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| C++通用框架和库<br> |
|  |  |
|  | ASL</a> ：Adobe源代码库提供了同行的评审和可移植的C++源代码库。<br> <http://stlab.adobe.com/%20target=>" target="\_blank" rel="nofollow"> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/boostorg%20target=](https://link.jianshu.com/?t=https://github.com/boostorg%20target=)" target="\_blank" rel="nofollow">Boost</a> ：大量通用C++库的集合。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/bloomberg/bde%20target=](https://link.jianshu.com/?t=https://github.com/bloomberg/bde%20target=)" target="\_blank" rel="nofollow">BDE</a> ：来自于彭博资讯实验室的开发环境。<br> |
|  | <a href="[https://link.jianshu.com?t=http://libcinder.org/%20target=](https://link.jianshu.com/?t=http://libcinder.org/%20target=)" target="\_blank" rel="nofollow">Cinder</a>：提供专业品质创造性编码的开源开发社区。<br> |
|  | <a href="[https://link.jianshu.com?t=http://ryan.gulix.cl/fossil.cgi/cxxomfort/%20target=](https://link.jianshu.com/?t=http://ryan.gulix.cl/fossil.cgi/cxxomfort/%20target=)" target="\_blank" rel="nofollow">Cxxomfort</a>：轻量级的，只包含头文件的库，将C++ 11的一些新特性移植到C++03中。<br> |
|  | <a href="[https://link.jianshu.com?t=http://dlib.net/%20target=](https://link.jianshu.com/?t=http://dlib.net/%20target=)" target="\_blank" rel="nofollow">Dlib</a>：使用契约式编程和现代C++科技设计的通用的跨平台的C++库。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/paulhodge/EASTL%20target=](https://link.jianshu.com/?t=https://github.com/paulhodge/EASTL%20target=)" target="\_blank" rel="nofollow">EASTL</a> ：EA-STL公共部分<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/sumeetchhetri/ffead-cpp%20target=](https://link.jianshu.com/?t=https://github.com/sumeetchhetri/ffead-cpp%20target=)" target="\_blank" rel="nofollow">ffead-cpp</a> ：企业应用程序开发框架<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/facebook/folly%20target=](https://link.jianshu.com/?t=https://github.com/facebook/folly%20target=)" target="\_blank" rel="nofollow">Folly</a>：由Facebook开发和使用的开源C++库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/julianstorer/JUCE%20target=](https://link.jianshu.com/?t=https://github.com/julianstorer/JUCE%20target=)" target="\_blank" rel="nofollow">JUCE</a> ：包罗万象的C++类库，用于开发跨平台软件<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/facebook/libphenom%20target=](https://link.jianshu.com/?t=https://github.com/facebook/libphenom%20target=)" target="\_blank" rel="nofollow">libPhenom</a>：用于构建高性能和高度可扩展性系统的事件框架。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/sourcey/libsourcey%20target=](https://link.jianshu.com/?t=https://github.com/sourcey/libsourcey%20target=)" target="\_blank" rel="nofollow">LibSourcey</a> ：用于实时的视频流和高性能网络应用程序的C++11 evented IO<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/koanlogic/libu%20target=](https://link.jianshu.com/?t=https://github.com/koanlogic/libu%20target=)" target="\_blank" rel="nofollow">LibU</a> ： C语言写的多平台工具库<br> |
|  | <a href="[https://link.jianshu.com?t=http://loki-lib.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://loki-lib.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Loki</a> ：C++库的设计，包括常见的设计模式和习语的实现。<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/mili/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/mili/%20target=)" target="\_blank" rel="nofollow">MiLi</a> ：只含头文件的小型C++库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.openframeworks.cc/%20target=](https://link.jianshu.com/?t=http://www.openframeworks.cc/%20target=)" target="\_blank" rel="nofollow">openFrameworks</a> ：开发C++工具包，用于创意性编码。<br> |
|  | <a href="[https://link.jianshu.com?t=http://qt-project.org/%20target=](https://link.jianshu.com/?t=http://qt-project.org/%20target=)" target="\_blank" rel="nofollow">Qt</a> ：跨平台的应用程序和用户界面框架<br> |
|  | <a href="[https://link.jianshu.com?t=http://code.google.com/p/reason/%20target=](https://link.jianshu.com/?t=http://code.google.com/p/reason/%20target=)" target="\_blank" rel="nofollow">Reason</a> ：跨平台的框架，使开发者能够更容易地使用Java，.Net和Python，同时也满足了他们对C++性能和优势的需求。<br> |
|  | <a href="[https://link.jianshu.com?t=http://root.cern.ch/%20target=](https://link.jianshu.com/?t=http://root.cern.ch/%20target=)" target="\_blank" rel="nofollow">ROOT</a> ：具备所有功能的一系列面向对象的框架，能够非常高效地处理和分析大量的数据，为欧洲原子能研究机构所用。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.stlport.org/%20target=](https://link.jianshu.com/?t=http://www.stlport.org/%20target=)" target="\_blank" rel="nofollow">STLport</a>：是STL具有代表性的版本<br> |
|  | <a href="[https://link.jianshu.com?t=http://stxxl.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://stxxl.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">STXXL</a>：用于额外的大型数据集的标准模板库。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.ultimatepp.org/%20target=](https://link.jianshu.com/?t=http://www.ultimatepp.org/%20target=)" target="\_blank" rel="nofollow">Ultimate++</a> ：C++跨平台快速应用程序开发框架<br> |
|  | <a href="[https://link.jianshu.com?t=http://sourceforge.net/projects/wtl/%20target=](https://link.jianshu.com/?t=http://sourceforge.net/projects/wtl/%20target=)" target="\_blank" rel="nofollow">Windows Template Library</a>：用于开发Windows应用程序和UI组件的C++库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/jll63/yomm11%20target=](https://link.jianshu.com/?t=https://github.com/jll63/yomm11%20target=)" target="\_blank" rel="nofollow">Yomm11</a> ：C++11的开放multi-methods.</p> |
|  | <p>人工智能<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/aigamedev/btsk%20target=](https://link.jianshu.com/?t=https://github.com/aigamedev/btsk%20target=)" target="\_blank" rel="nofollow">btsk</a> ：游戏行为树启动器工具<br> |
|  | <a href="[https://link.jianshu.com?t=http://eodev.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://eodev.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Evolving Objects</a>：基于模板的，ANSI C++演化计算库，能够帮助你非常快速地编写出自己的随机优化算法。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/andrometa/neu%20target=](https://link.jianshu.com/?t=https://github.com/andrometa/neu%20target=)" target="\_blank" rel="nofollow">Neu</a>：C++11框架，编程语言集，用于创建人工智能应用程序的多用途软件系统。</p> |
|  | <p>异步事件循环<br> |
|  | <a href="[https://link.jianshu.com?t=http://think-async.com/%20target=](https://link.jianshu.com/?t=http://think-async.com/%20target=)" target="\_blank" rel="nofollow">Boost.Asio</a>：用于网络和底层I/O编程的跨平台的C++库。<br> |
|  | <a href="[https://link.jianshu.com?t=http://libev.schmorp.de/%20target=](https://link.jianshu.com/?t=http://libev.schmorp.de/%20target=)" target="\_blank" rel="nofollow">libev</a> ：功能齐全，高性能的时间循环，轻微地仿效libevent，但是不再像libevent一样有局限性，也修复了它的一些bug。<br> |
|  | <a href="[https://link.jianshu.com?t=http://libevent.org/%20target=](https://link.jianshu.com/?t=http://libevent.org/%20target=)" target="\_blank" rel="nofollow">libevent</a> ：事件通知库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/joyent/libuv%20target=](https://link.jianshu.com/?t=https://github.com/joyent/libuv%20target=)" target="\_blank" rel="nofollow">libuv</a> ：跨平台异步I/O。</p> |
|  | <p>音频<br> |
|  | 音频，声音，音乐，数字化音乐库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.fmod.org/%20target=](https://link.jianshu.com/?t=http://www.fmod.org/%20target=)" target="\_blank" rel="nofollow">FMOD</a> ：易于使用的跨平台的音频引擎和音频内容的游戏创作工具。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/micknoise/Maximilian%20target=](https://link.jianshu.com/?t=https://github.com/micknoise/Maximilian%20target=)" target="\_blank" rel="nofollow">Maximilian</a> ：C++音频和音乐数字信号处理库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.openal.org/%20target=](https://link.jianshu.com/?t=http://www.openal.org/%20target=)" target="\_blank" rel="nofollow">OpenAL</a> ：开源音频库—跨平台的音频API<br> |
|  | <a href="[https://link.jianshu.com?t=http://opus-codec.org/%20target=](https://link.jianshu.com/?t=http://opus-codec.org/%20target=)" target="\_blank" rel="nofollow">Opus</a>：一个完全开放的，免版税的，高度通用的音频编解码器<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.speex.org/%20target=](https://link.jianshu.com/?t=http://www.speex.org/%20target=)" target="\_blank" rel="nofollow">Speex</a>：免费编解码器，为Opus所废弃<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/TonicAudio/Tonic%20target=](https://link.jianshu.com/?t=https://github.com/TonicAudio/Tonic%20target=)" target="\_blank" rel="nofollow">Tonic</a>： C++易用和高效的音频合成<br> |
|  | <a href="[https://link.jianshu.com?t=http://xiph.org/vorbis/%20target=](https://link.jianshu.com/?t=http://xiph.org/vorbis/%20target=)" target="\_blank" rel="nofollow">Vorbis</a>： Ogg Vorbis是一种完全开放的，非专有的，免版税的通用压缩音频格式。</p> |
|  | <p>生态学<br> |
|  | 生物信息，基因组学和生物技术<br> |
|  | <a href="[https://link.jianshu.com?t=http://molpopgen.github.io/libsequence/%20target=](https://link.jianshu.com/?t=http://molpopgen.github.io/libsequence/%20target=)" target="\_blank" rel="nofollow">libsequence</a>：用于表示和分析群体遗传学数据的C++库。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.seqan.de/%20target=](https://link.jianshu.com/?t=http://www.seqan.de/%20target=)" target="\_blank" rel="nofollow">SeqAn</a>：专注于生物数据序列分析的算法和数据结构。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/ekg/vcflib%20target=](https://link.jianshu.com/?t=https://github.com/ekg/vcflib%20target=)" target="\_blank" rel="nofollow">Vcflib</a> ：用于解析和处理VCF文件的C++库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/jewmanchue/wham%20target=](https://link.jianshu.com/?t=https://github.com/jewmanchue/wham%20target=)" target="\_blank" rel="nofollow">Wham</a>：直接把联想测试应用到BAM文件的基因结构变异。</p> |
|  | <p>压缩<br> |
|  | 压缩和归档库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.bzip.org/%20target=](https://link.jianshu.com/?t=http://www.bzip.org/%20target=)" target="\_blank" rel="nofollow">bzip2</a>：一个完全免费，免费专利和高质量的数据压缩<br> |
|  | <a href="[https://link.jianshu.com?t=https://bitbucket.org/attila\_afra/doboz/overview%20target=](https://link.jianshu.com/?t=https://bitbucket.org/attila_afra/doboz/overview%20target=)" target="\_blank" rel="nofollow">doboz</a>：能够快速解压缩的压缩库<br> |
|  | <a href="[https://link.jianshu.com?t=https://icculus.org/physfs/%20target=](https://link.jianshu.com/?t=https://icculus.org/physfs/%20target=)" target="\_blank" rel="nofollow">PhysicsFS</a>：对各种归档提供抽象访问的库，主要用于视频游戏，设计灵感部分来自于Quake3的文件子系统。<br> |
|  | <a href="[https://link.jianshu.com?t=https://projects.kde.org/projects/frameworks/karchive%20target=](https://link.jianshu.com/?t=https://projects.kde.org/projects/frameworks/karchive%20target=)" target="\_blank" rel="nofollow">KArchive</a>：用于创建，读写和操作文件档案（例如zip和 tar）的库，它通过QIODevice的一系列子类，使用gzip格式，提供了透明的压缩和解压缩的数据。<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/lz4/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/lz4/%20target=)" target="\_blank" rel="nofollow">LZ4</a> ：非常快速的压缩算法<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/lzham/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/lzham/%20target=)" target="\_blank" rel="nofollow">LZHAM</a> ：无损压缩数据库，压缩比率跟LZMA接近，但是解压缩速度却要快得多。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.7-zip.org/sdk.html%20target=](https://link.jianshu.com/?t=http://www.7-zip.org/sdk.html%20target=)" target="\_blank" rel="nofollow">LZMA</a> ：7z格式默认和通用的压缩方法。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.matcode.com/lzmat.htm%20target=](https://link.jianshu.com/?t=http://www.matcode.com/lzmat.htm%20target=)" target="\_blank" rel="nofollow">LZMAT</a> ：及其快速的实时无损数据压缩库<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/miniz/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/miniz/%20target=)" target="\_blank" rel="nofollow">miniz</a>：单一的C源文件，紧缩/膨胀压缩库，使用zlib兼容API，ZIP归档读写，PNG写方式。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/nmoinvaz/minizip%20target=](https://link.jianshu.com/?t=https://github.com/nmoinvaz/minizip%20target=)" target="\_blank" rel="nofollow">Minizip</a>：Zlib最新bug修复，支持PKWARE磁盘跨越，AES加密和IO缓冲。<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/snappy/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/snappy/%20target=)" target="\_blank" rel="nofollow">Snappy</a> ：快速压缩和解压缩<br> |
|  | <a href="[https://link.jianshu.com?t=http://zlib.net/%20target=](https://link.jianshu.com/?t=http://zlib.net/%20target=)" target="\_blank" rel="nofollow">ZLib</a> ：非常紧凑的数据流压缩库<br> |
|  | <a href="[https://link.jianshu.com?t=http://zziplib.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://zziplib.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">ZZIPlib</a>：提供ZIP归档的读权限。</p> |
|  | <p>并发性<br> |
|  | 并发执行和多线程<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/kylelutz/compute%20target=](https://link.jianshu.com/?t=https://github.com/kylelutz/compute%20target=)" target="\_blank" rel="nofollow">Boost.Compute</a> ：用于OpenCL的C++GPU计算库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/HSA-Libraries/Bolt%20target=](https://link.jianshu.com/?t=https://github.com/HSA-Libraries/Bolt%20target=)" target="\_blank" rel="nofollow">Bolt</a> ：针对GPU进行优化的C++模板库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/schlangster/cpp.react%20target=](https://link.jianshu.com/?t=https://github.com/schlangster/cpp.react%20target=)" target="\_blank" rel="nofollow">C++React</a> ：用于C++11的反应性编程库<br> |
|  | <a href="[https://link.jianshu.com?t=https://www.threadingbuildingblocks.org/%20target=](https://link.jianshu.com/?t=https://www.threadingbuildingblocks.org/%20target=)" target="\_blank" rel="nofollow">Intel TBB</a> ：Intel线程构件块<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/libclsph/libclsph%20target=](https://link.jianshu.com/?t=https://github.com/libclsph/libclsph%20target=)" target="\_blank" rel="nofollow">Libclsph</a>：基于OpenCL的GPU加速SPH流体仿真库<br> |
|  | <a href="[https://link.jianshu.com?t=https://www.khronos.org/opencl/%20target=](https://link.jianshu.com/?t=https://www.khronos.org/opencl/%20target=)" target="\_blank" rel="nofollow">OpenCL</a> ：并行编程的异构系统的开放标准<br> |
|  | <a href="[https://link.jianshu.com?t=http://openmp.org/%20target=](https://link.jianshu.com/?t=http://openmp.org/%20target=)" target="\_blank" rel="nofollow">OpenMP</a>：OpenMP API<br> |
|  | <a href="[https://link.jianshu.com?t=http://thrust.github.io/%20target=](https://link.jianshu.com/?t=http://thrust.github.io/%20target=)" target="\_blank" rel="nofollow">Thrust</a> ：类似于C++标准模板库的并行算法库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/STEllAR-GROUP/hpx/%20target=](https://link.jianshu.com/?t=https://github.com/STEllAR-GROUP/hpx/%20target=)" target="\_blank" rel="nofollow">HPX</a> ：用于任何规模的并行和分布式应用程序的通用C++运行时系统<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/ddemidov/vexcl%20target=](https://link.jianshu.com/?t=https://github.com/ddemidov/vexcl%20target=)" target="\_blank" rel="nofollow">VexCL</a> ：用于OpenCL/CUDA 的C++向量表达式模板库。</p> |
|  | <p>容器<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/cpp-btree/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/cpp-btree/%20target=)" target="\_blank" rel="nofollow">C++ B-tree</a> ：基于B树数据结构，实现命令内存容器的模板库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/goossaert/hashmap%20target=](https://link.jianshu.com/?t=https://github.com/goossaert/hashmap%20target=)" target="\_blank" rel="nofollow">Hashmaps</a>： C++中开放寻址哈希表算法的实现</p> |
|  | <p>密码学<br> |
|  | <a href="[https://link.jianshu.com?t=http://bcrypt.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://bcrypt.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Bcrypt</a> ：一个跨平台的文件加密工具，加密文件可以移植到所有可支持的操作系统和处理器中。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/fffaraz/awesome-cpp/blob/master%20target=](https://link.jianshu.com/?t=https://github.com/fffaraz/awesome-cpp/blob/master%20target=)" target="\_blank" rel="nofollow">BeeCrypt</a>：<br> |
|  | <a href="[https://link.jianshu.com?t=http://botan.randombit.net/%20target=](https://link.jianshu.com/?t=http://botan.randombit.net/%20target=)" target="\_blank" rel="nofollow">Botan</a>： C++加密库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.cryptopp.com/%20target=](https://link.jianshu.com/?t=http://www.cryptopp.com/%20target=)" target="\_blank" rel="nofollow">Crypto++</a>：一个有关加密方案的免费的C++库<br> |
|  | <a href="[https://link.jianshu.com?t=https://www.gnupg.org/%20target=](https://link.jianshu.com/?t=https://www.gnupg.org/%20target=)" target="\_blank" rel="nofollow">GnuPG</a>： OpenPGP标准的完整实现<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.gnutls.org/%20target=](https://link.jianshu.com/?t=http://www.gnutls.org/%20target=)" target="\_blank" rel="nofollow">GnuTLS</a> ：实现了SSL，TLS和DTLS协议的安全通信库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.gnu.org/software/libgcrypt/%20target=](https://link.jianshu.com/?t=http://www.gnu.org/software/libgcrypt/%20target=)" target="\_blank" rel="nofollow">Libgcrypt</a><br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/fffaraz/awesome-cpp/blob/master%20target=](https://link.jianshu.com/?t=https://github.com/fffaraz/awesome-cpp/blob/master%20target=)" target="\_blank" rel="nofollow">libmcrypt</a><br> |
|  | <a href="[https://link.jianshu.com?t=http://www.libressl.org/%20target=](https://link.jianshu.com/?t=http://www.libressl.org/%20target=)" target="\_blank" rel="nofollow">LibreSSL</a>：免费的SSL/TLS协议，属于2014 OpenSSL的一个分支<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/libtom/libtomcrypt%20target=](https://link.jianshu.com/?t=https://github.com/libtom/libtomcrypt%20target=)" target="\_blank" rel="nofollow">LibTomCrypt</a>：一个非常全面的，模块化的，可移植的加密工具<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/jedisct1/libsodium%20target=](https://link.jianshu.com/?t=https://github.com/jedisct1/libsodium%20target=)" target="\_blank" rel="nofollow">libsodium</a>：基于NaCI的加密库，固执己见，容易使用<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.lysator.liu.se/~nisse/nettle/%20target=](https://link.jianshu.com/?t=http://www.lysator.liu.se/~nisse/nettle/%20target=)" target="\_blank" rel="nofollow">Nettle</a> 底层的加密库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.openssl.org/%20target=](https://link.jianshu.com/?t=http://www.openssl.org/%20target=)" target="\_blank" rel="nofollow">OpenSSL</a> ： 一个强大的，商用的，功能齐全的，开放源代码的加密库。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/kokke/tiny-AES128-C%20target=](https://link.jianshu.com/?t=https://github.com/kokke/tiny-AES128-C%20target=)" target="\_blank" rel="nofollow">Tiny AES128 in C</a> ：用C实现的一个小巧，可移植的实现了AES128ESB的加密算法</p> |
|  | <p>数据库<br> |
|  | 数据库，SQL服务器，ODBC驱动程序和工具<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/paulftw/hiberlite%20target=](https://link.jianshu.com/?t=https://github.com/paulftw/hiberlite%20target=)" target="\_blank" rel="nofollow">hiberlite</a> ：用于Sqlite3的C++对象关系映射<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/redis/hiredis%20target=](https://link.jianshu.com/?t=https://github.com/redis/hiredis%20target=)" target="\_blank" rel="nofollow">Hiredis</a>： 用于Redis数据库的很简单的C客户端库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/google/leveldb%20target=](https://link.jianshu.com/?t=https://github.com/google/leveldb%20target=)" target="\_blank" rel="nofollow">LevelDB</a>： 快速键值存储库<br> |
|  | <a href="[https://link.jianshu.com?t=http://symas.com/mdb/%20target=](https://link.jianshu.com/?t=http://symas.com/mdb/%20target=)" target="\_blank" rel="nofollow">LMDB</a>：符合数据库四大基本元素的嵌入键值存储<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.tangentsoft.net/mysql++/%20target=](https://link.jianshu.com/?t=http://www.tangentsoft.net/mysql++/%20target=)" target="\_blank" rel="nofollow">MySQL++</a>：封装了MySql的C API的C++ 包装器<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/facebook/rocksdb%20target=](https://link.jianshu.com/?t=https://github.com/facebook/rocksdb%20target=)" target="\_blank" rel="nofollow">RocksDB</a>：来自Facebook的嵌入键值的快速存储<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.sqlite.org/%20target=](https://link.jianshu.com/?t=http://www.sqlite.org/%20target=)" target="\_blank" rel="nofollow">SQLite</a>：一个完全嵌入式的，功能齐全的关系数据库，只有几百KB，可以正确包含到你的项目中。</p> |
|  | <p>调试<br> |
|  | 调试库， 内存和资源泄露检测，单元测试<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.boost.org/doc/libs/master/libs/test/doc/html/index.html%20target=](https://link.jianshu.com/?t=http://www.boost.org/doc/libs/master/libs/test/doc/html/index.html%20target=)" target="\_blank" rel="nofollow">Boost.Test</a>：Boost测试库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/philsquared/Catch%20target=](https://link.jianshu.com/?t=https://github.com/philsquared/Catch%20target=)" target="\_blank" rel="nofollow">Catch</a>：一个很时尚的，C++原生的框架，只包含头文件，用于单元测试，测试驱动开发和行为驱动开发。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.freedesktop.org/wiki/Software/cppunit/%20target=](https://link.jianshu.com/?t=http://www.freedesktop.org/wiki/Software/cppunit/%20target=)" target="\_blank" rel="nofollow">CppUnit</a>：由JUnit移植过来的C++测试框架<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.cmake.org/cmake/help/v2.8.8/ctest.html%20target=](https://link.jianshu.com/?t=http://www.cmake.org/cmake/help/v2.8.8/ctest.html%20target=)" target="\_blank" rel="nofollow">CTest</a>：CMake测试驱动程序<br> |
|  | <a href="[https://link.jianshu.com?t=http://code.google.com/p/googletest/%20target=](https://link.jianshu.com/?t=http://code.google.com/p/googletest/%20target=)" target="\_blank" rel="nofollow">googletest</a>：谷歌C++测试框架<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/deplinenoise/ig-debugheap%20target=](https://link.jianshu.com/?t=https://github.com/deplinenoise/ig-debugheap%20target=)" target="\_blank" rel="nofollow">ig-debugheap</a>：用于跟踪内存错误的多平台调试堆<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/zorgnax/libtap%20target=](https://link.jianshu.com/?t=https://github.com/zorgnax/libtap%20target=)" target="\_blank" rel="nofollow">libtap</a>：用C语言编写测试<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.almostinfinite.com/memtrack.html%20target=](https://link.jianshu.com/?t=http://www.almostinfinite.com/memtrack.html%20target=)" target="\_blank" rel="nofollow">MemTrack</a> —用于C++跟踪内存分配<br> |
|  | <a href="[https://link.jianshu.com?t=https://bitbucket.org/jonasmeyer/microprofile/overview%20target=](https://link.jianshu.com/?t=https://bitbucket.org/jonasmeyer/microprofile/overview%20target=)" target="\_blank" rel="nofollow">microprofile</a>- 跨平台的网络试图分析器<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.jera.com/techinfo/jtns/jtn002.html%20target=](https://link.jianshu.com/?t=http://www.jera.com/techinfo/jtns/jtn002.html%20target=)" target="\_blank" rel="nofollow">minUnit</a> ：使用C写的迷你单元测试框架，只使用了两个宏<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/Celtoys/Remotery%20target=](https://link.jianshu.com/?t=https://github.com/Celtoys/Remotery%20target=)" target="\_blank" rel="nofollow">Remotery</a>：用于web视图的单一C文件分析器<br> |
|  | <a href="[https://link.jianshu.com?t=http://unittest-cpp.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://unittest-cpp.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">UnitTest++</a>：轻量级的C++单元测试框架</p> |
|  | <p>游戏引擎<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.cocos2d-x.org/%20target=](https://link.jianshu.com/?t=http://www.cocos2d-x.org/%20target=)" target="\_blank" rel="nofollow">Cocos2d-x</a> ：一个跨平台框架，用于构建2D游戏，互动图书，演示和其他图形应用程序。<br> |
|  | <a href="[https://link.jianshu.com?t=http://gritengine.com/%20target=](https://link.jianshu.com/?t=http://gritengine.com/%20target=)" target="\_blank" rel="nofollow">Grit</a> ：社区项目，用于构建一个免费的游戏引擎，实现开放的世界3D游戏。<br> |
|  | <a href="[https://link.jianshu.com?t=http://irrlicht.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://irrlicht.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Irrlicht</a> ：C++语言编写的开源高性能的实时#D引擎<br> |
|  | <a href="[https://link.jianshu.com?t=http://polycode.org/%20target=](https://link.jianshu.com/?t=http://polycode.org/%20target=)" target="\_blank" rel="nofollow">Polycode</a>：C++实现的用于创建游戏的开源框架（与Lua绑定）。</p> |
|  | <p>图形用户界面<br> |
|  | <a href="[https://link.jianshu.com?t=http://cegui.org.uk/%20target=](https://link.jianshu.com/?t=http://cegui.org.uk/%20target=)" target="\_blank" rel="nofollow">CEGUI</a> ： 很灵活的跨平台GUI库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.fltk.org/index.php%20target=](https://link.jianshu.com/?t=http://www.fltk.org/index.php%20target=)" target="\_blank" rel="nofollow">FLTK</a> ：快速，轻量级的跨平台的C++GUI工具包。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.gtk.org/%20target=](https://link.jianshu.com/?t=http://www.gtk.org/%20target=)" target="\_blank" rel="nofollow">GTK+</a>： 用于创建图形用户界面的跨平台工具包<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.gtkmm.org/en/%20target=](https://link.jianshu.com/?t=http://www.gtkmm.org/en/%20target=)" target="\_blank" rel="nofollow">gtkmm</a> ：用于受欢迎的GUI库GTK+的官方C++接口。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/ocornut/imgui%20target=](https://link.jianshu.com/?t=https://github.com/ocornut/imgui%20target=)" target="\_blank" rel="nofollow">imgui</a>：拥有最小依赖关系的立即模式图形用户界面<br> |
|  | <a href="[https://link.jianshu.com?t=http://librocket.com/%20target=](https://link.jianshu.com/?t=http://librocket.com/%20target=)" target="\_blank" rel="nofollow">libRocket</a> ： <a href="[https://link.jianshu.com?t=http://librocket.com/%20target=](https://link.jianshu.com/?t=http://librocket.com/%20target=)" target="\_blank" rel="nofollow">libRocket</a> 是一个C++ HTML/CSS 游戏接口中间件<br> |
|  | <a href="[https://link.jianshu.com?t=http://mygui.info/%20target=](https://link.jianshu.com/?t=http://mygui.info/%20target=)" target="\_blank" rel="nofollow">MyGUI</a> ：快速，灵活，简单的GUI<br> |
|  | <a href="[https://link.jianshu.com?t=http://invisible-island.net/ncurses/%20target=](https://link.jianshu.com/?t=http://invisible-island.net/ncurses/%20target=)" target="\_blank" rel="nofollow">Ncurses</a>：终端用户界面<br> |
|  | <a href="[https://link.jianshu.com?t=http://qcustomplot.com/%20target=](https://link.jianshu.com/?t=http://qcustomplot.com/%20target=)" target="\_blank" rel="nofollow">QCustomPlot</a> ：没有更多依赖关系的Qt绘图控件<br> |
|  | <a href="[https://link.jianshu.com?t=http://qwt.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://qwt.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Qwt</a> ：用户与技术应用的Qt 控件<br> |
|  | <a href="[https://link.jianshu.com?t=http://qwtplot3d.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://qwtplot3d.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">QwtPlot3D</a> ：功能丰富的基于Qt/OpenGL的C++编程库，本质上提供了一群3D控件<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/Twolewis/OtterUI%20target=](https://link.jianshu.com/?t=https://github.com/Twolewis/OtterUI%20target=)" target="\_blank" rel="nofollow">OtterUI</a> ： <a href="[https://link.jianshu.com?t=https://github.com/Twolewis/OtterUI%20target=](https://link.jianshu.com/?t=https://github.com/Twolewis/OtterUI%20target=)" target="\_blank" rel="nofollow">OtterUI</a> 是用于嵌入式系统和互动娱乐软件的用户界面开发解决方案<br> |
|  | <a href="[https://link.jianshu.com?t=http://pdcurses.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://pdcurses.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">PDCurses</a> 包含源代码和预编译库的公共图形函数库<br> |
|  | <a href="[https://link.jianshu.com?t=http://wxwidgets.org/%20target=](https://link.jianshu.com/?t=http://wxwidgets.org/%20target=)" target="\_blank" rel="nofollow">wxWidgets</a> C++库，允许开发人员使用一个代码库可以为widows， Mac OS X，Linux和其他平台创建应用程序</p> |
|  | <p>图形<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/bkaradzic/bgfx%20target=](https://link.jianshu.com/?t=https://github.com/bkaradzic/bgfx%20target=)" target="\_blank" rel="nofollow">bgfx</a>：跨平台的渲染库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.cairographics.org/%20target=](https://link.jianshu.com/?t=http://www.cairographics.org/%20target=)" target="\_blank" rel="nofollow">Cairo</a>：支持多种输出设备的2D图形库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/horde3d/Horde3D%20target=](https://link.jianshu.com/?t=https://github.com/horde3d/Horde3D%20target=)" target="\_blank" rel="nofollow">Horde3D</a> 一个小型的3D渲染和动画引擎<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/mosra/magnum%20target=](https://link.jianshu.com/?t=https://github.com/mosra/magnum%20target=)" target="\_blank" rel="nofollow">magnum</a> C++11和OpenGL 2D/3D 图形引擎<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.ogre3d.org/%20target=](https://link.jianshu.com/?t=http://www.ogre3d.org/%20target=)" target="\_blank" rel="nofollow">Ogre 3D</a> 用C++编写的一个面向场景，实时，灵活的3D渲染引擎（并非游戏引擎）<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.openscenegraph.org/%20target=](https://link.jianshu.com/?t=http://www.openscenegraph.org/%20target=)" target="\_blank" rel="nofollow">OpenSceneGraph</a> 具有高性能的开源3D图形工具包<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.panda3d.org/%20target=](https://link.jianshu.com/?t=http://www.panda3d.org/%20target=)" target="\_blank" rel="nofollow">Panda3D</a> 用于3D渲染和游戏开发的框架，用Python和C++编写。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/google/skia%20target=](https://link.jianshu.com/?t=https://github.com/google/skia%20target=)" target="\_blank" rel="nofollow">Skia</a> 用于绘制文字，图形和图像的完整的2D图形库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/urho3d/Urho3D%20target=](https://link.jianshu.com/?t=https://github.com/urho3d/Urho3D%20target=)" target="\_blank" rel="nofollow">urho3d</a> 跨平台的渲染和游戏引擎。</p> |
|  | <p>图像处理<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.boost.org/doc/libs/1\_56\_0/libs/gil/doc/index.html%20target=](https://link.jianshu.com/?t=http://www.boost.org/doc/libs/1_56_0/libs/gil/doc/index.html%20target=)" target="\_blank" rel="nofollow">Boost.GIL</a>：通用图像库<br> |
|  | <a href="[https://link.jianshu.com?t=http://cimg.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://cimg.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">CImg</a> ：用于图像处理的小型开源C++工具包<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.xdp.it/cximage.htm%20target=](https://link.jianshu.com/?t=http://www.xdp.it/cximage.htm%20target=)" target="\_blank" rel="nofollow">CxImage</a> ：用于加载，保存，显示和转换的图像处理和转换库，可以处理的图片格式包括 BMP, JPEG, GIF, PNG, TIFF, MNG, ICO, PCX, TGA, WMF, WBMP, JBG, J2K。<br> |
|  | <a href="[https://link.jianshu.com?t=http://freeimage.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://freeimage.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">FreeImage</a> ：开源库，支持现在多媒体应用所需的通用图片格式和其他格式。<br> |
|  | <a href="[https://link.jianshu.com?t=http://gdcm.sourceforge.net/wiki/index.php/Main\_Page%20target=](https://link.jianshu.com/?t=http://gdcm.sourceforge.net/wiki/index.php/Main_Page%20target=)" target="\_blank" rel="nofollow">GDCM</a>：Grassroots DICOM 库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.itk.org/%20target=](https://link.jianshu.com/?t=http://www.itk.org/%20target=)" target="\_blank" rel="nofollow">ITK</a>：跨平台的开源图像分析系统<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.imagemagick.org/script/api.php%20target=](https://link.jianshu.com/?t=http://www.imagemagick.org/script/api.php%20target=)" target="\_blank" rel="nofollow">Magick++</a>：ImageMagick程序的C++接口<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.imagemagick.org/script/api.php%20target=](https://link.jianshu.com/?t=http://www.imagemagick.org/script/api.php%20target=)" target="\_blank" rel="nofollow">MagickWnd</a>：ImageMagick程序的C++接口<br> |
|  | <a href="[https://link.jianshu.com?t=http://opencv.org/%20target=](https://link.jianshu.com/?t=http://opencv.org/%20target=)" target="\_blank" rel="nofollow">OpenCV</a> ： 开源计算机视觉类库<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/tesseract-ocr/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/tesseract-ocr/%20target=)" target="\_blank" rel="nofollow">tesseract-ocr</a>：OCR引擎<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/ukoethe/vigra%20target=](https://link.jianshu.com/?t=https://github.com/ukoethe/vigra%20target=)" target="\_blank" rel="nofollow">VIGRA</a> ：用于图像分析通用C++计算机视觉库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.vtk.org/%20target=](https://link.jianshu.com/?t=http://www.vtk.org/%20target=)" target="\_blank" rel="nofollow">VTK</a> ：用于3D计算机图形学，图像处理和可视化的开源免费软件系统。</p> |
|  | <p>国际化<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.gnu.org/software/gettext/%20target=](https://link.jianshu.com/?t=http://www.gnu.org/software/gettext/%20target=)" target="\_blank" rel="nofollow">gettext</a> ：GNU `gettext’<br> |
|  | <a href="[https://link.jianshu.com?t=http://site.icu-project.org/%20target=](https://link.jianshu.com/?t=http://site.icu-project.org/%20target=)" target="\_blank" rel="nofollow">IBM ICU</a>：提供Unicode 和全球化支持的C、C++ 和Java库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.gnu.org/software/libiconv/%20target=](https://link.jianshu.com/?t=http://www.gnu.org/software/libiconv/%20target=)" target="\_blank" rel="nofollow">libiconv</a> ：用于不同字符编码之间的编码转换库</p> |
|  | <p>Jason<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/cesanta/frozen%20target=](https://link.jianshu.com/?t=https://github.com/cesanta/frozen%20target=)" target="\_blank" rel="nofollow">frozen</a> ： C/C++的Jason解析生成器<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/akheron/jansson%20target=](https://link.jianshu.com/?t=https://github.com/akheron/jansson%20target=)" target="\_blank" rel="nofollow">Jansson</a> ：进行编解码和处理Jason数据的C语言库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/chrismanning/jbson%20target=](https://link.jianshu.com/?t=https://github.com/chrismanning/jbson%20target=)" target="\_blank" rel="nofollow">jbson</a> ：C++14中构建和迭代BSON data,和Json 文档的库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/jeaye/jeayeson%20target=](https://link.jianshu.com/?t=https://github.com/jeaye/jeayeson%20target=)" target="\_blank" rel="nofollow">JeayeSON</a>：非常健全的C++ JSON库，只包含头文件<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/hjiang/jsonxx%20target=](https://link.jianshu.com/?t=https://github.com/hjiang/jsonxx%20target=)" target="\_blank" rel="nofollow">JSON++</a> ： C++ JSON 解析器<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/udp/json-parser%20target=](https://link.jianshu.com/?t=https://github.com/udp/json-parser%20target=)" target="\_blank" rel="nofollow">json-parser</a>：用可移植的ANSI C编写的JSON解析器，占用内存非常少<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/dropbox/json11%20target=](https://link.jianshu.com/?t=https://github.com/dropbox/json11%20target=)" target="\_blank" rel="nofollow">json11</a> ：一个迷你的C++11 JSON库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/amir-s/jute%20target=](https://link.jianshu.com/?t=https://github.com/amir-s/jute%20target=)" target="\_blank" rel="nofollow">jute</a> ：非常简单的C++ JSON解析器<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/vincenthz/libjson%20target=](https://link.jianshu.com/?t=https://github.com/vincenthz/libjson%20target=)" target="\_blank" rel="nofollow">ibjson</a>：C语言中的JSON解析和打印库，很容易和任何模型集成。<br> |
|  | <a href="[https://link.jianshu.com?t=http://sourceforge.net/projects/libjson/%20target=](https://link.jianshu.com/?t=http://sourceforge.net/projects/libjson/%20target=)" target="\_blank" rel="nofollow">libjson</a>：轻量级的JSON库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/kazuho/picojson%20target=](https://link.jianshu.com/?t=https://github.com/kazuho/picojson%20target=)" target="\_blank" rel="nofollow">PicoJSON</a>：C++中JSON解析序列化，只包含头文件<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/gaudecker/qt-json%20target=](https://link.jianshu.com/?t=https://github.com/gaudecker/qt-json%20target=)" target="\_blank" rel="nofollow">qt-json</a> ：用于JSON数据和 QVariant层次间的相互解析的简单类<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/flavio/qjson%20target=](https://link.jianshu.com/?t=https://github.com/flavio/qjson%20target=)" target="\_blank" rel="nofollow">QJson</a>：将JSON数据映射到QVariant对象的基于Qt的库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/miloyip/rapidjson%20target=](https://link.jianshu.com/?t=https://github.com/miloyip/rapidjson%20target=)" target="\_blank" rel="nofollow">RapidJSON</a>： 用于C++的快速JSON 解析生成器，包含SAX和DOM两种风格的API<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/lloyd/yajl%20target=](https://link.jianshu.com/?t=https://github.com/lloyd/yajl%20target=)" target="\_blank" rel="nofollow">YAJL</a> ：C语言中快速流JSON解析库</p> |
|  | <p>日志<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.boost.org/doc/libs/1\_56\_0/libs/log/doc/html/index.html%20target=](https://link.jianshu.com/?t=http://www.boost.org/doc/libs/1_56_0/libs/log/doc/html/index.html%20target=)" target="\_blank" rel="nofollow">Boost.Log</a> ：设计非常模块化，并且具有扩展性<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/easylogging/easyloggingpp%20target=](https://link.jianshu.com/?t=https://github.com/easylogging/easyloggingpp%20target=)" target="\_blank" rel="nofollow">easyloggingpp</a>：C++日志库，只包含单一的头文件。<br> |
|  | <a href="[https://link.jianshu.com?t=http://log4cpp.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://log4cpp.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Log4cpp</a> ：一系列C++类库，灵活添加日志到文件，系统日志，IDSA和其他地方。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.templog.org/%20target=](https://link.jianshu.com/?t=http://www.templog.org/%20target=)" target="\_blank" rel="nofollow">templog</a>：轻量级C++库，可以添加日志到你的C++应用程序中</p> |
|  | <p>机器学习<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/BVLC/caffe%20target=](https://link.jianshu.com/?t=https://github.com/BVLC/caffe%20target=)" target="\_blank" rel="nofollow">Caffe</a> ：快速的神经网络框架<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/liuliu/ccv%20target=](https://link.jianshu.com/?t=https://github.com/liuliu/ccv%20target=)" target="\_blank" rel="nofollow">CCV</a> ：以C语言为核心的现代计算机视觉库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.mlpack.org/%20target=](https://link.jianshu.com/?t=http://www.mlpack.org/%20target=)" target="\_blank" rel="nofollow">mlpack</a> ：可扩展的C++机器学习库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/Itseez/opencv%20target=](https://link.jianshu.com/?t=https://github.com/Itseez/opencv%20target=)" target="\_blank" rel="nofollow">OpenCV</a>：开源计算机视觉库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/GHamrouni/Recommender%20target=](https://link.jianshu.com/?t=https://github.com/GHamrouni/Recommender%20target=)" target="\_blank" rel="nofollow">Recommender</a>：使用协同过滤进行产品推荐/建议的C语言库。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/shogun-toolbox/shogun%20target=](https://link.jianshu.com/?t=https://github.com/shogun-toolbox/shogun%20target=)" target="\_blank" rel="nofollow">SHOGUN</a>：Shogun 机器学习工具<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/sofia-ml/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/sofia-ml/%20target=)" target="\_blank" rel="nofollow">sofia-ml</a> ：用于机器学习的快速增量算法套件</p> |
|  | <p>数学<br> |
|  | <a href="[https://link.jianshu.com?t=http://arma.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://arma.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Armadillo</a> ：高质量的C++线性代数库，速度和易用性做到了很好的平衡。语法和MatlAB很相似<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/blaze-lib/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/blaze-lib/%20target=)" target="\_blank" rel="nofollow">blaze</a>：高性能的C++数学库，用于密集和稀疏算法。<br> |
|  | <a href="[https://link.jianshu.com?t=http://ceres-solver.org/%20target=](https://link.jianshu.com/?t=http://ceres-solver.org/%20target=)" target="\_blank" rel="nofollow">ceres-solver</a> ：来自谷歌的C++库，用于建模和解决大型复杂非线性最小平方问题。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.cgal.org/%20target=](https://link.jianshu.com/?t=http://www.cgal.org/%20target=)" target="\_blank" rel="nofollow">CGal</a>： 高效，可靠的集合算法集合<br> |
|  | <a href="[https://link.jianshu.com?t=http://cmldev.net/%20target=](https://link.jianshu.com/?t=http://cmldev.net/%20target=)" target="\_blank" rel="nofollow">cml</a> ：用于游戏和图形的免费C++数学库<br> |
|  | <a href="[https://link.jianshu.com?t=http://eigen.tuxfamily.org/%20target=](https://link.jianshu.com/?t=http://eigen.tuxfamily.org/%20target=)" target="\_blank" rel="nofollow">Eigen</a> ：高级C++模板头文件库，包括线性代数，矩阵，向量操作，数值解决和其他相关的算法。<br> |
|  | <a href="[https://link.jianshu.com?t=http://ggt.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://ggt.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">GMTL</a>：数学图形模板库是一组广泛实现基本图形的工具。<br> |
|  | <a href="[https://link.jianshu.com?t=https://gmplib.org/%20target=](https://link.jianshu.com/?t=https://gmplib.org/%20target=)" target="\_blank" rel="nofollow">GMP</a>：用于个高精度计算的C/C++库，处理有符号整数，有理数和浮点数。</p> |
|  | <p>多媒体<br> |
|  | <a href="[https://link.jianshu.com?t=http://gstreamer.freedesktop.org/%20target=](https://link.jianshu.com/?t=http://gstreamer.freedesktop.org/%20target=)" target="\_blank" rel="nofollow">GStreamer</a> ：构建媒体处理组件图形的库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.live555.com/liveMedia/%20target=](https://link.jianshu.com/?t=http://www.live555.com/liveMedia/%20target=)" target="\_blank" rel="nofollow">LIVE555 Streaming Media</a> ：使用开放标准协议(RTP/RTCP, RTSP, SIP) 的多媒体流库<br> |
|  | <a href="[https://link.jianshu.com?t=https://wiki.videolan.org/LibVLC%20target=](https://link.jianshu.com/?t=https://wiki.videolan.org/LibVLC%20target=)" target="\_blank" rel="nofollow">libVLC</a> ：libVLC (VLC SDK)媒体框架<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/wang-bin/QtAV%20target=](https://link.jianshu.com/?t=https://github.com/wang-bin/QtAV%20target=)" target="\_blank" rel="nofollow">QtAv</a>：基于Qt和FFmpeg的多媒体播放框架，能够帮助你轻而易举地编写出一个播放器<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.libsdl.org/%20target=](https://link.jianshu.com/?t=http://www.libsdl.org/%20target=)" target="\_blank" rel="nofollow">SDL</a> ：简单直控媒体层<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.sfml-dev.org/%20target=](https://link.jianshu.com/?t=http://www.sfml-dev.org/%20target=)" target="\_blank" rel="nofollow">SFML</a> ：快速，简单的多媒体库</p> |
|  | <p>网络<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.cs.wustl.edu/~schmidt/ACE.html%20target=](https://link.jianshu.com/?t=http://www.cs.wustl.edu/~schmidt/ACE.html%20target=)" target="\_blank" rel="nofollow">ACE</a>：C++面向对象网络变成工具包<br> |
|  | <a href="[https://link.jianshu.com?t=http://think-async.com/%20target=](https://link.jianshu.com/?t=http://think-async.com/%20target=)" target="\_blank" rel="nofollow">Boost.Asio</a>：用于网络和底层I/O编程的跨平台的C++库<br> |
|  | <a href="[https://link.jianshu.com?t=http://casablanca.codeplex.com/%20target=](https://link.jianshu.com/?t=http://casablanca.codeplex.com/%20target=)" target="\_blank" rel="nofollow">Casablanca</a>：C++ REST SDK<br> |
|  | <a href="[https://link.jianshu.com?t=http://cpp-netlib.org/%20target=](https://link.jianshu.com/?t=http://cpp-netlib.org/%20target=)" target="\_blank" rel="nofollow">cpp-netlib</a>：高级网络编程的开源库集合<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/rxi/dyad%20target=](https://link.jianshu.com/?t=https://github.com/rxi/dyad%20target=)" target="\_blank" rel="nofollow">Dyad.c</a>：C语言的异步网络<br> |
|  | <a href="[https://link.jianshu.com?t=http://curl.haxx.se/libcurl/%20target=](https://link.jianshu.com/?t=http://curl.haxx.se/libcurl/%20target=)" target="\_blank" rel="nofollow">libcurl</a> :多协议文件传输库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/cesanta/mongoose%20target=](https://link.jianshu.com/?t=https://github.com/cesanta/mongoose%20target=)" target="\_blank" rel="nofollow">Mongoose</a>：非常轻量级的网络服务器<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/chenshuo/muduo%20target=](https://link.jianshu.com/?t=https://github.com/chenshuo/muduo%20target=)" target="\_blank" rel="nofollow">Muduo</a> ：用于Linux多线程服务器的C++非阻塞网络库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/cesanta/net\_skeleton%20target=](https://link.jianshu.com/?t=https://github.com/cesanta/net_skeleton%20target=)" target="\_blank" rel="nofollow">net\_skeleton</a> ：C/C++的TCP 客户端/服务器库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/riolet/nope.c%20target=](https://link.jianshu.com/?t=https://github.com/riolet/nope.c%20target=)" target="\_blank" rel="nofollow">nope.c</a> ：基于C语言的超轻型软件平台，用于可扩展的服务器端和网络应用。 对于C编程人员，可以考虑node.js<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/davidmoreno/onion%20target=](https://link.jianshu.com/?t=https://github.com/davidmoreno/onion%20target=)" target="\_blank" rel="nofollow">Onion</a> :C语言HTTP服务器库，其设计为轻量级，易使用。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/pocoproject%20target=](https://link.jianshu.com/?t=https://github.com/pocoproject%20target=)" target="\_blank" rel="nofollow">POCO</a>：用于构建网络和基于互联网应用程序的C++类库，可以运行在桌面，服务器，移动和嵌入式系统。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/OculusVR/RakNet%20target=](https://link.jianshu.com/?t=https://github.com/OculusVR/RakNet%20target=)" target="\_blank" rel="nofollow">RakNet</a>：为游戏开发人员提供的跨平台的开源C++网络引擎。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/vinipsmaker/tufao%20target=](https://link.jianshu.com/?t=https://github.com/vinipsmaker/tufao%20target=)" target="\_blank" rel="nofollow">Tuf o</a> ：用于Qt之上的C++构建的异步Web框架。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/zaphoyd/websocketpp%20target=](https://link.jianshu.com/?t=https://github.com/zaphoyd/websocketpp%20target=)" target="\_blank" rel="nofollow">WebSocket++</a> ：基于C++/Boost Aiso的websocket 客户端/服务器库<br> |
|  | <a href="[https://link.jianshu.com?t=http://zeromq.org/%20target=](https://link.jianshu.com/?t=http://zeromq.org/%20target=)" target="\_blank" rel="nofollow">ZeroMQ</a> ：高速，模块化的异步通信库</p> |
|  | <p>物理学<br> |
|  | 动力学仿真引擎<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/box2d/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/box2d/%20target=)" target="\_blank" rel="nofollow">Box2D</a>：2D的游戏物理引擎。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/bulletphysics/bullet3%20target=](https://link.jianshu.com/?t=https://github.com/bulletphysics/bullet3%20target=)" target="\_blank" rel="nofollow">Bullet</a> ：3D的游戏物理引擎。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/slembcke/Chipmunk2D%20target=](https://link.jianshu.com/?t=https://github.com/slembcke/Chipmunk2D%20target=)" target="\_blank" rel="nofollow">Chipmunk</a> ：快速，轻量级的2D游戏物理库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/google/liquidfun%20target=](https://link.jianshu.com/?t=https://github.com/google/liquidfun%20target=)" target="\_blank" rel="nofollow">LiquidFun</a>：2D的游戏物理引擎<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.ode.org/%20target=](https://link.jianshu.com/?t=http://www.ode.org/%20target=)" target="\_blank" rel="nofollow">ODE</a> ：开放动力学引擎-开源，高性能库，模拟刚体动力学。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/vanderlin/ofxBox2d%20target=](https://link.jianshu.com/?t=https://github.com/vanderlin/ofxBox2d%20target=)" target="\_blank" rel="nofollow">ofxBox2d</a>：Box2D开源框架包装器。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/simbody/simbody%20target=](https://link.jianshu.com/?t=https://github.com/simbody/simbody%20target=)" target="\_blank" rel="nofollow">Simbody</a> ：高性能C++多体动力学/物理库，模拟关节生物力学和机械系统，像车辆，机器人和人体骨骼。</p> |
|  | <p>机器人学<br> |
|  | <a href="[https://link.jianshu.com?t=http://moos-ivp.org/%20target=](https://link.jianshu.com/?t=http://moos-ivp.org/%20target=)" target="\_blank" rel="nofollow">MOOS-IvP</a> ：一组开源C++模块，提供机器人平台的自主权，尤其是自主的海洋车辆。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.mrpt.org/%20target=](https://link.jianshu.com/?t=http://www.mrpt.org/%20target=)" target="\_blank" rel="nofollow">MRPT</a>：移动机器人编程工具包<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/PointCloudLibrary/pcl%20target=](https://link.jianshu.com/?t=https://github.com/PointCloudLibrary/pcl%20target=)" target="\_blank" rel="nofollow">PCL</a> ：点云库是一个独立的，大规模的开放项目，用于2D/3D图像和点云处理。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.roboticslibrary.org/%20target=](https://link.jianshu.com/?t=http://www.roboticslibrary.org/%20target=)" target="\_blank" rel="nofollow">Robotics Library (RL)</a>： 一个独立的C++库，包括机器人动力学，运动规划和控制。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.robwork.dk/jrobwork/%20target=](https://link.jianshu.com/?t=http://www.robwork.dk/jrobwork/%20target=)" target="\_blank" rel="nofollow">RobWork</a>：一组C++库的集合，用于机器人系统的仿真和控制。<br> |
|  | <a href="[https://link.jianshu.com?t=http://wiki.ros.org/%20target=](https://link.jianshu.com/?t=http://wiki.ros.org/%20target=)" target="\_blank" rel="nofollow">ROS</a> ：机器人操作系统，提供了一些库和工具帮助软件开发人员创建机器人应用程序。</p> |
|  | <p>科学计算<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.fftw.org/%20target=](https://link.jianshu.com/?t=http://www.fftw.org/%20target=)" target="\_blank" rel="nofollow">FFTW</a> :用一维或者多维计算DFT的C语言库。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.gnu.org/software/gsl/%20target=](https://link.jianshu.com/?t=http://www.gnu.org/software/gsl/%20target=)" target="\_blank" rel="nofollow">GSL</a>：GNU科学库。</p> |
|  | <p>脚本<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/ChaiScript/ChaiScript/%20target=](https://link.jianshu.com/?t=https://github.com/ChaiScript/ChaiScript/%20target=)" target="\_blank" rel="nofollow">ChaiScript</a> ：用于C++的易于使用的嵌入式脚本语言。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.lua.org/%20target=](https://link.jianshu.com/?t=http://www.lua.org/%20target=)" target="\_blank" rel="nofollow">Lua</a> ：用于配置文件和基本应用程序脚本的小型快速脚本引擎。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/dafrito/luacxx%20target=](https://link.jianshu.com/?t=https://github.com/dafrito/luacxx%20target=)" target="\_blank" rel="nofollow">luacxx</a>：用于创建Lua绑定的C++ 11 API<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.swig.org/%20target=](https://link.jianshu.com/?t=http://www.swig.org/%20target=)" target="\_blank" rel="nofollow">SWIG</a> ：一个可以让你的C++代码链接到JavaScript，Perl，PHP，Python，Tcl和Ruby的包装器/接口生成器<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/cesanta/v7%20target=](https://link.jianshu.com/?t=https://github.com/cesanta/v7%20target=)" target="\_blank" rel="nofollow">V7</a>：嵌入式的JavaScript 引擎。<br> |
|  | <a href="[https://link.jianshu.com?t=http://code.google.com/p/v8/%20target=](https://link.jianshu.com/?t=http://code.google.com/p/v8/%20target=)" target="\_blank" rel="nofollow">V8</a> ：谷歌的快速JavaScript引擎，可以被嵌入到任何C++应用程序中。</p> |
|  | <p>序列化<br> |
|  | <a href="[https://link.jianshu.com?t=http://kentonv.github.io/capnproto/%20target=](https://link.jianshu.com/?t=http://kentonv.github.io/capnproto/%20target=)" target="\_blank" rel="nofollow">Cap’n Proto</a> ：快速数据交换格式和RPC系统。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/USCiLab/cereal%20target=](https://link.jianshu.com/?t=https://github.com/USCiLab/cereal%20target=)" target="\_blank" rel="nofollow">cereal</a> ：C++11 序列化库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/google/flatbuffers%20target=](https://link.jianshu.com/?t=https://github.com/google/flatbuffers%20target=)" target="\_blank" rel="nofollow">FlatBuffers</a> ：内存高效的序列化库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/msgpack/msgpack-c%20target=](https://link.jianshu.com/?t=https://github.com/msgpack/msgpack-c%20target=)" target="\_blank" rel="nofollow">MessagePack</a> ：C/C++的高效二进制序列化库，例如 JSON<br> |
|  | <a href="[https://link.jianshu.com?t=http://code.google.com/p/protobuf/%20target=](https://link.jianshu.com/?t=http://code.google.com/p/protobuf/%20target=)" target="\_blank" rel="nofollow">protobuf</a> ：协议缓冲，谷歌的数据交换格式。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/protobuf-c/protobuf-c%20target=](https://link.jianshu.com/?t=https://github.com/protobuf-c/protobuf-c%20target=)" target="\_blank" rel="nofollow">protobuf-c</a> ：C语言的协议缓冲实现<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/real-logic/simple-binary-encoding%20target=](https://link.jianshu.com/?t=https://github.com/real-logic/simple-binary-encoding%20target=)" target="\_blank" rel="nofollow">SimpleBinaryEncoding</a>：用于低延迟应用程序的对二进制格式的应用程序信息的编码和解码。<br> |
|  | <a href="[https://link.jianshu.com?t=https://thrift.apache.org/%20target=](https://link.jianshu.com/?t=https://thrift.apache.org/%20target=)" target="\_blank" rel="nofollow">Thrift</a> ：高效的跨语言IPC/RPC，用于C++，Java，Python，PHP，C#和其它多种语言中，最初由Twitter开发。</p> |
|  | <p>视频<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.webmproject.org/code/%20target=](https://link.jianshu.com/?t=http://www.webmproject.org/code/%20target=)" target="\_blank" rel="nofollow">libvpx</a> ：VP8/VP9编码解码SDK<br> |
|  | <a href="[https://link.jianshu.com?t=https://www.ffmpeg.org/%20target=](https://link.jianshu.com/?t=https://www.ffmpeg.org/%20target=)" target="\_blank" rel="nofollow">FFmpeg</a> ：一个完整的，跨平台的解决方案，用于记录，转换视频和音频流。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/strukturag/libde265%20target=](https://link.jianshu.com/?t=https://github.com/strukturag/libde265%20target=)" target="\_blank" rel="nofollow">libde265</a> ：开放的h.265视频编解码器的实现。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/cisco/openh264%20target=](https://link.jianshu.com/?t=https://github.com/cisco/openh264%20target=)" target="\_blank" rel="nofollow">OpenH264</a>：开源H.364 编解码器。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.theora.org/%20target=](https://link.jianshu.com/?t=http://www.theora.org/%20target=)" target="\_blank" rel="nofollow">Theora</a> ：免费开源的视频压缩格式。</p> |
|  | <p>虚拟机<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/tekknolagi/carp%20target=](https://link.jianshu.com/?t=https://github.com/tekknolagi/carp%20target=)" target="\_blank" rel="nofollow">CarpVM</a>：C中有趣的VM，让我们一起来看看这个。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/micropython/micropython%20target=](https://link.jianshu.com/?t=https://github.com/micropython/micropython%20target=)" target="\_blank" rel="nofollow">MicroPython</a> ：旨在实现单片机上Python3.x的实现<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/jakogut/tinyvm%20target=](https://link.jianshu.com/?t=https://github.com/jakogut/tinyvm%20target=)" target="\_blank" rel="nofollow">TinyVM</a>：用纯粹的ANSI C编写的小型，快速，轻量级的虚拟机。</p> |
|  | <p>Web应用框架<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/bel2125/civetweb%20target=](https://link.jianshu.com/?t=https://github.com/bel2125/civetweb%20target=)" target="\_blank" rel="nofollow">Civetweb</a> ：提供易于使用，强大的，C/C++嵌入式Web服务器，带有可选的CGI，SSL和Lua支持。<br> |
|  | <a href="[https://link.jianshu.com?t=http://cppcms.com/%20target=](https://link.jianshu.com/?t=http://cppcms.com/%20target=)" target="\_blank" rel="nofollow">CppCMS</a> ：免费高性能的Web开发框架（不是 CMS）.<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/ipkn/crow%20target=](https://link.jianshu.com/?t=https://github.com/ipkn/crow%20target=)" target="\_blank" rel="nofollow">Crow</a> ：一个C++微型web框架（灵感来自于Python Flask）<br> |
|  | <a href="[https://link.jianshu.com?t=https://kore.io/%20target=](https://link.jianshu.com/?t=https://kore.io/%20target=)" target="\_blank" rel="nofollow">Kore</a> :使用C语言开发的用于web应用程序的超快速和灵活的web服务器/框架。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.coralbits.com/libonion/%20target=](https://link.jianshu.com/?t=http://www.coralbits.com/libonion/%20target=)" target="\_blank" rel="nofollow">libOnion</a>：轻量级的库，帮助你使用C编程语言创建web服务器。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/jlaine/qdjango/%20target=](https://link.jianshu.com/?t=https://github.com/jlaine/qdjango/%20target=)" target="\_blank" rel="nofollow">QDjango</a>：使用C++编写的，基于Qt库的web框架，试图效仿Django API，因此得此名。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.webtoolkit.eu/wt%20target=](https://link.jianshu.com/?t=http://www.webtoolkit.eu/wt%20target=)" target="\_blank" rel="nofollow">Wt</a> ：开发Web应用的C++库。</p> |
|  | <p>XML<br> |
|  | XML就是个垃圾，xml的解析很烦人，对于计算机它也是个灾难。这种糟糕的东西完全没有存在的理由了。——Linus Torvalds<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.libexpat.org/%20target=](https://link.jianshu.com/?t=http://www.libexpat.org/%20target=)" target="\_blank" rel="nofollow">Expat</a> ：用C语言编写的xml解析库<br> |
|  | <a href="[https://link.jianshu.com?t=http://xmlsoft.org/%20target=](https://link.jianshu.com/?t=http://xmlsoft.org/%20target=)" target="\_blank" rel="nofollow">Libxml2</a> ：Gnome的xml C解析器和工具包<br> |
|  | <a href="[https://link.jianshu.com?t=http://libxmlplusplus.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://libxmlplusplus.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">libxml++</a> ：C++的xml解析器<br> |
|  | <a href="[https://link.jianshu.com?t=http://pugixml.org/%20target=](https://link.jianshu.com/?t=http://pugixml.org/%20target=)" target="\_blank" rel="nofollow">PugiXML</a> ：用于C++的，支持XPath的轻量级，简单快速的XML解析器。<br> |
|  | <a href="[https://link.jianshu.com?t=http://rapidxml.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://rapidxml.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">RapidXml</a> ：试图创建最快速的XML解析器，同时保持易用性，可移植性和合理的W3C兼容性。<br> |
|  | <a href="[https://link.jianshu.com?t=http://sourceforge.net/projects/tinyxml/%20target=](https://link.jianshu.com/?t=http://sourceforge.net/projects/tinyxml/%20target=)" target="\_blank" rel="nofollow">TinyXML</a> ：简单小型的C++XML解析器，可以很容易地集成到其它项目中。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/leethomason/tinyxml2%20target=](https://link.jianshu.com/?t=https://github.com/leethomason/tinyxml2%20target=)" target="\_blank" rel="nofollow">TinyXML2</a>：简单快速的C++CML解析器，可以很容易集成到其它项目中。<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/ticpp/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/ticpp/%20target=)" target="\_blank" rel="nofollow">TinyXML++</a>：TinyXML的一个全新的接口，使用了C++的许多许多优势，模板，异常和更好的异常处理。<br> |
|  | <a href="[https://link.jianshu.com?t=http://xerces.apache.org/xerces-c/%20target=](https://link.jianshu.com/?t=http://xerces.apache.org/xerces-c/%20target=)" target="\_blank" rel="nofollow">Xerces-C++</a> ：用可移植的C++的子集编写的XML验证解析器。</p> |
|  | <p>多项混杂<br> |
|  | 一些有用的库或者工具，但是不适合上面的分类，或者还没有分类。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/cppformat/cppformat%20target=](https://link.jianshu.com/?t=https://github.com/cppformat/cppformat%20target=)" target="\_blank" rel="nofollow">C++ Format</a> ：C++的小型，安全和快速格式化库<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/casacore/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/casacore/%20target=)" target="\_blank" rel="nofollow">casacore</a> ：从aips++ 派生的一系列C++核心库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/louisdx/cxx-prettyprint%20target=](https://link.jianshu.com/?t=https://github.com/louisdx/cxx-prettyprint%20target=)" target="\_blank" rel="nofollow">cxx-prettyprint</a>：用于C++容器的打印库<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.dynaforms.com/%20target=](https://link.jianshu.com/?t=http://www.dynaforms.com/%20target=)" target="\_blank" rel="nofollow">DynaPDF</a> ：易于使用的PDF生成库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/leafsr/gcc-poison%20target=](https://link.jianshu.com/?t=https://github.com/leafsr/gcc-poison%20target=)" target="\_blank" rel="nofollow">gcc-poison</a> ：帮助开发人员禁止应用程序中的不安全的C/C++函数的简单的头文件。<br> |
|  | <a href="[https://link.jianshu.com?t=http://code.google.com/p/googlemock/%20target=](https://link.jianshu.com/?t=http://code.google.com/p/googlemock/%20target=)" target="\_blank" rel="nofollow">googlemock</a>：编写和使用C++模拟类的库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/joyent/http-parser%20target=](https://link.jianshu.com/?t=https://github.com/joyent/http-parser%20target=)" target="\_blank" rel="nofollow">HTTP Parser</a> ：C的http请求/响应解析器<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/anrieff/libcpuid%20target=](https://link.jianshu.com/?t=https://github.com/anrieff/libcpuid%20target=)" target="\_blank" rel="nofollow">libcpuid</a> ：用于x86 CPU检测盒特征提取的小型C库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/avati/libevil%20target=](https://link.jianshu.com/?t=https://github.com/avati/libevil%20target=)" target="\_blank" rel="nofollow">libevil</a> ：许可证管理器<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.libusb.org/%20target=](https://link.jianshu.com/?t=http://www.libusb.org/%20target=)" target="\_blank" rel="nofollow">libusb</a>：允许移动访问USB设备的通用USB库<br> |
|  | <a href="[https://link.jianshu.com?t=http://pcre.org/%20target=](https://link.jianshu.com/?t=http://pcre.org/%20target=)" target="\_blank" rel="nofollow">PCRE</a>：正则表达式C库，灵感来自于Perl中正则表达式的功能。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.deltavsoft.com/%20target=](https://link.jianshu.com/?t=http://www.deltavsoft.com/%20target=)" target="\_blank" rel="nofollow">Remote Call Framework</a> ：C++的进程间通信框架。<br> |
|  | <a href="[https://link.jianshu.com?t=http://scintilla.org/%20target=](https://link.jianshu.com/?t=http://scintilla.org/%20target=)" target="\_blank" rel="nofollow">Scintilla</a> ：开源的代码编辑控件<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/wjwwood/serial%20target=](https://link.jianshu.com/?t=https://github.com/wjwwood/serial%20target=)" target="\_blank" rel="nofollow">Serial Communication Library</a> ：C++语言编写的跨平台，串口库。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/antirez/sds%20target=](https://link.jianshu.com/?t=https://github.com/antirez/sds%20target=)" target="\_blank" rel="nofollow">SDS</a>：C的简单动态字符串库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/cesanta/sldr%20target=](https://link.jianshu.com/?t=https://github.com/cesanta/sldr%20target=)" target="\_blank" rel="nofollow">SLDR</a> ：超轻的DNS解析器<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/cesanta/slre%20target=](https://link.jianshu.com/?t=https://github.com/cesanta/slre%20target=)" target="\_blank" rel="nofollow">SLRE</a>： 超轻的正则表达式库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/rtv/Stage%20target=](https://link.jianshu.com/?t=https://github.com/rtv/Stage%20target=)" target="\_blank" rel="nofollow">Stage</a> ：移动机器人模拟器<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/vartypes/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/vartypes/%20target=)" target="\_blank" rel="nofollow">VarTypes</a>：C++/Qt4功能丰富，面向对象的管理变量的框架。<br> |
|  | <a href="[https://link.jianshu.com?t=http://zbar.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://zbar.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">ZBar</a>：‘条形码扫描器’库，可以扫描照片，图片和视频流中的条形码，并返回结果。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/VerbalExpressions/CppVerbalExpressions%20target=](https://link.jianshu.com/?t=https://github.com/VerbalExpressions/CppVerbalExpressions%20target=)" target="\_blank" rel="nofollow">CppVerbalExpressions</a> ：易于使用的C++正则表达式<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/VerbalExpressions/QtVerbalExpressions%20target=](https://link.jianshu.com/?t=https://github.com/VerbalExpressions/QtVerbalExpressions%20target=)" target="\_blank" rel="nofollow">QtVerbalExpressions</a>：基于C++ VerbalExpressions 库的Qt库<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/CopernicaMarketingSoftware/PHP-CPP%20target=](https://link.jianshu.com/?t=https://github.com/CopernicaMarketingSoftware/PHP-CPP%20target=)" target="\_blank" rel="nofollow">PHP-CPP</a>：使用C++来构建PHP扩展的库<br> |
|  | <a href="[https://link.jianshu.com?t=http://bstring.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://bstring.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Better String</a> ：C的另一个字符串库，功能更丰富，但是没有缓冲溢出问题，还包含了一个C++包装器。</p> |
|  | <p>软件<br> |
|  | 用于创建开发环境的软件<br> |
|  | 编译器<br> |
|  | <a href="[https://link.jianshu.com?t=http://clang.llvm.org/%20target=](https://link.jianshu.com/?t=http://clang.llvm.org/%20target=)" target="\_blank" rel="nofollow">Clang</a> :由苹果公司开发的<br> |
|  | <a href="[https://link.jianshu.com?t=https://gcc.gnu.org/%20target=](https://link.jianshu.com/?t=https://gcc.gnu.org/%20target=)" target="\_blank" rel="nofollow">GCC</a>：GNU编译器集合<br> |
|  | <a href="[https://link.jianshu.com?t=https://software.intel.com/en-us/c-compilers%20target=](https://link.jianshu.com/?t=https://software.intel.com/en-us/c-compilers%20target=)" target="\_blank" rel="nofollow">Intel C++ Compiler</a> ：由英特尔公司开发<br> |
|  | <a href="[https://link.jianshu.com?t=http://llvm.org/%20target=](https://link.jianshu.com/?t=http://llvm.org/%20target=)" target="\_blank" rel="nofollow">LLVM</a> ：模块化和可重用编译器和工具链技术的集合<br> |
|  | <a href="[https://link.jianshu.com?t=http://msdn.microsoft.com/en-us/vstudio/hh386302.aspx%20target=](https://link.jianshu.com/?t=http://msdn.microsoft.com/en-us/vstudio/hh386302.aspx%20target=)" target="\_blank" rel="nofollow">Microsoft Visual C++</a> ：MSVC，由微软公司开发<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.openwatcom.org/index.php/Main\_Page%20target=](https://link.jianshu.com/?t=http://www.openwatcom.org/index.php/Main_Page%20target=)" target="\_blank" rel="nofollow">Open WatCom</a> ：Watcom，C，C++和Fortran交叉编译器和工具<br> |
|  | <a href="[https://link.jianshu.com?t=http://bellard.org/tcc/%20target=](https://link.jianshu.com/?t=http://bellard.org/tcc/%20target=)" target="\_blank" rel="nofollow">TCC</a> ：轻量级的C语言编译器</p> |
|  | <p>在线编译器<br> |
|  | <a href="[https://link.jianshu.com?t=http://codepad.org/%20target=](https://link.jianshu.com/?t=http://codepad.org/%20target=)" target="\_blank" rel="nofollow">codepad</a> ：在线编译器/解释器，一个简单的协作工具<br> |
|  | <a href="[https://link.jianshu.com?t=http://codetwist.com/%20target=](https://link.jianshu.com/?t=http://codetwist.com/%20target=)" target="\_blank" rel="nofollow">CodeTwist</a>：一个简单的在线编译器/解释器，你可以粘贴的C,C++或者Java代码，在线执行并查看结果<br> |
|  | <a href="[https://link.jianshu.com?t=http://coliru.stacked-crooked.com/%20target=](https://link.jianshu.com/?t=http://coliru.stacked-crooked.com/%20target=)" target="\_blank" rel="nofollow">coliru</a> ：在线编译器/shell， 支持各种C++编译器<br> |
|  | <a href="[https://link.jianshu.com?t=http://gcc.godbolt.org/%20target=](https://link.jianshu.com/?t=http://gcc.godbolt.org/%20target=)" target="\_blank" rel="nofollow">Compiler Explorer</a>：交互式编译器，可以进行汇编输出<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.compileonline.com/compile\_cpp11\_online.php%20target=](https://link.jianshu.com/?t=http://www.compileonline.com/compile_cpp11_online.php%20target=)" target="\_blank" rel="nofollow">CompileOnline</a>：Linux上在线编译和执行C++程序<br> |
|  | <a href="[https://link.jianshu.com?t=http://ideone.com/%20target=](https://link.jianshu.com/?t=http://ideone.com/%20target=)" target="\_blank" rel="nofollow">Ideone</a> ：一个在线编译器和调试工具，允许你在线编译源代码并执行，支持60多种编程语言。</p> |
|  | <p>调试器<br> |
|  | <a href="[https://link.jianshu.com?t=http://en.wikipedia.org/wiki/Comparison\_of\_debuggers%20target=](https://link.jianshu.com/?t=http://en.wikipedia.org/wiki/Comparison_of_debuggers%20target=)" target="\_blank" rel="nofollow">Comparison of debuggers</a> ：来自维基百科的调试器列表<br> |
|  | <a href="[https://link.jianshu.com?t=https://www.gnu.org/software/gdb%20target=](https://link.jianshu.com/?t=https://www.gnu.org/software/gdb%20target=)" target="\_blank" rel="nofollow">GDB</a> ：GNU调试器<br> |
|  | <a href="[https://link.jianshu.com?t=http://valgrind.org/%20target=](https://link.jianshu.com/?t=http://valgrind.org/%20target=)" target="\_blank" rel="nofollow">Valgrind</a>：内存调试，内存泄露检测，性能分析工具。</p> |
|  | <p>集成开发环境（IDE）<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.jetbrains.com/objc/%20target=](https://link.jianshu.com/?t=http://www.jetbrains.com/objc/%20target=)" target="\_blank" rel="nofollow">AppCode</a> ：构建与JetBrains’ IntelliJ IDEA 平台上的用于Objective-C，C,C++，Java和Java开发的集成开发环境<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.jetbrains.com/clion/%20target=](https://link.jianshu.com/?t=http://www.jetbrains.com/clion/%20target=)" target="\_blank" rel="nofollow">CLion</a>：来自JetBrains的跨平台的C/C++的集成开发环境<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.codeblocks.org/%20target=](https://link.jianshu.com/?t=http://www.codeblocks.org/%20target=)" target="\_blank" rel="nofollow">Code::Blocks</a> ：免费C，C++和Fortran的集成开发环境<br> |
|  | <a href="[https://link.jianshu.com?t=http://codelite.org/%20target=](https://link.jianshu.com/?t=http://codelite.org/%20target=)" target="\_blank" rel="nofollow">CodeLite</a> ：另一个跨平台的免费的C/C++集成开发环境<br> |
|  | <a href="[https://link.jianshu.com?t=http://sourceforge.net/projects/orwelldevcpp/%20target=](https://link.jianshu.com/?t=http://sourceforge.net/projects/orwelldevcpp/%20target=)" target="\_blank" rel="nofollow">Dev-C++</a>：可移植的C/C++/C++11集成开发环境<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.eclipse.org/cdt/%20target=](https://link.jianshu.com/?t=http://www.eclipse.org/cdt/%20target=)" target="\_blank" rel="nofollow">Eclipse CDT</a>：基于Eclipse平台的功能齐全的C和C++集成开发环境<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.geany.org/%20target=](https://link.jianshu.com/?t=http://www.geany.org/%20target=)" target="\_blank" rel="nofollow">Geany</a> ：轻量级的快速，跨平台的集成开发环境。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www-03.ibm.com/software/products/en/visgen%20target=](https://link.jianshu.com/?t=http://www-03.ibm.com/software/products/en/visgen%20target=)" target="\_blank" rel="nofollow">IBM VisualAge</a> ：来自IBM的家庭计算机集成开发环境。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/Sarcasm/irony-mode%20target=](https://link.jianshu.com/?t=https://github.com/Sarcasm/irony-mode%20target=)" target="\_blank" rel="nofollow">Irony-mode</a>：由libclang驱动的用于Emacs的C/C++微模式<br> |
|  | <a href="[https://link.jianshu.com?t=https://www.kdevelop.org/%20target=](https://link.jianshu.com/?t=https://www.kdevelop.org/%20target=)" target="\_blank" rel="nofollow">KDevelop</a>：免费开源集成开发环境<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.visualstudio.com/%20target=](https://link.jianshu.com/?t=http://www.visualstudio.com/%20target=)" target="\_blank" rel="nofollow">Microsoft Visual Studio</a> ：来自微软的集成开发环境<br> |
|  | <a href="[https://link.jianshu.com?t=https://netbeans.org/%20target=](https://link.jianshu.com/?t=https://netbeans.org/%20target=)" target="\_blank" rel="nofollow">NetBeans</a> ：主要用于Java开发的的集成开发环境，也支持其他语言，尤其是PHP，C/C++和HTML5。<br> |
|  | <a href="[https://link.jianshu.com?t=http://qt-project.org/%20target=](https://link.jianshu.com/?t=http://qt-project.org/%20target=)" target="\_blank" rel="nofollow">Qt Creator</a>：跨平台的C++，Javascript和QML集成开发环境，也是Qt SDK的一部分。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/Andersbakken/rtags%20target=](https://link.jianshu.com/?t=https://github.com/Andersbakken/rtags%20target=)" target="\_blank" rel="nofollow">rtags</a>：C/C++的客户端服务器索引，用于 跟基于clang的emacs的集成<br> |
|  | <a href="[https://link.jianshu.com?t=https://developer.apple.com/xcode/%20target=](https://link.jianshu.com/?t=https://developer.apple.com/xcode/%20target=)" target="\_blank" rel="nofollow">Xcode</a> ：由苹果公司开发<br> |
|  | <a href="[https://link.jianshu.com?t=https://valloric.github.io/YouCompleteMe/%20target=](https://link.jianshu.com/?t=https://valloric.github.io/YouCompleteMe/%20target=)" target="\_blank" rel="nofollow">YouCompleteMe</a>：一个用于Vim的根据你敲的代码快速模糊搜索并进行代码补全的引擎。</p> |
|  | <p>构建系统<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/rizsotto/Bear%20target=](https://link.jianshu.com/?t=https://github.com/rizsotto/Bear%20target=)" target="\_blank" rel="nofollow">Bear</a> ：用于为clang工具生成编译数据库的工具<br> |
|  | <a href="[https://link.jianshu.com?t=https://www.biicode.com/%20target=](https://link.jianshu.com/?t=https://www.biicode.com/%20target=)" target="\_blank" rel="nofollow">Biicode</a>：基于文件的简单依赖管理器。<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.cmake.org/%20target=](https://link.jianshu.com/?t=http://www.cmake.org/%20target=)" target="\_blank" rel="nofollow">CMake</a> ：跨平台的免费开源软件用于管理软件使用独立编译的方法进行构建的过程。<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/iauns/cpm%20target=](https://link.jianshu.com/?t=https://github.com/iauns/cpm%20target=)" target="\_blank" rel="nofollow">CPM</a>：基于CMake和Git的C++包管理器<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.fastbuild.org/docs/home.html%20target=](https://link.jianshu.com/?t=http://www.fastbuild.org/docs/home.html%20target=)" target="\_blank" rel="nofollow">FASTBuild</a>：高性能，开源的构建系统，支持高度可扩展性的编译，缓冲和网络分布。<br> |
|  | <a href="[https://link.jianshu.com?t=http://martine.github.io/ninja/%20target=](https://link.jianshu.com/?t=http://martine.github.io/ninja/%20target=)" target="\_blank" rel="nofollow">Ninja</a> ：专注于速度的小型构建系统<br> |
|  | <a href="[https://link.jianshu.com?t=http://www.scons.org/%20target=](https://link.jianshu.com/?t=http://www.scons.org/%20target=)" target="\_blank" rel="nofollow">Scons</a> ：使用Python scipt 配置的软件构建工具<br> |
|  | <a href="[https://link.jianshu.com?t=https://github.com/deplinenoise/tundra%20target=](https://link.jianshu.com/?t=https://github.com/deplinenoise/tundra%20target=)" target="\_blank" rel="nofollow">tundra</a> ：高性能的代码构建系统，甚至对于非常大型的软件项目，也能提供最好的增量构建次数。<br> |
|  | <a href="[https://link.jianshu.com?t=http://gittup.org/tup/%20target=](https://link.jianshu.com/?t=http://gittup.org/tup/%20target=)" target="\_blank" rel="nofollow">tup</a>：基于文件的构建系统，用于后台监控变化的文件。</p> |
|  | <p>静态代码分析<br> |
|  | <a href="[https://link.jianshu.com?t=http://cppcheck.sourceforge.net/%20target=](https://link.jianshu.com/?t=http://cppcheck.sourceforge.net/%20target=)" target="\_blank" rel="nofollow">Cppcheck</a> ：静态C/C++代码分析工具<br> |
|  | <a href="[https://link.jianshu.com?t=https://code.google.com/p/include-what-you-use/%20target=](https://link.jianshu.com/?t=https://code.google.com/p/include-what-you-use/%20target=)" target="\_blank" rel="nofollow">include-what-you-use</a> ：使用clang进行代码分析的工具，可以#include在C和C++文件中。<br> |
|  | <a href="[https://link.jianshu.com?t=http://oclint.org/%20target=](https://link.jianshu.com/?t=http://oclint.org/%20target=)" target="\_blank" rel="nofollow">OCLint</a> ：用于C，C++和Objective-C的静态源代码分析工具，用于提高质量，减少瑕疵。<br> |
|  | <a href="[https://link.jianshu.com?t=http://clang-analyzer.llvm.org/index.html%20target=](https://link.jianshu.com/?t=http://clang-analyzer.llvm.org/index.html%20target=)" target="\_blank" rel="nofollow">Clang Static Analyzer</a>：查找C，C++和Objective-C程序bug的源代码分析工具<br> |