

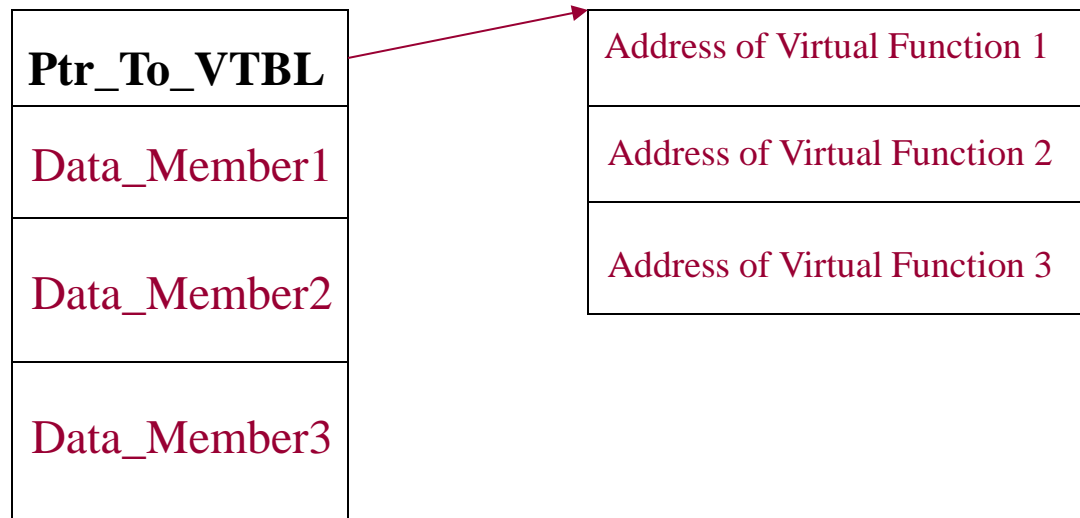
# What is VTBL?

- The virtual table (VTBL) is essentially a table of pointers to functions declared virtual.
- C++ implementation uses VTBL to determine what virtual function to call at runtime.
- There is one VTBL for every class that has virtual functions.
- (Consequently, if a class has no virtual functions, then it does not have a VTBL).
- Every object of a class with virtual functions has a pointer to this VTBL. (which adds to the size of this object).
- NOTE: VTBL implementation is compiler dependent.

# What does it look like?

Layout of an object

VTBL



Compiler knows the index into the VTBL for a given virtual function.

# Example:

