

Ruby IO#read/write methods

Class Name	Method	Length	Terminater	Blocking?	Return	EOF	Exception	Syscall
Read								
IO	getc	one char		Yes	Fixnum	nil		
IO	gets([rs])	one line	rs	Yes	String	nil		
IO	read([length])	length	EOF	Yes	String	nil	Errno::EINVAL, ArgumentError	
IO	readchar	one char		Yes	Fixnum	EOFError		
IO	readline([rs])	one line	rs	Yes	String	EOFError		
IO	readlines([rs])	lines	rs	Yes	Array	[]		
IO	read_nonblock(maxlen)	maxlen		No	String	EOFError	Errno::EINVAL	read(2)
IO	readpartial(maxlen)	maxlen		Yes*	String	EOFError		
IO	sysread(maxlen)	maxlen		Yes	String	EOFError	Errno::EINVAL	read(2)
Socket	recv(maxlen[, flags])	maxlen		Yes	String	""		recv(2)
Socket	recv_nonblock(maxlen[, flags])	maxlen		No	String	""	Errno::EINVAL	recvfrom(2)
BasicSocket	recv(maxlen[, flags])	maxlen		Yes	String	""	Errno::EINVAL	recv(2)
BasicSocket	recv_nonblock(maxlen[, flags])	maxlen		No	String	""	Errno::EINVAL	recvfrom(2)
Write								
IO	print([arg[, ...]])	length of arg		Yes	nil			
IO	printf(format[, arg[, ...]])	length of arg		Yes	nil			
IO	putc(ch)	one char		Yes	ch			
IO	puts([obj[, obj2[, ...]])	length of arg		Yes	nil			
IO	syswrite(string)	length of arg		Yes	length of output		Errno::EINVAL	write(2)
IO	write(str)	length of arg		Yes	length of output		Errno::EINVAL	
IO	write_nonblock(string)	length of arg		No?	length of output		Errno::EINVAL	write(2)
Socket	send(msg, flag[, dest_sockaddr])	length of arg		Yes	length of output		Errno::EINVAL	send(2)
BasicSocket	send(msg, flag[, dest_sockaddr])	length of arg		Yes	length of output		Errno::EINVAL	send(2)

Note

Class inheritance:

TCPServer < TCPSocket < IPSocket < BasicSocket < Socket < IO

* IO#readpartial blocks when

- (1) Buffer in IO Object is empty
- (2) Stream is empty
- (3) Stream is not EOF