|  |  |  |
| --- | --- | --- |
|  | **HashMap** | **ConcurrentHashMap** |
| Synchronized | HashMap is not synchronized. | ConcurrentHashMap is synchronized. |
| Thread Safe | HashMap is not thread safe. | ConcurrentHashMap is thread safe. |
| Iterator type | HashMap iterator is fail-fast and ArrayList throws ConcurrentModificationException if concurrent modification happens during iteration. | ConcurrentHashMap is fail-safe and it will never throw ConcurrentModificationException during iteration. |
| Null values | HashMap allows key and value to be null. | ConcurrentHashMap does not allow null key/value. It will throw NullPointerException. |
| Performance | HashMap is faster. | ConcurrentHashMap is slower than HashMap. |
| Since Java Version | 1.2 | 1.5 |