

From Comparable to Comparator

- **When a class implements Comparable then ...**
 - Comparable<...> types the parameter to compareTo
 - Return < 0, == 0, > 0 according to results of comparison
- **Suppose we want to change how Strings compare**
 - Or change class Foo implements Comparable<Foo>
 - What if we need more than one way to compare Foo's?
- **New interface to the rescue: Comparator**
 - Change how String or Foo or ... compares
 - Comparator object is argument to sort, for example

java.util.Comparator

- **How does sorting work in general and in Java?**
 - Characteristics of Java library sort methods
 - What can be sorted?
 - How do you change how sorting works?
- **Use APT ClientsList as an example to explore Comparator**
 - Creating new Comparator: nested class
 - Should it be public? Private? Matter?
 - Comparator could anonymous, but then issues.
- **What does it mean to *implement Comparable*?**
 - Other Java interfaces: cloneable, serializable, ...