

Mapping Overview



Section Road Map

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Advanced Mappings

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- Collections: List, Set and Map (including sorted versions)

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Advanced Mappings

- Collections: List, Set and Map (including sorted versions)
- Components: @Embeddable and @Embedded
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- Inheritance: single table, table per class, joined table, mapped super class

Collections

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 - Course has a *collection* of students
 - Student has a *collection* of images

Collections

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 - Person has a *collection* of email addresses
 - Course has a *collection* of students
 - Student has a *collection* of images
 - Company has a *collection* of employees

Java Collections

Java Collections

- List: ordered collection of items, may contain duplicates

Java Collections

- **List:** ordered collection of items, may contain duplicates
- **Set:** collection of items that contains no duplicates

Java Collections

- **List:** ordered collection of items, may contain duplicates
- **Set:** collection of items that contains no duplicates
- **Map:** object that maps keys to values, no duplicate keys allowed

Java Collections

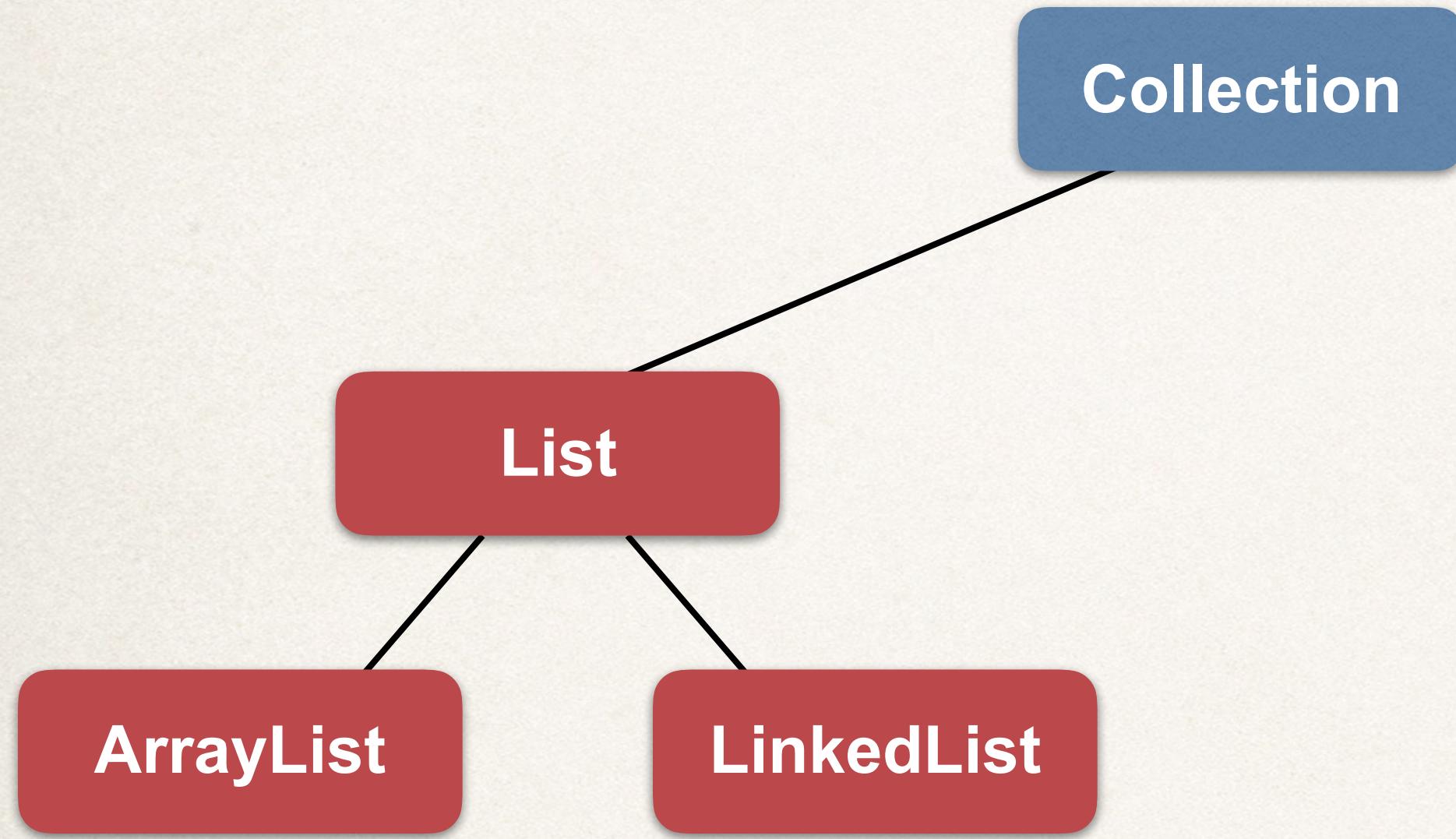
	Preserve insertion order?	Allow duplicates?
List	Yes	Yes
Set	No	No
Map	No	Keys: no Values: yes

Java Collections Framework

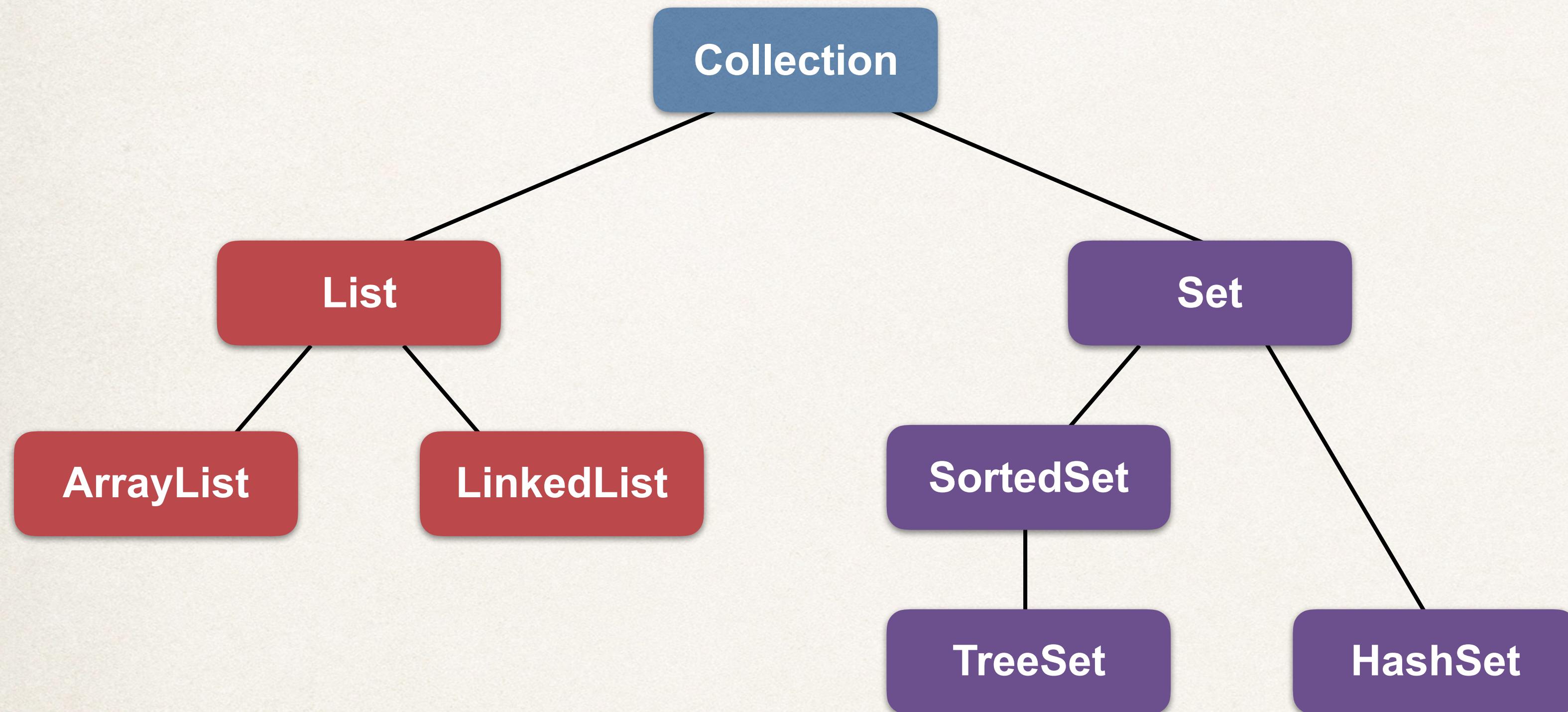
Java Collections Framework

Collection

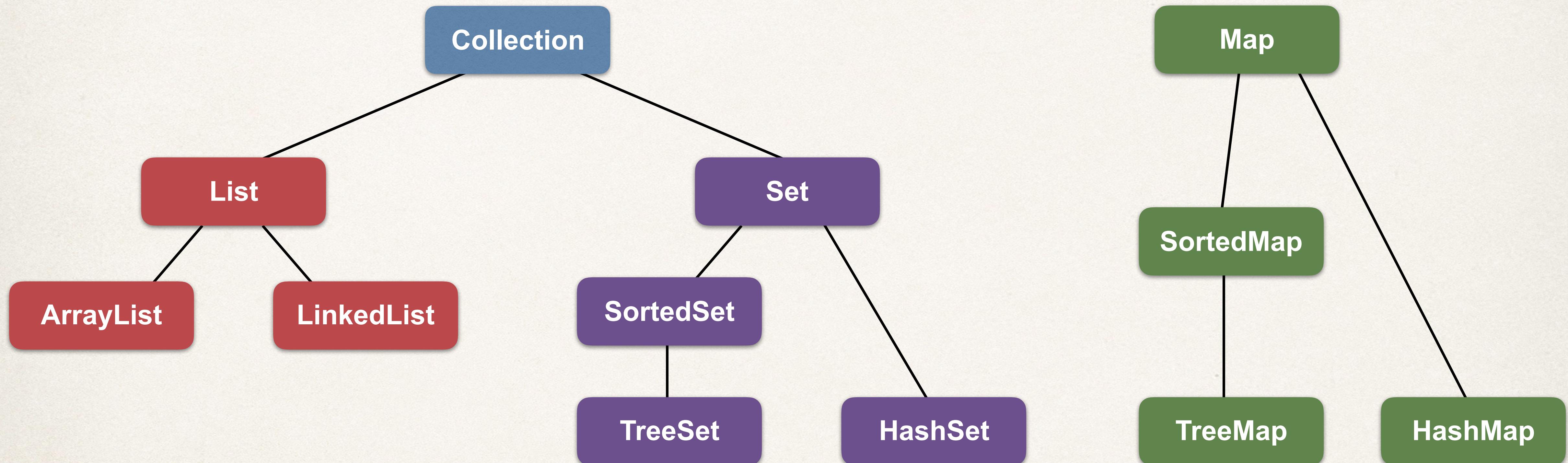
Java Collections Framework



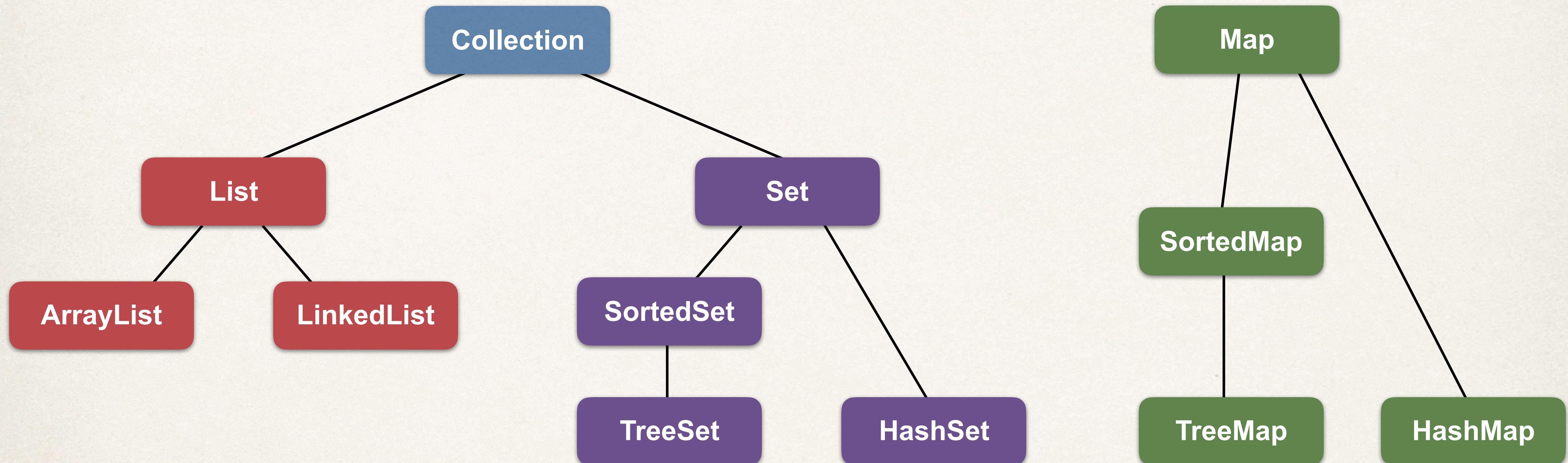
Java Collections Framework



Java Collections Framework



Java Collections Framework



Note: this is not a complete diagram