TABLE 1A: GENERAL OPERATORS

Lvl	*Operator*	*Placed*	*Asc*	*Purpose*
0	,	between	left	separating values to work out
1	=	between	right	set equal to
5	+	between	left	16-bit signed addition
	-	between	left	16-bit signed subtraction
6	*	between	left	16-bit signed multiplication
	/	between	left	16-bit signed integer division
	%	between	left	16-bit signed remainder
	&	between	left	bitwise AND
	|	between	left	bitwise OR
	~	before		bitwise NOT
7	->	between	left	byte array entry
	-->	between	left	word array entry
8	-	before		16-bit signed negation
9	++	before		add 1 to then read
	++	after		read then add 1 to
	--	before		subtract 1 from then read
	--	after		read then subtract 1 from
10	.&	between	left	property array
	.#	between	left	property array size
11	(...)	after		routine call
12	.	between	left	property value
13	::	between	left	"superclass" operator

- "Lvl" refers to precedence level: thus `*`, on level 6, binds more tightly than `+`, down on level 5, so that `1+2*3` means `1+(2*3)`.
- `-` is "left associative", so `a-b-c` means `(a-b)-c`. `=` is "right associative", so `v1=v2=7` means `v1=(v2=7)`, setting both variables equal to 7.
- Although the table of operators has been divided over two pages, conditions and expressions can be freely mixed. When a condition is used as a value, it is always `true` (1) or `false` (0). When a value is used as a condition, any non-zero value is considered true, and only zero is considered false.

TABLE 1B: CONDITION OPERATORS

Lvl	*Operator*	*Placed*	*Asc*	*Purpose*
2	`&&`	between	left	one condition AND another
	`||`	between	left	one condition OR another
	`~~`	before		this condition NOT true
3	`==`	between	*none*	equal to?
	`~=`	between	*none*	not equal to?
	`>`	between	*none*	greater than?
	`>=`	between	*none*	greater than or equal to?
	`<`	between	*none*	less than?
	`<=`	between	*none*	less than or equal to?
	`has`	between	*none*	object has this attribute?
	`hasnt`	between	*none*	object hasn't this attribute?
	`in`	between	*none*	first obj a child of second?
	`notin`	between	*none*	first obj not a child of second?
	`ofclass`	between	*none*	obj inherits from class?
	`provides`	between	*none*	obj provides this property?
4	`or`	between	left	separating alternative values

- Conditions have no associativity and if you type `a==b==c` then Inform will ask you to add brackets for clarity.
- In the condition `(C1 && C2)`, Inform decides on `C1` first: if `C1` is `false` then `C2` is never considered at all. Similarly, if `C1` is `true` then `(C1 || C2)` must be `true` and `C2` is never considered.

TABLE 2A: LOWER ZSCII CHARACTER SET

	+0	+1	+2	+3	+4	+5	+6	+7
0								
8	*del*	tab		em		new		
16								
24								*esc*
32	sp	!	"	#	$	%	&	’
40	(	)	*	+	,	-	.	/
48	0	1	2	3	4	5	6	7
56	8	9	:	;	<	=	>	?
64	@	A	B	C	D	E	F	G
72	H	I	J	K	L	M	N	O
80	P	Q	R	S	T	U	V	W
88	X	Y	Z	[	\	]	^	_
96	‘	a	b	c	d	e	f	g
104	h	i	j	k	l	m	n	o
112	p	q	r	s	t	u	v	w
120	x	y	z	{	|	}	~	

- To convert a character to a ZSCII value, add the numbers in the same row and column. For instance, the Inform constant `'J'` is 72 plus 2 equals 74.
- Blank boxes indicate that no character exists with that value. The value will never be read from the keyboard and it is an error to try to `print (char)` it.
- Italicised entries can be read from the keyboard but not printed.
- “em” (an em-space) and “tab” (a tab-skip) are print-only, and only available if Inform is compiling a Version 6 game.
- ZSCII does not (normally) have “smart quotes”, that is, different characters for opening and closing quotations “ and ”. Some interpreters automatically smarten them when printed, though. And ZSCII does have ≪French≫ and ≫German≪ quotation marks (see table 2B).

TABLE 2B: HIGHER ZSCII CHARACTER SET

	+0	+1	+2	+3	+4	+5	+6	+7
128		↑	↓	←	→	*f1*	*f2*	*f3*
136	*f4*	*f5*	*f6*	*f7*	*f8*	*f9*	*f10*	*f11*
144	*f12*	*k0*	*k1*	*k2*	*k3*	*k4*	*k5*	*k6*
152	*k7*	*k8*	*k9*	ä @:a	ö @:o	ü @:u	Ä @:A	Ö @:O
160	Ü @:U	ß @ss	» @>>	« @<<	ë @:e	ï @:i	ÿ @:y	Ë @:E
168	Ï @:I	á @'a	é @'e	í @'i	ó @'o	ú @'u	ý @'y	Á @'A
176	É @'E	Í @'I	Ó @'O	Ú @'U	Ý @'Y	à @`a	è @`e	ì @`i
184	ò @`o	ù @`u	À @`A	È @`E	Ì @`I	Ò @`O	Ù @`U	â @^a
192	ê @^e	î @^i	ô @^o	û @^u	Â @^A	Ê @^E	Î @^I	Ô @^O
200	Û @^U	å @oa	Å @oA	ø @\o	Ø @\O	ã @~a	ñ @~n	õ @~o
208	Ã @~A	Ñ @~N	Õ @~O	æ @ae	Æ @AE	ç @,c	Ç @,C	th @th
216	eth @et	Th @Th	Eth @Et	£ @LL	œ @oe	Œ @OE	¡ @!!	¿ @??
224								
232								
240								
248					*men*	*dbl*	*clk*	

- The cursor keys, function keys, numeric keypad keys and mouse clicks (menu click, double click, single click) are read-only. Mouse support is available only to a Version 6 game.
- The given escape-character sequences can be typed into source code. For instance `print "@AEsop";` prints "Æsop".
- "Eth" and "Th(orn)" are Icelandic characters.
- Characters 155 to 251 are configurable using the directive `Zcharacter`, which can in principle move any Unicode character in. See §36.

TABLE 3: COMMAND LINE SWITCHES

Sw	*To*	*Meaning*
`-d*`	0 to 2	contract double spaces: never (0), after full stops (1) after full stops, exclamation and question marks (2)
`-e`	off/on	economise by using the declared abbreviations
`-g*`	0 to 2	traces calls: none (0), all outside libraries (1), all (2)
`-i`	off/on	ignore default switches set within the file
`-k`	off/on	output Infix debugging information (and switch `-D` on)
`-r`	off/on	record all the text to a transcript file
`-v*`	3 to 8	compile to this Version of story file (default 5)
`-C*`	0 to 9	source is ASCII (0), or ISO 8859-1 to -9 (default 1)
`-D`	off/on	automatically include library's debugging features
`-F*`	0 or 1	use temporary files to reduce memory consumption
`-M`	off/on	compile as a Module for future linking
`-S`	on/off	compile strict error-checking at run-time (on by default)
`-U`	off/on	link in precompiled library modules
`-X`	off/on	include the Infix debugger
`-a`	off/on	trace assembly-language (without hex dumps; see `-t`)
`-c`	off/on	more concise error messages
`-f`	off/on	frequencies mode: show how useful abbreviations are
`-h*`	on/1/2	print help information: on filenaming (1), switches (2)
`-j`	off/on	list objects as constructed
`-l`	off/on	list every statement run through Inform
`-m`	off/on	say how much memory has been allocated
`-n`	off/on	print numbers of properties, attributes and actions
`-o`	off/on	print offset addresses
`-p`	off/on	give percentage breakdown of story file
`-q`	off/on	keep quiet about obsolete usages
`-s`	off/on	give statistics
`-t`	off/on	trace assembly-language (with full hex dumps; see `-a`)
`-u`	off/on	work out most useful abbreviations (very very slowly)
`-w`	off/on	disable warning messages
`-x`	off/on	print a hash # for every 100 lines compiled
`-y`	off/on	trace linking system
`-z`	off/on	print memory map of the Z-machine
`-E*`	0, 1, 2	errors in Acorn (0), Microsoft (1) or Mac (2) style

- The lower group has no effect except on what is printed out.
- The `*` stands for a decimal digit, `0` to `9`. You can also clear any switch with a tilde, so `-~x` turns `-x` off.

TABLE 4: STATEMENTS

`box` ⟨line-1⟩ ⟨line-2⟩ . . . ⟨line-n⟩
`break`
`continue`
`do` ⟨code block⟩ `until` ⟨condition⟩
`font on` *or* `off`
`for (`⟨initial code⟩`:`⟨condition to carry on⟩`:`⟨update code⟩`)` ⟨code block⟩
`give` ⟨object⟩ ⟨attribute-1⟩ . . . ⟨attribute-n⟩
`if` ⟨condition⟩ ⟨code block⟩
`if` ⟨condition⟩ ⟨code block⟩ `else` ⟨code-block⟩
`jump` ⟨label⟩
`move` ⟨object⟩ `to` ⟨destination⟩
`new_line`
`objectloop` ⟨condition choosing objects⟩ ⟨code block⟩
`print` ⟨list of printing specifications⟩
`print_ret` ⟨list of printing specifications⟩
`remove` ⟨object⟩
`return` ⟨optional value⟩
`rfalse`
`rtrue`
`spaces` ⟨number of spaces to print⟩
`string` ⟨number⟩ ⟨text⟩
`style roman` *or* `bold` *or* `underline` *or* `reverse` *or* `fixed`
`switch (`⟨value⟩`)` ⟨block of cases . . . `default:` . . .⟩
`while` ⟨condition⟩ ⟨code-block⟩

- Statements must be given in lower case.
- A statement beginning with a double-quoted string instead of a keyword like `if` is taken as a `print_ret` statement.
- Code blocks consist of either a single statement or a group of statements enclosed in braces `{` and `}`.
- The following low-level statements should not be used for Inform games:

`inversion`
`quit`
`read` ⟨text-buffer⟩ ⟨parsing-buffer⟩
`restore` ⟨label⟩
`save` ⟨label⟩

TABLE 5: DIRECTIVES

`Abbreviate` ⟨word-1⟩ ... ⟨word-n⟩
`Array` ⟨new-name⟩ ⟨type⟩ ⟨initial values⟩
`Attribute` ⟨new-name⟩
`Class` ⟨new-name⟩ ⟨body of definition⟩
`Constant` ⟨new-name⟩ = ⟨value⟩
`Default` ⟨possibly-new-name⟩
`End`
`Endif`
`Extend` ⟨grammar extension⟩
`Global` ⟨new-name⟩ = ⟨value⟩
`Ifdef` ⟨symbol-name⟩
`Ifndef` ⟨symbol-name⟩
`Ifnot`
`Iftrue` ⟨condition⟩
`Iffalse` ⟨condition⟩
`Import` ⟨list of imported goods⟩
`Include` ⟨source code filename⟩
`Link` ⟨module filename⟩
`Lowstring` ⟨text⟩
`Message` ⟨message-type⟩ ⟨diagnostic-message⟩
`Object` ⟨header⟩ ⟨body of definition⟩
`Property` ⟨new-name⟩
`Release` ⟨number⟩
`Replace` ⟨routine-name⟩
`Serial "`⟨serial number⟩`"`
`Switches` ⟨list of switches⟩
`Statusline score` *or* `time`
`System_file`
`Verb` ⟨verb-definition⟩
`Zcharacter` etc.

• `Nearby` is an obsolete abbreviation for `Object ->`, now deprecated. A few other directives, `Dictionary`, `Fake_action`, `Ifv3`, `Ifv5`, `Stub`, `Trace` and `Version`, are either also obsolete or for compiler maintenance only.

TABLE 6A: ACTIONS PROVIDED BY THE LIBRARY: GROUP 1

Action	*Typically produced by*	*Notes*
`Pronouns`	"pronouns"	lists settings of "it" and so on
`Quit`	"quit"	
`Restart`	"restart"	
`Restore`	"restore"	
`Save`	"save"	
`Verify`	"verify"	checks story file integrity
`ScriptOn`	"script on"	
`ScriptOff`	"script off"	
`NotifyOn`	"notify on"	score change notification on
`NotifyOff`	"notify off"	and off
`Places`	"places"	list places `visited`
`Objects`	"objects"	list objects `moved`
`Score`	"score"	
`FullScore`	"fullscore"	full breakdown of score
`Version`	"version"	prints version numbers
`LMode1`	"brief"	normal room descriptions
`LMode2`	"verbose"	always full room descriptions
`LMode3`	"superbrief"	always abbreviated

• A number of other group 1 actions are present in a game compiled with the `-D` "Debugging" switch. These actions come and go with different library releases and their presence shouldn't be relied on. See the library's "Grammar" file to see the current set.

• The library also defines four fake actions which have nothing to do with the world model. `TheSame` and `PluralFound` are defined by the parser as ways for the program to communicate with it. `Miscellany` and `Prompt` are defined as slots for `LibraryMessages`.

TABLE 6B: ACTIONS PROVIDED BY THE LIBRARY: GROUP 2

Action	*Typically produced by*	*Notes*
`Look`	"look"	
`Examine`	"examine fish"	
`Search`	"look inside cup"	
`Inv`	"inventory"	
`InvTall`	"inventory tall"	*becomes* `Inv`
`InvWide`	"inventory wide"	*becomes* `Inv`
`Take`	"take fish"	*KS*
`Drop`	"drop fish"	*KS*
`Remove`	"take dice from cup"	*KS*
`PutOn`	"put cup on board"	*KS*
`Insert`	"put dice in cup"	*KS*
`LetGo`	*fake*	*caused by* `Remove`
`Receive`	*fake*	*caused by* `PutOn` *and* `Insert`
`Empty`	"empty sack"	*becomes* `EmptyT d_obj`
`EmptyT`	"empty bag on box"	*for each item inside, becomes* `Remove` *then* `Drop`/`PutOn`/`Insert`
`Transfer`	"transfer egg to box"	*becomes* `Drop`/`PutOn`/`Insert`
`Go`	"north"	*KS* *special rules apply: see §15*
`Enter`	"enter cage"	*KS* *can become* `Go` *if into a* `door`
`GetOff`	"get off table"	*KS*
`GoIn`	"enter"	*becomes* `Go in_obj`
`Exit`	"exit"	*KS* *can become* `Go out_obj`
`Unlock`	"unlock door"	*KS*
`Lock`	"lock door"	*KS*
`SwitchOn`	"switch radio on"	*KS*
`SwitchOff`	"switch radio off"	*KS*
`Open`	"open door"	*KS*
`Close`	"close door"	*KS*
`Disrobe`	"take hat off"	*KS*
`Wear`	"wear hat"	*KS*
`Eat`	"eat fish"	*KS*
`Wait`	"wait"	

• Actions marked *KS* run "silently" when the library's variable `keep_silent` is set `true`. This means that if successful they print nothing: if unsuccessful, however, they print text as normal.

• `Look` and `Examine` actions send `after` messages after printing descriptions. `Search` sends `after` when the search is known to be possible but before the result is printed.

TABLE 6C: ACTIONS PROVIDED BY THE LIBRARY: GROUP 3

Action	*Typically produced by*	*Notes*
`LookUnder`	"look under doormat"	
`Listen`	"listen [to tape]"	`noun` *can be* `nothing`
`Taste`	"taste marinade"	
`Touch`	"touch paint"	
`Pull`	"pull trolley"	
`Push`	"push trolley"	
`Wave`	"wave wand"	
`Turn`	"turn dial"	
`PushDir`	"push trolley north"	*special rules apply: see §15*
`ThrowAt`	"throw dart at board"	
`ThrownAt`	*fake*	*caused by* `ThrowAt`
`JumpOver`	"jump over fence"	
`Tie`	"tie rope [to hook]"	`second` *can be* `nothing`
`Drink`	"drink absinthe"	
`Fill`	"fill bottle"	
`Attack`	"fight soldiers"	
`Swing`	"swing on rope"	
`Blow`	"blow pipe"	
`Rub`	"clean table"	
`Set`	"set trap"	
`SetTo`	"set timer to 10"	`second` *not an object*
`Buy`	"buy ice cream"	
`Climb`	"climb ladder"	
`Squeeze`	"squash tomato"	
`Burn`	"burn papers [with match]"	`second` *can be* `nothing`
`Dig`	"dig lawn [with spade]"	`second` *can be* `nothing`
`Cut`	"cut paper"	
`Consult`	"look up fish in book"	sets `noun` and the topic
`Tell`	"tell jemima about austin"	sets `noun` and the topic
`Answer`	"say confirmed to avon"	sets `noun` and the topic
`Ask`	"ask jemima about isaac"	sets `noun` and the topic
`Give`	"give coin to troll"	
`Show`	"show pass to guard"	
`AskFor`	"ask jemima for daisies"	
`WakeOther`	"wake sleeper"	
`Kiss`	"kiss jemima"	

TABLE 6C (CONTINUED)

Action	*Typically produced by*	*Notes*
`Sleep`	"sleep"	
`Sing`	"sing"	
`WaveHands`	"wave"	*see also* `Wave`
`Swim`	"swim", "dive"	
`Sorry`	"sorry"	
`Strong`	*very rude words*	
`Mild`	*fairly rude words*	
`Jump`	"jump"	*see also* `JumpOver`
`Think`	"think"	
`Smell`	"smell coffee"	`noun` *can be* `nothing`
`Pray`	"pray"	
`VagueGo`	"go"	
`Yes`	"yes"	
`No`	"no"	
`Wake`	"wake up"	*see also* `WakeOther`

TABLE 6D: ACTIONS SENT TO LIFE RULES

Action	*Typically produced by*
`Answer`	"say yes to cashier"
`Ask`	"ask woman about plutonium"
`Attack`	"fight soldiers"
`Give`	"give coin to charon"
`Kiss`	"kiss jemima"
`Order`	"thorin, go west"
`Show`	"show pass to benton"
`Tell`	"tell paris about helen"
`ThrowAt`	"throw axe at dwarf"
`WakeOther`	"wake beauty up"