDX L359 HPND-Bell-urriant SPDX L360 HPND-sell-urriant SPDX L361 HPND-sell-variant SPDX L362 HPND-sell-variant SPDX L363 HPND-sell-variant SPDX L364 HPND-UC SPDX L365 HTMLTIDY SPDX L366 IBM FSF GNU L367 IBM-pibs SPDX L368 IBMPL L369 ICU SPDX SPDX L369 ICU SPDX L369 ICU SPDX L360 ICU SPDX L360 ICU SPDX L361 IGND SPDX L362 IGND SPDX L363 IGND ICU SPDX L364 IGND SPDX L365 IGND ICU SPDX SPDX L366 IBM SPDX L367 IBM-pibs SPDX L368 IBMPL L369 ICU SPDX SPDX SPDX L369 ICU SPDX SPDX SPDX L371 IJG SPDX SPDX SPDX L372 IJG-short SPDX SPDX SPDX L373 ImageMagick SPDX SPDX SPDX L374 iMatix SPDX SPDX SPDX SPDX L375 ImageMagick SPDX SPDX SPDX L374 iMatix SPDX SPDX SPDX L374 iMatix SPDX SPDX SPDX SPDX L374 iMatix SPDX SPDX SPDX SPDX SPDX SPDX SPDX SPDX L374 iMatix SPDX SPDX	L342	HESSLA		FSF		GNU
L345	L343	Hipergate		FSF		
L346	L344	hippocratic				GNU
L347 HP-1989 SPDX FSF GNU L348 HPND SPDX FSF GNU L349 HPND-DEC SPDX FSF GNU L350 HPND-doc SPDX FSF GNU L351 HPND-doc-sell SPDX FSF GNU L352 HPND-export-US modify SPDX FSF GNU L353 HPND-export-US modify SPDX FSF GNU L354 HPND-export-US modify SPDX FSF GNU L355 HPND-export-US modify SPDX FSF GNU L354 HPND-export-US modify SPDX FSF GNU L355 HPND-INIA-IMAG SPDX FSF GNU L356 HPND-Markus-Kuhn SPDX FSF GNU L358 HPND-Pbmplus SPDX FSF GNU L360 HPND-sell-wariant-MIT-disclaimer SPDX FSF GNU L364 HPND-sell-variant-MIT-disclaimer SPDX	L345	Hippocratic-2.1	SPDX			
L348 HPND SPDX FSF GNU L349 HPND-DEC SPDX Image Magick GNU L350 HPND-doc SPDX Image Magick Image	L346	HP-1986	SPDX			
L349 HPND-DEC SPDX L350 HPND-doc SPDX L351 HPND-doc-sell SPDX L352 HPND-export-US SPDX L353 HPND-export-US-modify SPDX L354 HPND-export-US-modify SPDX L355 HPND-Fenneberg-Livingston SPDX L355 HPND-INRIA-IMAG SPDX L356 HPND-Markus-Kuhn SPDX L357 HPND-Markus-Kuhn SPDX L358 HPND-MIT-disclaimer SPDX L359 HPND-Pbmplus SPDX L360 HPND-sell-wiriant SPDX L361 HPND-sell-variant SPDX L362 HPND-sell-variant-MIT-disclaimer SPDX L363 HPND-sell-variant-MIT-disclaimer SPDX L364 HPND-UC SPDX L365 HTMLTIDY SPDX L366 IBM FSF L369 ICU SPDX L370 IEC-Code-Components-EULA SPDX	L347	HP-1989	SPDX			
L350 HPND-doc SPDX Image: Record of the context of t	L348	HPND	SPDX	FSF		GNU
L351 HPND-doc-sell SPDX I	L349	HPND-DEC	SPDX			
L352 HPND-export-US SPDX L353 HPND-export-US-modify SPDX L354 HPND-Fenneberg-Livingston SPDX L355 HPND-INRIA-IMAG SPDX L356 HPND-Kevlin-Henney SPDX L357 HPND-Markus-Kuhn SPDX L358 HPND-MIT-disclaimer SPDX L359 HPND-Pbmplus SPDX L360 HPND-sell-MIT-disclaimer-xserver SPDX L361 HPND-sell-variant SPDX L362 HPND-sell-variant-MIT-disclaimer SPDX L363 HPND-sell-variant-MIT-disclaimer SPDX L364 HPND-UC SPDX L365 HTMLTIDY SPDX L366 IBM FSF L367 IBM-pibs SPDX L368 IBMPL GNU L370 IEC-Code-Components-EULA SPDX L371 IJG SPDX L372 IJG-short SPDX L373 ImageMagick SPDX L374 iMatix SPDX FSF	L350	HPND-doc	SPDX			
L353 HPND-export-US-modify SPDX L354 HPND-Fenneberg-Livingston SPDX L355 HPND-INRIA-IMAG SPDX L356 HPND-Kevlin-Henney SPDX L357 HPND-Markus-Kuhn SPDX L358 HPND-MIT-disclaimer SPDX L359 HPND-Pbmplus SPDX L360 HPND-sell-MIT-disclaimer -xserver SPDX L361 HPND-sell-regexpr SPDX L362 HPND-sell-variant SPDX L363 HPND-sell-variant-MIT-disclaimer SPDX L364 HPND-UC SPDX L365 HTMLTIDY SPDX L366 IBM FSF L367 IBM-pibs SPDX L368 IBMPL GNU L369 ICU SPDX L371 IJG SPDX L372 IJG-short SPDX L373 ImageMagick SPDX L374 iMatix SPDX FSF	L351	HPND-doc-sell	SPDX			
L354 HPND-Fenneberg-Livingston SPDX L355 HPND-INRIA-IMAG SPDX L356 HPND-Kevlin-Henney SPDX L357 HPND-Markus-Kuhn SPDX L358 HPND-MIT-disclaimer SPDX L359 HPND-Pbmplus SPDX L360 HPND-sell-MIT-disclaimer-xserver SPDX L361 HPND-sell-regexpr SPDX L362 HPND-sell-variant SPDX L363 HPND-sell-variant-MIT-disclaimer SPDX L364 HPND-UC SPDX L365 HTMLTIDY SPDX L366 IBM FSF L367 IBM-pibs SPDX L368 IBMPL GNU L369 ICU SPDX OSI L370 IEC-Code-Components-EULA SPDX FSF GNU L372 IJG-short SPDX FSF GNU L373 ImageMagick SPDX FSF GNU	L352	HPND-export-US	SPDX			
L355 HPND-INRIA-IMAG SPDX L356 HPND-Kevlin-Henney SPDX L357 HPND-Markus-Kuhn SPDX L358 HPND-MIT-disclaimer SPDX L359 HPND-Pbmplus SPDX L360 HPND-sell-MIT-disclaimer-xserver SPDX L361 HPND-sell-variant SPDX L362 HPND-sell-variant SPDX L363 HPND-sell-variant-MIT-disclaimer SPDX L364 HPND-UC SPDX L365 HTMLTIDY SPDX L366 IBM FSF L367 IBM-pibs SPDX L368 IBMPL GNU L369 ICU SPDX L370 IEC-Code-Components-EULA SPDX L371 IJG SPDX L372 IJG-short SPDX L373 ImageMagick SPDX L374 iMatix SPDX FSF	L353	HPND-export-US-modify	SPDX			
L356 HPND-Kevlin-Henney SPDX L357 HPND-Markus-Kuhn SPDX L358 HPND-MIT-disclaimer SPDX L359 HPND-Pbmplus SPDX L360 HPND-sell-MIT-disclaimer-xserver SPDX L361 HPND-sell-regexpr SPDX L362 HPND-sell-variant SPDX L363 HPND-sell-variant-MIT-disclaimer SPDX L364 HPND-UC SPDX L365 HTMLTIDY SPDX L366 IBM FSF L367 IBM-pibs SPDX L368 IBMPL GNU L369 ICU SPDX L370 IEC-Code-Components-EULA SPDX L371 IJG SPDX L372 IJG-short SPDX L373 ImageMagick SPDX L374 iMatix SPDX FSF	L354	HPND-Fenneberg-Livingston	SPDX			
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L366 IBM SPDX FSF GNU L367 IBM-pibs SPDX GNU L368 IBMPL SPDX OSI L369 ICU SPDX OSI L370 IEC-Code-Components-EULA SPDX FSF GNU L371 IJG SPDX FSF GNU L372 IJG-short SPDX SPDX FSF GNU L373 ImageMagick SPDX FSF GNU L374 iMatix SPDX FSF GNU	L364	HPND-UC	SPDX			
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L374 iMatix SPDX FSF GNU	L372	IJG-short	SPDX			
	L373	ImageMagick	SPDX			
L375 imlib GNU	L374	iMatix	SPDX	FSF		GNU
	L375	imlib				GNU

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L376	Imlib2	SPDX		FSF		
L377	Info-ZIP	SPDX		FSF		
L378	informal					GNU
L379	Inner-Net-2.0	SPDX				
L380	Intel	SPDX		FSF		GNU
L381	Intel-ACPI	SPDX		FSF		
L382	Interbase-1.0	SPDX				
L383	IPA	SPDX		FSF	OSI	
L384	IPL-1.0	SPDX	DFSG	FSF		
L385	ISC	SPDX	DFSG	FSF	OSI	GNU
L386	ISC-Veillard	SPDX				
L387	Jahia					GNU
L388	JahiaCSL			FSF		
L389	Jam	SPDX			OSI	
L390	JasPer-2.0	SPDX				
L391	josl					GNU
L392	JOSL-1.0			FSF		
L393	JPL-image	SPDX				
L394	JPNIC	SPDX				
L395	JSON	SPDX	DFSG	FSF		GNU
L396	Kastrup	SPDX				
L397	Kazlib	SPDX				
L398	Knuth-CTAN	SPDX				
L399	ksh93					GNU
L400	LAL-1.2	SPDX				
L401	LAL-1.3	SPDX		FSF		
L402	LaTeX ecfonts			FSF		
L403	Latex2e	SPDX				
L404	Latex2e-translated-notice	SPDX				
L405	Leptonica	SPDX				
L406	LGPL					GNU
L407	LGPL-2.0-only	SPDX		FSF	OSI	
L408	LGPL-2.0-or-later	SPDX		FSF		
L409	LGPL-2.1-only	SPDX		FSF		
L410	LGPL-2.1-or-later	SPDX		FSF		

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L411	LGPL-3.0-only	SPDX	DFSG	FSF	OSI	
L412	LGPL-3.0-or-later	SPDX		FSF		
L413	LGPLLR	SPDX		FSF		
L414	LGPLv3					GNU
L415	Lha			FSF		GNU
L416	Libpng	SPDX				
L417	libpng-2.0	SPDX				
L418	libselinux-1.0	SPDX				
L419	libtiff	SPDX				
L420	libutil-David-Nugent	SPDX				
L421	LiLiQ-P-1.1	SPDX			OSI	
L422	LiLiQ-R-1.1	SPDX			OSI	
L423	LiLiQ-Rplus-1.1	SPDX			OSI	
L424	LinkGrammarLicense			FSF		
L425	Linux-man-pages-1-para	SPDX				
L426	Linux-man-pages-copyleft	SPDX				
L427	Linux-man-pages-copyleft-2-para	SPDX				
L428	Linux-man-pages-copyleft-var	SPDX				
L429	Linux-OpenIB	SPDX				
L430	LLGPL			FSF		
L431	LOOP	SPDX				
L432	LPD-document	SPDX				
L433	LPL-1.0	SPDX				
L434	LPL-1.02	SPDX		FSF		
L435	LPPL-1.0	SPDX				
L436	LPPL-1.1	SPDX				
L437	LPPL-1.2	SPDX		FSF		
L438	LPPL-1.3a	SPDX		FSF		
L439	LPPL-1.3c	SPDX		FSF	OSI	
L440	lsof	SPDX				
L441	Lua license			FSF		
L442	lucent102					GNU
L443	Lucida-Bitmap-Fonts	SPDX				
L444	LZMA-SDK-9.11-to-9.20	SPDX				
L445	LZMA-SDK-9.22	SPDX				

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L447 Mackerras-3-Clause-acknowledgment SPDX L448 magaz SPDX L449 mailprio SPDX L450 MakeIndex SPDX L451 Martin-Birgmeier SPDX L452 McPhee-slideshow SPDX L453 metamail SPDX L454 Minpack SPDX L455 MirOS SPDX DFSG FSF OSI L456 MiT SPDX DFSG OSI L456 MiT SPDX DFSG OSI L457 Mir-advertising SPDX L458 MiT-advertising SPDX L459 MiT-CMU SPDX L460 MiT-enna SPDX L461 MiT-feh SPDX L462 MiT-feh SPDX L463 MiT-Modern-Variant SPDX L464 MiT-feh SPDX L465 MiT-doern-Variant SPDX L466 MiT-testregex SPDX L466 MiT-testregex SPDX L466 MiT-testregex SPDX L466 MiT-testregex SPDX L466 MiT-Wu SPDX L467 MiTNFA SPDX L468 MMiXware SPDX L468 MMiXware SPDX L470 ModifiedBSD L471 Motosoto SPDX SPDX L472 MPEG-SSG SPDX L473 mpi-permissive SPDX L474 mpich2 SPDX L475 MPL L476 MPL-1.0 SPDX FSF OSI L477 MPL-1.1 SPDX FSF OSI L478 MPL-2.0 SPDX SPDX L479 MPL-2.0 SPDX SPDX L480 mplus SPDX SPDX L480 mplus SPDX SPDX L480 mplus SPDX SPDX L480 mplus SPDX SPDX SPDX SPDX L480 mplus SPDX SP	L446	Mackerras-3-Clause	SPDX				
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L450 MakeIndex SPDX Idage	L449		SPDX				
L452 McPhee-slideshow SPDX L	L450		SPDX				
L453 metamail SPDX L k k L	L451	Martin-Birgmeier	SPDX				
L454 Minpack SPDX DFSG FSF OSI L455 MirOS SPDX DFSG FSF OSI L456 MIT SPDX DFSG OSI L457 MIT-0 SPDX OSI OSI L458 MIT-advertising SPDX USPDX USPDX <td>L452</td> <td>McPhee-slideshow</td> <td>SPDX</td> <td></td> <td></td> <td></td> <td></td>	L452	McPhee-slideshow	SPDX				
L455	L453	metamail	SPDX				
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L459 MIT-CMU SPDX <	L457	MIT-0	SPDX			OSI	
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L463 MIT-Modern-Variant SPDX	L461	MIT-feh	SPDX				
L464 MIT-open-group SPDX	L462	MIT-Festival	SPDX				
L465 MIT-testregex SPDX	L463	MIT-Modern-Variant	SPDX				
L466 MIT-Wu SPDX	L464	MIT-open-group	SPDX				
L467 MITNFA SPDX	L465	MIT-testregex	SPDX				
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L478 MPL-2.0 SPDX DFSG FSF OSI L479 MPL-2.0-no-copyleft-exception SPDX	L476	MPL-1.0	SPDX			OSI	
L479 MPL-2.0-no-copyleft-exception SPDX	L477	MPL-1.1	SPDX		FSF	OSI	
	L478	MPL-2.0	SPDX	DFSG	FSF	OSI	
L480 mplus SPDX	L479	MPL-2.0-no-copyleft-exception	SPDX				
	L480	mplus	SPDX				

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L482 MS-PL	L481	MS-LPL	SPDX			
L484 Ms-SS MTLL SPDX FSF L485 MULANPSL-1.0 SPDX L486 MulanPSL-2.0 SPDX OSI L488 Multics SPDX L489 Mup SPDX L490 NAIST-2003 SPDX L491 NASA SPDX L492 NASA-1.3 SPDX L493 Naumen SPDX L494 NBPL-1.0 SPDX L495 NCGL-UK-2.0 SPDX L496 NCSA SPDX L497 Net-SNMP SPDX L498 NetCDF SPDX L499 NetscapeJavaScript L500 newOpenLDAP L501 Newsletr SPDX L503 NICTA-1.0 SPDX L504 NikoSoft Group Public License L505 NIST-PD SPDX L506 NIST-PD-fallback SPDX L507 NIST-Software SPDX L508 NLOD-1.0 SPDX L509 NLOD-2.0 SPDX L511 Nokia SPDX FSF OSI GNU GNU C512 NoLicense L515 NoLicense SPDX L511 Nokia SPDX FSF OSI GNU C512 NoLicense C513 NOSL SPDX FSF OSI GNU C514 Noweb SPDX FSF OSI GNU C514 Noweb SPDX FSF OSI GNU C515 ONLICENSE C515 ONLICENSE C515 ONLICENSE C515 ONLICENSE C515 ONLICENSE SPDX SPDX C515 ONLICENSE SPDX FSF OSI GNU C515 ONLICENSE SPDX SP	L482	MS-PL	SPDX	FSF	OSI	
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L502 NGPL SPDX FSF OSI L503 NICTA-1.0 SPDX FSF OSI L504 NikoSoft Group Public License FSF FSF Image: SPDX L505 NIST-PD SPDX Image: SPDX <t< td=""><td>L500</td><td>newOpenLDAP</td><td></td><td></td><td></td><td>GNU</td></t<>	L500	newOpenLDAP				GNU
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L504 NikoSoft Group Public License FSF	L502	NGPL	SPDX	FSF	OSI	
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L509 NLOD-2.0 SPDX	L507	NIST-Software	SPDX			
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L514 Noweb SPDX	L512	NoLicense				GNU
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L515 NPL GNU	L514	Noweb	SPDX			
	L515	NPL				GNU

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L516	NPL-1.0	SPDX				
L517	NPL-1.1	SPDX		FSF		
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L519	NRL	SPDX				
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L536	OFL-1.1-no-RFN	SPDX				
L537	OFL-1.1-RFN	SPDX				
L538	OGC-1.0	SPDX				
L539	OGDL-Taiwan-1.0	SPDX				
L540	OGL-Canada-2.0	SPDX				
L541	OGL-UK-1.0	SPDX				
L542	OGL-UK-2.0	SPDX				
L543	OGL-UK-3.0	SPDX				
L544	OGTSL	SPDX			OSI	
L545	Old ksh93			FSF		
L546	Old-plan9			FSF		
L547	OLDAP-1.1	SPDX				
L548	OLDAP-1.2	SPDX				
L549	OLDAP-1.3	SPDX				
L550	OLDAP-1.4	SPDX				

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L551	OLDAP-2.0	SPDX				
L552	OLDAP-2.0.1	SPDX				
L553	OLDAP-2.1	SPDX				
L554	OLDAP-2.2	SPDX				
L555	OLDAP-2.2.1	SPDX				
L556	OLDAP-2.2.2	SPDX				
L557	OLDAP-2.3	SPDX		FSF		
L558	OLDAP-2.4	SPDX				
L559	OLDAP-2.5	SPDX				
L560	OLDAP-2.6	SPDX				
L561	OLDAP-2.7	SPDX		FSF		
L562	OLDAP-2.8	SPDX		FSF	OSI	
L563	oldOpenLDAP					GNU
L564	OLFL-1.3	SPDX			OSI	
L565	OML	SPDX				
L566	Open Publication License v1.0			FSF		
L567	OpenPBS-2.3	SPDX	DFSG			
L568	OpenPublicL					GNU
L569	OpenSSL	SPDX		FSF		GNU
L570	OpenSSL-standalone	SPDX				
L571	OpenVision	SPDX				
L572	OPL-1.0	SPDX	DFSG	FSF		
L573	OPL-UK-3.0	SPDX				
L574	OPUBL-1.0	SPDX				
L575	OriginalBSD					GNU
L576	OSET-PL-2.1	SPDX			OSI	
L577	OSL					GNU
L578	OSL-1.0	SPDX			OSI	
L579	OSL-1.1	SPDX	DFSG			
L580	OSL-2.0	SPDX				
L581	OSL-2.1	SPDX			OSI	
L582	OSL-3.0	SPDX		FSF	OSI	
L583	PADL	SPDX				
L584	Parity-6.0.0	SPDX				
L585	Parity-7.0.0	SPDX				

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L586	PCRE		FSF		
L587	PDDL-1.0	SPDX			
L588	Perl		FSF		
L589	PerlLicense				GNU
L590	Phorum				GNU
L591	Phorum-2.0		FSF		
L592	PHP		FSF		
L593	PHP-2.02		FSF		
L594	PHP-3.0	SPDX	FSF	OSI	
L595	PHP-3.01	SPDX	FSF	OSI	
L596	PINE		FSF		GNU
L597	Pixar	SPDX			
L598	Plan9				GNU
L599	Plexus	SPDX			
L600	pnmstitch	SPDX			
L601	PolyForm-Noncommercial-1.0.0	SPDX			
L602	PolyForm-Small-Business-1.0.0	SPDX			
L603	PostgreSQL	SPDX		OSI	
L604	PPL		FSF		GNU
L605	PPL3a				GNU
L606	PSF-2.0	SPDX		OSI	
L607	psfrag	SPDX			
L608	psutils	SPDX			
L609	PublicDomain		FSF		GNU
L610	Python		FSF		GNU
L611	Python-1.6a2		FSF		
L612	Python-1.6b1		FSF		
L613	Python-2.0	SPDX			
L614	Python-2.0.1	SPDX	FSF		
L615	Python-2.1.1		FSF		
L616	Python-2.3		FSF		
L617	Python-2.5		FSF		
L618	python-ldap	SPDX			
L619	PythonOld				GNU
L620	Qhull	SPDX			

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L621	QPL					GNU
L622	QPL-1.0	SPDX	DFSG	FSF	OSI	
L623	QPL-1.0-INRIA-2004	SPDX				
L624	radvd	SPDX				
L625	Rdisc	SPDX				
L626	Review:EJBCA-REV-ID-2			FSF		
L627	RHeCos-1.1	SPDX		FSF		
L628	RPL					GNU
L629	RPL-1.1	SPDX			OSI	
L630	RPL-1.3			FSF		
L631	RPL-1.5	SPDX			OSI	
L632	RPSL					GNU
L633	RPSL-1.0	SPDX	DFSG	FSF	OSI	
L634	RSA-MD	SPDX				
L635	RSCPL	SPDX			OSI	
L636	Ruby	SPDX		FSF		GNU
L637	SAX-PD	SPDX				
L638	SAX-PD-2.0	SPDX				
L639	Saxpath	SPDX				
L640	SCEA	SPDX				
L641	SchemeReport	SPDX				
L642	Scilab					GNU
L643	Scilab-old			FSF		
L644	SCOSL-3.0			FSF		
L645	Scratch			FSF		GNU
L646	SCSL-2.8			FSF		
L647	Sendmail	SPDX		FSF		
L648	Sendmail-8.23	SPDX				
L649	SGI-B-1.0	SPDX				
L650	SGI-B-1.1	SPDX				
L651	SGI-B-2.0	SPDX		FSF		
L652	SGI-OpenGL	SPDX				
L653	SGIFreeB					GNU
L654	SGP4	SPDX				
L655	SHL-0.5	SPDX				

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L656	SHL-0.51	SPDX				
L657	SimPL-2.0	SPDX			OSI	
	Simple Permissive With Rules Modified					
L658	Versions			FSF		
L659	SimpleM			FSF		
L660	SimplePermissive			FSF		
L661	SimplePermissiveNoNonWarranty			FSF		
L662	SimplePermissiveNonWarranty			FSF		
L663	SIP			FSF		
L664	SISSL	SPDX		FSF	OSI	GNU
L665	SISSL-1.2	SPDX		FSF		
L666	SL	SPDX				
L667	Sleepycat	SPDX		FSF	OSI	
L668	SML					GNU
L669	SMLNJ	SPDX		FSF		
L670	SMPPL	SPDX				
L671	SNIA	SPDX				
L672	snprintf	SPDX				
L673	softSurfer	SPDX				
L674	Soundex	SPDX				
L675	Spencer-86	SPDX		FSF		
L676	Spencer-94	SPDX				
L677	Spencer-99	SPDX				
L678	spin		DFSG			
L679	SPL					GNU
L680	SPL-1.0	SPDX		FSF	OSI	
L681	Squeak					GNU
L682	Squeak-old			FSF		
L683	ssh-keyscan	SPDX				
L684	SSH-OpenSSH	SPDX				
L685	SSH-short	SPDX				
L686	SSLeay-standalone	SPDX				
L687	SSPL-1.0	SPDX				
L688	SSSCFR-1.1			FSF		
L689	StandardMLofNJ					GNU

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L690	SugarCRM-1.1.3	SPDX				
L691	Sun-PPP	SPDX				
L692	SunCommunitySourceLicense					GNU
L693	SunPro	SPDX				
L694	SunSolarisSourceCode					GNU
L695	swisseph		DFSG			
L696	SWL	SPDX				
L697	swrule	SPDX				
L698	Symlinks	SPDX				
L699	TAPR-OHL-1.0	SPDX				
L700	TCL	SPDX		FSF		
L701	TCP-wrappers	SPDX				
L702	TermReadKey	SPDX				
L703	TGPPL-1.0	SPDX		FSF		
L704	THL-1.1			FSF		
L705	TMate	SPDX				
L706	TORQUE-1.1	SPDX				
L707	TOSL	SPDX				
L708	TPDL	SPDX				
L709	TPL-1.0	SPDX				
L710	TrueCrypt			FSF		
L711	TTWL	SPDX				
L712	TTYP0	SPDX				
L713	TU-Berlin-1.0	SPDX				
L714	TU-Berlin-2.0	SPDX				
L715	UCAR	SPDX				
L716	UCL-1.0	SPDX			OSI	
L717	ulem	SPDX				
L718	UMich-Merit	SPDX				
L719	Unicode					GNU
L720	Unicode-3.0	SPDX				
L721	Unicode-DFS-2012			FSF		
L722	Unicode-DFS-2015	SPDX			OSI	
L723	Unicode-DFS-2016	SPDX				
L724	Unicode-TOU	SPDX				

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LT26	L725	UnixCrypt	SPDX			
L728			SPDX		OSI	GNU
L729	L727	UPL				GNU
L730	L728	UPL-1.0	SPDX		OSI	
L731	L729	URT-RLE	SPDX			
L732	L730	UtahPublicLicense				GNU
L733	L731	Vim	SPDX			GNU
L734 VSL-1.0 SPDX GNU L735 W3C SPDX GNU L736 W3C-19980720 SPDX GNU L737 W3C-20150513 SPDX GNU L738 w3m SPDX GNU L739 Watcom GNU GNU L740 Watcom-1.0 SPDX GNU L741 WebM GNU GNU L742 Widget-Workshop SPDX GNU L743 Wsuipa SPDX GNU L744 WTFPL SPDX GNU L745 Wx GNU GNU L746 Wxwind GNU GNU L747 wxWindows GNU GNU L748 x-oz DFSG GNU L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU GNU L753 Xerox SPDX GNU L754 Xfig	L732	VOSTROM	SPDX			
L735 W3C SPDX GNU L736 W3C-19980720 SPDX OSI L737 W3C-20150513 SPDX OSI L738 w3m SPDX GNU L739 Watcom GNU GNU L740 Watcom-1.0 SPDX GNU L741 WebM GNU GNU L742 Widget-Workshop SPDX GNU L743 Wsuipa SPDX GNU L744 WTFPL SPDX GNU L746 Wxwind GNU GNU L747 wxWindows OSI OSI L748 x-oz DFSG OSI L749 X11 SPDX GNU L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU L752 Xdebug-1.03 SPDX GNU L753 Xerox SPDX GNU L754 Xfig SPDX GNU L755 XFree86-1.1 SPDX GNU	L733	VSL-0.1			OSI	
L736 W3C-19980720 SPDX OSI L737 W3C-20150513 SPDX OSI L738 w3m SPDX GNU L739 Watcom GNU GNU L740 Watcom-1.0 SPDX GNU L741 WebM SPDX GNU L742 Widget-Workshop SPDX GNU L743 Wsuipa SPDX GNU L744 WTFPL SPDX GNU L745 Wx GNU GNU L746 Wxwind GNU GNU L747 wxWindows DFSG GNU L748 x-oz DFSG GNU L749 X11 SPDX GNU L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU L752 Xdebug-1.03 SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev <t< td=""><td>L734</td><td>VSL-1.0</td><td>SPDX</td><td></td><td></td><td></td></t<>	L734	VSL-1.0	SPDX			
L737 W3C-20150513 SPDX OSI L738 w3m SPDX GNU L739 Watcom GNU L740 Watcom-1.0 SPDX GNU L741 WebM GNU GNU L742 Widget-Workshop SPDX GNU L743 Wsuipa SPDX GNU L744 WTFPL SPDX GNU L745 Wx GNU GNU L746 Wxwind GNU GNU L747 wxWindows DFSG GNU L749 X11 SPDX GNU L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU GNU L752 Xdebug-1.03 SPDX GNU L753 Xerox SPDX GNU L754 Xfig SPDX GNU L755 XFree86-1.1 SPDX GNU L757 xkeyboard-config-Zinoviev SPDX GNU L758 xlock SPDX GNU	L735	W3C	SPDX			GNU
L738 w3m SPDX GNU L739 Watcom SPDX GNU L740 Watcom-1.0 SPDX GNU L741 WebM GNU L742 Widget-Workshop SPDX GNU L743 Wsuipa SPDX GNU L744 WTFPL SPDX DFSG GNU L745 Wx GNU GNU L746 Wxwind GNU GNU L747 wxWindows DFSG GNU L748 x-oz DFSG GNU L749 X11 SPDX GNU L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU L752 Xdebug-1.03 SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX GNU	L736	W3C-19980720	SPDX			
L739 Watcom SPDX GNU L740 Watcom-1.0 SPDX GNU L741 WebM GNU GNU L742 Widget-Workshop SPDX GNU L743 Wsuipa SPDX GNU L744 WTFPL SPDX DFSG GNU L745 Wx GNU GNU L746 Wxwind GNU GNU L747 wxWindows DFSG OSI L748 x-oz DFSG GNU L749 X11 SPDX GNU L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU L752 Xdebug-1.03 SPDX GNU L753 Xerox SPDX GNU L754 Xfig SPDX GNU L755 XFree86-1.1 SPDX GNU L756 xinetd SPDX GNU L757 xkeyboard-config-Zinoviev SPDX GNU L758 xlock SPDX	L737	W3C-20150513	SPDX		OSI	
L740 Watcom-1.0 SPDX GNU L741 WebM GNU GNU L742 Widget-Workshop SPDX	L738	w3m	SPDX			
L741 WebM SPDX GNU L742 Widget-Workshop SPDX GNU L743 Wsuipa SPDX GNU L744 WTFPL SPDX DFSG GNU L745 Wx GNU GNU L746 Wxwind GNU GNU L747 wxWindows DFSG OSI L748 x-oz DFSG GNU L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU L752 Xdebug-1.03 SPDX GNU L753 Xerox SPDX GNU L754 Xfig SPDX GNU L755 XFree86-1.1 SPDX GNU L756 xinetd SPDX GNU L757 xkeyboard-config-Zinoviev SPDX GNU L758 xlock SPDX GNU	L739	Watcom				GNU
L742 Widget-Workshop SPDX	L740	Watcom-1.0	SPDX			
L743 Wsuipa SPDX GNU L744 WTFPL SPDX DFSG GNU L745 Wx GNU GNU L746 Wxwind GNU GNU L747 wxWindows DFSG OSI L748 x-oz DFSG COSI L749 X11 SPDX SPDX L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU L752 Xdebug-1.03 SPDX GNU L753 Xerox SPDX GNU L754 Xfig SPDX GNU L755 XFree86-1.1 SPDX GNU L756 xinetd SPDX GNU L757 xkeyboard-config-Zinoviev SPDX GNU L758 xlock SPDX GNU	L741	WebM				GNU
L744 WTFPL SPDX DFSG GNU L745 Wx GNU GNU L746 Wxwind GNU GNU L747 wxWindows DFSG OSI L748 x-oz DFSG GNU L749 X11 SPDX GNU L750 X11-distribute-modifications-variant SPDX GNU L751 X11License GNU L752 Xdebug-1.03 SPDX GNU L753 Xerox SPDX GNU L754 Xfig SPDX GNU L755 XFree86-1.1 SPDX GNU L756 xinetd SPDX GNU L757 xkeyboard-config-Zinoviev SPDX GNU L758 xlock SPDX GNU	L742	Widget-Workshop	SPDX			
L745 Wx GNU L746 Wxwind GNU L747 wxWindows DFSG L748 x-oz DFSG L749 X11 SPDX L750 X11-distribute-modifications-variant SPDX L751 X11License GNU L752 Xdebug-1.03 SPDX L753 Xerox SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock	L743	Wsuipa	SPDX			
L746 Wxwind Image: Common state of the common	L744	WTFPL	SPDX	DFSG		GNU
L747 wxWindows OSI L748 x-oz DFSG L749 X11 SPDX L750 X11-distribute-modifications-variant SPDX L751 X11License GNU L752 Xdebug-1.03 SPDX L753 Xerox SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock	L745	Wx				GNU
L748 x-oz DFSG L749 X11 SPDX L750 X11-distribute-modifications-variant SPDX L751 X11License GNU L752 Xdebug-1.03 SPDX L753 Xerox SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock SPDX	L746	Wxwind				GNU
L749 X11 SPDX L750 X11-distribute-modifications-variant SPDX L751 X11License GNU L752 Xdebug-1.03 SPDX L753 Xerox SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock SPDX	L747	wxWindows			OSI	
L750 X11-distribute-modifications-variant SPDX L751 X11License GNU L752 Xdebug-1.03 SPDX L753 Xerox SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock SPDX	L748	X-OZ		DFSG		
L751 X11License GNU L752 Xdebug-1.03 SPDX L753 Xerox SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock SPDX	L749	X11	SPDX			
L752 Xdebug-1.03 SPDX L753 Xerox SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock	L750	X11-distribute-modifications-variant	SPDX			
L753 Xerox SPDX L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock SPDX	L751	X11License				GNU
L754 Xfig SPDX L755 XFree86-1.1 SPDX L756 xinetd SPDX L757 xkeyboard-config-Zinoviev SPDX L758 xlock SPDX	L752	Xdebug-1.03	SPDX			
L755 XFree86-1.1 SPDX GNU L756 xinetd SPDX GNU L757 xkeyboard-config-Zinoviev SPDX SPDX L758 xlock SPDX SPDX	L753	Xerox	SPDX			
L756 xinetd SPDX GNU L757 xkeyboard-config-Zinoviev SPDX L758 xlock SPDX	L754	Xfig	SPDX			
L757 xkeyboard-config-Zinoviev SPDX L758 xlock SPDX	L755	XFree86-1.1	SPDX			
L758 xlock SPDX	L756	xinetd	SPDX			GNU
	L757	xkeyboard-config-Zinoviev	SPDX			
L759 Xnet SPDX OSI	L758	xlock	SPDX			
	L759	Xnet	SPDX		OSI	

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L760	xpp	SPDX			
L761	XSkat	SPDX			
L762	Yahoo				GNU
L763	YaST				GNU
L764	YPL-1.0	SPDX			
L765	YPL-1.1	SPDX			
L766	Zed	SPDX			
L767	Zeeff	SPDX			
L768	Zend				GNU
L769	Zend-2.0	SPDX			
L770	Zimbra				GNU
L771	Zimbra-1.3	SPDX			
L772	Zimbra-1.4	SPDX			
L773	Zlib	SPDX	DFSG	OSI	GNU
L774	zlib-acknowledgement	SPDX			
L775	Zope				GNU
L776	ZPL - 2.0			OSI	
L777	ZPL - 2.1			OSI	
L778	ZPL-1.1	SPDX			
L779	ZPL-2.0	SPDX			
L780	ZPL-2.1	SPDX			

Appendix B Primary literature reviewed, read in full and inclusion/exclusion criteria applied

Table B.1: List of literature with the inclusion/exclusion criteria applied.

Literature	Identifier	SPDX	DFSG	FSF	OSI	GNU
identifier	Identifier	SPDA	Drag	гог	OSI	GNU
L1	0BSD	SPDX			OSI	
L2	996			FSF		
L3	AAL	SPDX			OSI	
L4	Abstyles	SPDX				
L5	AcademicFreeLicense					GNU
L6	ACDL-1.0			FSF		
L7	ACEL			FSF		
L8	AdaCore-doc	SPDX				
L9	Adobe-2006	SPDX				
L10	Adobe-Display-PostScript	SPDX				
L11	Adobe-Glyph	SPDX				

Appendix C Primary literature reviewed, read in full and data extracted

Table C.1: Final list of literature and their data extraction

Literature						
identifier	Shortcode	SPDX	DFSG	FSF	OSI	GNU
L1	0BSD	SPDX			OSI	
L2	996			FSF		
L3	AAL	SPDX			OSI	
L4	Abstyles	SPDX				
L5	ACEL			FSF		
L6	AdaCore-doc	SPDX				
L7	Adobe-2006	SPDX				
L8	Adobe-Display-PostScript	SPDX				
L9	Adobe-Glyph	SPDX				
L10	Adobe-Utopia	SPDX				
L11	ADSL	SPDX				
L12	AFL-1.1	SPDX				
L13	AFL-1.2	SPDX				
L14	AFL-2.0	SPDX				
L15	AFL-2.1	SPDX				
L16	AFL-3.0	SPDX		FSF	OSI	
L17	Afmparse	SPDX				
L18	AGPL-1.0-only	SPDX		FSF		
L19	AGPL-1.0-or-later	SPDX		FSF		
L20	AGPL-3.0-only	SPDX	DFSG	FSF	OSI	
L21	AGPL-3.0-or-later	SPDX		FSF		
L22	Aladdin	SPDX		FSF		GNU
L23	Aladdin-9			FSF		
L24	AMDPLPA	SPDX				
L25	AML	SPDX				
L26	AML-glslang	SPDX				
L27	AMPAS	SPDX				

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L29	L28	ANTI-1.3			FSF		
L31	L29	ANTI-1.4			FSF		
L32	L30	ANTLR-PD	SPDX				
L33	L31	ANTLR-PD-fallback	SPDX				
L34	L32	Apache-1.0	SPDX		FSF		
L35	L33	Apache-1.1	SPDX		FSF	OSI	
L36 APL-1.0 SPDX OSI L37 App-s2p SPDX FSF L38 APSL-1.0 SPDX FSF L39 APSL-1.1 SPDX FSF L40 APSL-2.2 SPDX FSF L41 APSL-2.0 SPDX DFSG FSF L41 APSL-2.0 SPDX DFSG FSF L42 Arphic-1999 SPDX FSF OSI L43 Artistic-1.0 SPDX FSF OSI L44 Artistic-1.0-Perl SPDX FSF OSI L45 Artistic-2.0 SPDX FSF OSI L46 Artistic-2.0 SPDX FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX SPDX GNU L50 Baekmuk SPDX SPDX GNU L51 Bahyph SPDX SPDX GNU	L34	Apache-2.0	SPDX	DFSG	FSF	OSI	
L37 App-s2p SPDX FSF L38 APSL-1.0 SPDX FSF L39 APSL-1.1 SPDX FSF L40 APSL-1.2 SPDX FSF L41 APSL-2.0 SPDX DFSG FSF OSI L42 Arphic-1999 SPDX DFSG FSF OSI L42 Arphic-1999 SPDX FSF OSI L43 Artistic-1.0 SPDX FSF OSI L44 Artistic-1.0-cl8 SPDX FSF OSI L44 Artistic-2.0 SPDX DFSG FSF OSI L46 Artistic-2.0 SPDX DFSG FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX SPDX L48 ASWF-Digital-Assets-1.1 SPDX SPDX L49 ATTPublicLicense SPDX SPDX L50 Backmuk SPDX SPDX SPDX L51 Bahyph SPDX <	L35	APAFML	SPDX				
L38 APSL-1.0 SPDX FSF L39 APSL-1.1 SPDX FSF L40 APSL-1.2 SPDX FSF L41 APSL-2.0 SPDX DFSG FSF L42 Arphic-1999 SPDX FSF OSI L43 Artistic-1.0 SPDX FSF OSI L44 Artistic-1.0-cl8 SPDX FSF OSI L45 Artistic-2.0 SPDX FSF OSI L46 Artistic-2.0 SPDX FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX GNU L50 Baekmuk SPDX GNU L51 Bahyph SPDX GNU L52 Barr SPDX GNU L53 berypt-Solar-Designer SPDX GNU L54 Beerware SPDX GNU L55 BerkeleyDB GNU GNU L56 Bitstream-Charter SPDX GNU	L36	APL-1.0	SPDX			OSI	
L39 APSL-1.1 SPDX FSF L L40 APSL-1.2 SPDX FSF C L41 APSL-2.0 SPDX DFSG FSF OSI L42 Arphic-1999 SPDX FSF OSI L43 Artistic-1.0 cl8 SPDX FSF OSI L44 Artistic-1.0-Perl SPDX FSF OSI L45 Artistic-2.0 SPDX DFSG FSF OSI L46 Artistic-2.0 SPDX DFSG FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX GNU L50 Baekmuk SPDX GNU L51 Bahyph SPDX GNU L52 Barr SPDX GNU L53 bcrypt-Solar-Designer SPDX GNU L54 Beerware SPDX GNU L55 BerkeleyDB GNU GNU L56 Bitstream-Charter SPDX GNU <	L37	App-s2p	SPDX				
L40 APSL-1.2 SPDX FSF U L41 APSL-2.0 SPDX DFSG FSF OSI L42 Arphic-1999 SPDX FSF OSI L43 Artistic-1.0 Col8 SPDX FSF OSI L44 Artistic-1.0-Perl SPDX FSF OSI L45 Artistic-2.0 SPDX FSF OSI L46 Artistic-2.0 SPDX FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX GNU L50 Baekmuk SPDX GNU L51 Bahyph SPDX GNU L52 Barr SPDX GNU L53 bcrypt-Solar-Designer SPDX GNU L54 Beerware SPDX GNU L55 BerkeleyDB GNU L56 Bitstream-Charter SPDX GNU L58 BitTorrent-1.0 SPDX FSF L59 BitTorrent-1.1 SPDX <	L38	APSL-1.0	SPDX		FSF		
L41 APSL-2.0 SPDX DFSG FSF OSI L42 Arphic-1999 SPDX FSF OSI L43 Artistic-1.0 SPDX FSF OSI L44 Artistic-1.0-cl8 SPDX FSF OSI L45 Artistic-1.0-Perl SPDX FSF OSI L46 Artistic-2.0 SPDX DFSG FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX FSF GNU L50 Baekmuk SPDX FSF GNU L51 Bahyph SPDX FSF GNU L52 Barr SPDX FSF GNU L53 bcrypt-Solar-Designer SPDX FSF GNU L54 Beerware SPDX GNU L55 BerkeleyDB FSF GNU L56 Bitstream-Charter SPDX FSF L57 Bitstream-Vera SPDX FSF L59 BitTorrent-1.1 SP	L39	APSL-1.1	SPDX		FSF		
L42 Arphic-1999 SPDX FSF OSI L43 Artistic-1.0 SPDX FSF OSI L44 Artistic-1.0-cl8 SPDX FSF OSI L45 Artistic-1.0-Perl SPDX FSF OSI L46 Artistic-2.0 SPDX DFSG FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX FSF OSI L49 ATTPublicLicense SPDX FSF GNU L50 Baekmuk SPDX FSF GNU L51 Bahyph SPDX FSF GNU L52 Barr SPDX FSF GNU L53 bcrypt-Solar-Designer SPDX FSF GNU L54 Beerware SPDX FSF GNU L55 BerkeleyDB SPDX FSF GNU L56 Bitstream-Charter SPDX FSF FSF L58 BitTorrent-1.0 SPDX FSF FSF <	L40	APSL-1.2	SPDX		FSF		
L43 Artistic-1.0 SPDX FSF OSI L44 Artistic-1.0-cl8 SPDX FSF OSI L45 Artistic-1.0-Perl SPDX FSF OSI L46 Artistic-2.0 SPDX DFSG FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX FSF OSI L49 ATTPublicLicense SPDX FSF GNU L50 Baekmuk SPDX FSF GNU L51 Bahyph SPDX FSF GNU L52 Barr SPDX FSF GNU L53 bcrypt-Solar-Designer SPDX GNU GNU L54 Beerware SPDX GNU GNU L55 BerkeleyDB GNU GNU L56 Bitstream-Charter SPDX FSF GNU L58 BitTorrent-1.0 SPDX FSF GNU L59 BitTorrent-1.1 SPDX FSF GNU L60	L41	APSL-2.0	SPDX	DFSG	FSF	OSI	
L44 Artistic-1.0-cl8 SPDX FSF OSI L45 Artistic-1.0-Perl SPDX FSF OSI L46 Artistic-2.0 SPDX DFSG FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX FSF OSI L49 ATTPublicLicense SPDX FSF GNU L50 Baekmuk SPDX FSF GNU L51 Bahyph SPDX FSF GNU L52 Barr SPDX FSF GNU L53 bcrypt-Solar-Designer SPDX FSF GNU L54 Beerware SPDX GNU GNU L56 Bitstream-Charter SPDX FSF GNU L57 Bitstream-Vera SPDX FSF FSF L58 BitTorrent-1.0 SPDX FSF FSF L60 blessing SPDX OSI L61 BlueOak-1.0.0 SPDX OSI	L42	Arphic-1999	SPDX				
L45 Artistic-1.0-Perl SPDX FSF OSI L46 Artistic-2.0 SPDX DFSG FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX FSF OSI L49 ATTPublicLicense SPDX GNU L50 Baekmuk SPDX FSF GNU L51 Bahyph SPDX FSF GNU L52 Barr SPDX FSF GNU L53 bcrypt-Solar-Designer SPDX FSF GNU L54 Beerware SPDX GNU GNU L55 BerkeleyDB SPDX GNU GNU L56 Bitstream-Charter SPDX FSF GNU L57 Bitstream-Vera SPDX FSF FSF L58 BitTorrent-1.0 SPDX FSF FSF L60 blessing SPDX OSI OSI L61 BlueOak-1.0.0 SPDX OSI OSI	L43	Artistic-1.0	SPDX		FSF	OSI	
L46 Artistic-2.0 SPDX DFSG FSF OSI L47 ASWF-Digital-Assets-1.0 SPDX FSF OSI L48 ASWF-Digital-Assets-1.1 SPDX FSF OSI L49 ATTPublicLicense SPDX GNU L50 Baekmuk SPDX FSF GNU L51 Bahyph SPDX FSF GNU L52 Barr SPDX FSF GNU L53 bcrypt-Solar-Designer SPDX FSF GNU L54 Beerware SPDX GNU GNU L55 BerkeleyDB SPDX GNU GNU L56 Bitstream-Charter SPDX FSF GNU L57 Bitstream-Vera SPDX FSF FSF L59 BitTorrent-1.1 SPDX FSF FSF L60 blessing SPDX OSI L61 BlueOak-1.0.0 SPDX OSI	L44	Artistic-1.0-cl8	SPDX				
L47 ASWF-Digital-Assets-1.0 SPDX Image: SPDX of the content of th	L45	Artistic-1.0-Perl	SPDX		FSF	OSI	
L48 ASWF-Digital-Assets-1.1 SPDX GNU L49 ATTPublicLicense GNU L50 Baekmuk SPDX GNU L51 Bahyph SPDX GNU L52 Barr SPDX GNU L53 bcrypt-Solar-Designer SPDX GNU L54 Beerware SPDX GNU L55 BerkeleyDB GNU GNU L56 Bitstream-Charter SPDX GNU L57 Bitstream-Vera SPDX FSF L58 BitTorrent-1.0 SPDX FSF L59 BitTorrent-1.1 SPDX FSF L60 blessing SPDX OSI L61 BlueOak-1.0.0 SPDX OSI	L46	Artistic-2.0	SPDX	DFSG	FSF	OSI	
L49 ATTPublicLicense GNU L50 Baekmuk SPDX L51 Bahyph SPDX L52 Barr SPDX L53 bcrypt-Solar-Designer SPDX L54 Beerware SPDX L55 BerkeleyDB GNU L56 Bitstream-Charter SPDX L57 Bitstream-Vera SPDX L58 BitTorrent-1.0 SPDX L59 BitTorrent-1.1 SPDX L60 blessing SPDX L61 BlueOak-1.0.0 SPDX	L47	ASWF-Digital-Assets-1.0	SPDX				
L50 Baekmuk SPDX <t< td=""><td>L48</td><td>ASWF-Digital-Assets-1.1</td><td>SPDX</td><td></td><td></td><td></td><td></td></t<>	L48	ASWF-Digital-Assets-1.1	SPDX				
L51 Bahyph SPDX L52 Barr SPDX L53 bcrypt-Solar-Designer SPDX L54 Beerware SPDX L55 BerkeleyDB SPDX L56 Bitstream-Charter SPDX L57 Bitstream-Vera SPDX L58 BitTorrent-1.0 SPDX L59 BitTorrent-1.1 SPDX L60 blessing SPDX L61 BlueOak-1.0.0 SPDX	L49	ATTPublicLicense					GNU
L52 Barr SPDX L53 bcrypt-Solar-Designer SPDX L54 Beerware SPDX L55 BerkeleyDB GNU L56 Bitstream-Charter SPDX L57 Bitstream-Vera SPDX L58 BitTorrent-1.0 SPDX L59 BitTorrent-1.1 SPDX L60 blessing SPDX L61 BlueOak-1.0.0 SPDX OSI	L50	Baekmuk	SPDX				
L53 bcrypt-Solar-Designer SPDX L54 Beerware SPDX L55 BerkeleyDB SPDX L56 Bitstream-Charter SPDX L57 Bitstream-Vera SPDX L58 BitTorrent-1.0 SPDX L59 BitTorrent-1.1 SPDX L60 blessing SPDX L61 BlueOak-1.0.0 SPDX OSI	L51	Bahyph	SPDX				
L54 Beerware SPDX GNU L55 BerkeleyDB GNU L56 Bitstream-Charter SPDX L57 Bitstream-Vera SPDX L58 BitTorrent-1.0 SPDX L59 BitTorrent-1.1 SPDX L60 blessing SPDX L61 BlueOak-1.0.0 SPDX	L52	Barr	SPDX				
L55 BerkeleyDB L56 Bitstream-Charter SPDX L57 Bitstream-Vera SPDX L58 BitTorrent-1.0 SPDX L59 BitTorrent-1.1 SPDX FSF L60 blessing SPDX BlueOak-1.0.0 SPDX OSI	L53	bcrypt-Solar-Designer	SPDX				
L56 Bitstream-Charter SPDX L57 Bitstream-Vera SPDX L58 BitTorrent-1.0 SPDX L59 BitTorrent-1.1 SPDX L60 blessing SPDX L61 BlueOak-1.0.0 SPDX OSI	L54	Beerware	SPDX				
L57 Bitstream-Vera SPDX L58 BitTorrent-1.0 SPDX L59 BitTorrent-1.1 SPDX L60 blessing SPDX L61 BlueOak-1.0.0 SPDX OSI	L55	BerkeleyDB					GNU
L58 BitTorrent-1.0 SPDX FSF L59 BitTorrent-1.1 SPDX FSF L60 blessing SPDX OSI L61 BlueOak-1.0.0 SPDX OSI	L56	Bitstream-Charter	SPDX				
L59 BitTorrent-1.1 SPDX FSF L60 blessing SPDX SPDX OSI	L57	Bitstream-Vera	SPDX				
L60 blessing SPDX OSI	L58	BitTorrent-1.0	SPDX				
L61 BlueOak-1.0.0 SPDX OSI	L59	BitTorrent-1.1	SPDX		FSF		
	L60	blessing	SPDX				
	L61	BlueOak-1.0.0	SPDX			OSI	
LOZ BOERM-GU SPDX SPDX	L62	Boehm-GC	SPDX				

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L63	Borceux	SPDX			
L64	Brian-Gladman-2-Clause	SPDX			
L65	Brian-Gladman-3-Clause	SPDX			
L66	BSD-1-Clause	SPDX		FSF	OSI
L67	BSD-2-Clause	SPDX		FSF	
L68	BSD-2-Clause-Darwin	SPDX			
L69	BSD-2-Clause-FreeBSD			FSF	
L70	BSD-2-Clause-Patent	SPDX			OSI
L71	BSD-2-Clause-Views	SPDX			
L72	BSD-3-Clause	SPDX	DFSG	FSF	OSI
L73	BSD-3-Clause-acpica	SPDX			
L74	BSD-3-Clause-Attribution	SPDX			
L75	BSD-3-Clause-Clear	SPDX		FSF	
L76	BSD-3-Clause-flex	SPDX			
L77	BSD-3-Clause-HP	SPDX			
L78	BSD-3-Clause-LBNL	SPDX			OSI
L79	BSD-3-Clause-Modification	SPDX			
L80	BSD-3-Clause-No-Military-License	SPDX			
L81	BSD-3-Clause-No-Nuclear-License	SPDX			
1.00	BSD-3-Clause-No-Nuclear-License-	CDDV			
L82	2014	SPDX			
L83	BSD-3-Clause-No-Nuclear-Warranty	SPDX			
L84	BSD-3-Clause-Open-MPI	SPDX			
L85	BSD-3-Clause-Sun	SPDX			
L86	BSD-4-Clause	SPDX		FSF	
L87	BSD-4-Clause-Shortened	SPDX			
L88	BSD-4-Clause-UC	SPDX			
L89	BSD-4.3RENO	SPDX			
L90	BSD-4.3TAHOE	SPDX			
L91	BSD-Advertising-Acknowledgement	SPDX			
L92	BSD-Attribution-HPND-disclaimer	SPDX			
L93	BSD-Inferno-Nettverk	SPDX			
L94	BSD-Protection	SPDX			
L95	BSD-Source-beginning-file	SPDX			
L96	BSD-Source-Code	SPDX			

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L97	BSD-Systemics	SPDX		
L98	BSD-Systemics-W3Works	SPDX		
L99	BSL-1.0	SPDX	FSF	OSI
L100	BUSL-1.1	SPDX		
L101	bzip2-1.0.6	SPDX		
L102	C-UDA-1.0	SPDX		
L103	CAL-1.0	SPDX		OSI
L104	CAL-1.0-Combined-Work-Exception	SPDX		
L105	Caldera	SPDX		
L106	Caldera-no-preamble	SPDX		
L107	CATOSL-1.1	SPDX		
L108	CDDL-1.0	SPDX	FSF	
L109	CDDL-1.1	SPDX		
L110	CDLA-Permissive-1.0	SPDX		
L111	CDLA-Permissive-2.0	SPDX		
L112	CDLA-Sharing-1.0	SPDX		
L113	CECILL-1.0	SPDX		
L114	CECILL-1.1	SPDX		
L115	CECILL-2.0	SPDX	FSF	
L116	CECILL-2.1	SPDX		OSI
L117	CECILL-B	SPDX		
L118	Cecill-B-v1		FSF	
L119	CECILL-C	SPDX		
L120	Cecill-C-v1		FSF	
L121	CERN-OHL-1.1	SPDX		
L122	CERN-OHL-1.2	SPDX		
L123	CERN-OHL-P-2.0	SPDX		OSI
L124	CERN-OHL-S-2.0	SPDX		OSI
L125	CERN-OHL-W-2.0	SPDX		OSI
L126	CFITSIO	SPDX		
L127	check-cvs	SPDX		
L128	checkmk	SPDX		
L129	ClArtistic	SPDX	FSF	
L130	Clips	SPDX		
L131	CMU-Mach	SPDX		

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L132	CMU-Mach-nodoc	SPDX			
L133	CNRI			FSF	
L134	CNRI-Jython	SPDX			
L135	CNRI-Python	SPDX			OSI
L136	CNRI-Python-GPL-Compatible	SPDX			
L137	COIL-1.0	SPDX			
L138	Commons-Clause			FSF	
L139	Condor-1.1	SPDX		FSF	
L140	copyleft-next-0.3.0	SPDX			
L141	copyleft-next-0.3.1	SPDX			
L142	Cornell-Lossless-JPEG	SPDX			
L143	CPAL-1.0	SPDX	DFSG	FSF	OSI
L144	CPL-1.0	SPDX	DFSG	FSF	OSI
L145	CPOL-1.02	SPDX		FSF	
L146	Cronyx	SPDX			
L147	Crossword	SPDX			
L148	CryptixGL			FSF	
L149	CrystalStacker	SPDX			
L150	CUA-OPL-1.0	SPDX			
L151	Cube	SPDX			
L152	curl	SPDX		FSF	
L153	cvw				OSI
L154	D-FSL-1.0	SPDX			
L155	DEC-3-Clause	SPDX			
L156	Design-Science-L			FSF	
L157	diffmark	SPDX			
L158	DL-DE-BY-2.0	SPDX			
L159	DL-DE-ZERO-2.0	SPDX			
L160	DOC	SPDX			
L161	Dotseqn	SPDX			
L162	DRL-1.0	SPDX			
L163	DRL-1.1	SPDX			
L164	DSDP	SPDX			
L165	dtoa	SPDX			
L166	dvipdfm	SPDX			

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L167	ECL-1.0	SPDX				
L168	ECL-2.0	SPDX		FSF	OSI	
L169	ECos-2.0			FSF	OSI	
L170	EFL-1.0	SPDX			OSI	
L171	EFL-2.0	SPDX		FSF	OSI	
L172	eGenix	SPDX				
L173	Elastic-2.0	SPDX				
L174	Entessa	SPDX				
L175	EPICS	SPDX		FSF		
L176	EPL-1.0	SPDX	DFSG	FSF	OSI	
L177	EPL-2.0	SPDX		FSF	OSI	
L178	ErlPL-1.1	SPDX		FSF		
L179	EUDatagrid	SPDX		FSF	OSI	GNU
L180	EUPL-1.0	SPDX				
L181	EUPL-1.1	SPDX		FSF	OSI	
L182	EUPL-1.2	SPDX			OSI	
L183	Eurosym	SPDX				
L184	Expat			FSF		GNU
L185	Fair	SPDX				
L186	FAL		DFSG			
L187	FBM	SPDX				
L188	FDK-AAC	SPDX				
L189	Ferguson-Twofish	SPDX				
L190	Frameworx-1.0	SPDX				
L191	FreeBSD-DOC	SPDX				
L192	FreeImage	SPDX				
L193	FSFAP	SPDX		FSF		
L194	FSFAP-no-warranty-disclaimer	SPDX				
L195	FSFUL	SPDX				
L196	FSFULLR	SPDX				
L197	FSFULLRWD	SPDX				
L198	FTL	SPDX		FSF		
L199	Furuseth	SPDX				
L200	fwlw	SPDX				
L201	GCR-docs	SPDX				

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L202	GD	SPDX				
L203	Giftware	SPDX				
L204	GL2PS	SPDX		FSF		
L205	Glide	SPDX				
L206	Glulxe	SPDX				
L207	GLWTPL	SPDX				
L208	gnuplot	SPDX		FSF		GNU
L209	GPL-1.0-only	SPDX		FSF		
L210	GPL-1.0-or-later	SPDX		FSF		
L211	GPL-2.0-only	SPDX		FSF		
L212	GPL-2.0-or-later	SPDX		FSF		
L213	GPL-3.0-only	SPDX	DFSG	FSF	OSI	
L214	GPL-3.0-or-later	SPDX		FSF		
L215	GPL-PA			FSF		
L216	Graphics-Gems	SPDX				
L217	gSOAP-1.3b	SPDX				
L218	gtkbook	SPDX				
L219	HaskellReport	SPDX				
L220	hdparm	SPDX				
L221	HESSLA			FSF		GNU
L222	Hippocratic-2.1	SPDX				
L223	HP-1986	SPDX				
L224	HP-1989	SPDX				
L225	HPND	SPDX		FSF		GNU
L226	HPND-DEC	SPDX				
L227	HPND-doc	SPDX				
L228	HPND-doc-sell	SPDX				
L229	HPND-export-US	SPDX				
L230	HPND-export-US-modify	SPDX				
L231	HPND-Fenneberg-Livingston	SPDX				
L232	HPND-INRIA-IMAG	SPDX				
L233	HPND-Kevlin-Henney	SPDX				
L234	HPND-Markus-Kuhn	SPDX				
L235	HPND-MIT-disclaimer	SPDX				
L236	HPND-Pbmplus	SPDX				

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L237	HPND-sell-MIT-disclaimer-xserver	SPDX				
L238	HPND-sell-regexpr	SPDX				
L239	HPND-sell-variant	SPDX				
L240	HPND-sell-variant-MIT-disclaimer	SPDX				
L241	HPND-UC	SPDX				
L242	HTMLTIDY	SPDX				
L243	IBM-pibs	SPDX				
L244	IBMPL					GNU
L245	ICU	SPDX			OSI	
L246	IEC-Code-Components-EULA	SPDX				
L247	IJG	SPDX		FSF		GNU
L248	IJG-short	SPDX				
L249	ImageMagick	SPDX				
L250	iMatix	SPDX		FSF		GNU
L251	imlib					GNU
L252	Imlib2	SPDX		FSF		
L253	Info-ZIP	SPDX		FSF		
L254	informal					GNU
L255	Inner-Net-2.0	SPDX				
L256	Intel	SPDX		FSF		GNU
L257	Intel-ACPI	SPDX		FSF		
L258	Interbase-1.0	SPDX				
L259	IPA	SPDX		FSF	OSI	
L260	IPL-1.0	SPDX	DFSG	FSF		
L261	ISC	SPDX	DFSG	FSF	OSI	GNU
L262	ISC-Veillard	SPDX				
L263	JahiaCSL			FSF		
L264	Jam	SPDX			OSI	
L265	JasPer-2.0	SPDX				
L266	JOSL-1.0			FSF		
L267	JPL-image	SPDX				
L268	JPNIC	SPDX				
L269	JSON	SPDX	DFSG	FSF		GNU
L270	Kastrup	SPDX				
L271	Kazlib	SPDX				

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L272	Knuth-CTAN	SPDX				
L273	LAL-1.2	SPDX				
L274	LAL-1.3	SPDX		FSF		
L275	LaTeX ecfonts	21 211		FSF		
L276	Latex2e	SPDX				
L277	Latex2e-translated-notice	SPDX				
L278	Leptonica	SPDX				
L279	LGPL-2.0-only	SPDX		FSF	OSI	
L280	LGPL-2.0-or-later	SPDX		FSF		
L281	LGPL-2.1-only	SPDX		FSF		
L282	LGPL-2.1-or-later	SPDX		FSF		
L283	LGPL-3.0-only	SPDX	DFSG	FSF	OSI	
L284	LGPL-3.0-or-later	SPDX		FSF		
L285	LGPLLR	SPDX		FSF		
L286	Lha			FSF		GNU
L287	Libpng	SPDX				
L288	libpng-2.0	SPDX				
L289	libselinux-1.0	SPDX				
L290	libtiff	SPDX				
L291	libutil-David-Nugent	SPDX				
L292	LiLiQ-P-1.1	SPDX			OSI	
L293	LiLiQ-R-1.1	SPDX			OSI	
L294	LiLiQ-Rplus-1.1	SPDX			OSI	
L295	Linux-man-pages-1-para	SPDX				
L296	Linux-man-pages-copyleft	SPDX				
L297	Linux-man-pages-copyleft-2-para	SPDX				
L298	Linux-man-pages-copyleft-var	SPDX				
L299	Linux-OpenIB	SPDX				
L300	LLGPL			FSF		
L301	LOOP	SPDX				
L302	LPD-document	SPDX				
L303	LPL-1.0	SPDX				
L304	LPL-1.02	SPDX		FSF		
L305	LPPL-1.0	SPDX				
L306	LPPL-1.1	SPDX				

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L307	LPPL-1.2	SPDX		FSF		
L308	LPPL-1.3a	SPDX		FSF		
L309	LPPL-1.3c	SPDX		FSF	OSI	
L310	lsof	SPDX				
L311	Lua license			FSF		
L312	Lucida-Bitmap-Fonts	SPDX				
L313	LZMA-SDK-9.11-to-9.20	SPDX				
L314	LZMA-SDK-9.22	SPDX				
L315	Mackerras-3-Clause	SPDX				
L316	Mackerras-3-Clause-acknowledgment	SPDX				
L317	magaz	SPDX				
L318	mailprio	SPDX				
L319	MakeIndex	SPDX				
L320	Martin-Birgmeier	SPDX				
L321	McPhee-slideshow	SPDX				
L322	metamail	SPDX				
L323	Minpack	SPDX				
L324	MirOS	SPDX	DFSG	FSF	OSI	
L325	MIT	SPDX	DFSG		OSI	
L326	MIT-0	SPDX			OSI	
L327	MIT-advertising	SPDX				
L328	MIT-CMU	SPDX				
L329	MIT-enna	SPDX				
L330	MIT-feh	SPDX				
L331	MIT-Festival	SPDX				
L332	MIT-Modern-Variant	SPDX				
L333	MIT-open-group	SPDX				
L334	MIT-testregex	SPDX				
L335	MIT-Wu	SPDX				
L336	MITNFA	SPDX				
L337	MMIXware	SPDX				
L338	Modified X11			FSF		
L339	ModifiedBSD					GNU
L340	Motosoto	SPDX			OSI	
L341	MPEG-SSG	SPDX				

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L343	L342	mpi-permissive	SPDX				
L345 MPL-1.0 SPDX SPDX SPSF OSI L346 MPL-1.1 SPDX DFSG FSF OSI L347 MPL-2.0 SPDX SPDX DFSG FSF OSI L348 MPL-2.0-no-copyleft-exception SPDX SPDX L349 mplus SPDX SPDX L350 MS-LPL SPDX FSF OSI L351 MS-PL SPDX FSF OSI L352 MS-RL SPDX FSF OSI L353 MS-SS FSF OSI L354 MTLL SPDX FSF OSI L355 MulanPSL-1.0 SPDX SPDX L356 MulanPSL-2.0 SPDX OSI L357 Multics SPDX OSI L358 Mup SPDX SPDX L359 NAIST-2003 SPDX SPDX L360 NASA-1.3 SPDX FSF OSI L361 Naumen SPDX SPDX L362 NBPL-1.0 SPDX SPDX L363 NCGL-UK-2.0 SPDX FSF OSI L364 NCSA SPDX FSF OSI L365 Net-SNMP SPDX SPDX L366 NetCDF SPDX SPDX L367 NetscapeJavaScript SPDX SPDX L368 Newsletr SPDX SPDX L369 NGPL SPDX SPDX L370 NICTA-1.0 SPDX L371 NIST-PD SPDX SPDX L372 NIST-PD-fallback SPDX SPDX L373 NIST-Software SPDX SPDX L374 NLPL SPDX SPDX L375 Nokia SPDX SPDX SFSF OSI GNU L375 Nokia SPDX SPDX SPDX SPDX SPDX L375 Nokia SPDX SPDX SPDX SPDX L375 Nokia SPDX SPDX SPDX SPDX L375 Nokia SPDX SPDX SPDX SPDX SPDX L375 Nokia SPDX SPDX	L343	mpich2	SPDX				
L346 MPL-1.1 SPDX FSF OSI L347 MPL-2.0 SPDX DFSG FSF OSI L348 MPL-2.0-no-copyleft-exception SPDX FSF OSI L349 mplus SPDX FSF OSI L350 MS-LPL SPDX FSF OSI L351 MS-PL SPDX FSF OSI L352 MS-RL SPDX FSF OSI L353 Ms-SS FSF OSI FSF OSI L354 MTLL SPDX FSF OSI FSF OSI FSF OSI GNI FSF OSI GNI FSF OSI GNI G	L344	MPL			FSF		GNU
L347 MPL-2.0 SPDX DFSG FSF OS1 L348 MPL-2.0-no-copyleft-exception SPDX L349 mplus SPDX L350 MS-LPL SPDX FSF OS1 L351 MS-PL SPDX FSF OS1 L352 MS-RL SPDX FSF OS1 L353 Ms-SS FSF OS1 L354 MTLL SPDX FSF OS1 L355 MulanPSL-1.0 SPDX OS1 L356 MulanPSL-2.0 SPDX OS1 L357 Multics SPDX SPDX OS1 L358 Mup SPDX FSF L359 NAIST-2003 SPDX FSF L360 NASA-1.3 SPDX FSF L361 Naumen SPDX FSF L362 NBPL-1.0 SPDX FSF L363 NCGL-UK-2.0 SPDX L364 NCSA SPDX FSF OS1 GNU L365 Net-SNMP SPDX SPDX L366 NetCDF SPDX FSF OS1 GNU L368 Newsletr SPDX FSF OS1 GNU L369 NGPL SPDX FSF OS1 L370 NICTA-1.0 SPDX SPDX L371 NIST-PD SPDX SPDX L372 NIST-PD-fallback SPDX SPDX L373 NIST-Software SPDX SPDX L374 NLPL SPDX FSF OS1 GNU L375 Nokia SPDX FSF OS1 GNU L375 Nokia SPDX FSF OS1 GNU L375 SPDX SPDX SPDX SPDX L375 Nokia SPDX SPDX SPSF OS1 GNU L375 SPDX SPDX SPDX SPDX SPDX L375 Nokia SPDX SPDX SPDX SPDX L375 SPDX SPDX SPDX SPDX L375 SPDX SPDX SPDX SPDX SPDX L375 Nokia SPDX SPDX SPDX SPDX L375 SPDX SPDX SPDX SPDX SPDX L375 SPDX SPDX SPDX SPDX SPDX SPDX L375 SPDX SPDX SPDX SPDX SPDX SPDX L375 SPDX SPDX SPDX SPDX SPDX SPDX SPDX L375 SPDX SPDX	L345	MPL-1.0	SPDX			OSI	
L348 MPL-2.0-no-copyleft-exception SPDX Image: contract of the contr	L346	MPL-1.1	SPDX		FSF	OSI	
MS-LPL	L347	MPL-2.0	SPDX	DFSG	FSF	OSI	
L350	L348	MPL-2.0-no-copyleft-exception	SPDX				
L351 MS-PL SPDX FSF OSI L352 MS-RL SPDX FSF OSI L353 Ms-SS FSF OSI L354 MTLL SPDX FSF OSI L355 MulanPSL-1.0 SPDX OSI OSI L356 MulanPSL-2.0 SPDX OSI OSI L357 Multics SPDX OSI OSI L358 Mup SPDX OSI OSI L359 NAIST-2003 SPDX FSF OSI L360 NASA-1.3 SPDX FSF FSF L361 Naumen SPDX FSF OSI GNU L362 NBPL-1.0 SPDX FSF OSI GNU L363 NCGL-UK-2.0 SPDX FSF OSI GNU L364 NCSA SPDX FSF OSI GNU L365 Net-SNMP SPDX FSF OSI GNU	L349	mplus	SPDX				
L352 MS-RL SPDX FSF OSI L353 Ms-SS FSPDX FSF OSI L354 MTLL SPDX SPDX OSI L355 MulanPSL-1.0 SPDX OSI OSI L356 MulanPSL-2.0 SPDX OSI OSI L357 Multics SPDX OSI OSI L358 Mup SPDX FSF OSI L359 NAIST-2003 SPDX FSF FSF L360 NASA-1.3 SPDX FSF FSF L361 Naumen SPDX FSF OSI GNU L362 NBPL-1.0 SPDX FSF OSI GNU L363 NCGL-UK-2.0 SPDX FSF OSI GNU L364 NCSA SPDX FSF OSI GNU L365 Net-SNMP SPDX FSF OSI GNU L366 NetCDF SPDX FSF OSI GNU L368 Newsletr SPDX FSF OSI	L350	MS-LPL	SPDX				
L353 Ms-SS SPDX FSF L L354 MTLL SPDX C L L355 MulanPSL-1.0 SPDX OSI L356 MulanPSL-2.0 SPDX OSI L357 Multics SPDX OSI L358 Mup SPDX SPDX L359 NAIST-2003 SPDX FSF L360 NASA-1.3 SPDX FSF L361 Naumen SPDX FSF L362 NBPL-1.0 SPDX FSF L363 NCGL-UK-2.0 SPDX FSF L364 NCSA SPDX FSF L365 Net-SNMP SPDX FSF L366 NetCDF SPDX GNU L367 Netscape-JavaScript SPDX FSF OSI L369 NGPL SPDX FSF OSI L370 NICTA-1.0 SPDX FSF OSI L371 NIST-PD-fallback SPDX SPDX L373 NIST-Software SPDX FSF	L351	MS-PL	SPDX		FSF	OSI	
L354 MTLL SPDX Image: second color of the colo	L352	MS-RL	SPDX		FSF	OSI	
L355 MulanPSL-1.0 SPDX OSI L356 MulanPSL-2.0 SPDX OSI L357 Multics SPDX OSI L358 Mup SPDX SPDX L359 NAIST-2003 SPDX FSF L360 NASA-1.3 SPDX FSF L361 Naumen SPDX FSF L362 NBPL-1.0 SPDX SPDX L363 NCGL-UK-2.0 SPDX FSF OSI L364 NCSA SPDX FSF OSI GNU L365 Net-SNMP SPDX FSF OSI GNU L366 NetCDF SPDX FSF OSI GNU L368 Newsletr SPDX FSF OSI L369 NGPL SPDX FSF OSI L370 NICTA-1.0 SPDX SPDX L371 NIST-PD-fallback SPDX SPDX L373 NIST-Software SPDX L374 NLPL SPDX FSF OSI GNU	L353	Ms-SS			FSF		
L356 MulanPSL-2.0 SPDX OSI L357 Multics SPDX OSI L358 Mup SPDX SPDX L359 NAIST-2003 SPDX FSF L360 NASA-1.3 SPDX FSF L361 Naumen SPDX FSF L362 NBPL-1.0 SPDX FSF L363 NCGL-UK-2.0 SPDX FSF OSI L364 NCSA SPDX FSF OSI GNU L365 Net-SNMP SPDX FSF OSI GNU L366 NetCDF SPDX FSF OSI GNU L368 Newsletr SPDX FSF OSI L369 NGPL SPDX FSF OSI L370 NICTA-1.0 SPDX FSF OSI L372 NIST-PD-fallback SPDX SPDX FSF OSI L373 NIST-Software SPDX FSF OSI GNU L375 Nokia SPDX FSF OSI GNU	L354	MTLL	SPDX				
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L358 Mup SPDX Image: SPDX septor septo	L356	MulanPSL-2.0	SPDX			OSI	
L359 NAIST-2003 SPDX FSF L360 NASA-1.3 SPDX FSF L361 Naumen SPDX FSF L362 NBPL-1.0 SPDX	L357	Multics	SPDX			OSI	
L360 NASA-1.3 SPDX FSF	L358	Mup	SPDX				
L361 Naumen SPDX Image: SPDX spdx spdx spdx spdx spdx spdx spdx spdx	L359	NAIST-2003	SPDX				
L362 NBPL-1.0 SPDX Image: spd of the color of	L360	NASA-1.3	SPDX		FSF		
L363 NCGL-UK-2.0 SPDX FSF OSI GNU L364 NCSA SPDX FSF OSI GNU L365 Net-SNMP SPDX FSF OSI GNU L366 Net CDF SPDX FSF GNU L367 Net scape Java Script SPDX FSF OSI L368 Newsletr SPDX FSF OSI L370 NICTA-1.0 SPDX FSF OSI L371 NIST-PD SPDX FSF OSI L372 NIST-PD-fallback SPDX FSF OSI L373 NIST-Software SPDX FSF OSI L374 NLPL SPDX FSF OSI L375 Nokia SPDX FSF OSI	L361	Naumen	SPDX				
L364 NCSA SPDX FSF OSI GNU L365 Net-SNMP SPDX - - - L366 NetCDF SPDX - - GNU L367 NetscapeJavaScript - - GNU L368 Newsletr SPDX - - - L369 NGPL SPDX FSF OSI - L370 NICTA-1.0 SPDX - - - L371 NIST-PD SPDX - - - L372 NIST-PD-fallback SPDX - - - L373 NIST-Software SPDX - - - L374 NLPL SPDX FSF OSI GNU L375 Nokia SPDX FSF OSI GNU	L362	NBPL-1.0	SPDX				
L365 Net-SNMP SPDX Image: SPDX or of the content o	L363	NCGL-UK-2.0	SPDX				
L366 NetCDF SPDX	L364	NCSA	SPDX		FSF	OSI	GNU
L367 NetscapeJavaScript SPDX GNU L368 Newsletr SPDX FSF OSI L369 NGPL SPDX FSF OSI L370 NICTA-1.0 SPDX FSF OSI L371 NIST-PD SPDX FSF OSI L372 NIST-PD-fallback SPDX FSF OSI GNU L373 NIST-Software SPDX FSF OSI GNU L374 NLPL SPDX FSF OSI GNU	L365	Net-SNMP	SPDX				
L368 Newsletr SPDX FSF OSI L369 NGPL SPDX FSF OSI L370 NICTA-1.0 SPDX Image: SPDX	L366	NetCDF	SPDX				
L369 NGPL SPDX FSF OSI L370 NICTA-1.0 SPDX Image: SPDX state sta	L367	NetscapeJavaScript					GNU
L370 NICTA-1.0 SPDX	L368	Newsletr	SPDX				
L371 NIST-PD SPDX SPDX SPDX SPDX SPDX SPDX SPDX SP	L369	NGPL	SPDX		FSF	OSI	
L372 NIST-PD-fallback SPDX SPDX SPDX L373 NIST-Software SPDX SPDX SPDX SPDX SPDX SPDX SPDX SPDX	L370	NICTA-1.0	SPDX				
L373 NIST-Software SPDX SPDX L374 NLPL SPDX FSF OSI GNU	L371	NIST-PD	SPDX				
L374 NLPL SPDX SPDX FSF OSI GNU	L372	NIST-PD-fallback	SPDX				
L375 Nokia SPDX FSF OSI GNU	L373	NIST-Software	SPDX				
	L374	NLPL	SPDX				
L376 NoLicense GNU		Nokia	SPDX		FSF	OSI	
	L376	NoLicense					GNU

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L378 Noweb SPDX I <th< th=""><th>L377</th><th>NOSL</th><th>SPDX</th><th></th><th>FSF</th><th></th><th>GNU</th></th<>	L377	NOSL	SPDX		FSF		GNU
L380 NPL-1.1 SPDX FSF OSI	L378	Noweb	SPDX				
L381 NPOSL-3.0 SPDX OSI L382 NRL SPDX OSI L383 NTP SPDX OSI L384 NTP-0 SPDX OSI L385 O-UDA-1.0 SPDX FSF L386 OCCT-PL SPDX FSF L388 OCLC-2.0 SPDX FSF L389 Oculus VR Rift SDK License FSF FSF L390 ODbL-1.0 SPDX FSF L391 OFFIS SPDX FSF L392 OFL-1.0-no-RFN SPDX FSF L393 OFL-1.0-RFN SPDX FSF L394 OFL-1.0-RFN SPDX SPDX L395 OFL-1.1-RFN SPDX SPDX L396 OFL-1.1-RFN SPDX SPDX L399 OGL-Canada-2.0 SPDX OSI L401 OLDAP-1.1 SPDX SPDX L402 OLDAP-1.3 SPDX SPDX L404	L379	NPL-1.0	SPDX				
L382 NRL	L380	NPL-1.1	SPDX		FSF		
L383 NTP SPDX OSI L384 NTP-0 SPDX OSI L385 O-UDA-1.0 SPDX OSI L386 OCCT-PL SPDX OSI L387 OCL-1.0 SPDX FSF L388 OCLC-2.0 SPDX FSF L390 ODbL-1.0 SPDX FSF L391 OFFIS SPDX FSF L392 OFL-1.0 SPDX FSF L393 OFL-1.0-RFN SPDX FSF L394 OFL-1.1-RFN SPDX FSF L395 OFL-1.1 SPDX FSF L396 OFL-1.1-RFN SPDX SPDX L399 OGC-1.0 SPDX OSI L400 OGTSL SPDX OSI L401 OLDAP-1.1 SPDX OSI L402 OLDAP-1.2 SPDX OSI L403 OLDAP-1.4 SPDX OSI L404 OLDAP-2.0 <td< td=""><td>L381</td><td>NPOSL-3.0</td><td>SPDX</td><td></td><td></td><td>OSI</td><td></td></td<>	L381	NPOSL-3.0	SPDX			OSI	
L384 NTP-0 SPDX Image: Register of the content of	L382	NRL	SPDX				
L385 O-UDA-1.0 SPDX L	L383	NTP	SPDX			OSI	
L386 OCCT-PL SPDX Image: SPDX spdx spdx spdx spdx spdx spdx spdx spdx	L384	NTP-0	SPDX				
L387 OCL-1.0 SPDX FSF L388 OCLC-2.0 SPDX FSF L389 Oculus VR Rift SDK License FSF L390 ODbL-1.0 SPDX FSF L391 OFFIS SPDX FSF L392 OFL-1.0 SPDX SPDX L393 OFL-1.0-no-RFN SPDX SPDX L394 OFL-1.0-RFN SPDX FSF OSI L395 OFL-1.1 SPDX DFSG FSF OSI L396 OFL-1.1-RFN SPDX	L385	O-UDA-1.0	SPDX				
L388 OCLC-2.0 SPDX FSF L389 Oculus VR Rift SDK License FSF L390 ODbL-1.0 SPDX FSF L391 OFFIS SPDX FSF L392 OFL-1.0 SPDX SPDX L393 OFL-1.0-no-RFN SPDX SPDX L394 OFL-1.0-RFN SPDX DFSG FSF L395 OFL-1.1 SPDX DFSG FSF L396 OFL-1.1-RFN SPDX SPDX L398 OGC-1.0 SPDX OSI L399 OGL-Canada-2.0 SPDX OSI L400 OGTSL SPDX OSI L401 OLDAP-1.1 SPDX OSI L402 OLDAP-1.2 SPDX OSI L403 OLDAP-1.3 SPDX OSI L404 OLDAP-2.0 SPDX OSI L406 OLDAP-2.0.1 SPDX SPDX L407 OLDAP-2.1 SPDX SPDX L408 OLDAP-2.2.1 SPDX L409 OLDAP-2.2.2 </td <td>L386</td> <td>OCCT-PL</td> <td>SPDX</td> <td></td> <td></td> <td></td> <td></td>	L386	OCCT-PL	SPDX				
L389 Oculus VR Rift SDK License FSF L390 ODbL-1.0 SPDX L391 OFFIS SPDX L392 OFL-1.0 SPDX L393 OFL-1.0-no-RFN SPDX L394 OFL-1.0-RFN SPDX L395 OFL-1.1 SPDX L396 OFL-1.1-no-RFN SPDX L397 OFL-1.1-RFN SPDX L398 OGC-1.0 SPDX L400 OGTSL SPDX L401 OLDAP-1.1 SPDX L402 OLDAP-1.2 SPDX L403 OLDAP-1.3 SPDX L404 OLDAP-1.4 SPDX L405 OLDAP-2.0 SPDX L406 OLDAP-2.1 SPDX L407 OLDAP-2.2 SPDX L409 OLDAP-2.2.1 SPDX L409 OLDAP-2.2.2 SPDX	L387	OCL-1.0			FSF		
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L391 OFFIS SPDX	L389	Oculus VR Rift SDK License			FSF		
L392 OFL-1.0 SPDX Image: separate content of the part of the p	L390	ODbL-1.0	SPDX		FSF		
L393 OFL-1.0-no-RFN SPDX Image: Reconstruction of the content of	L391	OFFIS	SPDX				
L394 OFL-1.0-RFN SPDX JESG FSF OSI L395 OFL-1.1 SPDX DFSG FSF OSI L396 OFL-1.1-no-RFN SPDX SPDX Image: SPDX	L392	OFL-1.0	SPDX				
L395 OFL-1.1 SPDX DFSG FSF OSI L396 OFL-1.1-no-RFN SPDX SPDX<	L393	OFL-1.0-no-RFN	SPDX				
L396 OFL-1.1-no-RFN SPDX L397 OFL-1.1-RFN SPDX L398 OGC-1.0 SPDX L399 OGL-Canada-2.0 SPDX L400 OGTSL SPDX L401 OLDAP-1.1 SPDX L402 OLDAP-1.2 SPDX L403 OLDAP-1.3 SPDX L404 OLDAP-1.4 SPDX L405 OLDAP-2.0 SPDX L406 OLDAP-2.0.1 SPDX L407 OLDAP-2.1 SPDX L408 OLDAP-2.2 SPDX L409 OLDAP-2.2.1 SPDX L410 OLDAP-2.2.2 SPDX	L394	OFL-1.0-RFN	SPDX				
L397 OFL-1.1-RFN SPDX L398 OGC-1.0 SPDX L399 OGL-Canada-2.0 SPDX L400 OGTSL SPDX L401 OLDAP-1.1 SPDX L402 OLDAP-1.2 SPDX L403 OLDAP-1.3 SPDX L404 OLDAP-1.4 SPDX L405 OLDAP-2.0 SPDX L406 OLDAP-2.0.1 SPDX L407 OLDAP-2.1 SPDX L408 OLDAP-2.2 SPDX L409 OLDAP-2.2.1 SPDX L410 OLDAP-2.2.2 SPDX	L395	OFL-1.1	SPDX	DFSG	FSF	OSI	
L398 OGC-1.0 SPDX L399 OGL-Canada-2.0 SPDX L400 OGTSL SPDX L401 OLDAP-1.1 SPDX L402 OLDAP-1.2 SPDX L403 OLDAP-1.3 SPDX L404 OLDAP-1.4 SPDX L405 OLDAP-2.0 SPDX L406 OLDAP-2.0.1 SPDX L407 OLDAP-2.1 SPDX L408 OLDAP-2.2 SPDX L409 OLDAP-2.2.1 SPDX L410 OLDAP-2.2.2 SPDX	L396	OFL-1.1-no-RFN	SPDX				
L399 OGL-Canada-2.0 SPDX OSI L400 OGTSL SPDX OSI L401 OLDAP-1.1 SPDX OSI L402 OLDAP-1.2 SPDX OSI L403 OLDAP-1.2 SPDX OSI L404 OLDAP-1.3 SPDX OSI L404 OLDAP-1.3 SPDX OSI L405 OLDAP-1.4 SPDX OSI L405 OLDAP-2.0 SPDX OSI L406 OLDAP-2.0.1 SPDX OLDAP-2.1 L407 OLDAP-2.1 SPDX OLDAP-2.2 L409 OLDAP-2.2.1 SPDX OLDAP-2.2.1 L410 OLDAP-2.2.2 SPDX OLDAP-2.2.2	L397	OFL-1.1-RFN	SPDX				
L400 OGTSL SPDX OSI L401 OLDAP-1.1 SPDX Image: SPDX of the content of the co	L398	OGC-1.0	SPDX				
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L402 OLDAP-1.2 SPDX L403 OLDAP-1.3 SPDX L404 OLDAP-1.4 SPDX L405 OLDAP-2.0 SPDX L406 OLDAP-2.0.1 SPDX L407 OLDAP-2.1 SPDX L408 OLDAP-2.2 SPDX L409 OLDAP-2.2.1 SPDX L410 OLDAP-2.2.2 SPDX	L400	OGTSL	SPDX			OSI	
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L404 OLDAP-1.4 SPDX L405 OLDAP-2.0 SPDX L406 OLDAP-2.0.1 SPDX L407 OLDAP-2.1 SPDX L408 OLDAP-2.2 SPDX L409 OLDAP-2.2.1 SPDX L410 OLDAP-2.2.2 SPDX	L402	OLDAP-1.2	SPDX				
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L407 OLDAP-2.1 SPDX L408 OLDAP-2.2 SPDX L409 OLDAP-2.2.1 SPDX L410 OLDAP-2.2.2 SPDX	L405	OLDAP-2.0	SPDX				
L408 OLDAP-2.2 SPDX L409 OLDAP-2.2.1 SPDX L410 OLDAP-2.2.2 SPDX	L406	OLDAP-2.0.1	SPDX				
L409 OLDAP-2.2.1 SPDX L410 OLDAP-2.2.2 SPDX	L407	OLDAP-2.1	SPDX				
L410 OLDAP-2.2.2 SPDX	L408	OLDAP-2.2	SPDX				
	L409	OLDAP-2.2.1	SPDX				
L411 OLDAP-2.3 SPDX FSF	L410	OLDAP-2.2.2	SPDX				
	L411	OLDAP-2.3	SPDX		FSF		

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L412	OLDAP-2.4	SPDX				
L413	OLDAP-2.5	SPDX				
L414	OLDAP-2.6	SPDX				
L415	OLDAP-2.7	SPDX		FSF		
L416	OLDAP-2.8	SPDX		FSF	OSI	
L417	oldOpenLDAP					GNU
L418	OLFL-1.3	SPDX			OSI	
L419	OML	SPDX				
L420	Open Publication License v1.0			FSF		
L421	OpenPBS-2.3	SPDX	DFSG			
L422	OpenSSL	SPDX		FSF		GNU
L423	OpenSSL-standalone	SPDX				
L424	OpenVision	SPDX				
L425	OPL-1.0	SPDX	DFSG	FSF		
L426	OPL-UK-3.0	SPDX				
L427	OPUBL-1.0	SPDX				
L428	OriginalBSD					GNU
L429	OSET-PL-2.1	SPDX			OSI	
L430	OSL					GNU
L431	OSL-1.0	SPDX			OSI	
L432	OSL-1.1	SPDX	DFSG			
L433	OSL-2.0	SPDX				
L434	OSL-2.1	SPDX			OSI	
L435	OSL-3.0	SPDX		FSF	OSI	
L436	PADL	SPDX				
L437	Parity-6.0.0	SPDX				
L438	Parity-7.0.0	SPDX				
L439	PerlLicense					GNU
L440	Phorum-2.0			FSF		
L441	PHP-3.0	SPDX		FSF	OSI	
L442	PHP-3.01	SPDX		FSF	OSI	
L443	PINE			FSF		GNU
L444	Pixar	SPDX				
L445	Plexus	SPDX				
L446	pnmstitch	SPDX				

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L448	L447	PolyForm-Noncommercial-1.0.0	SPDX				
L450 PPL3a spDx sp description genumber of the part of the	L448	PolyForm-Small-Business-1.0.0	SPDX				
L451 PSF-2.0 SPDX L OSI L452 psfrag SPDX L L L453 psutils SPDX L L L454 PublicDomain FSF C GNU L455 Python-1.6a2 SPDX FSF C GNU L456 Python-2.0.1 SPDX FSF C FSF L GNU FSF L GNU L FSF L GNU L <t< td=""><td>L449</td><td>PostgreSQL</td><td>SPDX</td><td></td><td></td><td>OSI</td><td></td></t<>	L449	PostgreSQL	SPDX			OSI	
L452	L450	PPL3a					GNU
L453 psutils SPDX FSF GNU L454 PublicDomain FSF GNU L455 Python-1.6a2 FSF FSF L456 Python-2.0 SPDX FSF L457 Python-ldap SPDX FSF L458 python-ldap SPDX L459 Qhull SPDX L460 QPL-1.0 SPDX DFSG FSF OSI L461 QPL-1.0-INRIA-2004 SPDX L462 radvd SPDX L463 Rdise SPDX L464 RHeCos-1.1 SPDX FSF L465 RPL-1.1 SPDX FSF OSI L466 RPL-1.3 FSF L466 RPL-1.3 FSF L467 RPL-1.5 SPDX DFSG FSF OSI L468 RPSL-1.0 SPDX DFSG FSF OSI L469 RSA-MD SPDX SPDX SPDX L470 RSCPL SPDX SPDX SPDX CST SPDX CST CST	L451	PSF-2.0	SPDX			OSI	
L454 PublicDomain FSF GNU L455 Python-1.6a2 FSF GNU L456 Python-2.0 SPDX FSF GNU L457 Python-2.0.1 SPDX FSF GNU L458 python-ldap SPDX FSF GNU L459 Qhull SPDX DFSG FSF OSI L460 QPL-1.0 SPDX DFSG FSF OSI L461 QPL-1.0-INRIA-2004 SPDX FSF OSI L462 radvd SPDX FSF OSI L463 Rdise SPDX FSF OSI L464 RHeCos-1.1 SPDX FSF OSI L465 RPL-1.3 FSF OSI OSI L466 RPL-1.5 SPDX DFSG FSF OSI L469 RSA-MD SPDX OSI OSI OSI L471 Ruby SPDX FSF GNU L472<	L452	psfrag	SPDX				
L455 Python-1.6a2 spDX FSF spb L456 Python-2.0 SPDX FSF spb L457 Python-2.0.1 SPDX FSF spb L458 python-ldap SPDX spb spb L459 Qhull SPDX DFSG FSF OSI L460 QPL-1.0 SPDX DFSG FSF OSI L461 QPL-1.0-INRIA-2004 SPDX SPDX spb	L453	psutils	SPDX				
L456 Python-2.0 SPDX K K K L	L454	PublicDomain			FSF		GNU
L457 Python-2.0.1 SPDX FSF L L458 python-ldap SPDX FSF L L459 Qhull SPDX DFSG FSF OSI L460 QPL-1.0 SPDX DFSG FSF OSI L461 QPL-1.0-INRIA-2004 SPDX FSF OSI L462 radvd SPDX FSF FSF L463 Rdisc SPDX FSF SPS L464 RHeCos-1.1 SPDX FSF OSI L465 RPL-1.3 FSF OSI SPDX OSI L466 RPL-1.5 SPDX DFSG FSF OSI L468 RPSL-1.0 SPDX SPDX OSI SPDX OSI L470 RSCPL SPDX FSF GNU L471 Ruby SPDX FSF GNU L472 SAX-PD SPDX SPDX SPDX SPDX SPDX SPDX SPDX	L455	Python-1.6a2			FSF		
L458 python-ldap SPDX L	L456	Python-2.0	SPDX				
L459 Qhull SPDX DFSG FSF OSI L460 QPL-1.0 SPDX DFSG FSF OSI L461 QPL-1.0-INRIA-2004 SPDX SPDX Image: Control of the control	L457	Python-2.0.1	SPDX		FSF		
L460 QPL-1.0 SPDX DFSG FSF OSI L461 QPL-1.0-INRIA-2004 SPDX	L458	python-ldap	SPDX				
L461 QPL-1.0-INRIA-2004 SPDX	L459	Qhull	SPDX				
L462 radvd SPDX	L460	QPL-1.0	SPDX	DFSG	FSF	OSI	
L463 Rdisc SPDX	L461	QPL-1.0-INRIA-2004	SPDX				
L464 RHeCos-1.1 SPDX FSF OSI L465 RPL-1.1 SPDX OSI FSF OSI L466 RPL-1.3 FSF OSI SPDX OSI CSI CSI <td< td=""><td>L462</td><td>radvd</td><td>SPDX</td><td></td><td></td><td></td><td></td></td<>	L462	radvd	SPDX				
L465 RPL-1.1 SPDX OSI L466 RPL-1.3 FSF OSI L467 RPL-1.5 SPDX OSI L468 RPSL-1.0 SPDX DFSG FSF OSI L469 RSA-MD SPDX OSI OSI CAND	L463	Rdisc	SPDX				
L466 RPL-1.3 SPDX FSF OSI L467 RPL-1.5 SPDX DFSG FSF OSI L468 RPSL-1.0 SPDX DFSG FSF OSI L469 RSA-MD SPDX SPDX OSI L470 RSCPL SPDX FSF GNU L471 Ruby SPDX FSF GNU L472 SAX-PD SPDX FSF GNU L473 SAX-PD-2.0 SPDX FSF GNU L474 Saxpath SPDX FSF GNU L475 SCEA SPDX FSF GNU L476 SchemeReport SPDX FSF GNU L478 Scratch FSF GNU L479 SCSL-2.8 FSF GNU L480 Sendmail SPDX FSF FSF	L464	RHeCos-1.1	SPDX		FSF		
L467 RPL-1.5 SPDX DFSG FSF OSI L468 RPSL-1.0 SPDX DFSG FSF OSI L469 RSA-MD SPDX SPDX OSI L470 RSCPL SPDX SPDX OSI L471 Ruby SPDX FSF GNU L472 SAX-PD SPDX SPDX SPDX SPDX L474 Saxpath SPDX	L465	RPL-1.1	SPDX			OSI	
L468 RPSL-1.0 SPDX DFSG FSF OSI L469 RSA-MD SPDX - - - L470 RSCPL SPDX - - OSI L471 Ruby SPDX - FSF GNU L472 SAX-PD SPDX -<	L466	RPL-1.3			FSF		
L469 RSA-MD SPDX OSI L470 RSCPL SPDX OSI L471 Ruby SPDX FSF GNU L472 SAX-PD SPDX FSF GNU L473 SAX-PD-2.0 SPDX Image: Comparison of the comparison of	L467	RPL-1.5	SPDX			OSI	
L470 RSCPL SPDX OSI L471 Ruby SPDX FSF GNU L472 SAX-PD SPDX Image: SP	L468	RPSL-1.0	SPDX	DFSG	FSF	OSI	
L471 Ruby SPDX FSF GNU L472 SAX-PD SPDX 1	L469	RSA-MD	SPDX				
L472 SAX-PD SPDX <t< td=""><td>L470</td><td>RSCPL</td><td>SPDX</td><td></td><td></td><td>OSI</td><td></td></t<>	L470	RSCPL	SPDX			OSI	
L473 SAX-PD-2.0 SPDX L474 Saxpath SPDX L475 SCEA SPDX L476 SchemeReport SPDX L477 Scilab-old FSF L478 Scratch FSF L479 SCSL-2.8 FSF L480 Sendmail SPDX FSF	L471	Ruby	SPDX		FSF		GNU
L474 Saxpath SPDX L475 SCEA SPDX L476 SchemeReport SPDX L477 Scilab-old FSF L478 Scratch FSF L479 SCSL-2.8 FSF L480 Sendmail SPDX FSF	L472	SAX-PD	SPDX				
L475 SCEA SPDX Image: SPDX or content of the conte	L473	SAX-PD-2.0	SPDX				
L476 SchemeReport SPDX FSF L477 Scilab-old FSF L478 Scratch FSF GNU L479 SCSL-2.8 FSF FSF L480 Sendmail SPDX FSF	L474	Saxpath	SPDX				
L477 Scilab-old FSF L478 Scratch FSF GNU L479 SCSL-2.8 FSF FSF L480 Sendmail SPDX FSF	L475	SCEA	SPDX				
L478 Scratch FSF GNU L479 SCSL-2.8 FSF FSF L480 Sendmail SPDX FSF	L476	SchemeReport	SPDX				
L479 SCSL-2.8 L480 Sendmail SPDX FSF	L477	Scilab-old			FSF		
L480 Sendmail SPDX FSF	L478	Scratch			FSF		GNU
	L479	SCSL-2.8			FSF		
L481 Sendmail-8.23 SPDX	L480	Sendmail	SPDX		FSF		
	L481	Sendmail-8.23	SPDX				

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L482	SGI-B-1.0	SPDX				
L483	SGI-B-1.1	SPDX				
L484	SGI-B-2.0	SPDX		FSF		
L485	SGI-OpenGL	SPDX				
L486	SGIFreeB					GNU
L487	SGP4	SPDX				
L488	SHL-0.5	SPDX				
L489	SHL-0.51	SPDX				
L490	SimPL-2.0	SPDX			OSI	
L491	SimpleM			FSF		
L492	SimplePermissive			FSF		
L493	SimplePermissiveNoNonWarranty			FSF		
L494	SISSL	SPDX		FSF	OSI	GNU
L495	SISSL-1.2	SPDX		FSF		
L496	SL	SPDX				
L497	Sleepycat	SPDX		FSF	OSI	
L498	SMLNJ	SPDX		FSF		
L499	SMPPL	SPDX				
L500	SNIA	SPDX				
L501	snprintf	SPDX				
L502	softSurfer	SPDX				
L503	Soundex	SPDX				
L504	Spencer-86	SPDX		FSF		
L505	Spencer-94	SPDX				
L506	Spencer-99	SPDX				
L507	spin		DFSG			
L508	SPL-1.0	SPDX		FSF	OSI	
L509	Squeak-old			FSF		
L510	ssh-keyscan	SPDX				
L511	SSH-OpenSSH	SPDX				
L512	SSH-short	SPDX				
L513	SSLeay-standalone	SPDX				
L514	SSPL-1.0	SPDX				
L515	SSSCFR-1.1			FSF		
L516	StandardMLofNJ					GNU

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L517	SugarCRM-1.1.3	SPDX			
L518	Sun-PPP	SPDX			
L519	SunPro	SPDX			
L520	SWL	SPDX			
L521	swrule	SPDX			
L522	Symlinks	SPDX			
L523	TAPR-OHL-1.0	SPDX			
L524	TCL	SPDX	FSF		
L525	TCP-wrappers	SPDX			
L526	TermReadKey	SPDX			
L527	TGPPL-1.0	SPDX	FSF		
L528	THL-1.1		FSF		
L529	TMate	SPDX			
L530	TORQUE-1.1	SPDX			
L531	TOSL	SPDX			
L532	TPDL	SPDX			
L533	TPL-1.0	SPDX			
L534	TrueCrypt		FSF		
L535	TTWL	SPDX			
L536	TTYP0	SPDX			
L537	TU-Berlin-1.0	SPDX			
L538	TU-Berlin-2.0	SPDX			
L539	UCAR	SPDX			
L540	UCL-1.0	SPDX		OSI	
L541	ulem	SPDX			
L542	UMich-Merit	SPDX			
L543	Unicode-3.0	SPDX			
L544	Unicode-DFS-2012		FSF		
L545	Unicode-DFS-2015	SPDX		OSI	
L546	Unicode-DFS-2016	SPDX			
L547	Unicode-TOU	SPDX			
L548	UnixCrypt	SPDX			
L549	Unlicense	SPDX		OSI	GNU
L550	UPL-1.0	SPDX		OSI	
L551	URT-RLE	SPDX			

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L553	L552	UtahPublicLicense				GNU
L555	L553	Vim	SPDX			GNU
L556	L554	VOSTROM	SPDX			
L557 W3C	L555	VSL-0.1			OSI	
L558 W3C-19980720 SPDX OSI L559 W3C-20150513 SPDX OSI L560 W3m SPDX C561 Watcom-1.0 SPDX C562 WebM SPDX C563 Widget-Workshop SPDX C564 Wsuipa SPDX C565 WTFPL SPDX DFSG OSI C566 WxWindows OSI C567 x-oz DFSG C570 C570	L556	VSL-1.0	SPDX			
L559	L557	W3C	SPDX			GNU
L560 w3m SPDX	L558	W3C-19980720	SPDX			
L561 Watcom-1.0 SPDX GNU L562 WebM GNU L563 Widget-Workshop SPDX L564 Wsuipa SPDX L565 WTFPL SPDX L566 wxWindows OSI L567 x-oz DFSG L568 X11 SPDX L569 X11-distribute-modifications-variant SPDX L570 X11License GNU L571 Xdebug-1.03 SPDX L572 Xerox SPDX L573 Xfig SPDX L574 XFree86-1.1 SPDX L575 xinetd SPDX L576 xkeyboard-config-Zinoviev SPDX L577 xlock SPDX L578 Xnet SPDX L580 XSkat SPDX L581 Yahoo GNU L582 YPL-1.0 SPDX L584 Zed SPDX L585 Zeeff <td>L559</td> <td>W3C-20150513</td> <td>SPDX</td> <td></td> <td>OSI</td> <td></td>	L559	W3C-20150513	SPDX		OSI	
L562 WebM SPDX GNU L563 Widget-Workshop SPDX GNU L564 Wsuipa SPDX GNU L565 WTFPL SPDX DFSG GNU L566 wxWindows DFSG OSI GNU L567 x-oz DFSG SPDX SPDX SPDX L569 X11-distribute-modifications-variant SPDX SPDX SPDX SPDX L570 X11License SPDX	L560	w3m	SPDX			
L563 Widget-Workshop SPDX	L561	Watcom-1.0	SPDX			
L564 Wsuipa SPDX GNU L565 WTFPL SPDX DFSG GNU L566 wxWindows OSI OSI CSI L567 x-oz DFSG CSI	L562	WebM				GNU
L565 WTFPL	L563	Widget-Workshop	SPDX			
L566 wxWindows DFSG OSI L567 x-oz DFSG L568 X11 SPDX	L564	Wsuipa	SPDX			
L567 x-oz DFSG	L565	WTFPL	SPDX	DFSG		GNU
L568 X11 SPDX Image: SPDX sppx sppx sppx sppx sppx sppx sppx spp	L566	wxWindows			OSI	
L569 X11-distribute-modifications-variant SPDX GNU L570 X11License GNU L571 Xdebug-1.03 SPDX GNU L572 Xerox SPDX GNU L573 Xfig SPDX GNU L574 XFree86-1.1 SPDX GNU L575 xinetd SPDX GNU L576 xkeyboard-config-Zinoviev SPDX OSI L577 xlock SPDX OSI L578 Xnet SPDX OSI L579 xpp SPDX GNU L580 XSkat SPDX GNU L581 Yahoo GNU GNU L582 YPL-1.0 SPDX GNU L583 YPL-1.1 SPDX GNU L584 Zed SPDX GNU L585 Zeeff SPDX GNU	L567	X-OZ		DFSG		
L570 X11License GNU L571 Xdebug-1.03 SPDX L572 Xerox SPDX L573 Xfig SPDX L574 XFree86-1.1 SPDX L575 xinetd SPDX L576 xkeyboard-config-Zinoviev SPDX L577 xlock SPDX L578 Xnet SPDX L579 xpp SPDX L580 XSkat SPDX L581 Yahoo GNU L582 YPL-1.0 SPDX L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L568	X11	SPDX			
L571 Xdebug-1.03 SPDX L572 Xerox SPDX L573 Xfig SPDX L574 XFree86-1.1 SPDX L575 xinetd SPDX L576 xkeyboard-config-Zinoviev SPDX L577 xlock SPDX L578 Xnet SPDX L579 xpp SPDX L580 XSkat SPDX L581 Yahoo GNU L582 YPL-1.0 SPDX L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L569	X11-distribute-modifications-variant	SPDX			
L572 Xerox SPDX L573 Xfig SPDX L574 XFree86-1.1 SPDX L575 xinetd SPDX L576 xkeyboard-config-Zinoviev SPDX L577 xlock SPDX L578 Xnet SPDX L579 xpp SPDX L580 XSkat SPDX L581 Yahoo GNU L582 YPL-1.0 SPDX L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L570	X11License				GNU
L573 Xfig SPDX	L571	Xdebug-1.03	SPDX			
L574 XFree86-1.1 SPDX GNU L575 xinetd SPDX GNU L576 xkeyboard-config-Zinoviev SPDX CSPDX L577 xlock SPDX OSI L578 Xnet SPDX OSI L579 xpp SPDX CSPDX L580 XSkat SPDX GNU L581 Yahoo SPDX GNU L582 YPL-1.0 SPDX GNU L583 YPL-1.1 SPDX CSPDX L584 Zed SPDX CSPDX L585 Zeeff SPDX CSPDX	L572	Xerox	SPDX			
L575 xinetd SPDX GNU L576 xkeyboard-config-Zinoviev SPDX Image: Config-Zinoviev SPDX L577 xlock SPDX OSI L578 Xnet SPDX OSI L579 xpp SPDX Image: Config-Zinoviev L579 xpp SPDX OSI L580 XSkat SPDX Image: Config-Zinoviev L581 Yahoo SPDX Image: Config-Zinoviev L581 Yahoo SPDX Image: Config-Zinoviev L582 YPL-1.0 SPDX Image: Config-Zinoviev L583 YPL-1.1 SPDX Image: Config-Zinoviev L584 Zed SPDX Image: Config-Zinoviev L585 Zeeff SPDX Image: Config-Zinoviev	L573	Xfig	SPDX			
L576 xkeyboard-config-Zinoviev SPDX L577 xlock SPDX L578 Xnet SPDX L579 xpp SPDX L580 XSkat SPDX L581 Yahoo SPDX L582 YPL-1.0 SPDX L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L574	XFree86-1.1	SPDX			
L577 xlock SPDX OSI L578 Xnet SPDX OSI L579 xpp SPDX FDX L580 XSkat SPDX GNU L581 Yahoo SPDX GNU L582 YPL-1.0 SPDX SPDX L583 YPL-1.1 SPDX SPDX L584 Zed SPDX SPDX L585 Zeeff SPDX SPDX	L575	xinetd	SPDX			GNU
L578 Xnet SPDX OSI L579 xpp SPDX Image: SPDX L580 XSkat SPDX Image: SPDX L581 Yahoo SPDX GNU L582 YPL-1.0 SPDX Image: SPDX Image: SPDX L583 YPL-1.1 SPDX Image: SPDX Ima	L576	xkeyboard-config-Zinoviev	SPDX			
L579 xpp SPDX L580 XSkat SPDX L581 Yahoo GNU L582 YPL-1.0 SPDX L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L577	xlock	SPDX			
L580 XSkat SPDX L581 Yahoo GNU L582 YPL-1.0 SPDX L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L578	Xnet	SPDX		OSI	
L581 Yahoo GNU L582 YPL-1.0 SPDX L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L579	xpp	SPDX			
L582 YPL-1.0 SPDX L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L580	XSkat	SPDX			
L583 YPL-1.1 SPDX L584 Zed SPDX L585 Zeeff SPDX	L581	Yahoo				GNU
L584 Zed SPDX L585 Zeeff SPDX	L582	YPL-1.0	SPDX			
L585 Zeeff SPDX	L583	YPL-1.1	SPDX			
	L584	Zed	SPDX			
L586 Zend-2.0 SPDX	L585	Zeeff	SPDX			
	L586	Zend-2.0	SPDX			

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L587	Zimbra-1.3	SPDX				
L588	Zimbra-1.4	SPDX				
L589	Zlib	SPDX	DFSG		OSI	GNU
L590	zlib-acknowledgement	SPDX				
L591	Zope					GNU
L592	ZPL-1.1	SPDX				
L593	ZPL-2.0	SPDX				
L594	ZPL-2.1	SPDX				
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