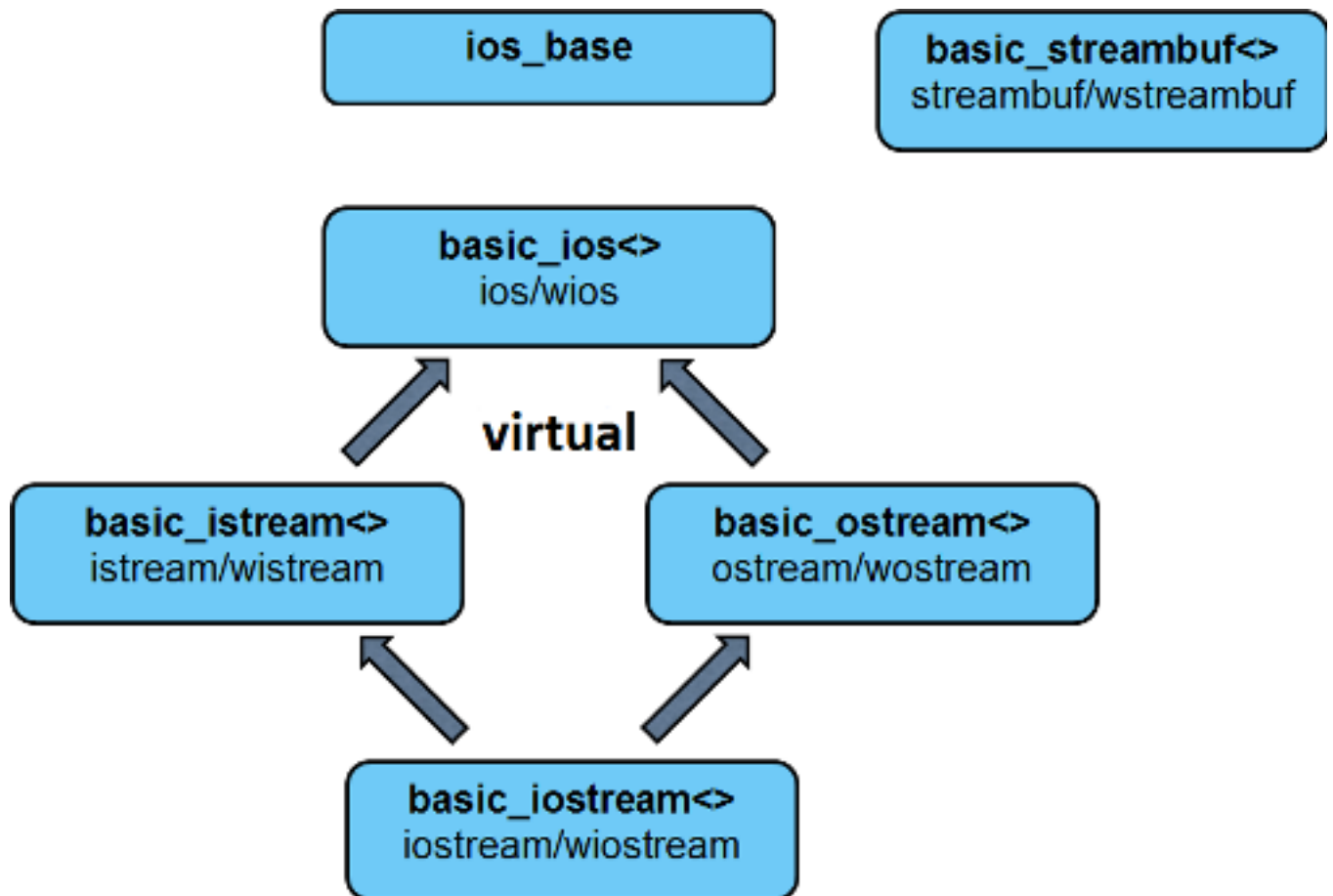


# Hierarchy

In this lesson, we will get insight into the structure of input/output streams.



Name	Description
<code>basic_streambuf&lt;&gt;</code>	Reads and writes the data
<code>ios_base</code>	Properties of all stream classes independent on the character type
<code>basic_ios&lt;&gt;</code>	Properties of all stream classes dependent of the character type
<code>basic_istream&lt;&gt;</code>	Base for the stream classes for the reading of the data

<code>basic_ostream&lt;&gt;</code>	Base for the stream classes for the writing of the data
<code>basic_iostream&lt;&gt;</code>	Base for the stream classes for the reading and writing of the data

The class hierarchy has type synonyms for the character types `char` and `wchar_t`. Names not starting with `w` are type synonyms for `char`, names starting with `w` for `wchar_t`.

The base classes of the class `std::basic_iostream<>` are virtually derived from `std::basic_ios<>`, therefore `std::basic_iostream<>` has only one instance of `std::basic_ios`.