**Variables:**

* In VS Code, open Demos>HTML-CSS>css-variables>css-variables.html in a live server
* Open the css-variables\_start.css file
* Point out variable declarations at the top of the CSS file and their uses throughout
* Change the value of --primary-color at the top of the file and point how many lines you would have had to change if you weren’t using a variable (3, though this would likely be much more on a larger, complex website)
* Create a variable inside the aside rules called highlight-color with the value red (ex. --highlight-color: red;)
* Add a CSS rule for aside span that uses the new variable (ex. aside span { color: var(--highlight-color); } )
* Point out that the words “carrot cake caramels” have been highlighted red
* Switch .primary-highlight color to the new variable (ex. .primary-highlight { color: var(--highlight-color); } )
* Point out that it does not work; the variable declared in aside can only be used within aside elements and their descendants

**Animations:**

* Open Demos>HTML-CSS>animations
* Start animations.html in a live server
* Open animations\_start.css and walk students through the file
* #animated has the attribute animation-name which has 2 values – a comma separated list of values allows you to assign multiple animations to one css rule
* The animation-duration is 10 seconds, without this line the animation does not run
* There are two @keyframes annotations, one for the dance animation, and one for the rainbow animation
* Create a new animation called square-to-circle via the @keyframes annotation
* At 0% and 100% set border-radius to 0
* At 50% set border-radius to 50%
* Add square-to-circle to the #animated animation-name list
* Add an animation-iteration-count attribute to #animated and set it to infinite
* Add an animation-delay of -5s and demonstrate that the animation now starts half-way through

Add an animation-direction of alternate-reverse and demonstrate that the animation now starts backwards and switches from forward to backwards