Hamcrest comes with a library of useful matchers. Here are some of the most important ones.

**Text:**

equalToIgnoringCase - test string equality ignoring case

equalToIgnoringWhiteSpace - test string equality ignoring differences in runs of whitespace

containsString, endsWith, startsWith - test string matching

*[eg: assertThat*(**"message"**, str,*is*(*both*(*startsWith*(**"ba"**)).and(*endsWith*(**"thy"**))));]

**Number:**

closeTo - test floating point values are close to a given value (

greaterThan, greaterThanOrEqualTo, lessThan, lessThanOrEqualTo - test ordering

*[eg; assertThat*(**"message"**,18, *is*(*both*(*greaterThan*(10)).and(*lessThan*(20))));]

*[eg: assertThat*(**"message"**,arr, *either*(*hasItem*(11)).or(*hasItem*(21)));]

**Collections:**

array - test an array’s elements against an array of matchers

hasItemInArray - test an array contains an element

hasItem, hasItems - test a collection contains elements

hasEntry, hasKey, hasValue - test a map contains an entry, key or value

arrayContaining, arrayContainingInAnyOrder, arrayWithSize, contains, containsInAnyOrder, hasSize, isIn, isOneOf

**Logical:**

allOf - matches if all matchers match, short circuits (like Java &&)

anyOf - matches if any matchers match, short circuits (like Java ||)

not - matches if the wrapped matcher doesn’t match and vice versa

**Sugar**

Hamcrest strives to make your tests as readable as possible. For example, the is matcher is a wrapper that doesn’t add any extra behavior to the underlying matcher. The following assertions are all equivalent:

assertThat(theBiscuit, equalTo(myBiscuit));

assertThat(theBiscuit, is(equalTo(myBiscuit)));

assertThat(theBiscuit, is(myBiscuit));

describedAs, is used to override the failure output of another matcher.

[eg: assertThat(actual, *describedAs*(**"input > %0"**, *greaterThan*(expected), expected));]

The last form is allowed since is(T value) is overloaded to return is(equalTo(value)).

**Object**

equalTo - test object equality using Object.equals

hasToString - test Object.toString

instanceOf, isCompatibleType - test type

notNullValue, nullValue - test for null

sameInstance - test object identity

**Beans**

hasProperty - test JavaBeans properties.