

Working with Sets and Maps



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List

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| "A" | "A" | "B" | "B" | "C" | "C" | "D" | "D" | "E" | "E" |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Set

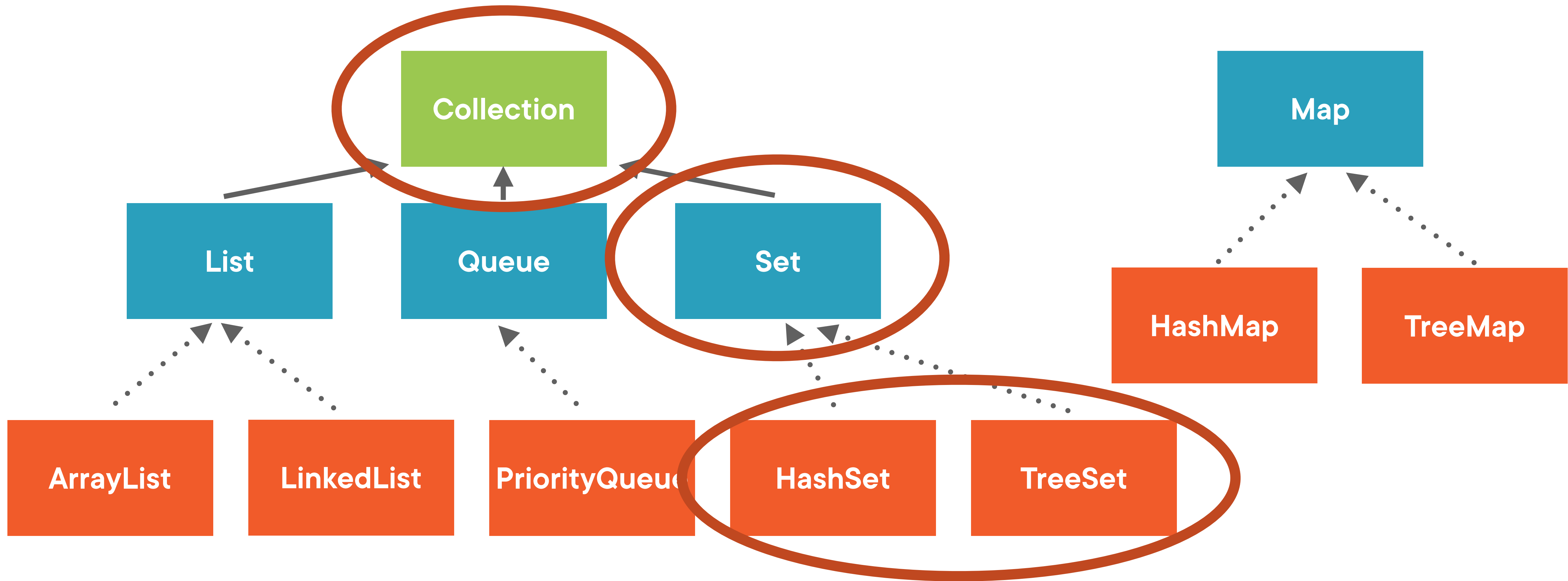
"Circle"

"Triangle"

"Square"

"Rectangle"

The Collection Interface



The HashSet hashCode Method

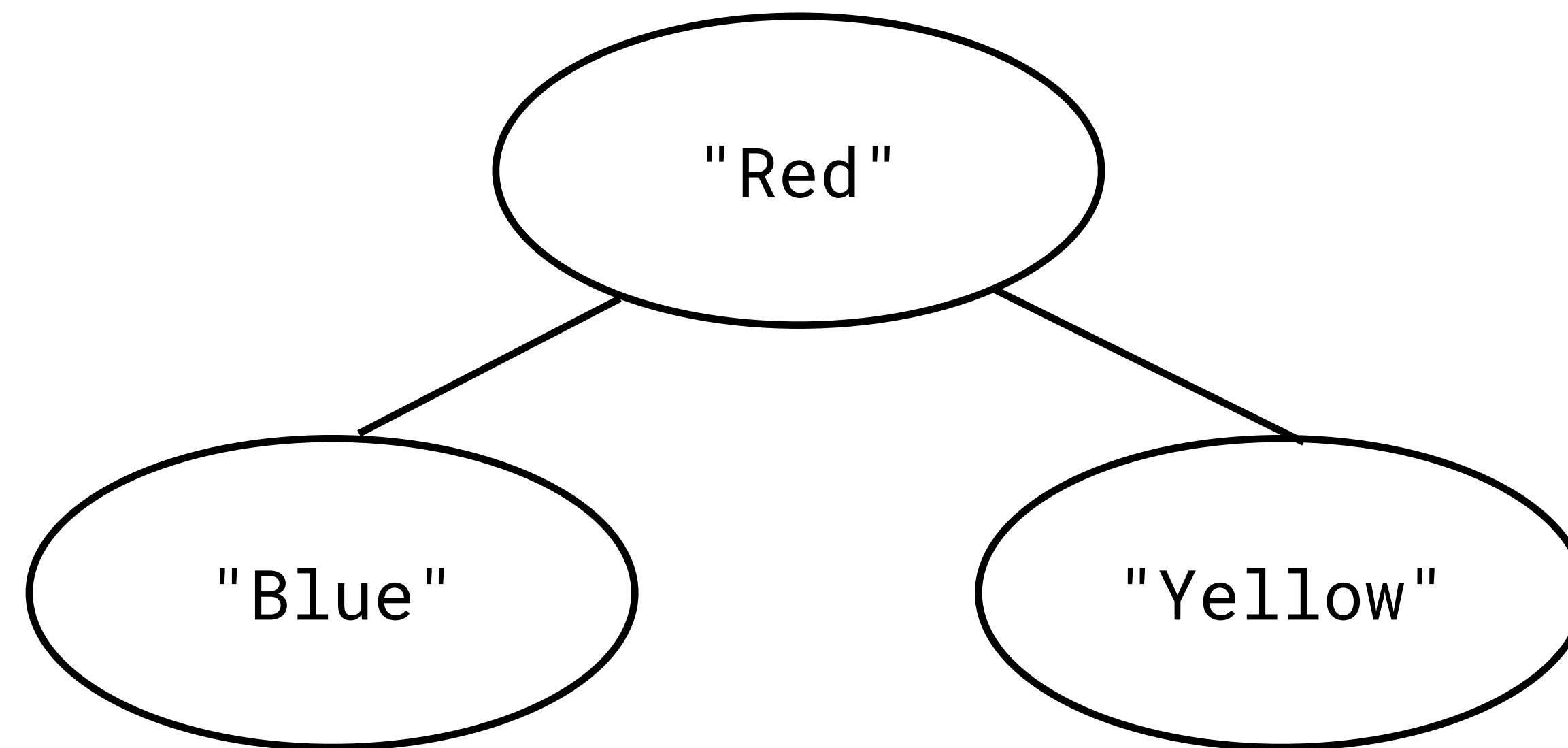
Color Set

Colors
Hash Code

| | | |
|-------|-------------|---------|
| "Red" | "Yellow" | "Blue" |
| 82033 | -1650372460 | 2073722 |

```
public int hashCode();
```

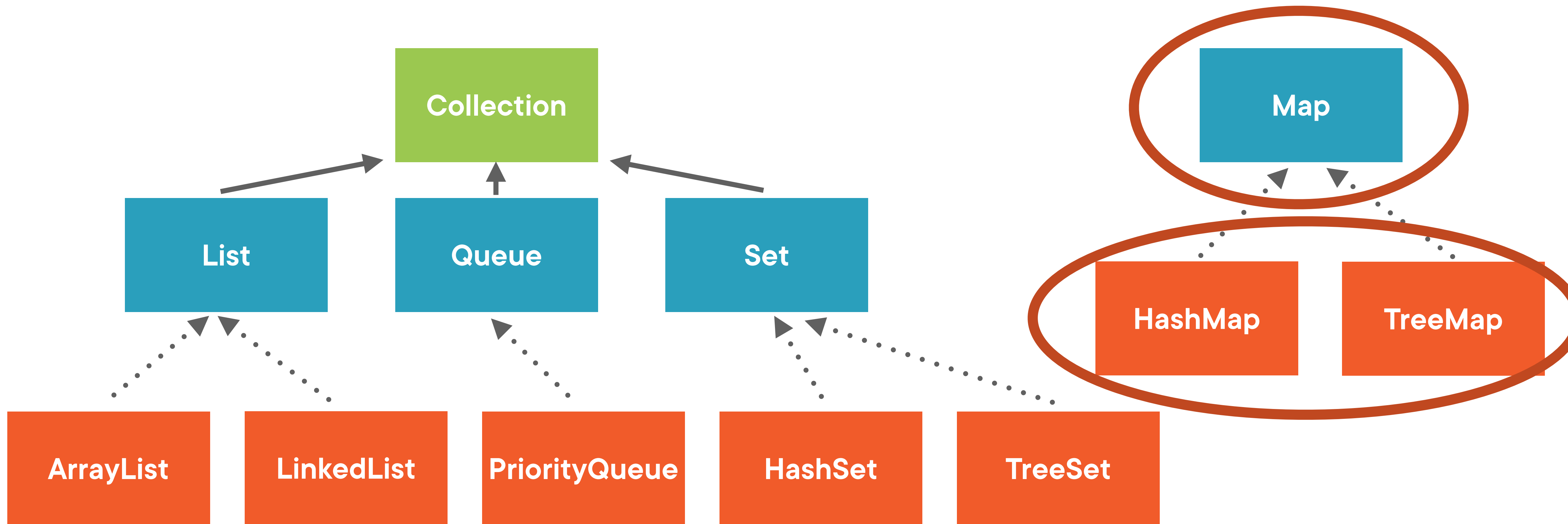
The TreeSet compareTo Method



```
public int compareTo(T o);
```

HashSet Sort? No

The Map Interface



Summary

- **Sets are unique and implement Collection**
- **HashSet is unordered, TreeSet is ordered**
- **Maps are key value pairs and don't implement Collection**
- **HashMap is unordered, TreeMap keys are ordered**