

Open Exhibits Timeline Manual

MUSEUM TIMELINE



American Museum of Natural History

New York, New York

1879

The American Museum of Natural History is one of the largest and most celebrated museums in the world. Located in park-like grounds across the street from Central Park, the museum complex contains 27 interconnected buildings.



Metropolitan Museum of Art

New York City, New York

1872

The Metropolitan Museum of Art, located in New York City, is the largest art museum in the United States, and one of the three largest in the world, with the most significant art collections.



Philadelphia Museum of Art

Benjamin Franklin Parkway, Philadelphia

1876

The Philadelphia Museum of Art is among the largest art museums in the United States. It has collections of more than 227,000 objects that include European and American paintings, prints, drawings, and decorative arts.



The timeline exhibit is a multitouch interface that allows scrolling of information panels accompanied by a description overlay panel.

The exhibit is fully configured in CML to support easy customization of features. Each panel can have associated images and descriptions. Font sizes and colors, information overlay background color, and the number of media files are all customizable.

User Interface

library/images

This folder contains the exhibit image files.

Timeline.cml

This file contains the markup that describe timeline.

```
<Album x="0" y="120" margin="20" width="1920" height="890" backgroundAlpha="0"
mouseChildren="true" clusterBubbling="true">
  <RenderKit dataRootTag="museum">
    <Renderer>
      <TouchContainer width="640" height="890" mouseChildren="true">
        <Graphic shape="rectangle" width="640" height="890" fill="color" color="0xffffffff"
lineStroke="0" alpha="0.7"/>
        <TouchContainer mouseChildren="false" targetParent="true">
          <Image src="{imagepath}" width="640" height="500"/>
        </TouchContainer>
        <TouchContainer mouseChildren="false" targetParent="true">
          <Text id="txt1" text="{title}" x="{title-x}" y="520" autoSize="center"
color="0x000000" fontSize="35" width="640" font="OpenSansRegular"
selectable="false"/>
          <Text id="txt1" text="{location}" x="{location-x}" y="580"
autoSize="center" color="0x303030" fontSize="30" width="640"
font="OpenSansRegular" selectable="false"/>
          <Text id="txt1" text="{year}" x="260" y="620" autoSize="center"
color="0x000000" fontSize="70" font="OpenSansRegular"
selectable="false"/>
          <Text id="txt1" text="{excerpt}" x="50" y="730" autoSize="center"
selectable="false" color="0x000000" fontSize="20" alpha="0.6"
wordWrap="true" multiline="true" width="540" height="300"
font="OpenSansRegular"/>
        </TouchContainer>
      <Button id="info-btn" class="info_btn" dispatch="{button-dispatch}" hit="info-hit" initial="info-up"
down="info-down" up="info-up" out="info-up" x="570" y="830">
        <Container id="info-up">
          <Graphic alpha="0.5" shape="circle" radius="20" lineStroke="0" color="0x000000" />
          <SWF alpha="1" x="15" y="8" color="0xFFFFFFFF" scale="1.6"
classRef="org.openexhibits.assets.Info" />
        </Container>
        <Container id="info-down">
          <Graphic id="info-bg-down" shape="circle" radius="20" lineStroke="0"
color="0x474747"/>
          <SWF alpha="0.5" x="15" y="8" color="0x000000" scale="1.6"
classRef="org.openexhibits.assets.Info" />
        </Container>
        <Container id="info-hit" alpha="0">
          <Graphic id="info-bg-down" shape="circle" radius="20" lineStroke="0"
color="0x666666"/>
        </Container>
      </Button>
    </TouchContainer mouseChildren="false" targetParent="true">
```

```

<Graphic id="{panel-id}" visible="false" shape="rectangle" width="640" height="890" fill="color"
color="0x0000000" lineStroke="0" alpha="1" mouseChildren="true">
<Image src="{imagepath-2}" width="640" height="500"/>
<Text id="txt1" text="{museum-text}" x="50" y="540" width="540" height="860" color="0xfffff"
wordWrap="true" multiline="true" fontSize="20" font="OpenSansRegular"/>
  <Button x="590" y="20" class="close_btn" dispatch="{button-dispatch}" hit="close-hit"
initial="close-up" down="close-down" up="close-up" out="close-up" scale="0.75">
    <Container id="close-up" class="up" >
      <Graphic alpha="1" shape="circle" radius="20" lineStroke="0"
color="0xfffff" />
      <SWF alpha="1" x="11" y="11" color="0x000000" scale="1.6"
ref="org.openexhibits.assets.Close"/>
    </Container>
    <Container id="close-down" class="down">
      <Graphic alpha="1" shape="circle" radius="20" lineStroke="0"
color="0x000000"/>
      <SWF alpha="1" x="11" y="11" color="0xfffff" scale="1.6"
ref="org.openexhibits.assets.Close" />
    </Container>
    <Container id="close-hit" class="hit">
      <Graphic id="close-hit-bg" shape="circle" radius="20"
alpha="0"/>
    </Container>
  </Button>
</Graphic>
</TouchContainer>
</TouchContainer>
</Rendered>

```

***Each panel is rendered using the data structure below.**

```

<RenderedData>
  <museum>
    <button-dispatch>down:boston</button-dispatch>
    <panel-id>boston</panel-id>
    <imagepath>library/images/boston2.jpg</imagepath>
    <imagepath-2>library/images/boston.jpg</imagepath-2>
    <title>Museum of Science, Boston</title>
    <title-x>40</title-x>
    <location>Boston, Massachusetts</location>
    <year>1830</year>
    <excerpt>The Museum of Science is a Boston, Massachusetts landmark, located in
Science Park, a plot of land spanning the Charles River. Along with over 500 interactive
exhibits, the Museum features a number of live presentations throughout the building
every day.</excerpt>
    <museum-text>Over the next five years, the Museum of Science will be undergoing a
major renovation to upgrade the museum to current day standards. This $250 million
campaign is to upgrade nearly half of current Exhibit Halls and open three new major
exhibits.</museum-text>
  </museum>
</RenderedData>
</RenderKit>
</Album>

```

cml/buttons/closeButton.cml

The close button closes the info panel overlay.

```
<Button id="close-btn" class="close_btn" dispatch="down:close" hit="close-hit" initial="close-up"
down="close-down" up="close-up" out="close-up" scale="0.75">
  <Container id="close-up" class="up" >
    <Graphic alpha="1" shape="circle" radius="20" lineStroke="0" color="0xfffff" />
    <SWF alpha="1" x="11" y="11" color="0x000000" scale="1.6"
ref="org.openexhibits.assets.Close"/>
  </Container>
  <Container id="close-down" class="down">
    <Graphic alpha="1" shape="circle" radius="20" lineStroke="0" color="0x000000" />
    <SWF alpha="1" x="11" y="11" color="0xfffff" scale="1.6"
ref="org.openexhibits.assets.Close" />
  </Container>
  <Container id="close-hit" class="hit">
    <Graphic id="close-hit-bg" shape="circle" radius="20" alpha="0" />
  </Container>
</Button>
```

src/Main.as

This file is the main ActionScript file that includes the package import files and main functions.

Below is custom ActionScript added that allows for the information overlay to be displayed for all timeline instances.

```
private function onStateEvent(e:StateEvent):void {
  trace(e.target, e.currentTarget, e.id, e.property, e.value);
  if (CMLObjectList.instance.getId(e.value)) {
    CMLObjectList.instance.getId(e.value).visible = !(CMLObjectList.instance.getId(e.value).visible);
  }
}
```