Introduction to C++ (Season 2)

Unit 7: File Input and Output

第7单元:出入县同趣, 所向各有宜一文件输入输出

Section 01: Introduction to the Input and Output Classes

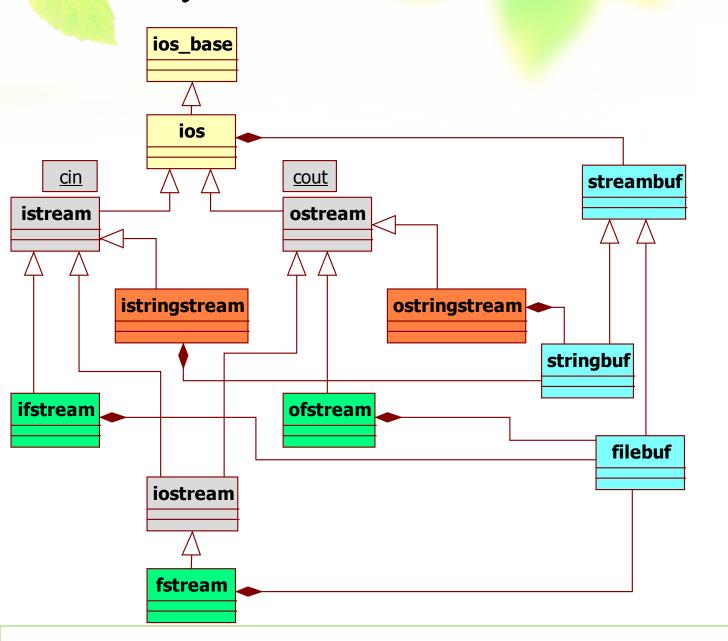
第01节:介绍输入输出的类

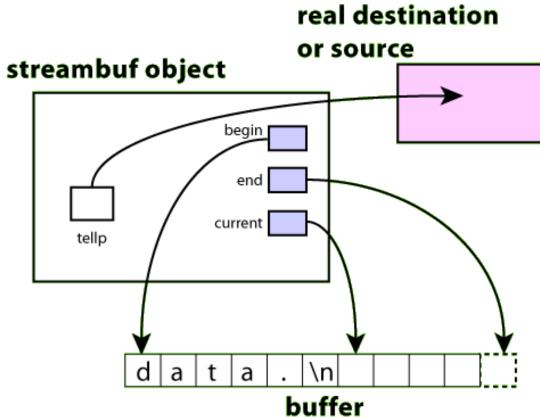


Comparision of File Manipulation between C and C++ (文件操作对比)

		C++	C
Header File	file input	ifstream	
	file output	ofstream	stdio.h
	file input & output	fstream	
Read/ Write	read from file	>>; get(); get(char); get(char*); getline(); read(char*,streamsize);	<pre>fscanf(); fgets(char*, size_t , FILE*); fread(void *ptr, size, nitems, FILE *stream);</pre>
	write to file	<<; put(char), put(int); write (const char*, streamsize); flush()	<pre>fprintf(); fwrite(const void *ptr, size, nitems, FILE *stream); fputs(const char*, FILE *);</pre>
	Status test	eof(); bad(); good(); fail()	feof(); ferror();

Hierarchy of C++ I/O Stream Classes





Buffered Input and Output (带缓冲的输入输出)

```
■ D:\cpp\src\Unit07\Buffered... - □
                                  1:97
#include <iostream>
                                  2:10
using namespace std;
                                  3 : 10
int main() {
                                  4 : 113
    char c;
                                  Process exited with return value 0
    int i = 0;
                                  Press any key to continue . . .
    do {
         c = cin.get();
         cout << ++i << " : " <<
                   static_cast<int>(c) << endl;</pre>
    } while (c != 'q');
    return 0;
```



c = cin.get(void)每次读取一个字符并把 由Enter键生成的换行符留在输入队列中