## Advanced Twine

# HTML Markup

## **Custom Styles**

Туре	Syntax	Example	Rendered As	
Highlight, Inline	@@Text@@	@@Text@@	<pre><span class="marked">Text</span></pre>	
Custom Style, Inline	@@style-list <sup>[1]</sup> ;Text@@	@@#foo;.bar;Text@@	<pre><span class="bar" id="foo">Text</span></pre>	
		@@color:red;Text@@	<pre><span style="color:red">Text</span></pre>	
Highlight, Block	@@ Text @@	@@ Text @@	<div class="marked">Text</div>	
Custom Style, Block	@@style-list <sup>[1]</sup> ; Text @@	@@#foo;.bar; Text @@	<div class="bar" id="foo">Text</div>	
		@@color:red; Text @@	<div style="color:red">Text</div>	

1. The style-list should be a semi-colon (;) separated list consisting of a single hash-prefixed ID (which should be unique; e.g. #foo) and/or any number of dot-prefixed class names (e.g. .bar) and/or style properties (e.g. color:red).

## **HTML Attributes**

SugarCube provides a few special HTML attributes, which you may add to raw HTML tags to enable special behaviors. There are attributes for passage links, image passages, and setters.

Туре	Attribute	Example
Passage, Link	data-passage <sup>[1]</sup>	<pre><a data-passage="Grocery">Go buy milk</a> <area coords="25,25,75,75" data-passage="Lake House" shape="rect"/></pre>
Passage, Image	data-passage <sup>[1]</sup>	<pre><img data-passage="PlayerBioPic"/></pre>
Setter	data-setter	<pre><a data-passage="Grocery" data-setter="\$bought to 'milk'">Go buy milk</a></pre>

1. The data-passage attribute normally acts as a link, however, for <img> tags it acts as the source.

Link w/ Setter	[[Link][Setter]]			Grocery
		[[Grocery][\$bought to "milk"]] [[\$go][\$bought to "milk"]]	Link:	Grocery
			Setter:	\$bought to "milk"
Link w/ Text & Setter	[[Text Link][Setter]]	<pre>[[Go buy milk Grocery][\$bought to "milk"]] [[\$show \$go][\$bought to "milk"]]</pre>	Text:	Go buy milk
			Link:	Grocery
		21		\$bought to "milk"

# Mastering Whitespace

## **Line Continuations**

A backslash (\infty) which begins or ends a line is the line continuation markup. The line continuation markup causes the backslash and the associated line break to be removed upon processing, thus joining the nearby lines together. This is mostly useful for controlling whitespace when you want to wrap lines for readability, but not generate extra whitespace upon display, and the <<silently>> macro isn't an option because you need to generate output.

For example, both of the following:

```
The rain in Spain falls \
mainly on the plain.

The rain in Spain falls \
mainly on the plain.
```

Yield the single line in the final output:

The rain in Spain falls mainly on the plain.

SEE: The <<nobr>>> macro and nobr tag perform a similar function.

### <<nobr>>

Executes its contents and outputs the result, after compressing all line breaks and replacing them with spaces.

Arguments: none

#### Usage:

```
→ Given: $feeling eq "blue", outputs: I'd like a blueberry pie.

I'd like a <<nobr>>
<<iif $feeling eq "blue">>
blueberry
<<else>>
<herry
<</if>>
</nobr>> pie.
```

## <</nobr>> or <<endnobr>>

Closes the <<nobr>>> macro.

### <<silently>>

Causes any output generated within its body to be discarded, except for errors (which will be displayed). Generally, only really useful for formatting blocks of macros for ease of use/readability, while ensuring that no output is generated, from spacing or whatnot.

Arguments: none

#### Usage:

## <</silently>> or <<endsilently>>

Closes the <<silently>> macro.

Timing!

### <<repeat delay [transition|t8n]>>

Repeatedly executes its contents after the given delay, inserting any output into the passage in its place.

NOTE: Passage navigation terminates all pending timed executions.

#### Arguments:

- delay: The amount of time to delay, as a valid CSS time value (e.g. 5s and 500ms). The minimum delay is 40ms.
- . transition: (optional) Keyword, used to signify that a CSS transition should be applied to the incoming insertions.
- t8n: (optional) Keyword, alias for transition.

#### Usage:

#### <<stop>>

Terminates the execution of the innermost <<repeat>> macro

### <</repeat>> or <<endrepeat>>

Closes the <<repeat>> macro.

## <<timed delay [transition|t8n]>>

Executes its contents after the given delay, inserting any output into the passage in its place.

NOTE: Passage navigation terminates all pending timed executions.

#### Arguments:

- delay: The amount of time to delay, as a valid CSS time value (e.g. 5s and 500ms). The minimum delay is 40ms.
- transition: (optional) Keyword, used to signify that a CSS transition should be applied to the incoming insertions.
- · t8n: (optional) Keyword, alias for transition.

#### Usage:

```
→ Insert some text after 5 seconds with a transition
I want to go to...<<timed 5s t8n>> WONDERLAND!<<<timed>>

A Replace some text after 10 seconds
I like green <span id="eggs">eggs</span> and ham!\
<<timed 10s>><<replace "#eggs">>pancakes<</replace>><</timed>>

A execute <<goto>> after 10 seconds
<<timed 10s>><<goto "To the Moon, Alice">>></timed>>
```

```
<<goto passage_name>>
<<goto wiki_link>>
```

Immediately forwards the user to the passage with the given name. May be called either with the passage name or with a wiki link.

**NOTE:** <<goto>> does not terminate the rendering passage in which it was encountered, so care must be taken to ensure that no unwanted state modifications occur after the call to <<goto>>.

#### Arguments (passage name version):

· passage name: The name of the passage to go to.

#### Arguments (wiki link version):

. wiki\_link: The wiki link to use (regular syntax only, no setters).

#### Usage:

```
→ Passage name version
</goto "Somewhere over yonder">>
</goto $selectedPassage>>

→ Wiki link version
</goto [[Somewhere over yonder]]>>
</goto [[$selectedPassage]]>>
```

### <<replace selector>>

Executes its contents and replaces the contents of the selected element(s) with the output.

SEE: DOM macro warning.

#### Arguments:

· selector: The CSS/jQuery-style selector used to target element(s).

#### Usage:

### <</replace>> or <<endreplace>>

Closes the <<replace>> macro.

### <<next [delay]>>

Chains additional timed executions, in order, to its parent <<ti>execute their contents after their given delay and append any output to the passage after the first.

#### Arguments:

• **delay:** (optional) The amount of time to delay, as a valid CSS time value (e.g. 5s and 500ms). The minimum delay is 40ms. If omitted, the last delay specified, from a <<next>>> or the parent <<timed>>, will be used.

#### Usage:

```
→ Insert some text in 2 second intervals three times (at: 2s, 4s, 6s)
<<timed 2s>>Hi! Ho!
<<next>>Hi! Ho!
<<next>>It's off to work we go!
<</timed>>
→ Replace some text in 1 second intervals
I'll have <span id="drink">some water</span>, please.\
<<timed 1s>><<replace "#drink">>a glass of milk<</replace>>\
<<next>><<replace "#drink">>a can of soda<</replace>>\
<<next>><<replace "#drink">>a cup of coffee<</replace>>\
<<next>><<replace "#drink">>tea, southern style, sweet<</replace>>\
<<next>><<replace "#drink">>a scotch, neat<</replace>>\
<<next>>><<replace "#drink">>a bottle of your finest absinthe<</replace>>\
<</timed>>
→ Set a $variable after 4 seconds, 3 seconds, 2 seconds, and 1 second
<<silently>>
<<set $choice to 0>>
<<timed 4s>>
    <<set $choice to 1>>
<<next 3s>>
   <<set $choice to 2>>
<<next 2s>>
   <<set $choice to 3>>
<<next 1s>>
    <<set $choice to 4>>
<</timed>>
<<silently>>\
```

Maps!



## HTML Maps

- Can be used to create a navigation map or a more visual way to explore in Twine
- Define clickable regions in an image
- w3schools <u>example</u> and <u>demo</u>
- Map generator: <u>image-map.net/</u>

# Map -> Twine

Code from generator:

## 1: Update URL

4: Add: data-passage="Passage Name" to link area to a passage

## **HTML Attributes**

SugarCube provides a few special HTML attributes, which you may add to raw HTML tags to enable special behaviors. There are attributes for passage links, image passages, and setters.

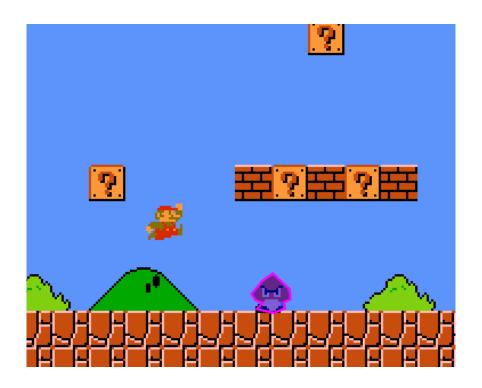
Туре	Attribute	Example
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Passage, Image	data-passage <sup>[1]</sup>	<pre><img data-passage="PlayerBioPic"/></pre>
Setter	data-setter	<pre><a data-passage="Grocery" data-setter="\$bought to 'milk'">Go buy milk</a></pre>

1. The data-passage attribute normally acts as a link, however, for <img> tags it acts as the source.

# maphilight.js

# maphilight.js

A JavaScript library for highlighting areas inside of a map





# Integrating with Twine

- Copy my modified version of maphilight.js: <u>here</u>
- Paste into your Twine's Story Javascript
- Create special "<u>PassageDone</u>" passage
- Use <<script>> to active maphilight in PassageDone

```
$("img[usemap]").maphilight({
 fill: true, // Fill the area?
 fillColor: '0000ff', // HEX format without the starting "#"
 fillOpacity: 0.5, // Opacity of the filled area
 stroke: true, // Outline the area?
 strokeColor: 'ff00ff',
 strokeOpacity: 1,
 strokeWidth: 3,  // Outline width
 fade: true, // Animate when hovered with a fade?
 alwaysOn: false, // Always show the areas?
 neverOn: false,
 groupBy: false,
 wrapClass: true,
 shadow: false,
 shadowX: 0,
 shadowY: 0,
 shadowRadius: 6,
 shadowColor: '000000',
 shadowOpacity: 0.8,
 shadowPosition: 'outside',
 shadowFrom: false
3);
<</script>>
```

<<script>>

```
<<script>>
$("img[usemap]").maphilight({
3);
$("img.showAllMap").data("maphilight", {
  fillColor: 'ff0000',
  stroke: false,
  always0n: true
3);
$("area.greenArea").data("maphilight", {
  fillColor: '00ff00',
  fillOpacity: 0.5
3);
<</script>>
```

# Typed Library



# Typed.js

- JavaScript text animation library
- <u>Live demo</u>

## Setup

- Go to motoslave.net/sugarcube/2/
- Download "typed.js integration module"
- Copy:
  - typedjs-integration-module.min.js --> Story JavaScirpt
  - typedjs-integration-module.css --> Story Stylesheet

### typed Class Name Examples

Basic usage, speed and delay at defaults:

```
typed
```

To set the typing speed to 80ms:

```
typed-speed80
```

To delay the start of typing for 800ms:

```
typed-delay800
```

To set the typing speed to 80ms and delay the start of typing for 800ms:

```
typed-speed80-delay800
```

### **Usage Examples**

Using custom styles markup, with speed and delay at defaults:

```
@@.typed;
Hello, meatbag.

I am M.E.L., your Master Electronic Leader.

Loyalty and hard work shall be rewarded with continued existence. Disobedience or poor work ethic shall be rewarded Have a nice day. And remember, the computer is your friend.
```

## Randomness

## **SugarCube 2.x Functions**

SugarCube is a free (gratis and libre) story format for Twine/Twee, based on TiddlyWiki.

This documentation is a reference for various functions available within SugarCube.

```
clone(), either(), hasVisited(), lastVisited(), passage(), previous(), random(), randomFloat(), setPageElement(), tags(), time(),
turns(), variables(), visited(), visitedTags()
```

### random([min ,] max) : integer

Returns a pseudo-random whole number (integer) within the range of the given bounds.

#### Parameters:

- min: (optional) The lower bound of the random number (inclusive). If omitted, will default to 0.
- . max: The upper bound of the random number (inclusive).

#### Usage:

```
random(5) \rightarrow Returns a number in the range 0-5 random(1, 6) \rightarrow Returns a number in the range 1-6
```

### randomFloat([min ,] max) : float

Returns a pseudo-random real number (floating-point) within the range of the given bounds.

**NOTE:** Unlike with its sibling function random(), the max parameter is exclusive, not inclusive (i.e. the range goes to, but does not include, the given value).

#### Parameters:

- min: (optional) The lower bound of the random number (inclusive). If omitted, will default to 0.0.
- . max: The upper bound of the random number (exclusive).

#### Usage:

```
randomFloat(5.0) \rightarrow Returns a number in the range 0.0-4.9999999... randomFloat(1.0, 6.0) \rightarrow Returns a number in the range 1.0-5.9999999...
```

### either(list...): any

Returns a random value from its given arguments.

#### Parameters:

• **list** (any) The list of values to operate on. May be any combination of singular values, actual arrays, or array-like objects. All values will be concatenated into a single list for selection.

#### Usage:

```
// Using singular values
either("Blueberry", "Cherry", "Pecan") → Returns a random pie from the whole list

// Using arrays; given: $pies = [ "Blueberry", "Cherry", "Pecan" ]
either($pies) → Returns a random pie from the whole array

// Using singular values and arrays; given: $letters = [ "A", "B", "C" ]
either($letters, "D", "E") → Returns a random value from the whole list (i.e. "A", "B", "C", "D", "E")

// Using multiple arrays; given: $letters = [ "A", "B", "C" ] & $numerals = [ "1", "2", "3" ]
either($letters, $numerals) → Returns a random value from the whole list (i.e. "A", "B", "C", "1", "2", "3")
```