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org.apache.commons.collections4

## Interface Equator<T>

* Type Parameters: T - the types of object this [Equator](http://docs.google.com/org/apache/commons/collections4/Equator.html) can evaluate. All Known Implementing Classes: [DefaultEquator](http://docs.google.com/org/apache/commons/collections4/functors/DefaultEquator.html)  
    
  public interface Equator<T>  
  An equation function, which determines equality between objects of type T.  
  It is the functional sibling of [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true); [Equator](http://docs.google.com/org/apache/commons/collections4/Equator.html) is to [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) as [Comparator](https://docs.oracle.com/javase/7/docs/api/java/util/Comparator.html?is-external=true) is to [Comparable](https://docs.oracle.com/javase/7/docs/api/java/lang/Comparable.html?is-external=true).Since: 4.0

### Method SummaryAll Methods Instance Methods Abstract Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [equate](http://docs.google.com/org/apache/commons/collections4/Equator.html#equate-T-T-)([T](http://docs.google.com/org/apache/commons/collections4/Equator.html) o1, [T](http://docs.google.com/org/apache/commons/collections4/Equator.html) o2) Evaluates the two arguments for their equality. |
| * + int | * + [hash](http://docs.google.com/org/apache/commons/collections4/Equator.html#hash-T-)([T](http://docs.google.com/org/apache/commons/collections4/Equator.html) o) Calculates the hash for the object, based on the method of equality used in the equate method. |

### Method Detail

#### equate boolean equate([T](http://docs.google.com/org/apache/commons/collections4/Equator.html) o1, [T](http://docs.google.com/org/apache/commons/collections4/Equator.html) o2) Evaluates the two arguments for their equality.Parameters: o1 - the first object to be equated. o2 - the second object to be equated. Returns: whether the two objects are equal.

#### hash int hash([T](http://docs.google.com/org/apache/commons/collections4/Equator.html) o) Calculates the hash for the object, based on the method of equality used in the equate method. This is used for classes that delegate their [equals(Object)](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-) method to an Equator (and so must also delegate their [hashCode()](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--) method), or for implementations of [HashedMap](http://docs.google.com/org/apache/commons/collections4/map/HashedMap.html) that use an Equator for the key objects.Parameters: o - the object to calculate the hash for. Returns: the hash of the object.

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