«C++ for C Programmer» Notes

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Week 1

```
Trom C to C++

C C++

#include <stdio.h> #include <cstdio>

using namespace std

#define PI 3.14 const float PI = 3.14

#define max(a,b) (...) inline max(a, b) {...}
```

```
template < class T>
inline void swap(T &i, T &j) {
   T tmp = i
   i = j
   j = tmp
}
```

```
Simple I/O functions
cout << "Print something" << endl</pre>
```

cin >> input

```
conversion, otherwise error

Cast

static cast (safe cast) static cast (double > 5/4)

static cast (double > 5/4)
```

■ Function call

Call by value

Call by pointer

Call by reference

☐ An Introduction to Reference

```
inline void swap(int &i, int &j) {
   int tmp = i
   i = j
   j = tmp
}
inline void swap(double &i, double &j) {
   double tmp = i
   i = j
   j = tmp
}
```

Cheatographer

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Cheat Sheet

FootNote

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