

```

// [23.3.1.2] element access
/**
 * @brief Subscript ( @c [] ) access to %map data.
 * @param __k The key for which data should be retrieved.
 * @return A reference to the data of the (key,data) %pair.
 *
 * Allows for easy lookup with the subscript ( @c [] )
 * operator. Returns data associated with the key specified in
 * subscript. If the key does not exist, a pair with that key
 * is created using default values, which is then returned.
 *
 * Lookup requires logarithmic time.
 */
mapped_type&
operator[](const key_type& __k)
{
// concept requirements
__glibcxx_function_requires(_DefaultConstructibleConcept<mapped_type>)

    iterator __i = lower_bound(__k);
    // __i->first is greater than or equivalent to __k.
    if (__i == end() || key_comp()(__k, (*__i).first))
#ifdef __cplusplus >= 201103L
        __i = _M_t._M_emplace_hint_unique(__i, std::piecewise_construct,
                                           std::tuple<const key_type&>(__k),
                                           std::tuple<>());
#else
        __i = insert(__i, value_type(__k, mapped_type()));
#endif
    return (*__i).second;
}

```