Difference between Fail-Safe Iterator & Fail-Fast Iterator

In previous posts we studied what is [ConcurrentModificationException](http://data-structure-learning.blogspot.com/2015/05/concurrentmodificationexception.html), [Fail-Fast Iterator](http://data-structure-learning.blogspot.com/2015/05/fail-fast-iterator.html) and [Fail-Safe Iterator](http://data-structure-learning.blogspot.com/2015/05/fail-safe-iterator.html).

In this post we will summarize what are the differences between both the iterators.

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| **Parameter** | **Fail-Safe Iterator** | **Fail-Fast Iterator** |
| Throws ConcurrentModificationException. | No, it doesn’t. | Yes, It does. |
| Works on clone? | Yes. | No. |
| Memory Overhead. | Yes. | No. |
| Classes. | ArrayList<E>, HashMap<K, V> | ConcurrentHashMap<K, V>,  CopyOnWriteArrayList<E> |