If you need the keys of your Tree Map to be intervals, [TreeRangeMap](https://javadoc.io/doc/com.google.guava/guava/28.1-jre/com/google/common/collect/TreeRangeMap.html) is your go-to class.

You also have the support for everything TreeMap gives, sorted keys, and key manipulation.

**So what are some of the TreeRangeMap benefits?**

* You can search for a certain range by interval
* You can add new values for certain interval
* TreeRangeMap splits intervals as you add overlapping time ranges
* You can get a slice of RangeMap for a certain interval, with [subRangeMap](https://javadoc.io/doc/com.google.guava/guava/28.1-jre/com/google/common/collect/TreeRangeMap.html#subRangeMap-com.google.common.collect.Range-)

Most operations on this structure [are either constant or logarithmic time complexity.](https://stackoverflow.com/a/20290550/5999670) So all the adds, puts, etc. are done in logarithmic time. But what’s more important if you’re dealing with time ranges this is the right structure.