

PROJECT ONE —

Relative time

PROMPT

Create a dynamic time-variant application based on an actual physical space in the city. Using conditional statements, design and develop a system that dictates what the users experience as time ticks on.

STEPS

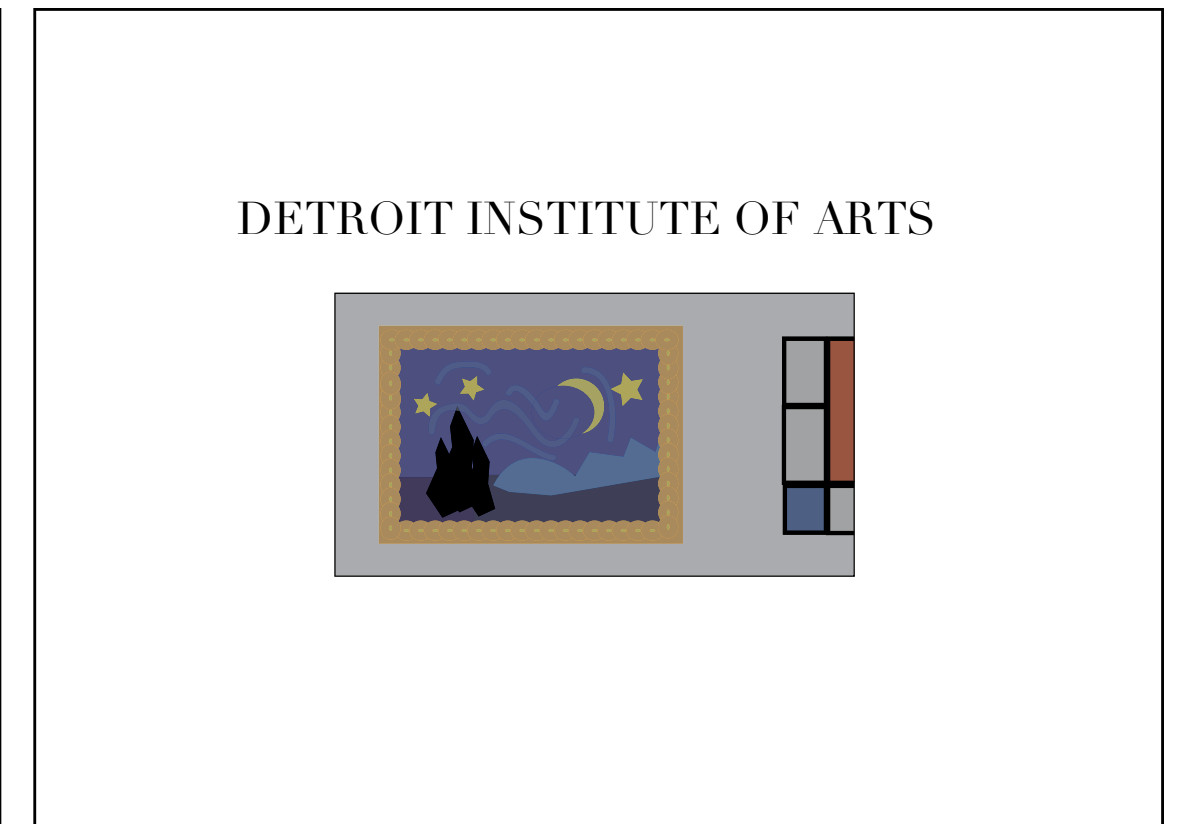
- 1** Choose 4 spaces you find interesting and can easily access in the next two weeks.
- 2** Develop your concepts. It is up to you to create a meaningful experience.
- 3** Using a flowchart, map out your system to outline the process
- 4** Make prototypes. Test it. Prove it.
- 5** Deploy

CONCEPT – *Detroit Institute of Arts*

The DIA is open from 10am to 5pm on most days. My concept was to have paintings scroll by a window. At peak times, paintings would scroll quicker. Towards the end of the day, paintings slow to a halt and the window starts to close.

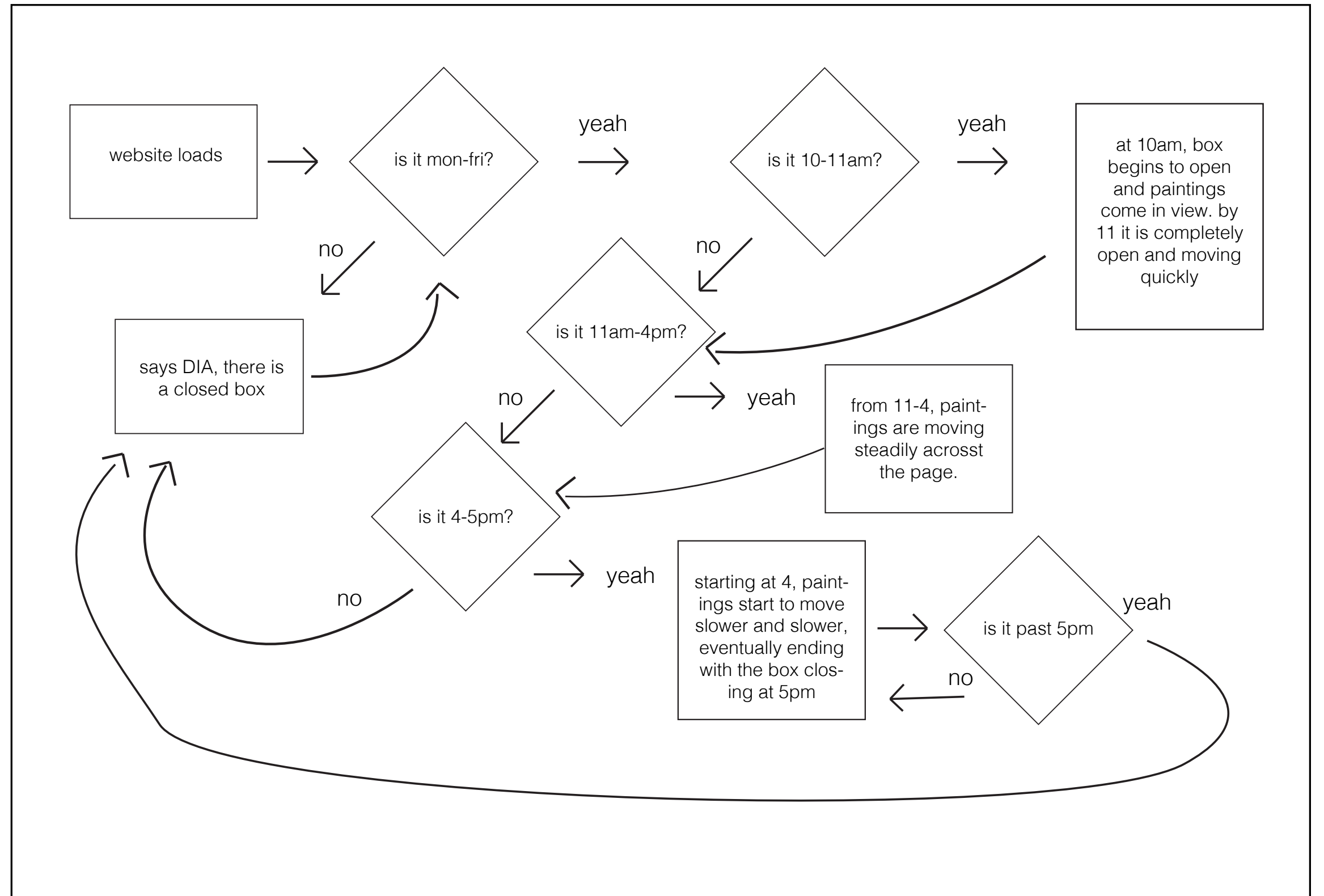


Scrolling quickly; lots of art




Slowing down towards the end of the day

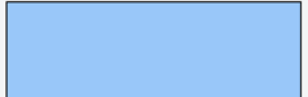
FLOWCHART – *DIA Concept*



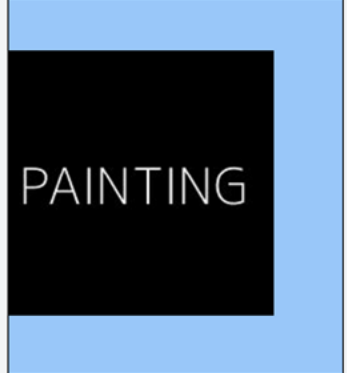
PROTOTYPES – *JSfiddles*

<pre> 1 <div id="timer"> 2 </div> 3 <div id="box"> 4 <div id="images"> 5 6 9 </div> 10 </div> 11 <div id="warning"> 12 </div> 13 14 </pre>	<pre> 1 #box { 2 background: #99c7f9; 3 width: 0%; 4 height: 50%; 5 display: block; 6 position: absolute; 7 top: 50%; 8 left: 50%; 9 transform: translate(-50%, -50%); 10 overflow: hidden; 11 border: 1px solid #000; 12 } 13 14 #images { 15 width: 100%; 16 position: absolute; 17 top: 50%; 18 left: 50%; 19 transform: translate(-50%, -50%); 20 } </pre>
<pre> 1 \$(document).ready(function() { 2 setInterval(function() { 3 \$("#timer").html(timer.minutes + ':' + timer.seconds); 4 }, 1000); 5 6 setInterval(function() { 7 if (timer.seconds > 10 && timer.seconds < 20) { 8 \$('#image').animate({ 9 opacity: 1 10 }, {duration: 10000, queue: false, easing: 'linear'}); 11 \$('#box').animate({ 12 width: "50%" 13 }, {duration: 10000, queue: false, easing: 'linear'}); 14 } else { 15 } 16 }, 1000); 17 18 setInterval(function() { </pre>	<p>14:13 in transition...</p> 

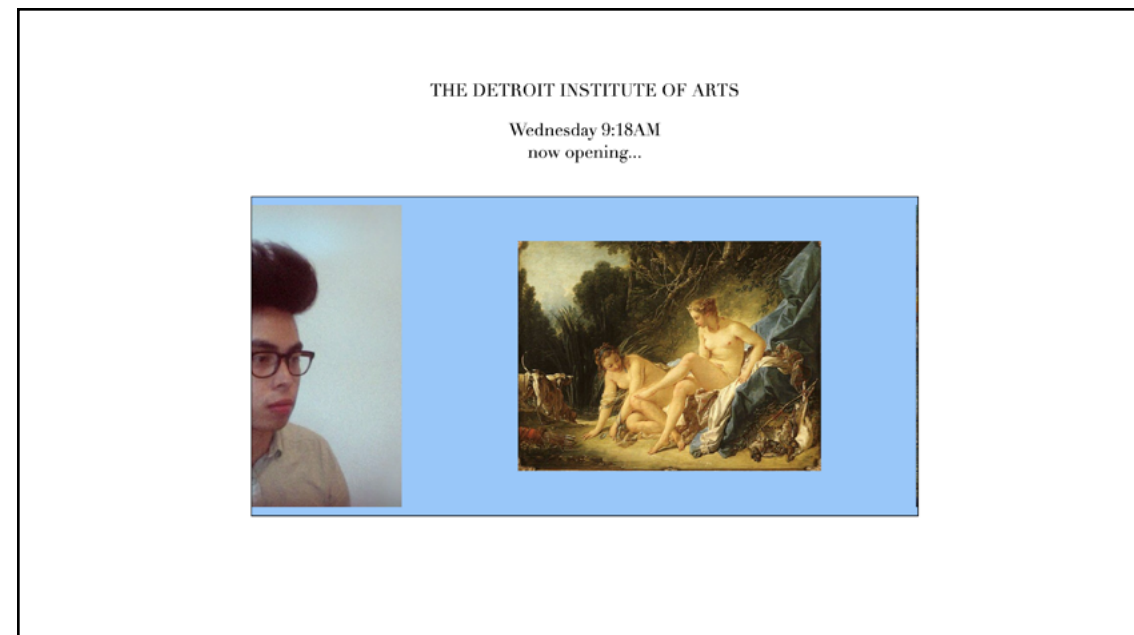
<pre> 1 2 3 \$(function marq() { 4 \$('.marquee').marquee({ 5 duration: 10000, 6 gap: 0, 7 startVisible: true, 8 duplicated: true 9 }); 10 } 11 12 13 \$('.marquee') 14 .bind('finished', function () { 15 //Apply plugin 16 }); </pre>	
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<pre> 1 <div id="timer"> 2 </div> 3 <div id="box"> 4 <div id="images"> 5 <div class="paintings"></div> 6 <div class="paintings"></div> 7 <div class="paintings"></div> 8 </div> 9 <div id="images2"> 10 <div class="paintings"></div> 11 <div class="paintings"></div> 12 <div class="paintings"></div> 13 </div> 14 </div> 15 16 </pre>	<pre> 1 /* apply a natural box layout model to all 2 elements, but allowing components to change */ 3 4 html { 5 box-sizing: border-box; 6 } 7 8 *, 9 *:before, 10 *:after { 11 box-sizing: inherit; 12 } 13 14 body { 15 margin: 0; 16 } </pre>
<pre> 1 setInterval(function() { 2 \$("#timer").html(timer.minutes + ':' + timer.seconds); 3 }, 1000); 4 5 \$(document).ready(function() { 6 //alert("hi"); 7 slideThis(); 8 function slideThis() { 9 \$('#images').animate({ 10 marginLeft: "200%" 11 }, 10000, "linear", function() { 12 \$('#images').animate({ 13 marginLeft: "-200%" 14 }, 0, slideThis); 15 }); 16 } 17 }); 18 19 \$(document).ready(function() { 20 //alert("hi"); </pre>	<p>13:10</p> 

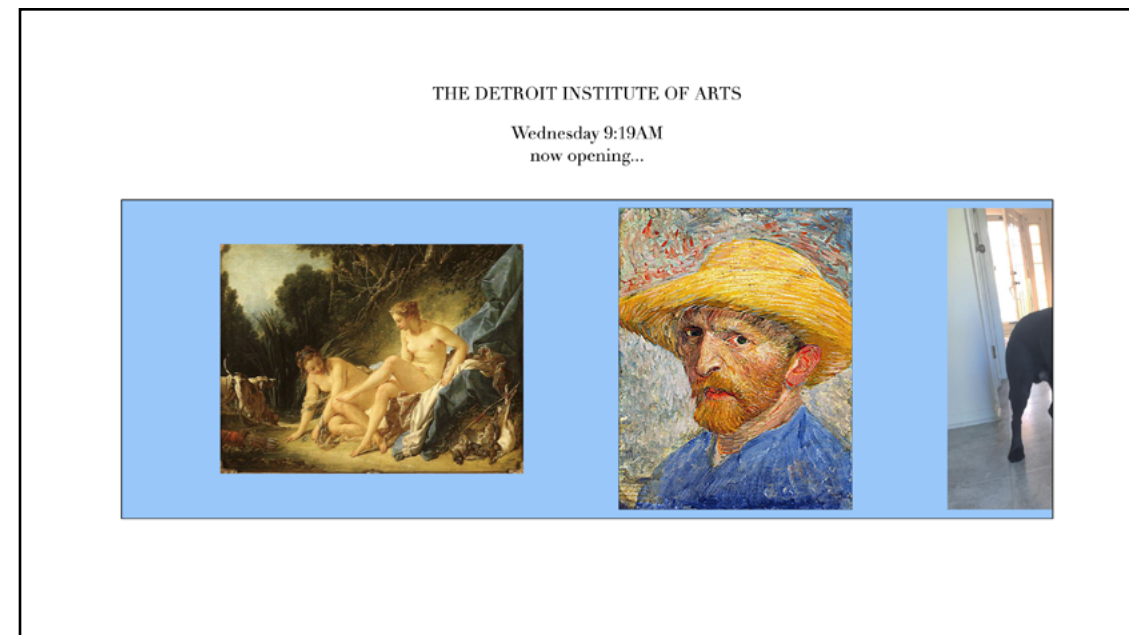
<pre> 1 setInterval(function() { 2 \$("#timer").html(days[timer.day] + ' ' + timer.hour + ':' + 3 timer.minutes + ':' + timer.seconds + timer.meridiem); 4 }, 1000); 5 6 var days = 7 ['Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday']; 8 //days[0] = Sunday, days[1] = Monday.. </pre>	<p>Wednesday 10:12:50AM</p>
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<pre> 1 <div id="timer"> 2 </div> 3 <div id="box"> 4 <div id="images"> 5 6 9 </div> 10 </div> 11 <div id="warning"> 12 </div> 13 14 </pre>	<pre> 1 #box { 2 background: #99c7f9; 3 width: 0%; 4 height: 50%; 5 display: block; 6 position: absolute; 7 top: 50%; 8 left: 50%; 9 } </pre>
<pre> 1 \$(document).ready(function() { 2 setInterval(function() { 3 \$("#timer").html(timer.minutes + ':' + 4 timer.seconds); 5 }, 1000); 6 7 setInterval(function() { 8 if (timer.seconds > 0 && timer.seconds < 9 10) { 10 \$('#image').animate({ 11 opacity: 1 12 }, 10000); 13 \$('#box').animate({ 14 width: "50%" 15 }, 10000); 16 } else { 17 \$('#box').css("width", "50%"); 18 } 19 } </pre>	<p>13:25</p> 

FINAL APPLICATION – *Detroit Institute of Arts Page*



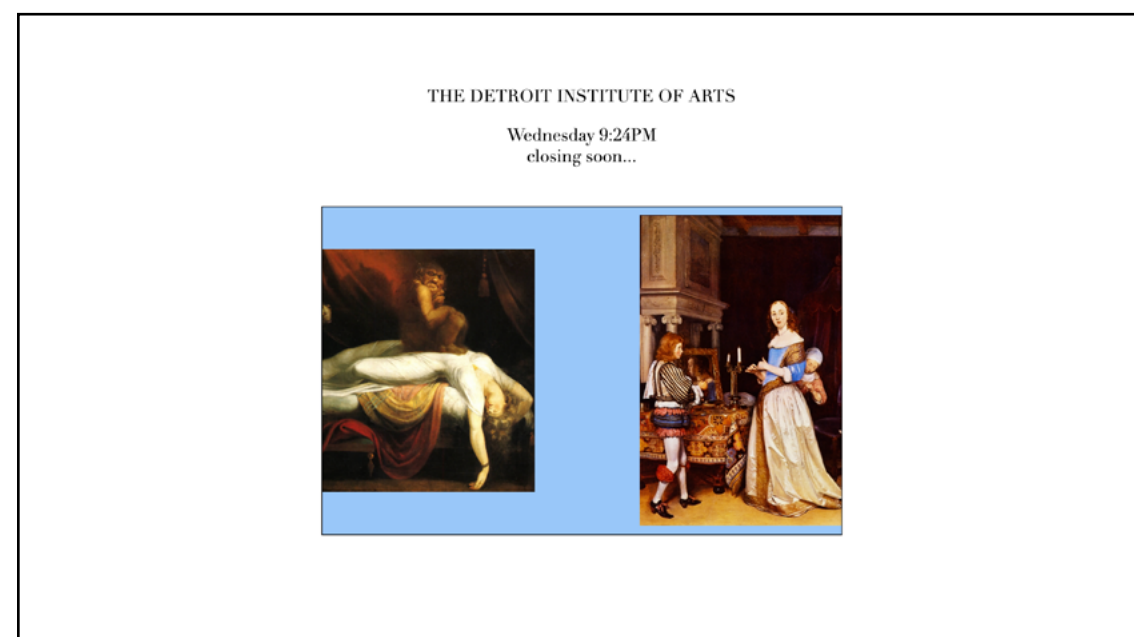
At 9:00, the window begins to open, showing the scrolling art



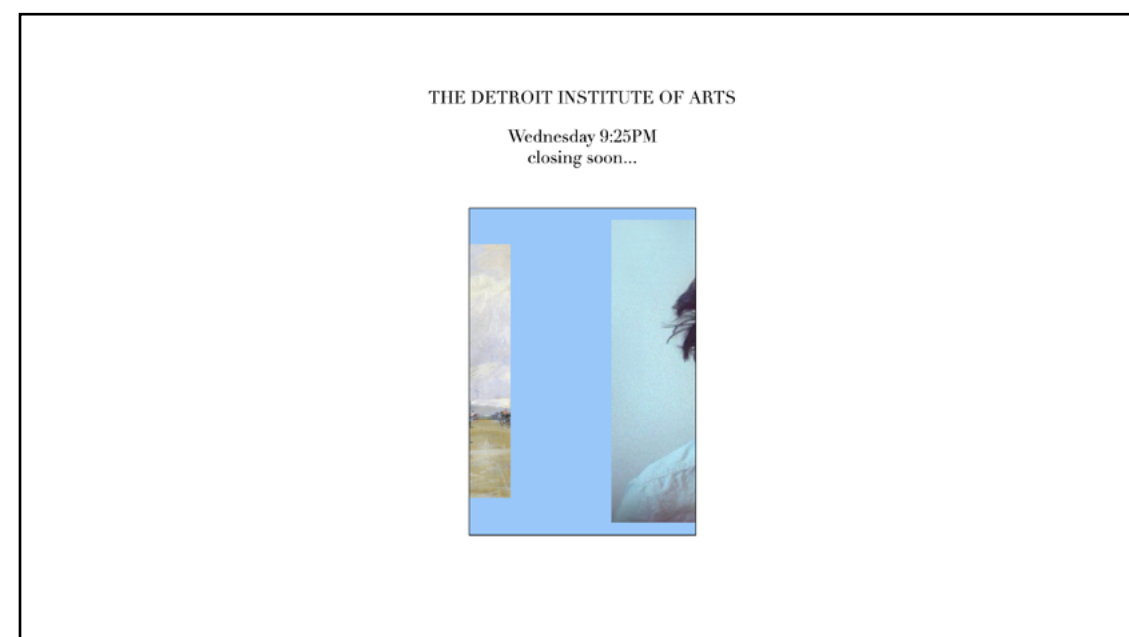
Window gets wider as time progresses



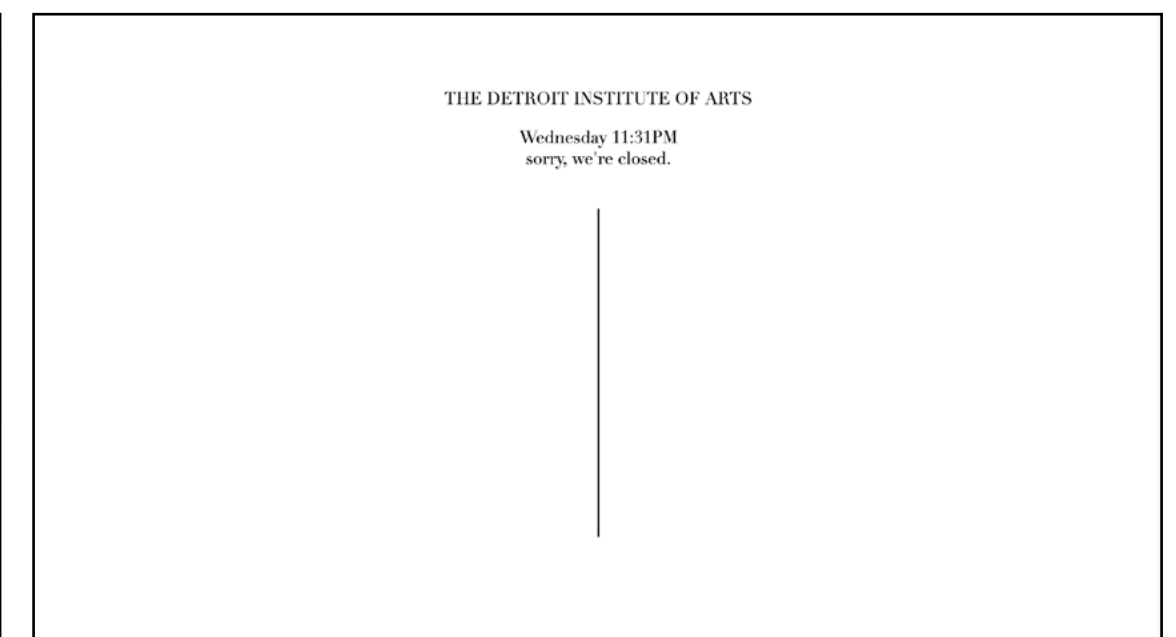
At midday, window is fully open



At closing time, the window begins to narrow



Window gets narrower as time progresses



At night, window is fully closed, with a prompt saying "sorry, we're closed"