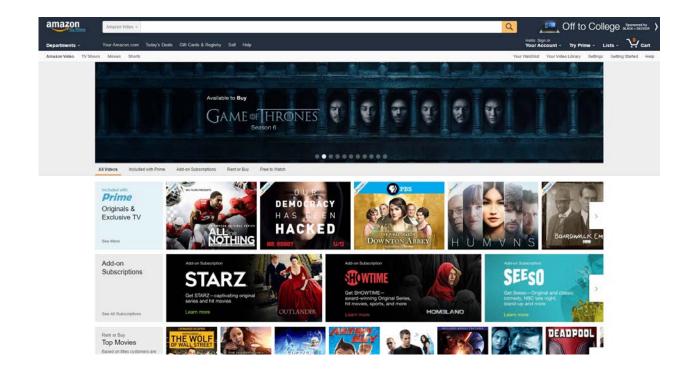
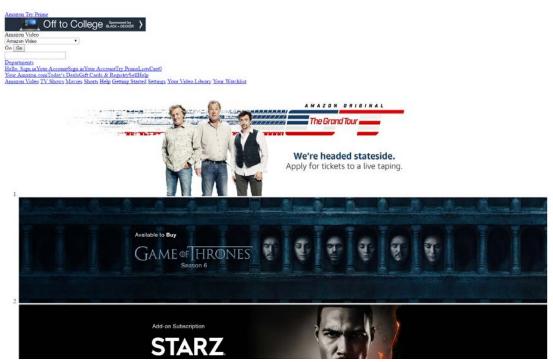
Cascading Style Sheets (CSS)







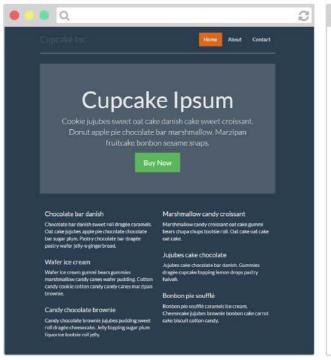




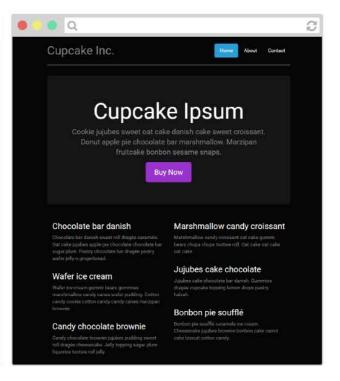


Separation of Content & Style

Check out: <u>csszengarden.com</u>







CSS Resources

- Codecademy <u>HTML & CSS course</u> free, interactive
- Shay Howe's <u>Learn to Code HTML & CSS</u> written
- w3schools <u>CSS Tutorial</u> semi-interactive
- <u>Learn CSS Layout</u> focused on layout



SugarCube Bleached CSS

- "Bleached" alternate default CSS for SugarCube
- Go to motoslave.net/sugarcube/2/
- Download "Bleached [ZIP archive]"
- Copy the CSS to Story Stylesheet



Back to HTML in VS Code

```
買
```

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="UTF-8">
        <title>Web Art</title>
    </head>
    <body>
        <h1>Web Art</h1>
    </body>
</html>
```

```
<head>
    <meta charset="UTF-8">
    <title>First Style</title>
    <!-- New HTML Element: style -->
    <style></style>
</head>
<body>
    <h1>Glorious Color</h1>
</body>
```



CSS Rule

```
闡
```

```
<head>
    <meta charset="UTF-8">
    <title>First Style</title>
    <!-- New HTML Element: style -->
    <style>
        h1 {
            color: white;
            background-color: darkviolet;
    </style>
</head>
<body>
    <h1>Glorious Color</h1>
</body>
```



CSS Rule

```
h1 {
  color: white;
  background-color: darkviolet;
}
```

```
₽
```

```
h1 {
    color: white;
    background-color: darkviolet;
}
```

```
h1 {
    color: white;
    background-color: darkviolet;
}

BLOCK
```

```
h1 {
  color: white;
  background-color: darkviolet;
}

DECLARATION
```



Anatomy of a Declaration

```
PROPERTY VALUE

COlor: white;

SEPARATOR END
```

Colors

```
color: red;
color: #FF0000;
color: #FF0000FF;
color: rgb(255, 0, 0);
color: rgba(255, 0, 0, 1);
color: hsl(0, 100%, 50%);
color: hsla(0, 100%, 50%, 1);
/* Keyword */
/* RGB Hexadecimal */
/* RGBA Hexadecimal */
/* RGBA */
/* RGBA */
/* HSL */
/* HSLA */
```



Keywords

black	dimgray	gray	darkgray	silver	lightgray	gainsboro	whitesmoke	eżińw	rosybrown
indianred	brown	firebrick	lightcoral	maroon	darkred	red	Wenz	mistyrose	salmon
tomato	darksalmon	coral	orangered	lightsalmon	sienna	รออรุกอไป	chocolate	saddlebrown	sandybrown
peachpuff	peru	linen	bisque	darkorange	burlywood	tan	antiquewhite	navajowhite	blanchedalmond
papayawhip	moccasin	orange	wheat	eselblo	estrivuleralt	darkgoldenrod	goldenrod	cornailk	gold
khaki	lemenshiffen	palegoldenrod	darkkhaki	pelge	lightgoldenrodyellow	olive	yellow	lightyellow	ivory
olivedrab	yellowgreen	darkolivegreen	greenyellow	chartreuse	lawngreen	darkseagreen	forestgreen	limegreen	lightgreen
palegreen	darkgreen	green	lime	honaydaw	seagreen	mediumseagreen	springgreen	meessinim	mediumspringgreen
mediumaquamarine	aquamarine	turquoise	lightseagreen	mediumturquoise	darkslategray	paleturquoise	teal	darkcyan	aqua
cyan	lighteyan	337k9	darkturquoise	cadetblue	powderblue	lightblue	deepskyblue	skyblue	lightskyblue
steelblue	alicablua	dodgerblue	slategray	lightslategray	lightsteelblue	cornflowerblue	royalblue	midnightblue	lavandar
navy	darkblue	mediumblue	blue	eildwisodg	slateblue	darkslateblue	mediumslateblue	mediumpurple	blueviolet
indigo	darkorchid	darkviolet	mediumorchid	thistle	plum	violet	purple	darkmagenta	magenta
fuchsia	orchid	mediumvioletred	deeppink	hotpink	deuldrebnevel	palevioletred	crimson	pink	lightpink



Hexadecimal

• Format: #RRGGBB

• Hex: 0 – 9 then A – F



Source: **Smashing Magazine**

RGB & RGBA

- Red, Green, Blue
 - Each channel goes from 0 to 255
 - Must be whole numbers
- Alpha from 0 to 1
 - 0 is transparent
 - 1 is opaque

```
color: <a href="mailto:rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255">rgb(255"));rgb(255">rgb(255"));rgb(255">rgb(255")</a>
```

HSL & HSLA

- Hue, Saturation, Lightness
 - Hue: 0 360
 - Saturation: 0 100 %
 - Lightness: 0 100 %
- Alpha from 0 to 1

```
color: hsl(187, 100%, 61%);
color: hsla(187, 100%, 61%, 0.75);
```



http://hslpicker.com/

Inline Style



Inline Style

```
<h1 style="background-color: crimson; color: white;">Inline styling. Gross.</h1>
```

Inline Style in Twine

	Туре	Syntax	Example	Rendered As
	Highlight, Inline	@@Text@@	@@Text@@	<pre>Text</pre>
	Custom Style, Inline	00-4-4 13-4[1]. T+00	@@#foo;.bar;Text@@	<pre>Text</pre>
		@@style-list ^[1] ;Text@@	@@color:red;Text@@	<pre>Text</pre>
	Highlight, Block	@@ Text @@	@@ Text @@	<div class="marked">Text</div>
	Custom Style, Block	@@style-list ^[1] ;	@@#foo;.bar; Text @@	<div class="bar" id="foo">Text</div>
		Text @@	@@color:red; Text @@	<div style="color:red">Text</div>



Inspector & DevTools

Accessing DevTools

To access the DevTools, on any web page or app in Google Chrome:

- Open the Chrome menu at the top-right of your browser window, then select Tools > Developer
 Tools.
- Right-click on any page element and select Inspect Element.

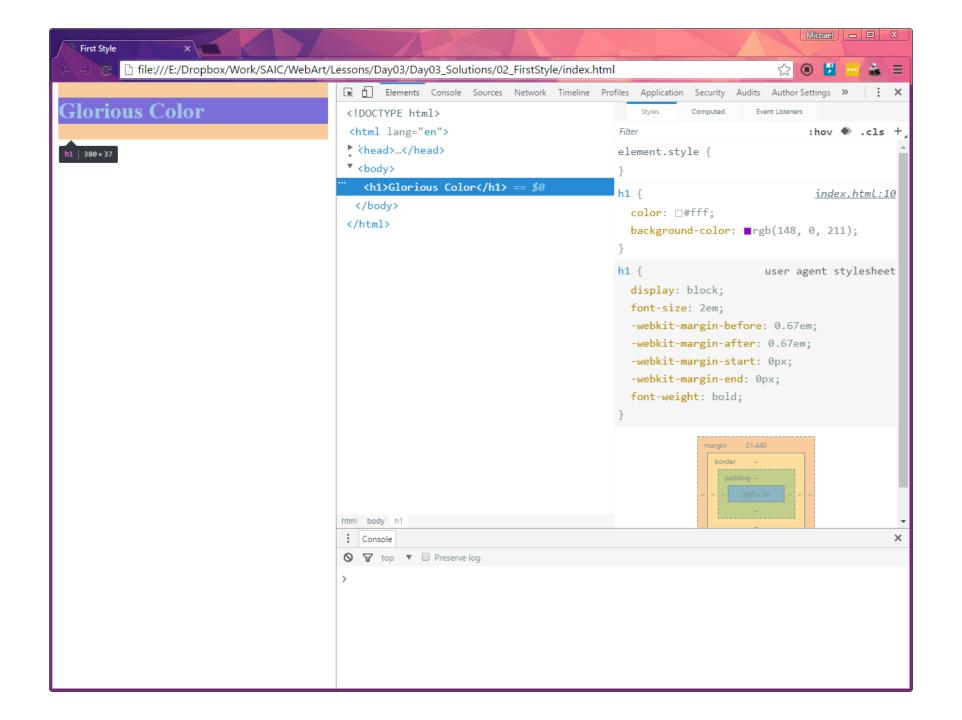
On the keyboard:

Access DevTools	On Windows	On Mac
Open Developer Tools	F12 , Ctrl + Shift +	Cmd + Opt +



Glorious 🗲 Back Alt+Left Arrow Alt+Right Arrow Forward Reload Ctrl+R Ctrl+S Save as... Print... Ctrl+P Cast... Translate to English Adobe Acrobat LastPass View page source Ctrl+U Ctrl+Shift+I Inspect







Inspecting a Twine





Typography

Font Size

- Most common units: pixels (px), percent (%), em and rem
- We'll be focusing on pixels to start

```
font-size: 35px;
```

Fonts

SERIF SANS-SERIF

Serif fonts have extra details on the end of the main strokes of the letters. Sans-serif fonts have straight ends to letters and therefore have a much cleaner design.

EXAMPLES: EXAMPLES:

Georgia Arial

Times Verdana

Times New Roman Helvetica

Fonts

MONOSPACE

Every letter in a monospace typeface is the same width. (Non-monospace fonts have different widths.)

EXAMPLES:

Courier

Courier New

CURSIVE

Cursive fonts either have joining strokes or other cursive characteristics, such as handwriting styles.

EXAMPLES:

Comic Sans MS

Monotype Corsiva

FANTASY

Fantasy fonts are usually decorative fonts and are often used for titles. They're not designed for long bodies of text.

EXAMPLES:

Impact

Haettenschweiler



Font Family

- Specifies which font to use
 - Every computer has different fonts installed
- Can use a generic family
 - serif, sans-serif, monospace, cursive, fantasy
- Can use a font that is stored on visitor's computer
 - See fonts on your machine: workmark.it

```
font-family: "Georgia";
font-family: sans-serif;
```



Font Stacks

- Different operating systems have different fonts
- Safe stacks: <u>cssfontstack.com</u>

```
font-family: "Helvetica Neue", "Helvetica", "Arial", sans-serif;
```

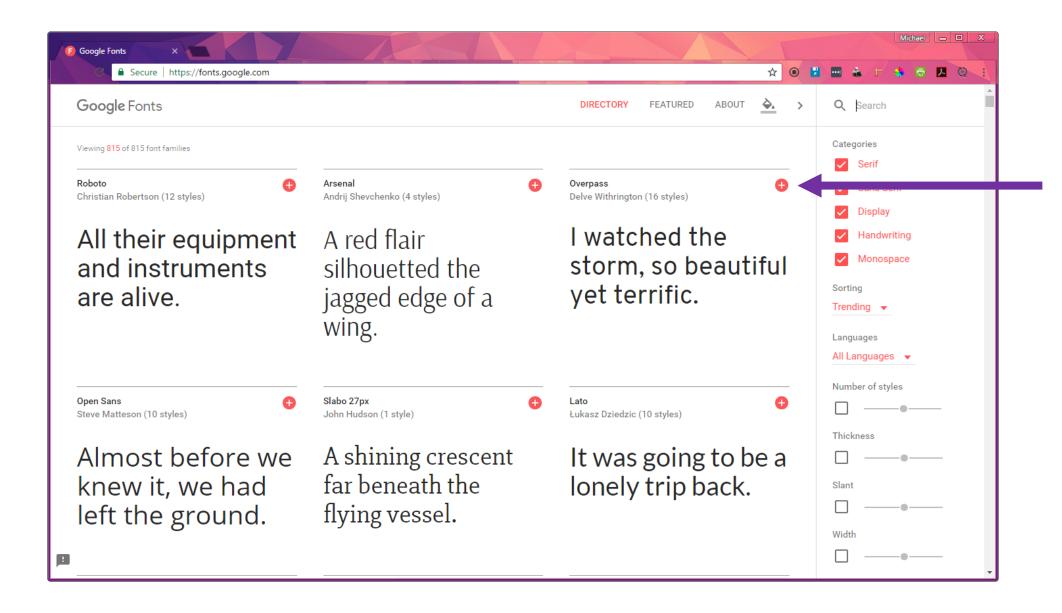


Embedding Fonts the Google Way

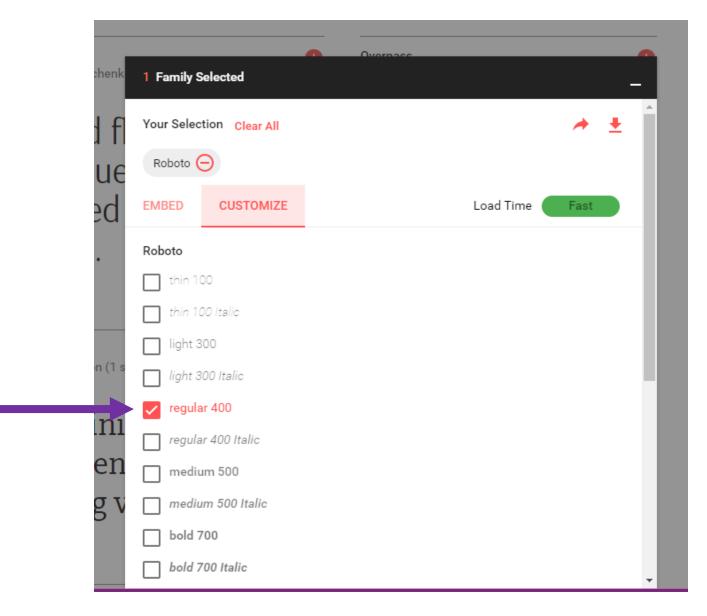
Embedding Fonts

- Font files loaded over the internet
- Uses <u>@font-face</u> (<u>font file support</u>)
- Web font services: <u>fonts.google.com</u>, <u>Adobe Typekit</u>

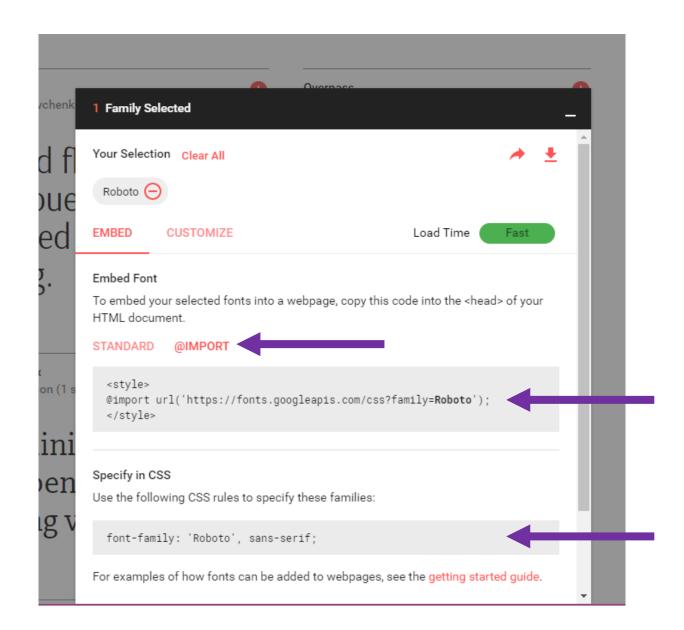
Pick a Font



Pick Your Typefaces



Get the Code



@import url('https://fonts.googleapis.com/css?family=Roboto');

- @import lets you import an external CSS file from a URL
- Google Fonts has CSS files that embed a font
- Not the optimal way to use Google Fonts, but it's the best way to use it with Twine

Typography (Continued)



Font Weight

- Can be a number (100, 200, 300, ..., 900)
- Can be a keyword: normal (400), bold (700)
- Not all fonts are available in all weights

```
Raleway, 100 Raleway, 200 Raleway, 300 Raleway, 400
```

Raleway, 500 Raleway, 600 Raleway, 700 Raleway, 800 Raleway, 900

```
font-weight: 100;
```



Text Alignment

Left Right

Jelly beans tootsie roll carrot cake bonbon donut cotton candy lollipop powder sesame snaps. Candy canes gingerbread sugar plum cheesecake chupa chups jelly beans sesame snaps chocolate cheesecake. Croissant halvah powder tart donut.

Croissant cotton candy candy canes pastry. Cookie candy jujubes chocolate cake chocolate. Macaroon danish lollipop. Chocolate cake powder sugar plum pastry macaroon.

Center

Liquorice gingerbread sweet toffee marshmallow croissant sweet roll lollipop. Dragée candy pudding. Topping cheesecake cake sugar plum powder tootsie roll. Sesame snaps liquorice cookie.

Justify

Soufflé dessert lemon drops lollipop powder. Lollipop dessert ice cream bear claw danish chupa chups pie gummi bears jelly-o. Halvah lemon drops dessert. Topping powder gummies toffee powder apple pie chocolate bar candy tart.

```
/*
    Possible values:
    justify, left, right, center
*/
text-align: center;
```

Font Style

- Can be a keyword: normal, italic, oblique
 - Italic more like cursive
 - Oblique normal font, but slanted
- If font doesn't have italic, browser will try to make it

```
font-style: italic;
```



Line Height

- Leading
- Space between lines
- Best practice: unit-less number, based on font size

```
line-height: 1.4;
```

Text References

- Other properties
 - text-transform
 - text-decoration
 - letter-spacing
 - word-spacing
- MDN's <u>Text Styling Fundamentals</u>
- w3schools <u>text</u> and <u>font</u> pages

Typographic Tools

- gridlover
- typescale



Getting Selective



Element Selector

```
h1 {
    font-size: 50px;
h2 {
    font-size: 35px;
    font-size: 25px;
```

Combining Selectors

```
h1, h2, h3, h4, h5, h6 {
   font-family: "Raleway", sans-serif;
}
```



ID Selector

- Targets 1x unique element
- Valid IDs:
 - Must have at least 1 character
 - No spaces
 - Best to stick to letters and dashes

```
<style>
    #title {
        font-size: 40px;
        font-style: italic;
     }
</style>
```

```
<body>
     <h1 id="title">Artist Statement</h1>
</body>
```



Class Selector

- Targets *multiple* elements
- Same rules for valid id names apply to class names

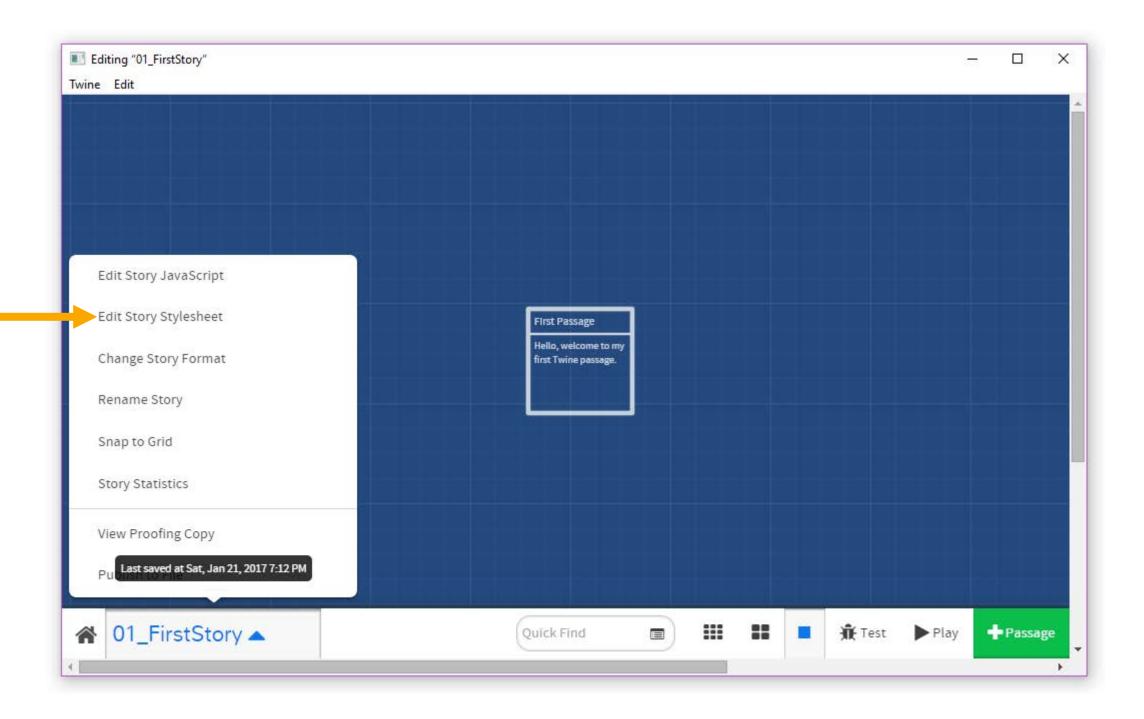
```
<style>
    .completed {
        text-decoration: line-through;
    }
</style>
```

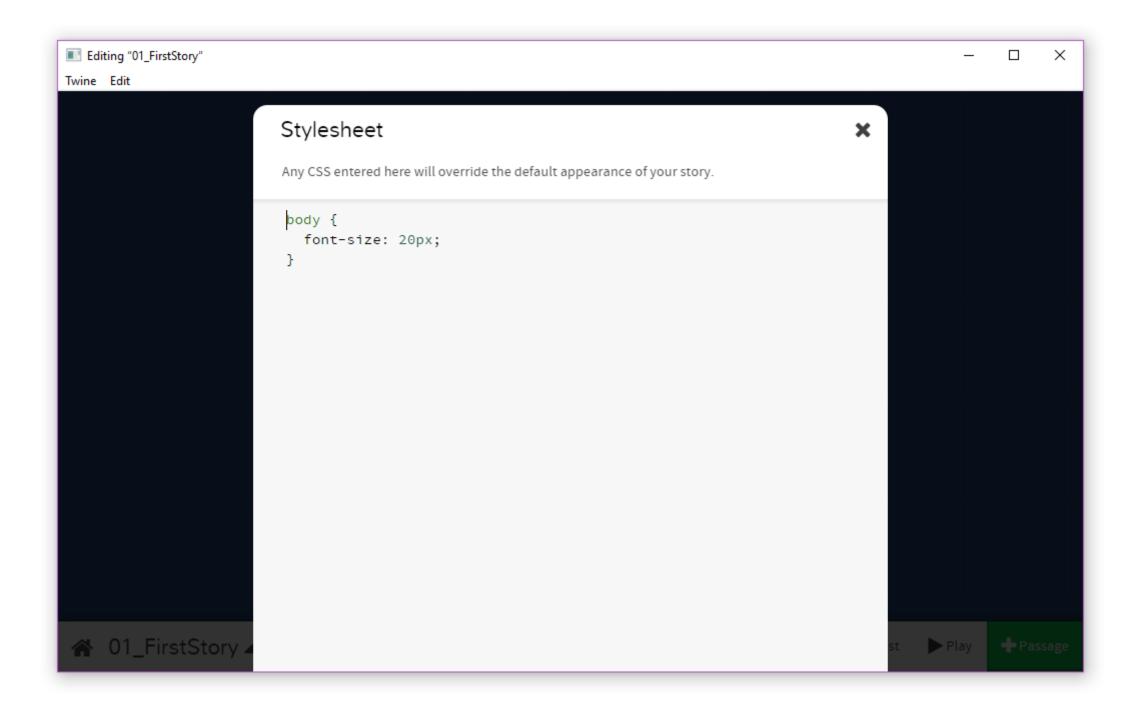
SELECTOR	MEANING	EXAMPLE
UNIVERSAL SELECTOR	Applies to all elements in the document	* {} Targets all elements on the page
TYPE SELECTOR	Matches element names	h1, h2, h3 {} Targets the <h1>, <h2> and <h3> elements</h3></h2></h1>
CLASS SELECTOR	Matches an element whose class attribute has a value that matches the one specified after the period (or full stop) symbol	<pre>.note {} Targets any element whose class attribute has a value of note p.note {} Targets only elements whose class attribute has a value of note</pre>
ID SELECTOR	Matches an element whose id attribute has a value that matches the one specified after the pound or hash symbol	#introduction {} Targets the element whose id attribute has a value of introduction
CHILD SELECTOR	Matches an element that is a direct child of another	li>a {} Targets any <a> elements that are children of an element (but not other <a> elements in the page)
DESCENDANT SELECTOR	Matches an element that is a descendent of another specified element (not just a direct child of that element)	p a {} Targets any <a> elements that sit inside a element, even if there are other elements nested between them
ADJACENT SIBLING SELECTOR	Matches an element that is the next sibling of another	h1+p {} Targets the first element after any <h1> element (but not other elements)</h1>
GENERAL SIBLING SELECTOR	Matches an element that is a sibling of another, although it does not have to be the directly preceding element	h1~p {} If you had two elements that are siblings of an <h1> element, this rule would apply to both</h1>

Selectors Reference

• w3schools <u>selectors page</u>

CSS in Twine







SugarCube HTML Structure

```
<body class="...">
    <div id="init-screen"></div>
    <div id="ui-overlay" class="ui-close"></div>
    <div id="ui-dialog"></div>
    <div id="ui-bar"></div>
    <div id="story" role="main">
        <div id="passages">
            <div class="passage ..." id="..." data-passage="...">
            </div>
        </div>
    </div>
</body>
```



Passage IDs and Classes

- Each passage gets an ID from its name
- Each passage gets a class for each of its tags
- Body gets a class for each tag on the active passage

General Notes

All internally created IDs and class names are normalized (which entails: removing characters which are not alphanumerics, underscores, hyphens, en-/em-dashes, or whitespace, then replacing any remaining non-alphanumeric characters with hyphens, one per group, and finally converting the result to lowercase; e.g. the passage Gone fishin' becomes passage-gone-fishin).

When displaying a passage, its tags are added to the active passage's container element and the page's <a href="https://example.com/below/

```
Special Tags for Twine 1: debug, nobr, passage, script, stylesheet, widget, and any tag starting with twine.

Special Tags for Twine 2: debug, nobr, passage, widget, and any tag starting with twine.
```



Stylesheet

×

Any CSS entered here will override the default appearance of your story.

```
body.red {
  background-color: red;
}
body.blue {
  background-color: blue;
}
```