**个人中意的Github C/C++及Android App相关开源项目(★精品收藏★)**

一、[Github](https://so.csdn.net/so/search?q=Github&spm=1001.2101.3001.7020) C++库大全（C++ Library）

<https://isocpp.org/>

<https://github.com/isocpp/CppCoreGuidelines>

<https://github.com/521xueweihan/HelloGitHub> 分享 GitHub 上有趣、入门级的[开源项目](https://so.csdn.net/so/search?q=%E5%BC%80%E6%BA%90%E9%A1%B9%E7%9B%AE&spm=1001.2101.3001.7020)

<https://github.com/GitHubDaily/GitHubDaily> 专注分享 GitHub 最新的优质开源项目

**可靠清单**  
<https://github.com/fffaraz/awesome-cpp>  
https://github.com/nothings/single\_file\_libs  
https://github.com/sindresorhus/awesome

<https://zh.cppreference.com/w/cpp/links/libs>

<https://github.com/Awesome-Windows/Awesome/blob/master/README-cn.md> Windows上优质&精选的最佳应用程序及工具列表

<https://github.com/justjavac/free-programming-books-zh_CN> 中文书籍大全

<http://www.nirsoft.net/> 小工具集，绿色软件

<http://patorjk.com/software/taag/> 文本图案txt制作在线小工具

<https://www.findbestopensource.com/home>

<https://github.com/huihut/interview> C/C++ 技术面试基础知识总结，包括语言、程序库、数据结构、算法、系统、网络、链接装载库等知识及面试经验、招聘、内推等信息。

**深度学习**

<https://github.com/apachecn/AiLearning>

<https://github.com/d2l-ai/d2l-zh>

<https://github.com/imhuay/Algorithm_Interview_Notes-Chinese> 哈工大深圳

<https://github.com/zeusees/HyperLPR> 车牌识别

<https://github.com/scutan90/DeepLearning-500-questions> 深度学习500问

**C++11/14/17语法表**

<https://github.com/AnthonyCalandra/modern-cpp-features>

**日志库**  
<https://github.com/SergiusTheBest/plog> 轻量级日志

<https://github.com/gabime/spdlog> 受欢迎，非常快，性能是它的主要目标，日志的格式化使用开源的fmt库  
https://github.com/gabime/spdlog/wiki/1.-QuickStart

<https://github.com/log4cplus/log4cplus>

<https://github.com/MEONMedical/Log4Qt>

**网络库**

<https://github.com/chenshuo/muduo> 国产软件，仅支持Linux

<https://github.com/acl-dev/acl> 国产软件，大而全

<https://github.com/xiongziliang/ZLToolKit> 国产软件，使用epoll+线程池+异步网络IO模式开发

<https://github.com/skypjack/uvw> -- libuv的C++封装 <https://github.com/libuv/libuv>

<https://github.com/ValveSoftware/GameNetworkingSockets> Reliable & unreliable messages over UDP

<https://github.com/skywind3000/kcp> 国产软件,A Fast and Reliable ARQ Protocol

**协程库**

<https://github.com/hnes/libaco> 国产软件

<https://github.com/yyzybb537/libgo> 国产软件,Go-style concurrency in C++11

<https://github.com/cloudwu/coroutine> skynet作者写的

<https://github.com/Tencent/libco> 腾讯协程库

**thread&future&promise**

<https://promisesaplus.com/> promise A+标准 An open standard for sound, interoperable JavaScript promises

<https://github.com/Naios/continuable> C++14 德国人Denis Blank写的，并行库hpx也有该作者参与

<https://naios.github.io/continuable/>  continuable doc，VS2017，不支持VS2015编译器

<https://naios.github.io/continuable/installation.html>  continuable安装说明,推荐[using the amalgamation header](https://naios.github.io/continuable/installation.html#installation-installation-amalgamation)

<https://github.com/grantila/q> Promises/A+ C++11的实现

<https://github.com/xhawk18/promise-cpp> Promises/A+ 依赖boost，囧

<https://gitlab.com/rilis/rili> Promises/A+

<https://github.com/loveyacper/ananas> 国产软件 C++ 11,[知乎Bert Young](https://www.zhihu.com/people/young-38/activities)

<https://github.com/IronsDu/brynet> 国产软件,[知乎IronsDu](https://www.zhihu.com/people/irons.du/activities)

<https://github.com/deepgrace/carrier> Modern C++ Network Server Framework

<https://github.com/dkormalev/asynqro> C++ 17，囧

<https://github.com/VestniK/portable_concurrency> C++14，按照标准文档实现

<https://github.com/facebook/folly/tree/master/folly/futures> folly有实现future,依赖boost和libevent，囧

<https://theboostcpplibraries.com/boost.thread-futures-and-promises> boost文档，关于future和promise

<https://github.com/tm604/cps-future> C++11

<https://github.com/alehdaghi/Promise11> C++11

**并行/并发计算**

<https://github.com/stlab/libraries> adobe公司实现的C++库

<http://stlab.cc/libraries/concurrency/> adobe公司实现的并行库，含future和promise

<https://github.com/STEllAR-GROUP/hpx> Parallelism and Concurrency，有实现future/promise，依赖boost，囧

<https://github.com/Amanieu/asyncplusplus> C++11，轻量级，灵感来自微软PPL

<https://github.com/cpp-taskflow/cpp-taskflow> Modern C++ Parallel Task Programming Library,C++17

<https://github.com/intel/tbb> Intel TBB

<https://github.com/thrust/thrust> NVIDIA Thrust

<https://github.com/Microsoft/cpprestsdk> 微软PPL

<https://github.com/microsoft/cpprestsdk/tree/master/Release/src/pplx> 微软PPL包含在REST SDK里面

<https://docs.microsoft.com/en-us/cpp/parallel/concrt/parallel-patterns-library-ppl?view=vs-2019>

**锁&消息队列**

<https://github.com/cameron314/concurrentqueue> lock-free *concurrent* queue for C++11

<https://github.com/cameron314/readerwriterqueue>

**加密解密**

<https://www.cryptopp.com/>

**小工具**  
https://github.com/sheredom/utf8.h  
<https://github.com/fmtlib/fmt>  
https://fmt.dev/latest/index.html

<https://github.com/processhacker/processhacker> 微软windows进程查看

<https://github.com/microsoft/VCSamples/> 微软VC++示例

<https://github.com/microsoft/vcpkg>

<https://github.com/microsoft/cpprestsdk> 微软

<https://github.com/microsoft/Windows-universal-samples>

<https://github.com/microsoft/Windows-driver-samples>

下载神器：aria2

<https://github.com/aria2/aria2> 源码及命令行工具,HTTP/HTTPS, FTP, SFTP, BitTorrent and Metalink

<https://github.com/mayswind/AriaNg> aria2的web ui

<https://github.com/persepolisdm/persepolis> aria2的GUI，Qt/python

<https://github.com/rekols/deepin-downloader> aria2的GUI，Qt/C++

<https://github.com/agalwood/Motrix> 万能下载神器，比迅雷强

YAAW for Chrome，在chrome中直接内置一个YAAW，用于直接管理Aria2。

地图

<https://github.com/mapbox/mapbox-gl-native>

**绘图库**

<https://github.com/yuanming-hu/taichi> 中国人写的太极图形库

<http://taichi.graphics/> 太极图形库，作者胡渊鸣

<https://libcinder.org/> 矢量图形库，2D/3D  
<https://github.com/cinder/Cinder>

<https://github.com/FortAwesome/Font-Awesome>

<https://github.com/drawpile/Drawpile>

<https://easyx.cn/> 国产绘图库for VC++

<https://www.opencascade.com/> OpenCASCADE（简称OCC）

<https://www.opencascade.com/content/latest-release>

<https://github.com/google/angle>  google 3D

<https://github.com/google/skia> google 2D图形库

**OpenGL**

* [opengl.org](https://www.opengl.org/)：OpenGL官方网站。
* [OpenGL registry](https://www.opengl.org/registry/)：包含OpenGL各版本的规范和扩展。
* <http://glew.sourceforge.net/> The OpenGL Extension Wrangler Library
* <https://www.glfw.org/download.html> A multi-platform library for OpenGL
* [Visual Studio 2017 配置 OpenGL](https://blog.csdn.net/Wonz5130/article/details/82469655)

<https://learnopengl.com/>

<https://github.com/JoeyDeVries/LearnOpenGL>

<https://learnopengl-cn.github.io/>

<https://www.cginternals.com/en/>  Computer Graphics Internals

<https://github.com/cginternals>

<https://github.com/cginternals/cmake-init> Template for reliable, cross-platform C++ project setup using cmake

<https://glbinding.org/> A C++ binding for the OpenGL API

<https://globjects.org/> C++ library strictly wrapping OpenGL objects

<https://github.com/glfw/glfw>

<https://github.com/nigels-com/glew>

<https://github.com/NVIDIAGameWorks/GraphicsSamples>

<https://github.com/assimp/assimp> 模型导入

**OpenCASCADE&CAD&CAM&SoftPLC**

<https://blog.csdn.net/libaineu2004/article/details/89053246>

**开源组态软件Qt，C#，Web**

<https://blog.csdn.net/libaineu2004/article/details/79715737>

**大而全的C++框架及库**  
<https://openframeworks.cc/> openframeworks，推荐！  
<https://github.com/openframeworks/openFrameworks>

<https://openframeworks.cc/download/older/>

<https://addons.braitsch.io/> OpenFrameworks Addons

<https://github.com/elliotwoods/ofxCanon> 佳能相机二次开发

openframeworks简称OF，微软一帮牛人+闲人捣鼓的一个开源库。  
用C++开发，其作用呢，用来做交互式互动软件的。其基础就是封装了的openGL，除了openGL图形库，还包含了XML、POCO、SOCKET等一系列工具，能够让人在此框架上快速开发出高性能的互动程序。

openFrameworks 是一个功能强大, 上手超级简单的 C/C++ 开源框架. 它集成封装了很多常用的库, 诸如:

* OpenGL、GLEW、GLUT、libtess2、cairo - 用于处理图形；
* rtAudio、PortAudio、OpenAL、Kiss FFT、FMOD - 用于音频的输入、输出和分析；
* FreeType - 用于字体显示；
* FreeImage - 用于图像存储和载入；
* Quicktime、GStreamer、videoInput - 用于视频播放和截取；
* Poco - 用于开发网络应用；
* OpenCV - 用于计算机视觉；
* Assimp - 用于读入 3D 模型。

<https://processing.org/download/>  Processing Foundation

<https://github.com/processing>

<https://github.com/actor-framework/actor-framework>

<https://actor-framework.readthedocs.io/en/stable/>

<http://blog.actor-framework.org/>

<https://github.com/abseil/abseil-cpp>  Google 开源 C++ 公共库 Abseil

<https://github.com/abseil/abseil-py> Google 开源 Python 公共库 Abseil

<https://github.com/facebook/folly> facebook开源C++库  
<https://github.com/pocoproject/poco>

<https://github.com/RandyGaul/cute_headers>  
<https://github.com/boostorg/>

**机器视觉**  
<https://github.com/opencv/opencv>  
<https://github.com/davisking/dlib> 机器学习，数据分析  
<https://github.com/liuliu/ccv>  
**SQLite&UnSQLite数据库**

<https://www.sqlite.org/index.html> SQLite也可以作为内存数据库使用

<https://github.com/sqlcipher/sqlcipher> SQLCipher is an SQLite extension that provides 256 bit AES encryption

<https://github.com/symisc/unqlite> An Embedded NoSQL

**Key-Value数据库**

<https://github.com/symisc/vedis> An Embedded Implementation of Redis

<https://github.com/Qihoo360/pika> 360开源的类Redis存储系统:Pika

<https://github.com/ideawu/ssdb> A fast NoSQL database, an alternative to Redis

<https://github.com/JohnSully/KeyDB> A Multithreaded Fork of Redis

<https://symas.com/lmdb/technical/>  LMDB的全称是Lightning Memory-Mapped Database

<https://github.com/LMDB/lmdb>  embedded B+ tree database，闪电般的内存映射数据库，在caffe中被用到

<https://github.com/drycpp/lmdbxx> C++11 wrapper for the LMDB

<https://github.com/Microsoft/FASTER>

<https://github.com/google/leveldb>

<https://leveldb.org.cn/> leveldb中文网

https://github.com/facebook/rocksdb

https://rocksdb.org.cn/ RocksDB中文网

**数据库可视化客户端工具**  
1、fastonosql  
<https://fastonosql.com/>

<https://fastoredis.com/>  
<https://github.com/fastogt/fastonosql> 用Qt写的桌面软件，支持Redis, Memcached, SSDB, LevelDB, RocksDB, UnQLite, LMDB, ForestDB, Pika, Dynomite, KeyDB  
2、redisdesktop  
https://redisdesktop.com/  
<https://github.com/uglide/RedisDesktopManager/> 用Qt写的，仅支持Redis  
3、sqlitestudio  
<https://sqlitestudio.pl/index.rvt> -- Qt写的，SQLite  
https://github.com/pawelsalawa/sqlitestudio

4、DB Browser for SQLite

<https://github.com/sqlitebrowser/sqlitebrowser>

5、Keylord

<https://protonail.com/> 不开源，商业软件，比fastonosql好用，for Redis, Memcached, RocksDB, Bolt and LevelDB

<https://github.com/protonail/keylord-issues-and-feature-requests> 问题收集

二、GitHub工具

**Android app for Github**（详情见博客<https://www.jianshu.com/p/36a8d0c61c75>）

1、源码

<https://github.com/mustafaozhan/AndroCat> 推荐

<https://github.com/slapperwan/gh4a> OctoDroid 推荐

<https://github.com/k0shk0sh/FastHub>

<https://github.com/pockethub/PocketHub>

2、商店下载

<https://downloadapk.net/down_AndroCat.html> 推荐使用

<https://downloadapk.net/OctoDroid.html>

<https://downloadapk.net/FastHub-for-GitHub.html>

<https://downloadapk.net/PocketHub-for-GitHub.html>

**Windows/Mac for Github**

<https://desktop.github.com/>

<https://github.com/WizTeam> 为知笔记跨平台客户端

三、Android项目

<https://github.com/GitLqr/LQRWeChat>

<https://github.com/dcloudio/mui/>

四、算法与数据结构

<https://github.com/xtaci/algorithms> 中国人写的

<https://github.com/mandliya/algorithms_and_data_structures>

<https://github.com/TheAlgorithms/C-Plus-Plus>

五、C++11,14博客

<https://www.cnblogs.com/ChinaHook/category/757917.html> C++11基础知识，简洁之道，性能之道

<http://purecpp.org/> 《深入应用C++11--代码优化与工程级应用》作者博客，祁宇

<https://www.cnblogs.com/qicosmos/> 祁宇

<https://www.cnblogs.com/qicosmos/category/490693.html> 祁宇 使用c++ 11改进我们的程序系列

<https://github.com/qicosmos> 祁宇

<https://github.com/qicosmos/TaskCppV1.1> 祁宇future,when\_all,when\_any

<https://github.com/topcpporg/rest_rpc> 祁宇

<https://github.com/topcpporg> 祁宇

<http://coolshell.cn/> 陈皓

<https://blog.csdn.net/wangshubo1989> -- CSDN博客专家，大量的C++/Go文章

<https://blog.csdn.net/stpeace> -- CSDN博客第一人，大量的C++和算法文章

<https://blog.csdn.net/poem_qianmo> -- CSDN博客专家，著作《Windows游戏编程之从零开始》、《OpenCV3编程入门》

六、VC++/MFC精品开源项目

6.1 VC++实现的远程管理软件

PCShare是一款功能强大的远程管理软件，可以在内网、外网任意位置随意管理需要的远程主机，有超强的隐藏和自我修复等功能。该软件是由国内安全爱好者无可非议开发，并授权freebuf独家发布，作者的QQ是4564405，转载或者修改版本请打上作者的标记，也是对辛勤劳动的尊重。

Gh0st是开源的红狼小组编写的远程管理软件，效率较PCShare高。

FileZilla是一个免费开源的FTP软件，分为客户端版本和服务器版本，具备所有的FTP软件功能。

<https://github.com/libaineu2004/baloonwj_filezilla>

<https://github.com/libaineu2004/baloonwj_PCShare>

<https://github.com/libaineu2004/gh0st> 原版Gh0st源码beta 3.6

<https://github.com/yichinzhu/gh0st> gh0st beta 3.6 built on VS 2017

<https://github.com/zibility/Remote> 参考Gh0st源码，实现的一款PC远程协助软件

<https://github.com/yuanyuanxiang/SimpleRemoter> 基于上面Gh0st版本,优化全部代码及整理排版，修复内存泄漏缺陷

<https://github.com/yuanyuanxiang/Keeper> 一种守护程序，可对Windows控制台或任何可执行程序进行守护

<https://github.com/yuanyuanxiang/RemoteController> 一种远程控制器：接受远程连接并向远程程序发送控制信令

6.2 其它

<https://github.com/zhongyang219/TrafficMonitor> MFC写的显示当前网速、CPU及内存利用率的桌面悬浮窗软件

<https://keepass.info/> 一款很方便安全的密码管理软件,keepass v1.x使用C++写的；v2.x使用C#写的

<https://sourceforge.net/projects/keepass/files/> keepass源码和exe下载

<https://github.com/abstractspoon/ToDoList_7.2> MFC写的任务管理软件<http://www.abstractspoon.com/>

<https://ipmsg.org/> 飞鸽传书 ++ <https://blog.csdn.net/libaineu2004/article/details/104620824>

<https://www.codeproject.com/Articles/135474/HexEdit-Window-Binary-File-Editor> HexEdit - Window Binary File Editor

<https://blog.csdn.net/libaineu2004/article/details/77200641> 开源directui界面框架及金山卫士源码

七、Qt精品开源项目

<https://www.deepin.org/original/> 深度技术原创Qt App

<https://github.com/ShowFL/Toou-2D> 基于Qt Quick(Qml) 跨平台技术打造的2D框架

<https://lxqt.org/> LXQt is a lightweight Qt desktop environment

<https://github.com/woterm/woterm>  基于OpenSSH的远程Shell管理工具/界面基于LXQt的QTermWidget

<https://gitee.com/feiyangqingyun> 刘典武大师开源

<https://blog.csdn.net/libaineu2004/article/details/79715737> Qt组态软件开源

八、其他

<https://github.com/taosdata/TDengine> 物联网大数据平台

<https://github.com/mixlinker/fidis> 物联网应用平台，智物联

<https://github.com/emqx> 物联网连接平台，EMQ

<https://github.com/google/cpp-from-the-sky-down> 谷歌头脑风暴

<https://github.com/testerSunshine/12306> 12306智能刷票订票,python

<https://github.com/pbek/QOwnNotes/> QOwnNotes是纯文本文件记事本和待办事项列表管理器,Qt

<https://github.com/ideawu/icomet> 推送系统

<https://github.com/macrozheng/mall> 电商系统

<https://gitee.com/roncoocom/roncoo-pay> 支付系统

<https://gitee.com/robergroup/pdman> 数据库模型建模工具

<https://electronjs.org/>

<https://github.com/LingDong-/wenyan-lang> 文言文编程语言