




JPEG图片的隐写

原创

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订阅专栏

两个星期前就想要完成基于JPEG-Jsteg算法的图片隐写, 然而两个星期过去, 平时事情很多, 关键这个东西网上相关资料很少, 成型的代码更是几乎没有, 所以这里先搞一个基于图片结束标志符的隐写(。。。。)

```
#include<iostream>
#include<fstream>
using namespace std;
class picture
{
private:
    ifstream ifile_picture;
    ifstream ifile_txt;
    ofstream ofile_picture;
    ofstream ofile_txt;
    int length_ifile_picture,length_ifile_txt;
    char name_ifile_picture[50], name_ifile_txt[50], name_ofile_picture[50],name_ofile_txt[50];
public:
    void Open(ifstream &ifile,char *name,int &length);
    void M();
    void m();
};
void picture::Open(ifstream &ifile,char *name,int &length)
{
    ifile.open(name,ios::binary|ios::in);
    if (!ifile)
    {
        cout<<"Open "<<name<<" failed!"<<endl;
        return ;
    }
    ifile.seekg(0, ios::end);
    length = ifile.tellg();
    ifile.seekg(0, ios::beg);
}
void picture::M()
{
    char *str;
    cout<<"请输入图片名(需要加后缀名): "<<endl;
    cin>>this->name_ifile_picture;
    Open(this->ifile_picture, this->name_ifile_picture, this->length_ifile_picture);
    str = new char[length_ifile_picture + 5];
    this->ifile_picture.read(str, this->length_ifile_picture);
    while(1)
```

```

{
    if(str[this->length_ifile_picture-2]==-1 && str[this->length_ifile_picture-1]==-39)
        break; //图像结束标志 FF D9
    else
        this->length_ifile_picture--;
}
cout<<"请输入修改后的图片名（需要加后缀名）："<<endl;
cin>>this->name_ofile_picture;
this->ofile_picture.open(this->name_ofile_picture,ios::binary|ios::out);
if (!this->ofile_picture)
{
    cout<<"Open "<<this->name_ofile_picture<<" failed!"<<endl;
    return ;
}
this->ofile_picture.write(str, this->length_ifile_picture);
this->ifile_picture.close();
delete []str;
cout<<"请输入文本名（需要加后缀名）："<<endl;
cin>>this->name_ifile_txt;
Open(this->ifile_txt, this->name_ifile_txt, this->length_ifile_txt);
str = new char[length_ifile_txt + 5];
this->ifile_txt.read(str, this->length_ifile_txt);
this->ofile_picture.write(str, this->length_ifile_txt);
this->ifile_txt.close();
this->ofile_picture.close();
delete []str;
cout<<"成功！"<<endl;
}
void picture::m() //信息提取
{
    char *str;
    cout<<"请输入图片名（需要加后缀名）："<<endl;
    cin>>this->name_ifile_picture;
    Open(this->ifile_picture, this->name_ifile_picture, this->length_ifile_picture);
    str = new char[length_ifile_picture + 5];
    this->ifile_picture.read(str, this->length_ifile_picture);
    int l=this->length_ifile_picture;
    while(1)
    {
        if(str[l-2]==-1 && str[l-1] == -39)
            break; //图像结束标志 FF D9
        else
            l--;
    }
    cout<<"请输入信息提取存入文本名（需要加后缀名）："<<endl;
    cin>>this->name_ofile_txt;
    this->ofile_txt.open(this->name_ofile_txt,ios::binary|ios::out);
    if (!this->ofile_picture)
    {
        cout<<"Open "<<this->name_ofile_txt<<" failed!"<<endl;
        return ;
    }
    this->ofile_txt.write(str+l, this->length_ifile_picture-1);
    this->ifile_picture.close();
    this->ofile_txt.close();
    delete []str;
    cout<<"成功！"<<endl;
}
int main()

```

```
{  
  picture a;  
  a.M() ;  
  a.m() ;  
  return 0;  
}
```