## Ink 1.2.0/Inky 0.15 Cheat Sheet by menaechmi (menaechmi) via cheatography.com/211056/cs/45645/

Comments		
//Comment	Single Line C	omment
/*		
Comment */	Multi-line com	nment
TODO:	Printed during	g compilation:
Reminder!	Reminder!	
# Tag	Creates a tag	, accessible
	from the runti	me
Choices		
Prompt		
*/+ (label) {cc Response	ondition} [option]	]
+ (label) Option	Options can b	e given a label
. ,	Options can b Option only sh	
. ,		nows up once - can be
Option *	Option only sh "sticky" option chosen multip	nows up once - can be
Option *	Option only sh "sticky" option chosen multip	ows up once - can be le times
Option *	Option only sh "sticky" option chosen multip Prompt	nows up once - can be le times Prompt
Option *	Option only sh "sticky" option chosen multip Prompt * Option 1	ows up once - can be le times Prompt 1: Option 1 2: Option 2
Option * +	Option only sh "sticky" option chosen multip Prompt * Option 1 * Option 2	ows up once - can be le times Prompt 1: Option 1 2: Option 2 e written with
Option * + * * * */+ Option	Option only sh "sticky" option chosen multip Prompt * Option 1 * Option 2 Responses an	ows up once - can be le times Prompt 1: Option 1 2: Option 2 e written with
Option * + * * * */+ Option	Option only sh "sticky" option chosen multip Prompt * Option 1 * Option 2 Responses an text on a new	nows up once - can be le times Prompt 1: Option 1 2: Option 2 e written with line

Choices (cont)		
*/+ [Option]	Options in bracke displayed in choid output	
	1: Option >1	
*/+ A [B]	Text before brack displayed in both and output	
	1: A B >1 A	
*/+ A [B] C	Text after bracke shown in output	ts is only
	1: A B >1 A C	
	*/+ Hello[.] , how are you?	1: Hello. 1> Hello, how are you?
*/+ {condi- tion} [option]	If condition = true option	ə, display
	* {a} [a] * b	If a = true: 1. a 2. b If a = false: 1. b

Choices (cont	)	
*/+ -> knot	Fallback option displayed to platically used	
Fallback without diverting to a knot	*A Nothing * -> You Died -> END	1. A >1 A Nothing You Died.
- (label) Content	"Gather" all choices back to this point. See Content Flow for more information.	

Glue	
<>	"Glue", skips automatic line- break
This is a line break	This is a line break
This is <> glue	This is glue
This is midsentence<> -> glue === glue divert with glue	
	This is midsentence divert with glue
This is midsentence-> noglue === divert divert without glue	
	This is midsentence divert without glue

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>2 B

2

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1 + B

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Functions			
Functions ad	d a call stac	k and optional	
return values	to knots		
=== function	name(parar	neters) ===	
function body			
~ return retur	n_value		
name()	Functions with paren	are always called theses	
a{letter(b)}c	Functions glue by de	are called with <> fault	
(ref	Pass para	meter by	
parameter <b>)</b>	reference, by value	reference, default behavior is	
Functions can or diverts	nnot contair	stitches, choices,	
Safe to use ro details.	ecursively. S	See Variables for	
"Standard Lik	oarv" functio	ns	
CHOICE_CO		Number of	
CHOICE_CO		options currently being presented	
TURNS()		Total number of player choices of the game	
TURNS_SIN	CE(->	Number of player	
knot)		choices since a	
		knot was seen, - 1 has never been seen, 0 is current.	
SEED_RAND	OOM(seed)	Fixes the random	
		generator to	
		produce the	
		same outcomes	
		Number of times	
READ_COUN	NT(-> knot)	Number of times	
READ_COUN	NT(-> knot)	knot has been	
READ_COUN	NT(-> knot)		
READ_COUN	NT(-> knot)	knot has been	

echini (menaechini	1) <b>via</b> cheatograph
List Functions	
LIST_VALUE(list.item)	Prints item's position in list 1- indexed
LIST_ALL(list)	List all values in list
Multivalue list functions element. Use LIST_AL	
LIST_COUNT(mvlist)	Count active item
LIST_MIN(mvlist)	Get active item with the lowest index
LIST_MAX(mvlist)	Get active item with the highest index
LIST_RANDOM(mvlist	) Get a random active item in list
LIST_RANGE(mvlist, min, max)	Gets the inclusive values between min and max. Min/max can be integers or list items.
LIST_INVERT(mvlist)	Flips active and inactive. Empty list returns null
Math Functions	
INT(x), FLOAT(x)	Cast x to type
FLOOR(x)	Round x down to nearest integer. (-1.5 rounds to -2)
POW(x,y)	Raises x to the y

Knot/Stitch

Knot/Stitch		
=== label(pa Content	rameter) ===	
=== lab- el *===	Creates "knot" named label	
=== label	Shorthand to create knot	
-> label	Divert, divert arrow. Redirects flow to label	
=== knot <b>= stitch-</b> _ <b>label</b> Stitch Content	"Stitch", a subsection of a knot.	
=== label <b>(p1</b> , <b>p2)</b>	Optional parameter for knots or stitches.	
-> knot(a,b)	Divert to knot with parameters	
=== knot(- > a) -> a	Use a divert as a parameter	
Diverts are explained in more detail in Control Flow		
Math/Logic		
~ Indicates the line is not text		

~	Indicates the line is not text	
+ - / *	Basic math operators, addition, subtration, multiplication, division	
and,	Logical operators.	
or,	Symbol versions will not work in all	
not	contexts.	
<b>&amp;&amp;</b> ,		
, !		

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RANDOM(min,max)

power

Generates a number between min and max, inclusive

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Math/Logic (cont)		
~	Increment variable +1	
variable++	Decrement variable -1	
~		
variable		
%	Mod operator, returns the	
	remainder after division.	
~ x = 2/3	Math types are implicit, so x is 0	

## Special Diverts

-> END	End the story. CSS class $\ensuremath{.}\ensuremath{end}$
- > DONE	Flow ends intentionally
Diverts are	e case sensitive: -> DONE and ->
Done <b>and</b>	I -> DoNe are all separate

Conditionals	
{ conditional }	Conditionals take place inside of curly brackets, and can control story content
>, <, >=, <=, ==, !=	Standard operators
"a"=="a", "a"!="b", "ab" <b>?</b> "a"	String queries. Equal, inequal contains
{condition: true - else: false }	If-else statement. The else is optional
{- condition1: statement1 - condition2: statement2 - else: statement}	lf/else if/ else statement. Evaluates in order



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Conditionals (cont)		
{ x:	Case statement	
- 0: zero		
- 1: one		
- 2: two		
- else:		
lots }		
All labels a	re read counts of the content.	
{label:}	Has knot been visited?	

lanci	
{!label:}	Is knot unvisited?
{label >	Has the knot been seen more
x:}	than x times?

#### Lists

LIST list = a, b	Create a list and a variable
LIST list = a,	Parenthesis selects state
(default)	at assignment
var = a	Assign value a from list
var = list.a	Specify which list with selectors
{list.a}	List values print as names.
{list(1)}	Both a in this case.
LIST numbers	Set custom list numbering.
= one =1, two,	Skipped numbers
five = 5	increment by one (1).
var++	Point to next item in list
var	Point to previous item in
	list

## Mutlivalue Lists

	re lists with references to the list are "act-	
mvlist = (a), (b) mvlist = (a, b) mvlist = (a = 1), (b) =2	Set active items	
mvlist += a mvlist += (a, b)	Add items to the list to activate them	
mvlist -= a mvlist -= (a,b)	Remove items from the list to deactivate them	
Referencing a multivalue list is assumed to refer to active states only.		
{ mvlist: has active   no active}	Conditionals are true if any state is active	
{ mvlist == (1,2): exactly 1,2   not exactly 1,2}	Equality checks if an exact set is matched. 1,2,3 and 1 will both fail here.	
{ mvlist has a: { mvlist ? (a,b)	Has all (?) (a AND b)	
{mvlist hasnt (a,b): {mvlist !? a	Hasnt all (!?) (!a AND !b)	
list_a ^ list_b	Intersection (^) Has some	
statelist () ?	Returns false	

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### Content Alternatives

Most alternatives have two syntaxes, symbolic and multi-line block (indicated as { alternate:) which requires each option to start with "-"

{1,2,3,-       Stopping Sequence         { 3,3,3       - repeats last option when out         stopping:       1,2,3,-       Cycle - repeats         { cycle:       1,2,3,       options when out         { stopping:       1,2,3,       Once-only         { cycle:       1,2,3,       Once-only         { l1,2,3}       1,2,3       Once-only         { l1,2,3}       heads,       Fom options each         time       time       Intrough it, and then         c,c       Intrough it, and then       repeats the last         - c}       entry       Intrough it one         - c,       Intrough it, and then       plays through it one         - a       b,c,a       Shuffles the list and         - b       intrough it, and       Intrough it, and         - a       h,3       Empty options don't         - b       internatives ca			
{ cycle:         1,2,3         options when out           {!1}         1         Once-only           {!1,2,3}         1,2,3         Once-only           { l,2,3         Once-only         sequence           { once:         1,2,3         Once-only           { once:         5         Shuffle - chooses           { rom options each         time           { shuffle         b,a,c,-         Shuffles all but the           { shuffle         b,a,c,-         Shuffles all but the           - a         - c, c         Intrough it, and then           - b         - c, c         Shuffles the last           - a         b,c,a         Shuffles the list and           - b         - c, c         Shuffles the list and           - a         b,c,a         Shuffles the list and           - b         - c, c         Shuffles the list and           - a         - b         - c, c           - a         - b         - c, c           - a, a, a, 3         ,         Shuffles the list and           - b         - c, c         Shuffles the list and           - b         - c, c         Shuffles the list and           - c, c	{		- repeats last option
{!1,2,3}         1,2,3         Once-only sequence           { once:         1,2,3         Once-only sequence           { once:         heads, heads, heads, tails}         Shuffle - chooses from options each time           { shuffle:         tails         Shuffles all but the last entry, plays through it, and then repeats the last entry           - a         b,c,a         Shuffles the list and plays through it one time           - a         b,c,a         Shuffles the list and plays through it one time           - a         b,c,a         Shuffles the list and plays through it one time           - a         b,c,a         Shuffles the list and plays through it one time           - b          Shuffles the list and plays through it one time           - a          Shuffles the list and plays through it one time           - b          Shuffles the list and plays through it one time           - b          Shuffles the list and plays through it one time           - b             - b             - c}             {(1,3}             {(2,c,c)         1, 2, a			5
{ once:sequence{~heads, heads, heads, imeShuffle - chooses from options each time{ shuffle:tails{ shuffle:b,a,c,-{ shuffle:b,a,c,-{ shuffle:b,a,c,-{ shuffle:b,a,c,-{ shuffle:c,c a b c}b,c,aShuffle:b,c,aonce: a b c}-{ shuffle:b,c,aplays through it one time- b c}-{ shuffle:a,3[ shuffle:a,2,c,a,c{ last entry:Alternatives can be nested	{!1}	1	Once-only
tails}heads,from options each time{shuffle:b,a,c,-Shuffles all but the last entry, plays through it, and then repeats the last entry- ab,a,c,-Shuffles all but the last entry, plays through it, and then repeats the last entry{ shuffleb,a,c,-Shuffles all but the last entry, plays through it, and then repeats the last entry{ shuffleb,c,aShuffles the list and plays through it one time- ab,c,aShuffles the list and plays through it one time- bShufflesb,c,a- bShufflesShuffles- bShufflesShuffl		1,2,3	, ,
stopping:c,clast entry, plays through it, and then repeats the last entry- a- b- entry{ shuffleb,c,aShuffles the list and 	tails}	heads,	from options each
once:         plays through it one time           - a         time           - b         time           - c}         time           {,,3}         ,.3           {&a, 2, c, a, c {12}, c, 3}         Alternatives can be nested           {1, 2, ->a}         1, 2, a         Alternatives can use	stopping: - a - b	- / - / - /	last entry, plays through it, and then repeats the last
display{&a,a,2,c,a,c{!2},c}Alternatives can be nested{1,2,->a}1, 2, aAlternatives can use	once: - a - b	b,c,a	plays through it one
{!2},c} nested {1,2, ->a} 1, 2, a Alternatives can use	{,,3}	,,3	
	•	a,2,c,a,c	
	{1,2, ->a}	1, 2, a	

### Content Alternatives (cont)

+ a	1.	Choices can use alternatives
{!b,c}	а	
	b	
	1.	
	а	
	С	
+\	1.	Escape whitespace with "\" to
{&a,b}	а	start choices with alternative
	1.	
	b	

Variables	
VAR name = value	Global variable. Accessible from the runtime and the story.
CONST NAME = value	Defines a variable that cannot be changed
~	Used for lines that are game logic, not text
<b>∼ temp</b> name = value	Temporary variable. Stitch- level context
~ name = value	Change the value of a variable
{name}	Curly brackets print variables in text
Temporary y	ariables are safe to use in

Temporary variables are safe to use in recursion. Globals are not. See Functions for details.

Variable types	
1,2,3	Integer
0.5,0.9.0,6	Floating point
true, false	Boolean (lowercase only)
-> knot, -> knot.s- titch	Story Address/Divert
"a", "a b", "{∼a b - c}"	Content

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#### Variable types (cont)

Type Content can contain ink, but are evaluted to a string based on seed. VAR va r = " {a | b}" is therefore not allowed

Variables are also used to reference lists. See Lists and Multivalue Lists for details.

### Control Flow

Start ===knot1	Ink tries to start a story from anything not in a knot		
-> start ===start	To start from within a knot, divert to the knot		
=== knot a =stitch	Knot control defaults to any content not under a stitch		
=== knot =stitch a = stitch2	If there is no header content, the first stitch will play instead.		
If a section ends without diverting, flow will end.			
-> knot.s- titch	Divert to a stitch using full address		
-> stitch_b	Divert to stitch from within the same knot		
Diverts can go to any labeled element			
*a ++b **b *a ++c	Choices (and content) can be nested, so that different choices have different outcomes.		

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Control Flow (cont)		Threads		
Gathers can be nested. They will (label) collect choices of the same or deeper lever.		Threads follow knots, collecting choices to present to the player at a single point. They can be used to split content up or fork a story.		
control flow	s and Threads for even more options.	<-	Start a thread	
		knot_name		
Tunnels		<- knot1	-> DONE Tells the compiler	
Tunnels return the story to where they were called, letting you reuse the same segment		<- knot2 -> DONE	the story continues at the threads, not here.	
in different parts of the story or run sub-st- ories.		<- Choice_a	1. a 2. b	
content -> tunnel -> more content	Calling a tunnel. After the tunnel, continues at more content	<- Choice_b <- Choice_c	3. c Story continues at the choice made	
-> tunnel1 - > tunnel2 ->	5	-> DONE	1. a	
-> tunnel -> knot	Or divert elsewhere	Choice_a <-	2. b 3. c Story continues at more content	
=== tunnel content ->->	Tunnels end with a double divert	Choice_b <- Choice_c more		
===tunnel_	,	content		
-> tunnel_b -> ->->	divert		If using to present a choice in many places, it might be helpful to include a return location divert as a paramater.	
->-> knot	->-> knot Go to knot instead of		= location	
returning the tunnel		<- common_	<- common_choice(-> location)	
Safe to use recursively		_	* more_choices	
		= common_	choice(-> return)	



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