

by menaechmi (menaechmi) via cheatography.com/211056/cs/45645/

Comments	
//Comment	Single Line Comment
/* Comment */	Multi-line comment
TODO: Reminder!	Printed during compilation: Reminder!
# Tag	Creates a tag, accessible from the runtime

	from the runti	me
Choices		
Prompt */+ (label) {cc} Response	ondition} [option]
+ (label) Option	Options can b	e given a label
*	Option only sh	nows up once
+	"sticky" option chosen multip	
	Prompt * Option 1 * Option 2	·
*/+ Option Response	Responses ar text on a new	
	Prompt * A 1 + B 2	Prompt 1: A 2: B >2 B 2

Choices (co	ont)	
*/+ [Option]	Options in brac displayed in cho output	
	1: Option >1	
*/+ A [B]	Text before bra displayed in bot and output	
	1: A B >1 A	
*/+ A [B] C	Text after brack	•
	1: A B >1 A C	
	*/+ Hello[.] , how are you?	1: Hello. 1> Hello, how are you?
*/+ {condi- tion} [option]	If condition = tru option	ue, display
	* {a} [a] * b	If a = true: 1. a 2. b If a = false: 1. b

Choices (d	cont)
*/+ -> knot	Fallback option. Never displayed to player, automatically used
Fallback without diverting to a knot	*A 1. A Nothing >1 A *A Nothing >1 A *A Nothing >1 A *D *-> Nothing You Died. *BND
- (label) Content	"Gather" all choices back to this point. See Content Flow for more information.
Glue	
<>	"Glue", skips automatic line- break
This is a	This is a
break	ille break
0	This is glue



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This is midsentence divert without glue

This is midsentence divert with

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glue
This is midsentence-> noglue

divert with glue

=== divert

divert without glue

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unctions			List Functions		Knot/S	Stitch	
Functions add a		and optional	LIST_VALUE(list.item)	Prints item's position in list 1-	=== la Conte	٠,	arameter) ===
=== function na function body	ame(param	eters) ===	LIST_ALL(list)	indexed List all values in	=== la el *==	-	Creates "knot" named label
~ return return_	_value			list	=== la	bel	Shorthand to create knot
	Functions a	are always called heses	Multivalue list functions element. Use LIST_AL		-> labe	el	Divert, divert arrow. Redirect flow to label
a{letter(b)}c F	Functions a	are called with <>	LIST_COUNT(mvlist)	Count active item	=== kr	not	"Stitch", a subsection of a
glue by default ref Pass parameter by reference, default behavior is		LIST_MIN(mvlist)	Get active item with the lowest index	= stitcl _label Stitch		knot.	
	by value not contain	stitches, choices,	LIST_MAX(mvlist)	Get active item with the highest index	Conte === label(p		Optional parameter for knots or stitches.
Safe to use recursively. See Variables for details.		LIST_RANDOM(mvlist	Get a random active item in list	p2) ->		Divert to knot with	
"Standard Libary" functions CHOICE_COUNT() Number of options currently		LIST_RANGE(mvlist, Gets the inclus		knot(a		parameters	
		min, max)	values between min and max. Min/max can be	=== kr > a) -> a	not(-	Use a divert as a parameter	
TURNS()		being presented Total number of		integers or list items.	Divert		explained in more detail in
Ü		player choices of the game	LIST_INVERT(mvlist)	Flips active and inactive. Empty	Math/l	_ogic	
TURNS_SINCE	<u> </u>	Number of player		list returns null	~	India	cates the line is not text
knot)		choices since a knot was seen, -	Math Functions		+-/		ic math operators, addition, tration, multiplication, division
		1 has never been seen, 0 is current.	INT(x), FLOAT(x) FLOOR(x)	Cast x to type Round x down to nearest integer. (-1.5	and, or, not	Sym	ical operators. abol versions will not work in all texts.
SEED_RANDO	M(seed)	Fixes the random number	POW(x,y)	rounds to -2) Raises x to the y	&&, ,!	COIT	GAIG.
ger	generator to		power	117 -			



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seen. Equivalent to {knot}

produce the

same outcomes

Number of times

knot has been

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RANDOM(min,max)

Generates a number

between min and

max, inclusive

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READ_COUNT(-> knot)



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Math/Logic (cont)

~	Increment variable +1
variable++	Decrement variable -1
~	
variable	
%	Mod operator, returns the remainder after division.
$\sim x = 2/3$	Math types are implicit, so x is

Special Diverts

0

-> END	End the story. CSS class	.end

Flow ends intentionally

> DONE

Diverts are case sensitive: -> DONE and -> Done and -> 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"?"a"	String queries. Equal, inequal, contains
{condition: true - else: false	If-else statement. The else is optional

condition1:

condition2: statement2

statement1

- else: statement} Conditionals (cont)

{ x:	Case statement
- 0: zero	
- 1: one	
- 2: two	
- else:	
lots }	
All labels a	are read counts of the content.

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

Mutlivalue Lists

statelist () ?

Multivalue Lists are lists with references to multiple list items. Items in the list are "active"

mvlist = (a), (b)	Set active items
mvlist = (a, b)	
mvlist = (a =	
1), (b) =2	
mylist += a	Add items to the lis

mvlist += (a, b) activate them

mvlist -= a	Remove items from the
mylist == (a h)	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 (^)

Returns false

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If/else if/ else statement. Evaluates in order

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Content Alternatives

Most alternatives have two syntaxes, symbolic and multi-line block (indicated as

	{ alternate: } start with "-		iires each option to
	{1,2,3} { stopping:	1,2,3,- 3,3,3	Stopping Sequence - repeats last option when out
	{&1,2,3} { cycle:	1,2,3,- 1,2,3	Cycle - repeats options when out
	{!1}	1	Once-only
	{!1,2,3} { once:	1,2,3	Once-only sequence
	{~heads, tails} { shuffle:	heads, heads, tails	Shuffle - chooses from options each time
	{ shuffle stopping: - a - b - c}	b,a,c,- c,c	Shuffles all but the last entry, plays through it, and then repeats the last entry
	{ shuffle once: - a - b - c}	b,c,a	Shuffles the list and plays through it one time
	{,,3}	,,3	Empty options don't display
	{&a, {!2},c}	a,2,c,a,c	Alternatives can be nested
	{1,2, ->a}	1, 2, a	Alternatives can use

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.	
	h	

	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
	~ temp name = value	Temporary variable. Stitch- level context
	~ name = value	Change the value of a variable
	{name}	Curly brackets print variables in text

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

Variable types (cont)

Type Content can contain ink, but are evaluted to a string based on seed. VAR va $r = " \{a \mid b\}"$ 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

-> knot.s-	Divert to a stitch using full
titch	address
->	Divert to stitch from within

same knot Diverts can go to any labeled element

stitch_b

*a	Choices (and content) can be
++b	nested, so that different
**b	choices have different
*a	outcomes.
++c	

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diverts

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Control Flow (cont)

 Gathers can be nested. They will
 (label) collect choices of the same or deeper lever.

See Tunnels and Threads for even more control flow options.

Tunnels

Tunnels return the story to where they were called, letting you reuse the same segment in different parts of the story or run sub-st-ories.

content	Calling a tunnel. After the
-> tunnel ->	tunnel, continues at more
more	content
content	

->	tunnel1 -	You	can	chain	calling

> tunnel2 -> tunnels

-> tunnel -> Or divert elsewhere knot

=== tunnel

Tunnels end with a double

divert

->->

===tunnel_a Tunnels can also divert, as -> tunnel_b long as it ends with a double

>

->->

->-> knot Go to knot instead of returning the tunnel

Safe to use recursively

Threads

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.

<- Start a thread

knot_name

<- knot1 -> DONE Tells the compiler
<- knot2 the story continues at the
-> DONE threads, not here.

<- 1. a
Choice_a 2. b
<- 3. c

Choice_b Story continues at the choice

<- made

Choice_c -> DONE

<- 1. a
Choice_a 2. b
<- 3. c

Choice_b Story continues at more

<- content

Choice_c more content

If using to present a choice in many places, it might be helpful to include a return location divert as a paramater.

= location

<- common_choice(-> location)

* more_choices...

= common_choice(-> return)

C

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