

Json 封装及解析

qt 下来封装 Json

```
void MyQQ::slot_LoginCommit(QString name, QString password)
{
    std::string strTmp = name.toStdString();
    char* namebuf = (char*)strTmp.c_str();
    strTmp = password.toStdString();
    char* passwordbuf = (char*)strTmp.c_str();

    //构建 Json 对象
    QJsonObject json;
    json.insert("type", DEF_PACK_LOGIN_RQ);
    json.insert("name", namebuf);
    json.insert("password", passwordbuf);


    // 构建 Json 文档
    QJsonDocument document;
    document.setObject(json);
    QByteArray bt = document.toJson(QJsonDocument::Compact);
    qDebug() << bt;
    m_client->SendData( bt.data() , bt.size() );
}
```

linux 下解析 Json

[GitHub - json-c/json-c: https://github.com/json-c/json-c is the official code repository for json-c. See the wiki for release tarballs for download. API docs at http://json-c.github.io/json-c/](https://github.com/json-c/json-c)

可以在官方下载安装包.

下载完数据包

 json-c-0.9.tar.gz

然后, 将其解压并安装

```
sudo su    → password: colin123
```

```
sudo cp  json-c-0.9.tar.gz  /usr/local
```

```
cd /usr/local
```

```
sudo tar -xvf  json-c-0.9.tar.gz
```

```
cd  json-c-0.9
```

```
./configure
make
sudo make install
```

.so 文件 安装在 /usr/local/lib

```
colin@ubuntu:~/0503/1202$ cd /usr/local/lib/
colin@ubuntu:/usr/local/lib$ ls
engines-1.1      libjson.so.0      libpcreposix.la      libz.a
libcrypt.a       libjson.so.0.0.1  libpcreposix.so      libz.so
libcrypto.so     libpcre.a         libpcreposix.so.0    libz.so.1
libcrypto.so.1.1 libpcrecpp.a      libpcreposix.so.0.0.4 libz.so.1.2.11
libhiredis.a     libpcrecpp.la     libpcre.so           pkgconfig
libhiredis.so    libpcrecpp.so     libpcre.so.1         python2.7
libhiredis.so.0.14 libpcrecpp.so.0   libpcre.so.1.2.8    python3.5
libjson.a        libpcrecpp.so.0.0.1 libssl.a
libjson.la       libpcre.la        libssl.so
libjson.so       libpcreposix.a    libssl.so.1.1
```

头文件在 /usr/local/include/json/ 下面

```
colin@ubuntu:/usr/local/include$ ls
hiredis  openssl  pcrecpp.h  pcreposix.h  pcre_stringpiece.h  zlib.h
json     pcrecpparg.h  pcre.h  pcre_scanner.h  zconf.h
colin@ubuntu:/usr/local/include$ cd json
colin@ubuntu:/usr/local/include/json$
```

运行时添加库

```
LIBS += -L/usr/local/lib/ -ljson
```

```
INCLUDEPATH += /usr/local/include/json/
```

测试代码如下:

```
#include <stdio.h>
```

```
#include "json.h"
```

```
/*
```

实现把点菜的信息以 json 打包与解析:

```
{"name": "烤土豆", "price": 20, "weight": 300}
```

```
*/
```

```
int main(int argc, char const *argv[])
```

```
{
```

```
//1、创建两个字符串对象，可以理解为小容器{ }
```

```
struct json_object *str1=json_object_new_object();
```

```
//2、把要存放的数据转为对象
```

```
struct json_object *value1=json_object_new_string("烤土豆");
```

```
struct json_object *value2=json_object_new_int(20);
```

```
struct json_object *value3=json_object_new_int(300);
```

```
//3、把数值对象添加到字符串对象中
```

```
json_object_object_add(str1,"name", value1);
```

```
json_object_object_add(str1,"price", value2);
```

```

json_object_object_add(str1,"weight", value3);

//4、把数组对象转为字符流进行发送
const char *temp=json_object_to_json_string(str1);

printf("%s\n",temp);

//1、把得到的字符流转为数组对象
str1=json_tokener_parse(temp);

//2、在字符串 {} 对象中根据 key 值找到数值对象
value1=json_object_object_get(str1,"name");
value2=json_object_object_get(str1,"price");
value3=json_object_object_get(str1,"weight");

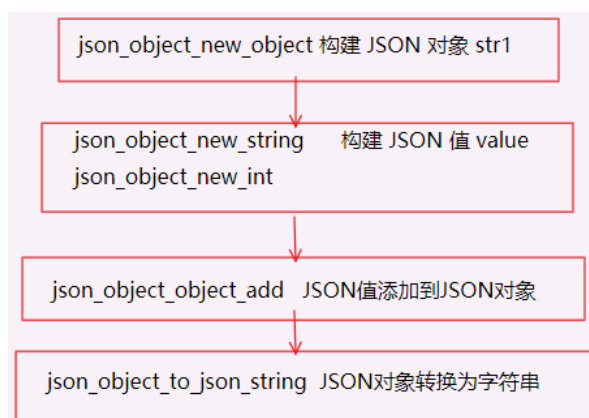
//3、数值对象转换为对应的数值
temp=json_object_get_string(value1);
int n=json_object_get_int(value2);
int m=json_object_get_int(value3);
printf("%s : %d : %d\n",temp,n ,m);

//释放空间
json_object_put(str1);
json_object_put(value1);
json_object_put(value2);
json_object_put(value3);

return 0;
}
输出 :  { "name": "烤土豆", "price": 20, "weight": 300 }
烤土豆 : 20 : 300

```

JSON 封装



JSON 解析

