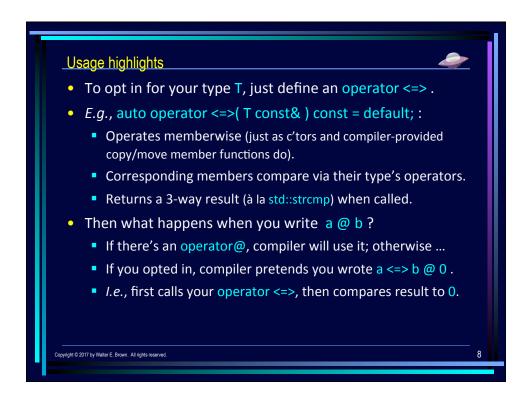


Solutions? Oldest known related WG21 paper dates from 1995! Library attempts (such as std::rel_ops and Boost.operators) have proven awkward/inadequate. Resurgence of interest, since 2014, by numerous authors: Recently culminated in a proposal based on a new operator. Formally, operator <=> is the 3-way comparison operator. Informally, it's the spaceship operator. Some operator <=> details: Has precedence between operator < and operator <<./li> Is left-associative (same as all equality/relational operators). Comes with a new standard library header of related utilities.



9/28/17

Some programmer options Provide your own definition when the default (memberwise comparison) isn't right for your type: E.g., when members must be compared in a different order, or ... E.g., when not all members are to take part in comparison. Specify your type's ordering properties: The std::library provides 5 comparison category types; ... Select one as operator <=>'s return type if auto won't do. Documents your intent, and lets compiler help enforce it. Declare/define as a member or as a non-member function. Overload to get cross-type/heterogeneous comparisons.

