

# Underscore.js Cheatsheet

Collection Functions	Array Functions <small>(will also work on the arguments object)</small>	Function :- ) Functions	Object Functions	Utility Functions
<b>each</b> (list, iter, [con]) <i>forEach</i> <i>iter</i> : function(element, index, list)	<b>first</b> (array, [n]) <i>head</i> Returns first (first <i>n</i> ) element(s) of an array.	<b>bind</b> (func, obj, [*args]) Bind a function to an object, meaning that whenever the function is called, the value of this will be the object. Optionally, bind arguments to the function to pre-fill them, also known as currying.	<b>keys</b> (object) Retrieve all the names of the <i>object's</i> properties.	<b>noConflict</b> () Give control of the "_" variable back to its previous owner. Returns a reference to the Underscore object.
<b>map</b> (list, iter, [con])    <code>_.map([1, 2, 3], function(x){return x*2;})</code> = [2, 4, 6]	<b>initial</b> (array, [n]) Returns a copy of an array excluding last (last <i>n</i> ) element(s).	<b>bindAll</b> (func, [*methodNames]) Binds a number of methods on the object, specified by <i>methodNames</i> , to be run in the context of that object whenever they are invoked. If no <i>methodNames</i> are provided, all of the object's function properties will be bound to it.	<b>values</b> (object) Return all of the values of the <i>object's</i> properties.	<b>identity</b> (value) Returns the same value that is used as the argument. Used as default iterator.
<b>reduce</b> (list, iter, m, [con]) <i>inject</i> , <i>foldl</i> <i>iter</i> : function(memo, el), <i>m</i> : memo    <code>_.reduce([2, 3], function(m, i){return m+i;}, 0)</code> = 6	<b>last</b> (array, [n]) Returns last (last <i>n</i> ) element(s) from an array.	<b>memoize</b> (func, [hashFunction]) Memoizes a given function by caching the computed result. If passed an optional <i>hashFunction</i> , it will be used to compute the hash key for storing the result, based on the arguments to the original function. The default <i>hashFunction</i> just uses the first argument to the memoized function as the key.	<b>functions</b> (object) <i>methods</i> Returns a sorted list of the names of every method in an <i>object</i> .	<b>mixIn</b> (object) Allows you to extend Underscore with your own utility functions.
<b>reduceRight</b> (list, iter, m, [con]) <i>foldr</i> Similar to <i>reduce</i> , but works in opposite direction.	<b>rest</b> (array, [n]) <i>tail</i> Returns a copy of an array excluding first (first <i>n</i> ) element(s).	<b>compact</b> (array) Returns a copy of the array with all falsy ( <i>0</i> , <i>false</i> , <i>null</i> , <i>undefined</i> , <i>""</i> , <i>NaN</i> ) values removed.	<b>extend</b> (destination, *sources) Copy all of the properties in the <i>source</i> objects over to the <i>destination</i> object.	<b>uniqueId</b> ([prefix]) Generate a globally-unique id for client-side models or DOM elements that need one.
<b>detect</b> (list, iter, [con]) Returns the first found value that passes a truth test ( <i>iter</i> ).	<b>flatten</b> (array) Flattens a nested array.    <code>_.flatten([1, 2, [[3], 4]])</code> = [1, 2, 3, 4]	<b>delay</b> (func, wait, [*args]) <b>defer</b> (func) Defers invoking the function until the current call stack has cleared, similar to using <i>setTimeout</i> with a delay of 0.	<b>defaults</b> (object, *defaults) Fill in missing properties in object with default values from the defaults objects. As soon as the property is filled, further defaults will have no effect.	<b>template</b> (templateString, [con]) Compiles JavaScript templates into functions that can be evaluated for rendering.
<b>select</b> (list, iter, [con]) <i>filter</i>    <code>_.select([1, 2, 3], function(x){return x&lt;3;})</code> = [1, 2]	<b>without</b> (array, [*values]) Copy of the array with all passed values removed. ===	<b>throttle</b> (func, wait) Returns a throttled version of the function, that, when invoked repeatedly, will only actually call the wrapped function at most once per every <i>wait</i> milliseconds.	<b>clone</b> (object) Create a shallow-copied clone of the object. Any nested objects or arrays will be copied by reference, not duplicated.	<b>chain</b> () Returns a wrapped object. Calling methods on this object will continue to return wrapped objects until value is used.    <code>var l = [{n: 'sam', age: 25}, {n: 'moe', age: 21}];</code> <code>var y = _(list).chain()</code> <code>.sortBy(function(s){ return s.age; })</code> <code>.map(function(s){ return s.n + ' is ' + s.age; })</code> <code>.first()</code> <code>.value();</code> = "moe is 21"
<b>reject</b> (list, iter, [con]) Opposite of select.	<b>union</b> ([*arrays]) <b>intersection</b> ([*arrays])	<b>debounce</b> (func, wait) Repeated calls to a debounced function will postpone it's execution until after <i>wait</i> milliseconds have elapsed.	<b>tap</b> (object, interceptor) Invokes interceptor with the object, and then returns object. The primary purpose of this method is to "tap into" a method chain, in order to perform operations on intermediate results within the chain.    <code>_(1,2,3,200).chain()</code> <code>select(function(x){ return x%2 == 0; });</code> <code>tap(console.log)</code> <code>map(function(x){ return x*x; })</code> <code>value();</code> = [2, 200] = [4, 40000]	<b>value</b> () Extracts the value of a wrapped object.    <code>_(obj).value()</code>
<b>all</b> (list, iter, [con]) <i>every</i> Returns true if all of the values in the list pass the <i>iter</i> truth test.	<b>difference</b> (array, other)	<b>once</b> (func) Creates a version of the function that can only be called one time. Repeated calls to the modified function will have no effect, returning the value from the original call.	<b>isEqual</b> (object, other) Performs an optimized deep comparison between the two objects, to determine if they should be considered equal.	<b>isElement</b> (object) Returns true if object is a DOM element.
<b>any</b> (list, iter, [con]) <i>some</i> Returns true if any of the values in the list pass the <i>iter</i> truth test.	<b>unique</b> (array, [isSorted], [iter]) <i>uniq</i> Produces a duplicate-free version of the array. ===	<b>after</b> (count, func) Creates a version of the function that will only be run after first being called <i>count</i> times.	<b>isEmpty</b> (object) Returns true if object contains no values.    <code>_.isEmpty({})</code> = true	<b>isArray</b> (object) <b>isArguments</b> (object)
<b>contains</b> (list, value) <i>include</i> Returns true if the value is present in the list. ===	<b>indexOf</b> (array, value, [isSorted]) Returns the index at which value can be found in the array, or -1 if value is not present.	<b>wrap</b> (func, wrapper) Wraps the first function inside of the <i>wrapper</i> function, passing it as the first argument.	<b>isFunction</b> (object)	<b>isString</b> (object) <b>isNumber</b> (object) <b>isBoolean</b> (object) <b>isDate</b> (object) <b>isRegExp</b> (object)
<b>invoke</b> (list, methodName, [*args]) Calls the method named by <i>methodName</i> on each value in the list with passed arguments (if any).	<b>lastIndexOf</b> (array, value) Returns the index of the last occurrence of value in the array, or -1 if value is not present.	<b>compose</b> (*functions) Returns the composition of a list of functions, where each function consumes the return value of the function that follows. In math terms, composing the functions <i>f0</i> , <i>g0</i> , and <i>h0</i> produces <i>fig(h0)</i> .	<b>isBoolean</b> (object) <b>isDate</b> (object) <b>isRegExp</b> (object)	<b>example</b> (arguments) <i>alias</i> <i>con</i> : context forced for an iterator    <code>some_code_examples();</code> <code>_size([1, 1])</code> = 2 A bit of description. * === is used for test equality === *
<b>pluck</b> (list, propertyName) Extracting a list of property values.    <code>_.pluck([{'k': 1}, {'k': 2}], 'k')</code> = [1, 2]	<b>zip</b> ([*arrays]) Merges together the values of each of the arrays with the values at the corresponding position.    <code>_.zip(['a', 'b', 'c'], [1, 2, 3], ['x', 'y', 'z'])</code> = [ ['a', 1, 'x'], ['b', 2, 'y'], ['c', 3, 'z'] ]		<b>isString</b> (object) <b>isNumber</b> (object) <b>isBoolean</b> (object) <b>isDate</b> (object) <b>isRegExp</b> (object)	
<b>max</b> (list, [iter], [con])    <code>_.max([{'k': 3}, {'k': 1}], function(i){ return i.k; })</code> = 3	<b>range</b> ([start], stop, [step]) Returns a list of integers from <i>start</i> to <i>stop</i> , incremented (or decremented) by <i>step</i> , exclusive.    <code>_.range(10)</code> = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9] <code>_.range(1, 11)</code> = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] <code>_.range(0, 30, 5)</code> = [0, 5, 10, 15, 20, 25] <code>_.range(0, -10, -1)</code> = [0, -1, -2, -3, -4, -5, -6, -7, -8, -9] <code>_.range(0)</code> = []		<b>isString</b> (object) <b>isNumber</b> (object) <b>isBoolean</b> (object) <b>isDate</b> (object) <b>isRegExp</b> (object)	
<b>min</b> (list, [iter], [con])    <code>_.min([2, 3], function(i){ return i*i; })</code> = 4			<b>isString</b> (object) <b>isNumber</b> (object) <b>isBoolean</b> (object) <b>isDate</b> (object) <b>isRegExp</b> (object)	
<b>sortBy</b> (list, iter, [con]) Returns a sorted copy of list, ranked by the results of running each value through iterator.    <code>_.sortBy([1, 2, 3, 4, 5], function(x){ return Math.sin(x); })</code> = [5, 4, 3, 1, 2]			<b>isString</b> (object) <b>isNumber</b> (object) <b>isBoolean</b> (object) <b>isDate</b> (object) <b>isRegExp</b> (object)	
<b>groupBy</b> (list, iter, [con]) Splits a collection into sets, grouped by the result of <i>iter</i> .    <code>_.groupBy([1.3, 2.1, 2.4], function(x){ return Math.floor(x); })</code> = { 1: [1.3], 2: [2.1, 2.4] }			<b>isString</b> (object) <b>isNumber</b> (object) <b>isBoolean</b> (object) <b>isDate</b> (object) <b>isRegExp</b> (object)	
<b>toArray</b> (list) <b>size</b> (list) <b>shuffle</b> (list)			<b>isString</b> (object) <b>isNumber</b> (object) <b>isBoolean</b> (object) <b>isDate</b> (object) <b>isRegExp</b> (object)	