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org.apache.commons.collections4.keyvalue

## Class DefaultKeyValue<K,V>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + [org.apache.commons.collections4.keyvalue.AbstractKeyValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html)<K,V>
    - org.apache.commons.collections4.keyvalue.DefaultKeyValue<K,V>
* Type Parameters: K - the type of keys V - the type of values All Implemented Interfaces: [KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<K,V>  
    
  public class DefaultKeyValue<K,V>  
  extends [AbstractKeyValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html)<K,V>  
  A mutable KeyValue pair that does not implement [Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true).  
  Note that a DefaultKeyValue instance may not contain itself as a key or value.Since: 3.0

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [DefaultKeyValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#DefaultKeyValue--)() Constructs a new pair with a null key and null value. |
| * + [DefaultKeyValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#DefaultKeyValue-org.apache.commons.collections4.KeyValue-)([KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<? extends [K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html)> pair) Constructs a new pair from the specified KeyValue. |
| * + [DefaultKeyValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#DefaultKeyValue-K-V-)([K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) key, [V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) value) Constructs a new pair with the specified key and given value. |
| * + [DefaultKeyValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#DefaultKeyValue-java.util.Map.Entry-)([Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html)> entry) Constructs a new pair from the specified Map.Entry. |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [equals](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#equals-java.lang.Object-)([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) obj) Compares this Map.Entry with another Map.Entry. |
| * + int | * + [hashCode](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#hashCode--)() Gets a hashCode compatible with the equals method. |
| * + [K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) | * + [setKey](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#setKey-K-)([K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) key) Sets the key. |
| * + [V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) | * + [setValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#setValue-V-)([V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) value) Sets the value. |
| * + [Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html),[V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html)> | * + [toMapEntry](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html#toMapEntry--)() Returns a new Map.Entry object with key and value from this pair. |

### Methods inherited from class org.apache.commons.collections4.keyvalue.[**AbstractKeyValue**](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html)[getKey](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html#getKey--), [getValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html#getValue--), [toString](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html#toString--)

### Methods inherited from class java.lang.[**Object**](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[clone](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#clone--), [finalize](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#finalize--), [getClass](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#getClass--), [notify](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notify--), [notifyAll](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notifyAll--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-int-)

### Constructor Detail

#### DefaultKeyValue public DefaultKeyValue() Constructs a new pair with a null key and null value.

#### DefaultKeyValue public DefaultKeyValue([K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) key, [V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) value) Constructs a new pair with the specified key and given value.Parameters: key - the key for the entry, may be null value - the value for the entry, may be null

#### DefaultKeyValue public DefaultKeyValue([KeyValue](http://docs.google.com/org/apache/commons/collections4/KeyValue.html)<? extends [K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html)> pair) Constructs a new pair from the specified KeyValue.Parameters: pair - the pair to copy, must not be null Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the entry is null

#### DefaultKeyValue public DefaultKeyValue([Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<? extends [K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html),? extends [V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html)> entry) Constructs a new pair from the specified Map.Entry.Parameters: entry - the entry to copy, must not be null Throws: [NullPointerException](https://docs.oracle.com/javase/7/docs/api/java/lang/NullPointerException.html?is-external=true) - if the entry is null

### Method Detail

#### setKey public [K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) setKey([K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) key) Sets the key.Overrides: [setKey](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html#setKey-K-) in class [AbstractKeyValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html)<[K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html),[V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html)> Parameters: key - the new key Returns: the old key Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if key is this object

#### setValue public [V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) setValue([V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html) value) Sets the value.Overrides: [setValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html#setValue-V-) in class [AbstractKeyValue](http://docs.google.com/org/apache/commons/collections4/keyvalue/AbstractKeyValue.html)<[K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html),[V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html)> Parameters: value - the new value Returns: the old value of the value Throws: [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - if value is this object

#### toMapEntry public [Map.Entry](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true)<[K](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html),[V](http://docs.google.com/org/apache/commons/collections4/keyvalue/DefaultKeyValue.html)> toMapEntry() Returns a new Map.Entry object with key and value from this pair.Returns: a MapEntry instance

#### equals public boolean equals([Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) obj) Compares this Map.Entry with another Map.Entry. Returns true if the compared object is also a DefaultKeyValue, and its key and value are equal to this object's key and value.Overrides: [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Parameters: obj - the object to compare to Returns: true if equal key and value

#### hashCode public int hashCode() Gets a hashCode compatible with the equals method. Implemented per API documentation of [Map.Entry.hashCode()](https://docs.oracle.com/javase/7/docs/api/java/util/Map.Entry.html?is-external=true#hashCode--), however subclasses may override this.Overrides: [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--) in class [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true) Returns: a suitable hash code

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