PUI Assignment 8: Skrollr Tutorial

What is Skrollr?

Skrollr is a javascript library that allows you to animate CSS properties of elements depending on the scrollbar position of the element.

Let's get started!

Step 1:

Open the skrollr starter files. This tutorial will only have you change the HTML files. These files should include an images folder with 3 images and an assets folder with 3 javascript files and 1 CSS file.

Step 2:

Before we begin writing code, it is important to understand how skrollr actually works. Skrollr data is purely HTML, it is added to your HTML code without any javascript writing involved. Each line of skrollr code is written in the following format:

data-###="param1:val;param2:val;param3:val;"

There are two main elements to using skrollr. The first is the data element. This is when the code is being executed. When you are at the top of a webpage, the data ### is 0. So, for example, if you want to implement an event after scrolling a few seconds you would set data to 1000 ("data-1000").

The second element is parameters. Parameters include left, right, margin-top, width, opacity, rotateX, and more. So, for example, if you want to move an object from left position with 0 opacity at data-1000, to right position with 1 opacity at data-2000, your code would be:

data-1000="left:0%;opacity:0;"
data-2000="left:100%;opacity:1;"

Remember to use percentages (instead of pixels) so that your webpage will be responsive!

Step 3:

Now let's move onto writing code!

Add to the first div:

```
data-0="left:0%;margin-top:0%;width:100%;"
data-1750="left:0%;margin-top:0%;width:100%;"
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data-6750="left:0%;margin-top:-5%;width:100%;"
data-7750="left:0%;margin-top:-70%;width:100%;"
data-14000="left:0%;margin-top:-70%;width:100%;"
data-17000="left:0%;margin-top:-100%;width:100%;"

Add to the second div:

data-3500="top:50%;left:20%;opacity:0;"
data-3750="top:50%;left:20%;opacity:1;rotateX(30deg);"
data-5250="top:-10%;left:110%;opacity:1;"

Add to the third div:

data-9250="top:2.5%;left:110%;opacity:1;"
data-10000="top:2.5%;left:25%;transform:scale(1) rotate(0deg);opacity:1;"
data-11000="top:35%;left:25%;transform:scale(1) rotate(-180deg);opacity:1;"
data-12000="top:35%;left:75%;transform:scale(1) rotate(-180deg);opacity:1;"
data-13000="top:68%;left:75%;transform:scale(1) rotate(0deg);opacity:1;"
data-14000="top:68%;left:10%;transform:scale(1) rotate(0deg);opacity:1;"
data-15000="top:80%;left:10%;transform:scale(1) rotate(-180deg);opacity:1;"
data-16000="top:63%;left:60%;transform:scale(1) rotate(-180deg);opacity:1;"
data-17000="top:77%;left:65%;transform:scale(1) rotate(0deg);opacity:1;"
data-18000="top:77%;left:-20%;transform:scale(1) rotate(0deg);opacity:1;"

Writeup:

Briefly describe the PUI concept for the tutorial.
The concept I created for this tutorial is a skrollr demo. This tutorial builds on the PUI concept of using a new Javascript library for the final project. Skrollr is a javascript library that allows you to animate any CSS property of any element depending on the horizontal scrollbar position. This tutorial begins with starter files, which the user then builds on by going through the steps shown in the tutorial.

Describe the demo(s) created for your tutorial.
The demo I created for my tutorial transforms image elements and demonstrates several features of skrollr. The demo starts off with an illustrated background. It demonstrates how to continuously move a background, how objects can be moved, how to change the opacity of objects with time, and be how to rotate objects.