# **Appendix E. jQuery Selectors, Objects, and Methods**

[Chapter 21](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch21.html#introduction_to_jquery) gives you a good grounding in using the jQuery JavaScript library. To help you use jQuery to the fullest, here’s a comprehensive list of the selectors, objects, and methods it uses. There wasn’t room to introduce all of them in this book, but you should now know enough to be able to use them correctly.

Please bear in mind, though, that sometimes new features are added, bugs are fixed, and other features are deprecated or removed. You can keep up to date with the latest developments, information on deprecated or removed features (not detailed here), and newer releases of jQuery on the [jQuery website](http://jquery.com/) and in the [API documentation](http://api.jquery.com/).

# **jQuery Selectors**

*('\*')*

Selects all elements.

*('element')*

Selects all elements with the given tag name.

*('#id')*

Selects a single element with the given ID.

*('.class')*

Selects all elements with the given class.

*('selector1, selector2, ...selectorN')*

Selects the combined results of all the specified selectors.

*('ancestor descendant')*

Selects all elements that are descendants of the given ancestor.

*('prev + next')*

Selects all elements matching *next* that are immediately preceded by a sibling *prev*.

*('prev ~ siblings')*

Selects all sibling elements that follow the *prev* element, have the same parent, and match the filtering *siblings* selector.

*('parent > child')*

Selects all direct child elements specified by *child* of elements specified by *parent*.

*[name]*

Selects elements that have the specified attribute *name*, with any value.

*[name|='value']*

Selects elements that have the specified attribute *name* with a *value* either equal to a given string or starting with that string followed by a hyphen (-).

*[name\*='value']*

Selects elements that have the specified attribute *name* with a *value* containing a given substring.

*[name~='value']*

Selects elements that have the specified attribute *name* with a *value* containing a given word, delimited by spaces.

*[name$='value']*

Selects elements that have the specified attribute *name* with a *value* ending exactly with a given string. The comparison is case-sensitive.

*[name='value']*

Selects elements that have the specified attribute *name* with a *value* exactly equal to a certain value.

*[name!='value']*

Selects elements that either don’t have the specified attribute *name*, or do have the specified attribute but not with a certain *value*.

*[name^='value']*

Selects elements that have the specified attribute *name* with a *value* beginning exactly with a given string.

*[name='value'][name2='value2']*

Matches elements that match all of the specified attribute filters.

*:animated*

Selects all elements that are in the progress of an animation at the time the selector is run.

*:button*

Selects all elements of type button.

*:checkbox*

Selects all elements of type checkbox.

*:checked*

Matches all elements that are checked or selected.

*:contains(text)*

Selects all elements that contain the specified *text*.

*:disabled*

Selects all elements that are disabled.

*:empty*

Selects all elements that have no children (including text nodes).

*:enabled*

Selects all elements that are enabled.

*:eq(n)*

Selects the element at index *n* within the matched set.

*:even*

Selects even elements, zero-indexed. See also :odd.

*:file*

Selects all elements of type file.

*:first-child*

Selects all elements that are the first child of their parent.

*:first-of-type*

Selects all elements that are the first among siblings of the same element name.

*:first*

Selects the first matched element.

*:focus*

Selects an element if it is currently focused.

*:gt(index)*

Selects all elements at an index greater than *index* within the matched set.

*:has(selector)*

Selects elements that contain at least one element that matches the specified *selector*.

*:header*

Selects all elements that are headers, like h1, h2, h3, and so on.

*:hidden*

Selects all elements that are hidden.

*:image*

Selects all elements of type image.

*:input*

Selects all input, textarea, select, and button elements.

*:lang(language)*

Selects all elements of the specified *language*.

*:last-child*

Selects all elements that are the last child of their parent.

*:last-of-type*

Selects all elements that are the last among siblings of the same element name.

*:last*

Selects the last matched element.

*:lt(index)*

Selects all elements at an index less than *index* within the matched set.

*:not(selector)*

Selects all elements that do not match the given *selector*.

*:nth-child(n)*

Selects all elements that are the *n*th child of their parent.

*:nth-last-child(n)*

Selects all elements that are the *n*th child of their parent, counting from the last element to the first.

*:nth-last-of-type(n)*

Selects all elements that are the *n*th child of their parent in relation to siblings with the same element name, counting from the last element to the first.

*:nth-of-type(n)*

Selects all elements that are the *n*th child of their parent in relation to siblings with the same element name.

*:odd*

Selects odd elements, zero-indexed. See also :even.

*:only-child*

Selects all elements that are the only child of their parent.

*:only-of-type*

Selects all elements that have no siblings with the same element name.

*:parent*

Selects all elements that have at least one child node (either an element or text).

*:password*

Selects all elements of type password.

*:radio*

Selects all elements of type radio.

*:reset*

Selects all elements of type reset.

*:root*

Selects the element that is the root of the document.

*:selected*

Selects all elements that are marked as selected within the web page.

*:submit*

Selects all elements of type submit.

*:target*

Selects the target element indicated by the fragment identifier of the document’s URI.

*:text*

Selects all elements of type text.

*:visible*

Selects all elements that are visible.

# **jQuery Objects**

*event.currentTarget*

The current DOM element within the event-bubbling phase.

*event.data*

An optional object of data passed to an event method when the current executing handler is bound.

*event.delegateTarget*

The element where the currently called jQuery event handler was attached.

*event.metaKey*

An indicator of whether the META key was pressed when the event fired.

*event.namespace*

The namespace specified when the event was triggered.

*event.pageX*

The mouse position relative to the left edge of the document.

*event.pageY*

The mouse position relative to the top edge of the document.

*event.relatedTarget*

The other DOM element involved in the event, if any.

*event.result*

The last value returned by an event handler that was triggered by this event, unless the value was undefined.

*event.target*

The DOM element that initiated the event.

*event.timeStamp*

The difference in milliseconds between the time the browser created the event and January 1, 1970.

*event.type*

A description of the event.

*event.which*

The specific key or button that was pressed, for key or mouse events.

*.jquery*

A string containing the jQuery version number.

*jQuery.cssHooks*

Hooks directly into jQuery to override how particular CSS properties are retrieved or set, normalize CSS property naming, or create custom properties.

*jQuery.cssNumber*

Contains all the CSS properties that can be used without a unit. The css method uses this to see if it may append px to unitless values.

*jQuery.ready*

A Promise-like object (or “thenable” that resolves when the document is ready.

*jQuery.fx.off*

Globally disables all animations.

*.length*

The number of elements in the jQuery object.

# **jQuery Methods**

*$*

Returns a collection of matched elements either found in the DOM based on the passed argument(s) or created by passing an HTML string.

*add*

Adds elements to the set of matched elements.

*addBack*

Adds the previous set of elements on the stack to the current set, optionally filtered by a selector.

*addClass*

Adds the specified class(es) to each of the set of matched elements.

*after*

Inserts content, specified by the parameter, after each element in the set of matched elements.

*ajaxComplete*

Registers a handler to be called when Ajax requests complete.

*ajaxError*

Registers a handler to be called when Ajax requests complete with an error.

*ajaxSend*

Attaches a function to be executed before an Ajax request is sent.

*ajaxStart*

Registers a handler to be called when the first Ajax request begins.

*ajaxStop*

Registers a handler to be called when all Ajax requests have completed.

*ajaxSuccess*

Attaches a function to be executed whenever an Ajax request completes successfully.

*animate*

Performs a custom animation of a set of CSS properties.

*append*

Inserts content, specified by the parameter, to the end of each element in the set of matched elements.

*appendTo*

Inserts every element in the set of matched elements to the end of the target.

*attr*

Gets the value of an attribute for the first element in the set of matched elements or (when specified along with a value) sets one or more attributes for every matched element.

*before*

Inserts content, specified by the parameter, before each element in the set of matched elements.

*blur*

Binds an event handler to the blur JavaScript event, or triggers that event on an element.

*callbacks.add*

Adds a callback or a collection of callbacks to a callback list.

*callbacks.disable*

Disables a callback list from doing anything more.

*callbacks.disabled*

Determines whether the callback list has been disabled.

*callbacks.empty*

Removes all of the callbacks from a list.

*callbacks.fire*

Calls all of the callbacks with the given arguments.

*callbacks.fired*

Determines whether the callbacks have already been called at least once.

*callbacks.fireWith*

Calls all the callbacks in a list with the given context and arguments.

*callbacks.has*

Determines whether a list has any callbacks attached, or (if a callback is provided as an argument) whether the supplied callback is in the list.

*callbacks.lock*

Locks a callback list in its current state.

*callbacks.locked*

Determines whether the callback list has been locked.

*callbacks.remove*

Removes a callback or a collection of callbacks from a callback list.

*change*

Binds an event handler to the change JavaScript event, or (when issued without an argument) triggers that event on an element.

*children*

Gets the children of each element in the set of matched elements, optionally filtered by a selector.

*clearQueue*

Removes from the queue all items that have not yet been run.

*click*

Binds an event handler to the click JavaScript event, or (when issued without an argument) triggers that event on an element.

*clone*

Creates a deep copy of the set of matched elements.

*closest*

For each element in the set, gets the first element that matches the selector by testing the element itself and traversing up through its ancestors in the DOM tree.

*contents*

Gets the children of each element in the set of matched elements, including text and comment nodes.

*contextmenu*

Binds an event handler to the contextmenu JavaScript event, or (when issued without an argument) triggers that event on an element.

*css*

Gets the value of a style property for the first element in the set of matched elements, or (when issued with an additional argument) sets one or more CSS properties for every matched element.

*data*

Stores arbitrary data associated with the matched elements, or (when issued without an argument) returns the value at the named data store for the first element in the set of matched elements.

*dblclick*

Binds an event handler to the dblclick JavaScript event, or (when issued without an argument) triggers that event on an element.

*deferred.always*

Adds handlers to be called when the Deferred object is either resolved or rejected.

*deferred.catch*

Adds handlers to be called when the Deferred object is rejected.

*deferred.done*

Adds handlers to be called when the Deferred object is resolved.

*deferred.fail*

Adds handlers to be called when the Deferred object is rejected.

*deferred.notify*

Calls progressCallbacks on a Deferred object with the given arguments.

*deferred.notifyWith*

Calls the progressCallbacks on a Deferred object with the given context and arguments.

*deferred.progress*

Adds handlers to be called when the Deferred object generates progress notifications.

*deferred.promise*

Returns a Deferred object’s Promise object.

*deferred.reject*

Rejects a Deferred object and calls any failCallbacks with the given arguments.

*deferred.rejectWith*

Rejects a Deferred object and calls any failCallbacks with the given context and arguments.

*deferred.resolve*

Resolves a Deferred object and calls any doneCallbacks with the given arguments.

*deferred.resolveWith*

Resolves a Deferred object and calls any doneCallbacks with the given context and arguments.

*deferred.state*

Determines the current state of a Deferred object.

*deferred.then*

Adds handlers to be called when the Deferred object is resolved, rejected, or still in progress.

*delay*

Sets a timer to delay execution of subsequent items in the queue.

*dequeue*

Executes the next function on the queue for the matched elements.

*detach*

Removes the set of matched elements from the DOM.

*each*

Iterates over a jQuery object, executing a function for each matched element.

*empty*

Removes all child nodes of the set of matched elements from the DOM.

*end*

Ends the most recent filtering operation in the current chain and returns the set of matched elements to its previous state.

*eq*

Reduces the set of matched elements to the one at the specified index.

*event.isDefaultPrevented*

Determines whether preventDefault was ever called on this event object.

*event.isImmediatePropagationStopped*

Determines whether stopImmediatePropagation was ever called on this event object.

*event.isPropagationStopped*

Determines whether stopPropagation was ever called on this event object.

*event.preventDefault*

Prevents the default action of the event from being triggered.

*event.stopImmediatePropagation*

Keeps the rest of the handlers from being executed and prevents the event from bubbling up the DOM tree.

*event.stopPropagation*

Stops the event from bubbling up the DOM tree, preventing any parent handlers from being notified of the event.

*fadeIn*

Displays the matched elements by fading them to opaque.

*fadeOut*

Hides the matched elements by fading them to transparent.

*fadeTo*

Adjusts the opacity of the matched elements.

*fadeToggle*

Displays or hides the matched elements by animating their opacity.

*filter*

Reduces the set of matched elements to those that match the selector or pass the function’s test.

*find*

Gets the descendants of each element in the current set of matched elements, filtered by a selector, jQuery object, or element.

*finish*

Stops the currently running animation, removes all queued animations, and completes all animations for the matched elements.

*first*

Reduces the set of matched elements to the first in the set.

*focus*

Binds an event handler to the focus JavaScript event, or (when issued without an argument) triggers that event on an element.

*focusin*

Binds an event handler to the focusin JavaScript event.

*focusout*

Binds an event handler to the focusout JavaScript event.

*get*

Retrieves the DOM elements matched by the jQuery object.

*has*

Reduces the set of matched elements to those that have a descendant that matches the selector or DOM element.

*hasClass*

Determines whether any matched elements are assigned the given class.

*height*

Gets the current computed height for the first element in the set of matched elements, or (when issued with another argument) sets the height of every matched element.

*hide*

Hides the matched elements.

*hover*

Binds one or two handlers to the matched elements, to be executed when the mouse pointer enters and leaves the elements.

*html*

Gets the HTML contents of the first element in the set of matched elements, or (when issued with another argument) sets the HTML contents of every matched element.

*index*

Searches for a given element from among the matched elements.

*innerHeight*

Gets the current computed height for the first element in the set of matched elements (including padding but not border), or (when issued with another argument) sets the inner height of every matched element.

*innerWidth*

Gets the current computed inner width (including padding but not border) for the first element in the set of matched elements, or (when issued with another argument) sets the inner width of every matched element.

*insertAfter*

Inserts every element in the set of matched elements after the target.

*insertBefore*

Inserts every element in the set of matched elements before the target.

*is*

Checks the current matched set of elements against a selector, element, or jQuery object and returns true if at least one of these elements matches the given arguments.

*jQuery*

Returns a collection of matched elements either found in the DOM based on passed argument(s) or created by passing an HTML string.

*jQuery.ajax*

Performs an asynchronous HTTP (Ajax) request.

*jQuery.ajaxPrefilter*

Handles custom Ajax options or modifies existing options before each request is sent and before they are processed by $.ajax.

*jQuery.ajaxSetup*

Sets default values for future Ajax requests. Its use is not recommended.

*jQuery.ajaxTransport*

Creates an object that handles the actual transmission of Ajax data.

*jQuery.Callbacks*

A multipurpose callback list object that provides a powerful way to manage callback lists.

*jQuery.contains*

Determines whether a DOM element is a descendant of another DOM element.

*jQuery.data*

Stores arbitrary data associated with the specified element and/or returns the value that was set.

*jQuery.Deferred*

A constructor function that returns a chainable utility object with methods to register multiple callbacks into callback queues, invoke callback queues, and relay the success or failure state of any synchronous or asynchronous function.

*jQuery.dequeue*

Executes the next function on the queue for the matched element.

*jQuery.each*

A generic iterator function that can be used to seamlessly iterate over both objects and arrays. Arrays and array-like objects with a length property (such as a function’s arguments object) are iterated by numeric index, from 0 to length – 1. Other objects are iterated via their named properties.

*jQuery.error*

Takes a string and throws an exception containing it.

*jQuery.escapeSelector*

Escapes any character that has a special meaning in a CSS selector.

*jQuery.extend*

Merges the contents of two or more objects together into the first object.

*jQuery.fn.extend*

Merges the contents of an object onto the jQuery prototype to provide new jQuery instance methods.

*jQuery.get*

Loads data from the server using an HTTP GET request.

*jQuery.getJSON*

Loads JSON-encoded data from the server using a GET HTTP request.

*jQuery.getScript*

Loads a JavaScript file from the server using a GET HTTP request, and then executes it.

*jQuery.globalEval*

Executes some JavaScript code globally.

*jQuery.grep*

Finds the elements of an array that satisfy a filter function. The original array is not affected.

*jQuery.hasData*

Determines whether an element has jQuery data associated with it.

*jQuery.holdReady*

Holds or releases the execution of jQuery’s ready event.

*jQuery.htmlPrefilter*

Modifies and filters HTML strings passed through jQuery manipulation methods.

*jQuery.inArray*

Searches for a specified value within an array and returns its index (or -1 if not found).

*jQuery.isArray*

Determines whether the argument is an array.

*jQuery.isEmptyObject*

Determines whether an object is empty (contains no enumerable properties).

*jQuery.isFunction*

Determines whether the argument passed is a JavaScript function object.

*jQuery.isNumeric*

Determines whether the argument passed is a JavaScript number.

*jQuery.isPlainObject*

Determines whether an object is a plain object (created using {} or new Object).

*jQuery.isWindow*

Determines whether the argument is a window.

*jQuery.isXMLDoc*

Determines whether a DOM node is within an XML document (or is an XML document).

*jQuery.makeArray*

Converts an array-like object into a true JavaScript array.

*jQuery.map*

Translates all items in an array or object to a new array of items.

*jQuery.merge*

Merges the contents of two arrays together into the first array.

*jQuery.noConflict*

Relinquishes jQuery’s control of the $ variable name.

*jQuery.noop*

An empty function.

*jQuery.now*

Returns a number representing the current time.

*jQuery.param*

Creates a serialized representation of an array or object, suitable for use in a URL query string or Ajax request.

*jQuery.parseHTML*

Parses a string into an array of DOM nodes.

*jQuery.parseJSON*

Takes a well-formed JSON string and returns the resulting JavaScript object.

*jQuery.parseXML*

Parses a string into an XML document.

*jQuery.post*

Loads data from the server using an HTTP POST request.

*jQuery.proxy*

Takes a function and returns a new one that will always have a particular context.

*jQuery.queue*

Shows or (when issued with another argument) manipulates the queue of functions to be executed on the matched element.

*jQuery.readyException*

Handles errors thrown synchronously in functions wrapped in jQuery.

*jQuery.removeData*

Removes a previously stored piece of data.

*jQuery.speed*

Creates an object containing a set of properties ready to be used in the definition of custom animations.

*jQuery.trim*

Removes the whitespace from the beginning and end of a string.

*jQuery.type*

Determines the internal JavaScript class of an object.

*jQuery.uniqueSort*

Sorts an array of DOM elements in place, with the duplicates removed. This works only on arrays of DOM elements, not strings or numbers.

*jQuery.when*

Provides a way to execute callback functions based on zero or more objects, usually Deferred objects that represent asynchronous events.

*keydown*

Binds an event handler to the keydown JavaScript event, or (when issued without an argument) triggers that event on an element.

*keypress*

Binds an event handler to the keypress JavaScript event, or (when issued without an argument) triggers that event on an element.

*keyup*

Binds an event handler to the keyup JavaScript event, or (when issued without an argument) triggers that event on an element.

*last*

Reduces the set of matched elements to the final one in the set.

*load*

Loads data from the server and places the returned HTML into the matched element.

*map*

Passes each element in the current matched set through a function, producing a new jQuery object containing the return values.

*mousedown*

Binds an event handler to the mousedown JavaScript event, or (when issued without an argument) triggers that event on an element.

*mouseenter*

Binds an event handler to be fired when the mouse enters an element, or (when issued without an argument) triggers that handler on an element.

*mouseleave*

Binds an event handler to be fired when the mouse leaves an element, or (when issued without an argument) triggers that handler on an element.

*mousemove*

Binds an event handler to the mousemove JavaScript event, or (when issued without an argument) triggers that event on an element.

*mouseout*

Binds an event handler to the mouseout JavaScript event, or (when issued without an argument) triggers that event on an element.

*mouseover*

Binds an event handler to the mouseover JavaScript event, or (when issued without an argument) triggers that event on an element.

*mouseup*

Binds an event handler to the mouseup JavaScript event, or (when issued without an argument) triggers that event on an element.

*next*

Gets the immediately following sibling of each element in the set of matched elements. If a selector is provided, it retrieves the next sibling only if it matches that selector.

*nextAll*

Gets all following siblings of each element in the set of matched elements, optionally filtered by a selector.

*nextUntil*

Gets all following siblings of each element up to but not including the element matched by the selector, DOM node, or jQuery object passed.

*not*

Removes elements from the set of matched elements.

*off*

Removes an event handler.

*offset*

Gets the current coordinates of the first element, or (when issued with an argument) sets the coordinates of every element in the set of matched elements, relative to the document.

*offsetParent*

Gets the closest ancestor element that is positioned.

*on*

Attaches an event handler function for one or more events to the selected elements.

*one*

Attaches a handler to an event for the elements. The handler is executed at most once per element per event type.

*outerHeight*

Gets the current computed height for the first element in the set of matched elements, including padding, border, and optionally margin.

*outerWidth*

Gets the current computed width for the first element in the set of matched elements, including padding, border, and optionally margin.

*parent*

Gets the parent of each element in the current set of matched elements, optionally filtered by a selector.

*parents*

Gets the ancestors of each element in the current set of matched elements, optionally filtered by a selector.

*parentsUntil*

Gets the ancestors of each element in the current set of matched elements, up to but not including the element matched by the selector, DOM node, or jQuery object.

*position*

Gets the current coordinates of the first element in the set of matched elements, relative to the offset parent.

*prepend*

Adds content, specified by the parameter, to the beginning of each element in the set of matched elements.

*prependTo*

Inserts every element in the set of matched elements to the beginning of the target.

*prev*

Gets the immediately preceding sibling of each element in the set of matched elements, optionally filtered by a selector.

*prevAll*

Gets all preceding siblings of each element in the set of matched elements, optionally filtered by a selector.

*prevUntil*

Gets all preceding siblings of each element up to but not including the element matched by the selector, DOM node, or jQuery object.

*promise*

Returns a Promise object to observe when all actions of a certain type bound to the collection, queued or not, have finished.

*prop*

Gets the value of a property for the first element in the set of matched elements, or (when issued with another argument) sets one or more properties for every matched element.

*pushStack*

Adds a collection of DOM elements onto the jQuery stack.

*queue*

Shows or (when issued with another argument) manipulates the queue of functions to be executed on the matched elements.

*ready*

Specifies a function to execute when the DOM is fully loaded.

*remove*

Removes the set of matched elements from the DOM.

*removeAttr*

Removes an attribute from each element in the set of matched elements.

*removeClass*

Removes a single class, multiple classes, or all classes from each element in the set of matched elements.

*removeData*

Removes a previously stored piece of data.

*removeProp*

Removes a property for the set of matched elements.

*replaceAll*

Replaces each target element with the set of matched elements.

*replaceWith*

Replaces each element in the set of matched elements with the provided new content and returns the set of elements that was removed.

*resize*

Binds an event handler to the resize JavaScript event, or (when issued without an argument) triggers that event on an element.

*scroll*

Binds an event handler to the scroll JavaScript event, or (when issued without an argument) triggers that event on an element.

*scrollLeft*

Gets the current horizontal position of the scroll bar for the first element in the set of matched elements, or (when issued with an argument) sets the horizontal position of the scroll bar for every matched element.

*scrollTop*

Gets the current vertical position of the scroll bar for the first element in the set of matched elements, or (when issued with an argument) sets the vertical position of the scroll bar for every matched element.

*select*

Binds an event handler to the select JavaScript event, or (when issued without an argument) triggers that event on an element.

*serialize*

Encodes a set of form elements as a string for submission.

*serializeArray*

Encodes a set of form elements as an array of names and values.

*show*

Displays the matched elements.

*siblings*

Gets the siblings of each element in the set of matched elements, optionally filtered by a selector.

*slice*

Reduces the set of matched elements to a subset specified by a range of indices.

*slideDown*

Displays the matched elements with a sliding motion.

*slideToggle*

Displays or hides the matched elements with a sliding motion.

*slideUp*

Hides the matched elements with a sliding motion.

*stop*

Stops the currently running animation on the matched elements.

*submit*

Binds an event handler to the submit JavaScript event, or (when issued without an argument) triggers that event on an element.

*text*

Gets the combined text contents of each element in the set of matched elements, including their descendants, or (when issued with an argument) sets the text contents of the matched elements.

*toArray*

Retrieves all the elements contained in the jQuery set, as an array.

*toggle*

Displays or hides the matched elements.

*toggleClass*

Adds or removes one or more classes from each element in the set of matched elements, depending on either the class’s presence or the value of the state argument.

*trigger*

Executes all handlers and behaviors attached to the matched elements for the given event type.

*triggerHandler*

Executes all handlers attached to an element for an event.

*unwrap*

Removes the parents of the set of matched elements from the DOM, leaving the matched elements in their place.

*val*

Gets the current value of the first element in the set of matched elements, or (when issued with an argument) sets the value of every matched element.

*width*

Gets the current computed width for the first element in the set of matched elements, or (when issued with an argument) sets the width of every matched element.

*wrap*

Wraps an HTML structure around each element in the set of matched elements.

*wrapAll*

Wraps an HTML structure around all elements in the set of matched elements.

*wrapInner*

Wraps an HTML structure around the content of each element in the set of matched elements.

# **Index**

### **SYMBOLS**

* ! (Not) logical operator
  + in JavaScript, [Logical Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941725128), [Logical operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941192856)
  + in PHP, [Logical operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948225320), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947548920), [Logical operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947293896)
* != (inequality) operator
  + in JavaScript, [Comparison Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941783224)
  + in PHP, [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948292648), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947518104)
* !== (not identical) operator
  + in JavaScript, [Comparison Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941766088)
  + in PHP, [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948273816), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947571880)
* " (quotation marks, double)
  + escaping in JavaScript, [Escape Characters](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941676024)
  + in JavaScript strings, [String Variables](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941932024)
  + in PHP heredocs, [Multiple-Line Commands](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948055288)
  + in PHP multi-line commands, [Multiple-Line Commands](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948081128)
  + in PHP strings, [String types](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948123848)
* $ () function
  + in JavaScript, [Another Use for the $ Symbol](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941524408)
  + in jQuery, [The css Method](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch21.html#idm46341937923128)
* $ (dollar) symbol
  + in JavaScript, [Another Use for the $ Symbol](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941527816)
  + in jQuery, [jQuery Syntax](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch21.html#Dollarjq21)-[Avoiding Library Conflicts](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch21.html#idm46341937933416)
  + in PHP, [The $ symbol](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948845928), [Constants](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948000904), [Accessing Objects](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch05.html#idm46341946480872)
* $.each method, [The $.each Method](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch21.html#idm46341937152088)
* $.map method, [The $.map Method](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch21.html#idm46341937136536)
* $= (attribute selector) operator, [The $= operator](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch19.html#idm46341938882680)
* $GLOBALS variable, [Superglobal variables](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341947823608)
* $this variable (PHP), [Writing Methods](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch05.html#idm46341946408184)
* $\_POST arrays, [The $\_POST Array](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch10.html#idm46341943340520)
* % (modulus) operator
  + in JavaScript, [Arithmetic Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941881144), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941351672)
  + in PHP, [Arithmetic operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948718952), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947532040)
* %= (modulus and assignment) operator
  + in JavaScript, [Assignment Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941821400)
  + in PHP, [Assignment operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948337832)
* & (ampersand), prefacing PHP variables, [Passing Arguments by Reference](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch05.html#idm46341946677720)
* & (And) bitwise operator
  + in JavaScript, [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941338792)
  + in PHP, [Associativity](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947435768)
* && (And) logical operator
  + in JavaScript, [Logical Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941730440), [Logical operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941201224)
  + in PHP, [Logical operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948229496), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947569096), [Logical operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947299448)
* &= (bitwise AND and assignment) operator
  + in JavaScript, [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941337384)
  + in PHP, [Associativity](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947437112)
* ' (quotation marks, single)
  + escaping in JavaScript, [Escape Characters](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941674232)
  + in JavaScript strings, [String Variables](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941930040)
  + in PHP heredocs, [Multiple-Line Commands](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948051816)
  + in PHP strings, [String types](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948130312)
* () (parentheses)
  + casting operators in PHP, [Implicit and Explicit Casting](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341946872472)
  + in functions in PHP, [PHP Functions](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch05.html#idm46341946786616)
  + in regular expressions, [Grouping Through Parentheses](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch16.html#idm46341940281464)
  + operator precedence and, [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947557544)
* \* (asterisk)
  + in MySQL, [SELECT](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch08.html#idm46341944450072)
  + in regular expressions, [Matching Through Metacharacters](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch16.html#idm46341940330392)
  + showing instead of password, [Logging In](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch27.html#idm46341935220520), [login.php](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch27.html#idm46341935179464)
  + wildcard/universal selector in CSS, [The Universal Selector](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch18.html#idm46341939408456)
* \* (multiplication) operator
  + in JavaScript, [Arithmetic Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941875464)
  + in PHP, [Arithmetic operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948723176), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947536152)
* \*\* (exponentiation) operator, in PHP, [Arithmetic operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948709784)
* \*/ character, [Using Comments](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948866744)
* \*= (attribute selector) operator, [The \*= operator](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch19.html#idm46341938874952)
* \*= (multiplication and assignment) operator
  + in JavaScript, [Assignment Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941824232)
  + in PHP, [Assignment operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948342856)
* + (addition) operator
  + in JavaScript, [Arithmetic Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941886824)
  + in PHP, [Arithmetic operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948730008), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947527656)
* + (string concatenation) operator in JavaScript, [String Concatenation](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941694472)
* ++ (increment) operator
  + in JavaScript, [Incrementing, Decrementing, and Shorthand Assignment](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941705784)
  + in PHP, [Arithmetic operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948715480), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947554568)
* += (addition and assignment) operator
  + in JavaScript, [Assignment Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941836104)
  + in jQuery, [Animations](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch21.html#idm46341937546088)
  + in PHP, [Assignment operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948671976)
* , (comma)
  + in JavaScript, [for Loops](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341940940664)
  + in PHP, [for Loops](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341946941672)
* - (hyphen), in regular expressions, [Indicating a Range](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch16.html#idm46341940252856)
* - (minus sign)
  + unary operator in JavaScript, [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941343176)
  + unary operator in PHP, [Associativity](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947438840)
* - (subtraction) operator
  + in JavaScript, [Arithmetic Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941885448)
  + in PHP, [Arithmetic operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948727064), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947526280), [Associativity](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947447752)
* -- (decrement) operator
  + in JavaScript, [Incrementing, Decrementing, and Shorthand Assignment](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941703352)
  + in PHP, [Arithmetic operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948712728), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947551720)
* -= (subtraction and assignment) operator
  + in JavaScript, [Assignment Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941834824)
  + in jQuery, [Animations](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch21.html#idm46341937546728)
  + in PHP, [Assignment operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948342104)
* -> operator, [Writing Methods](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch05.html#idm46341946398648), [Connecting to a MySQL Database](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch10.html#idm46341943452104)
* . (dot)
  + in regular expressions, [Fuzzy Character Matching](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch16.html#idm46341940314552)
  + prefacing CSS class statements, [Using Classes](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch18.html#idm46341939575496)
* ... (ellipsis), indicating truncated text, [The text-overflow Property](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch19.html#idm46341938646392)
* .= (concatenation assignment) operator (PHP), [Assignment operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948338968), [String concatenation](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948142712), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947523592)
* / (division) operator
  + in JavaScript, [Arithmetic Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941882520)
  + in PHP, [Assignment operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948340280), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947582104)
* / (forward slash)
  + /\* and \*/ in multiline comments, [Using Comments](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948876152)
  + /\*\*/ in CSS comments, [Using Comments](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch18.html#idm46341939526456)
  + // in JavaScript comments, [Older and Nonstandard Browsers](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341942027656)
  + in regular expressions, [Matching Through Metacharacters](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch16.html#idm46341940334440)
* /\* character, [Using Comments](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948867752)
* /= (division and assignment) operator
  + in JavaScript, [Assignment Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941822824)
  + in PHP, [Arithmetic operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948721320), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947534776)
* 3D transformations, [3D Transformations](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch19.html#idm46341938557384)
* : (colon) character
  + in CSS, [CSS Rules](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch18.html#idm46341939550840)
  + in PHP, [TRUE or FALSE?](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947718984)
* :: (scope resolution) operator, [Static Methods](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch05.html#idm46341946319912)
* ; (semicolons)
  + in CSS, [Using Semicolons](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch18.html#idm46341939564776)
  + in JavaScript, [JavaScript and HTML Text](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341942059160), [Semicolons](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941965304)
  + in MySQL, [The semicolon](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch08.html#idm46341945117144)
  + in PHP, [Semicolons](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948860440), [for Loops](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341946962472)
* < (less than) operator
  + in JavaScript, [Comparison Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941777352), [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941230936)
  + in PHP, [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948287192), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947512632), [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947320520)
* << (bitwise left shift) operator
  + in JavaScript, [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941358728)
  + in PHP, [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947580216)
* <<< (heredoc) operator (PHP), [Multiple-Line Commands](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948070248)
* <<= (bitwise left shift and assignment) operator
  + in JavaScript, [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941357336)
  + in PHP, [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947473208)
* <= (less than or equal to) operator
  + in JavaScript, [Comparison Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941771720), [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941225256)
  + in PHP, [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948281624), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947507096), [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947317672)
* <> (not equal) operator (PHP), [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948277832), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947504312)
* <?php?> tag, [Incorporating PHP Within HTML](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948924952)
* = (assignment) operator
  + in JavaScript, [Assignment Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941825608)
  + in PHP, [Assignment operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948673192)
  + not confusing with == operator, [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948237016), [Equality](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947363144)
* == (equality) operator
  + in JavaScript, [Comparison Operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch13.html#idm46341941785720), [Equality operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch14.html#idm46341941258968)
  + in PHP, [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948294376), [Operator Precedence](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947519480), [Equality](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch04.html#idm46341947366504), [HTTP Authentication](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch12.html#idm46341942343208)
  + not confusing with = operator, [Comparison operators](https://learning.oreilly.com/library/view/learning-php-mysql/9781491979075/ch03.html#idm46341948238120)
* === (identity) operator
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# **About the Author**

**Robin Nixon** has 40 years of experience with writing software and developing websites and apps. He also has an extensive history of writing about computers and technology, with a portfolio of over 500 published magazine articles and over 30 books, many of which have been translated into other languages. In addition, he is a prolific internet video course instructor.

As well as IT, his interests include psychology and motivation (which he also writes about), artificial intelligence research, many types of music (both playing and listening to), playing and creating board games, studying philosophy and culture, and enjoying good food and drink.

Robin lives on the southeast coast of England with his five children and wife, Julie (a trained nurse and university lecturer). Between them they also foster three disabled children. Robin maintains a [Facebook page](http://facebook.com/learning2program) where he keeps up to date with the latest web technologies.

# **Colophon**

The animals on the cover of *Learning PHP, MySQL, & JavaScript* are sugar gliders (*Petaurus breviceps*). Sugar gliders are small, gray-furred creatures that grow to an adult length of 6 to 7.5 inches. Their tails, which are distinguished by a black tip, are usually as long as their bodies. Membranes extend between their wrists and ankles and provide an aerodynamic surface that helps them glide between trees.

Sugar gliders are native to Australia and Tasmania. They prefer to live in the hollow parts of eucalyptus and other types of large trees with several other adult sugar gliders and their own children.

Though sugar gliders reside in groups and defend their territory together, they don’t always live in harmony. One male will assert his dominance by marking the group’s territory with his saliva and then by marking all group members with a distinctive scent produced from his forehead and chest glands. This ensures that members of the group will know when an outsider approaches; group members will fight off any sugar glider not bearing their scent. However, a sugar glider group will welcome and mark an outsider if one of their adult males dies (the group will typically replace a deceased adult female with one of their own female offspring).

Sugar gliders make popular pets because of their inquisitive, playful natures, and because many think they are cute. But there are disadvantages to keeping sugar gliders as pets: as they are exotic animals, sugar gliders need specialized, complicated diets consisting of items such as crickets, a variety of fruits and vegetables, and mealworms; healthy housing requires a cage or space no less than the size of an aviary; their distinctive scents can be bothersome to humans; as they are nocturnal creatures, they will bark, hiss, run, and glide all night long; it’s not uncommon for them to lose control of their bowels while playing or eating; and in some states and countries, it is illegal to own sugar gliders as household pets.

Many of the animals on O’Reilly covers are endangered; all of them are important to the world. To learn more about how you can help, go to *animals.oreilly.com*.

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