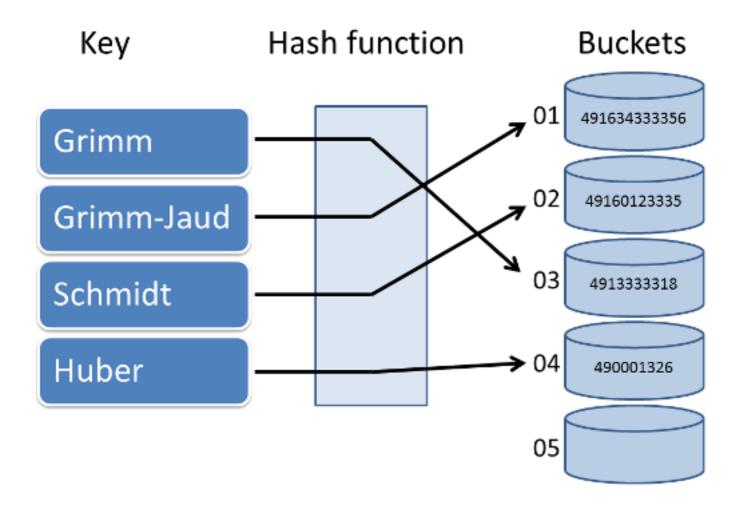
Overview

The main difference between unordered and ordered associative containers is the idea of sorted keys. Let's find out how unordered containers handle keys.



With the new C++11 standard, C++ has four unordered associative containers: std::unordered_map, std::unordered_multimap, std::unordered_set, and std::unordered_multiset. They have a lot in common with their namesakes, the ordered associative containers. The difference is that the unordered ones have a richer interface and their keys are not sorted.

This shows the declaration of an std::unordered_map.

```
Like std::map, std::unordered_map has an allocator, but std::unordered_map needs no comparison function. Instead std::unordered_map needs two additional functions: One to determine the hash value of its key: std::has<key> and a second to compare the keys for equality: std::equal_to<key>. Because of the three default template parameters, we only have to provide the type of the key and the type of the value. For example, declaration of std::unordered_map would be std::unordered_map<char,int> unordMap.
```

In the next lesson, we'll discuss the properties of keys and values.