

[Beginner's Book](#)

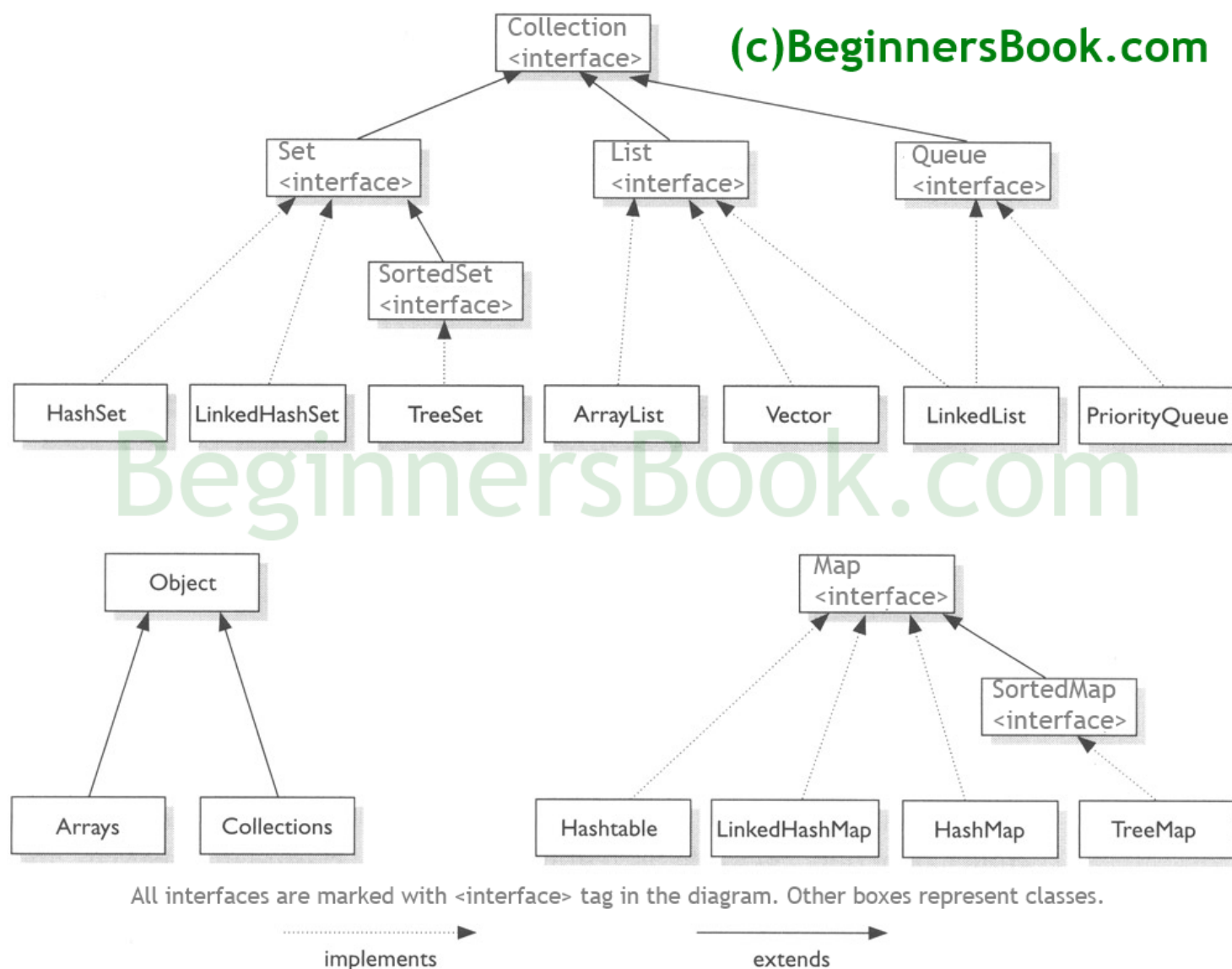
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Java Collections Framework Tutorials

The [Java Collections Framework](#) is a collection of interfaces and classes which helps in storing and processing the data efficiently. This framework has several useful classes which have tons of useful functions which makes a programmer task super easy. I have written several tutorials on Collections and below are the links of those. All the tutorials are shared with examples and source codes to help you understand better.

Collections Framework hierarchy



List

A List is an ordered Collection (sometimes called a sequence). Lists may contain duplicate elements. Elements can be inserted or accessed by their position in the list, using a zero-based index.

- [ArrayList](#)

- [LinkedList](#)
- [Vector](#)

Set

A Set is a Collection that cannot contain duplicate elements. There are three main implementations of Set interface: HashSet, TreeSet, and LinkedHashSet. HashSet, which stores its elements in a hash table, is the best-performing implementation; however it makes no guarantees concerning the order of iteration. TreeSet, which stores its elements in a red-black tree, orders its elements based on their values; it is substantially slower than HashSet. LinkedHashSet, which is implemented as a hash table with a linked list running through it, orders its elements based on the order in which they were inserted into the set (insertion-order).

- [HashSet](#)
- [LinkedHashSet](#)
- [TreeSet](#)

Map

A Map is an object that maps keys to values. A map cannot contain duplicate keys. There are three main implementations of Map interfaces: HashMap, TreeMap, and LinkedHashMap.

HashMap: it makes no guarantees concerning the order of iteration

TreeMap: It stores its elements in a red-black tree, orders its elements based on their values; it is substantially slower than HashMap.

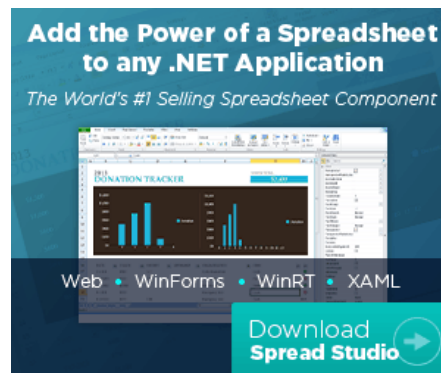
LinkedHashMap: It orders its elements based on the order in which they were inserted into the set (insertion-order).

- [HashMap](#)
- [TreeMap](#)
- [LinkedHashMap](#)

Iterator/ListIterator

Both Iterator and ListIterator are used to iterate through elements of a collection class. Using Iterator we can traverse in one direction (forward) while using ListIterator we can traverse the collection class on both the directions(backward and forward). To know more differences between these two refer this article: [Difference between Iterator and ListIterator](#).

- [Iterator](#)
- [ListIterator](#)



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- veeru August 12, 2014, 1:54 PM

Hi Sir,

I thank you very much for posting such an awesome java content.

The way you explained the Concepts are very clear.

But I am not able to find topics on List and Set.

Could you please let me know the link for accessing the List and set related topics ?

Rgds,

Manvi

[Reply](#)

- Chaitanya Singh September 16, 2014, 6:02 PM

Thank you for your kind words. I have updated the page by providing links of List and Set related tutorials, you can find the same above.

[Reply](#)

- sravani September 26, 2014, 8:06 AM

Hi sir,

This site is simply awesome.Thanks for your efforts.
we need more concepts from you like struts,hibernate!

[Reply](#)

- Sundar October 21, 2014, 5:15 AM

Hai Sir,

This site is very useful for learners.I had one doubt, the doubt is, in hashmap and array concept we will display line and bar graph in one page with data input and cluster in JSP.what is the source code .Kindly tell me.Please send source code in my mail.

Thank you.

[Reply](#)

- Ror October 23, 2014, 11:29 AM

This site helps me a lot.

[Reply](#)

- sriram November 1, 2014, 1:28 AM

Hi Chaitanya,

Your content,depth of knowledge in the concepts is simply superb,mind blowing and awesome,i have visited many blogs and sites to learn the concepts in a easily understandable way, but i didn't find any, but when i came across your site accidentally, i was amazed by way you make readers understand the concepts.

All these years i was feared of looking at the concepts of collections even,but now, after going through your site. That fear in me no more exist!!!! I thanks you from my bottom of heart for your kind knowledge sharing.

Regards,

Sriram.

[Reply](#)

- Kalkidan Ferede November 27, 2014, 11:20 PM

I was looking for this kind of organized concept based tutorial on the Internet for an hour. indeed I succeeded! thank you sir! do you also have tutorials on JSF, hibernate, EJP, JPA, Spring, struts ? I really need to learn this topics from you if it is available. keep the good work!

[Reply](#)

- Kalkidan Ferede November 27, 2014, 11:29 PM

Awsome! can you add why we need Iterator? why can't we use loops(for loop, while loop, do while)?

[Reply](#)

- uvi December 3, 2014, 11:43 AM

Great work buddy !!!!

I learned lot of thing from your site. Your explanations are very simple and clear.

keep it up.

best of luck !!!

[Reply](#)

- Junaidali December 12, 2014, 12:26 PM

Good One Sir...

[Reply](#)

- Pavan December 23, 2014, 8:37 PM

Hello Chaitanya, this tutorial is awesome. Many thanks for your efforts. Do we option to post our java queries in this site? If Yes, please let me know. If not, I think it would be a great enhancement for this site.

[Reply](#)

- Murali.Bojanki February 1, 2015, 3:58 PM

Hi Sir,

the way your explanation is very very good, Beginners book is exactly suitable word for people who are learning new technology this website is 100% perfect for learners

[Reply](#)

- Harish Patil March 18, 2015, 12:41 PM

Awesome explanation!!!!!!

Thanks for such a simple and deep explanation of all concepts with example

[Reply](#)

- Mirza Adil March 21, 2015, 3:01 AM

Nice Material

[Reply](#)

- Fernando April 23, 2015, 4:34 AM

The content is very simple but yet very strong in communicating the concepts. Excellent set of tutorials. Thanks a lot!!

[Reply](#)

- Deepmala April 24, 2015, 10:15 PM

Hi Chaitanya!

Very good job. One of the best collections examples I have seen till date. Keep up the good work. All the best for all your future endeavors!

[Reply](#)

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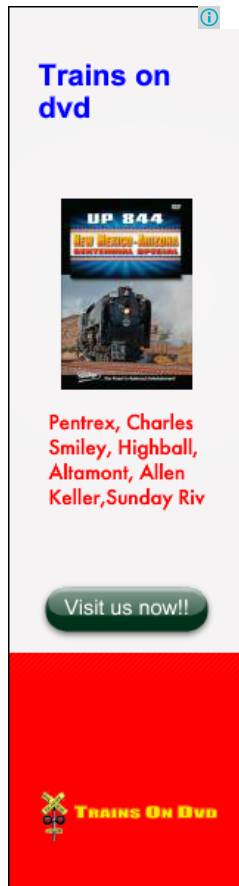
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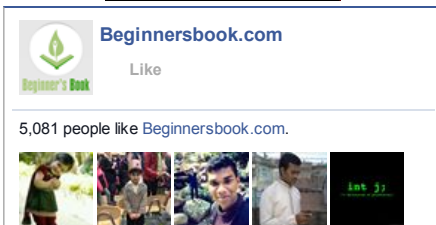
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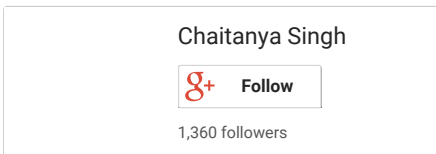
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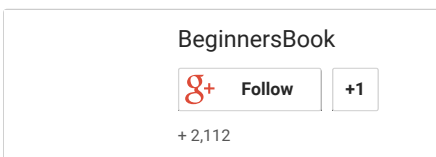


Chaitanya Singh



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About Chaitanya Singh



Founder of beginnersBook.com, loves Java and open source stuff. BeginnersBook.com is a tech blog where he shares tutorials on programming (Java, C, CPP), WordPress, SEO and web development.

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