

Ruby C - Common Methods

int **rb_respond_to**(VALUE self, ID method)
=> 0|nonzero

VALUE **rb_thread_create**(VALUE (*func)(),
void *data)
| Runs *func* in new thread, passing *data* as an
arg.

VALUE **rb_obj_is_instance_of**(VALUE obj,
VALUE klass) => Qtrue|Qfalse

VALUE **rb_obj_is_kind_of**(VALUE obj,
VALUE klass)
| Returns Qtrue if *klass* is superclass of *obj*
class.

Ruby C - Exceptions

void **rb_raise**(V exception, const char *fmt, ...)
| Raises *exception*. *fmt* and args used like in
printf.

void **rb_fatal**(const char *fmt, ...)
| Raises Fatal exception, terminating process.
No rescue blocks called, but ensure blocks
will be called. *fmt* and args used like in printf.

void **rb_bug**(const char *fmt, ...)
| Terminates process immediately--no
handlers of any sort called. *fmt* and args are
interpreted like printf. *Call only if a fatal bug*
has been exposed.

void **rb_sys_fail**(const char *msg)
| Raises a platform-specific exception
corresponding to last known system error,
with the given *msg*.

V **rb_rescue**(V (*body)(), V args, V (*rescue)
(), V rargs)
| Executes body with given *args*. If
StandardError exception raised, execute
rescue with given *rargs*.

Ruby C - Exceptions (cont)

V **rb_ensure**(V (*body)(), V args, V (*rescue)
(), V eargs)
| Executes body with given *args*. Whether or
not an exception is raised, execute *ensure*
with given *rargs* after *body* has completed.

V **rb_protect**(V (*body)(), V args, int *result)
| Executes *body* with given *args* and returns
nonzero in *result* if any exception raised.

void **rb_notimplement**()
| Raises NotImpError exception to indicate
enclosed function is NYI, or not available on
platform.

void **rb_exit**(int status)
| Exits Ruby with given *status*. Raises
SystemExit exception and calls registered
exit functions/finalizers.

void **rb_warn**(const char *fmt, ...)
| Unconditionally issues warning message to
standard error. *fmt* and args used like in
printf.

void **rb_warning**(const char *fmt, ...)
| Conditionally issues a warning message to
standard error if Ruby was invoked with the -
w flag. *fmt* and args used like in printf.

V = VALUE

Ruby C - Array Methods

VALUE **rb_ary_new**()
| Returns new Array with default size.

VALUE **rb_ary_new2**(long length)
| Returns new Array of given *length*.

VALUE **rb_ary_new3**(long length, ...)
| Returns new Array of given *length* and
populated with remaining arguments.

VALUE **rb_ary_new4**(long length, VALUE
*values)
| Returns new Array of given *length* and
populated with C array *values*.

Ruby C - Array Methods (cont)

void **rb_ary_store**(VALUE self, long index,
VALUE value)
| Stores *value* at *index* in array *self*.

VALUE **rb_ary_push**(VALUE self, VALUE
value)

VALUE **rb_ary_pop**(VALUE self)

VALUE **rb_ary_shift**(VALUE self)

VALUE **rb_ary_unshift**(VALUE self, VALUE
value)

VALUE **rb_ary_entry**(VALUE self, long index)
| Returns array *self's* element at *index*.

Ruby C - Iterators

void **rb_iter_break**()
| Breaks out of enclosing iterator block.

VALUE **rb_each**(VALUE obj)
| Invokes 'each' method of the given *obj*.

VALUE **rb_yield**(VALUE arg)
| Transfers execution to iterator block in the
current context, passing *arg* as an
argument. Multiple values may be passed in
an array.

int **rb_block_given_p**()
| Nonzero if yield would execute a block in
current context--that is, if a code block was
passed to current method and is available
to be called.

VALUE **rb_iterate**(VALUE (*method)(),
VALUE args, VALUE (*block)(), VALUE arg2)
| Invokes *method* with *args* and block *block*.
Yield from that method will invoke *block* with
arg given to yield and second arg *arg2*.

VALUE **rb_catch**(const char *tag, VALUE
(*proc)(), VALUE value)
| Equivalent to Ruby catch.

void **rb_throw**(const char *tag, VALUE value)
| Equivalent to Ruby throw.



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Page 1 of 2.

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Ruby C - Hash Methods

VALUE **rb_hash_new**()

VALUE **rb_hash_aref**(VALUE self, VALUE key)

Returns element corresponding to *key* in *self*.

VALUE **rb_hash_aset**(VALUE self, VALUE key, VALUE value)

Sets value for *key* to *value* in *self*. Returns *self*.

Ruby C - Accessing Variables

V **rb_iv_get**(V obj, char *name)

Returns instance var *name* (must specify "@" prefix) from given *obj*.

V **rb_ivar_get**(V obj, ID name)

Returns instance var *name* from given *obj*.

V **rb_iv_set**(V obj, char *name, V value) => value

Sets instance var *name* (must specify "@" prefix) in given *obj* to *value*.

V **rb_ivar_set**(V obj, ID name, V value)

Sets instance var *name* in *obj* to *value*.

V **rb_gv_set**(const char *name, V value) => value

Sets global var *name* ("\$" prefix optional) to *value*.

V **rb_gv_get**(const char *name)

Returns global var *name* ("\$" prefix optional).

void **rb_cvar_set**(V class, ID name, V val)

Sets class var *name* in *class* to *value*.

V **rb_cvar_get**(V class, ID name)

Returns class var *name* from given *class*.

int **rb_cvar_defined**(V class, ID name)

Qtrue if class var *name* has been defined for *class*.

Ruby C - Accessing Variables (cont)

void **rb_cv_set**(V class, const char *name, V val)

Sets class var *name* (must specify "@" prefix) in given *class* to *value*.

V **rb_cv_get**(V class, const char *name)

Returns class var *name* (must specify a "@" prefix) from given *class*.

V = VALUE

Ruby C - String Methods

VALUE **rb_str_new**(const char *src, long length) => String

Initialized with *length* chars from *src*.

VALUE **rb_str_new2**(const char *src) => String

Initialized with null-terminated C string *src*.

VALUE **rb_str_dup**(VALUE str) => String

Duplicated from *str*.

VALUE **rb_str_cat**(VALUE self, const char *src, long length) => self

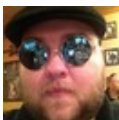
Concatenates *length* chars from *src* onto *self*.

VALUE **rb_str_concat**(VALUE self, VALUE other) => self

Concatenates *other* onto String *self*.

VALUE **rb_str_split**(VALUE self, const char *delim)

Returns array of String objects created by splitting *self* on *delim*.



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Page 2 of 2.

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