Building Advanced iBooks HTML 5 Widgets and iAd Rich Media Ads iAd Producer

Session 611 Chi Wai Lau Software Engineer

These are confidential sessions—please refrain from streaming, blogging, or taking pictures

Mark Malone iAd Technology Evangelist











Content customization

- Content customization
- Testing and debugging techniques

- Content customization
- Testing and debugging techniques
- Performance optimization

Content Customization









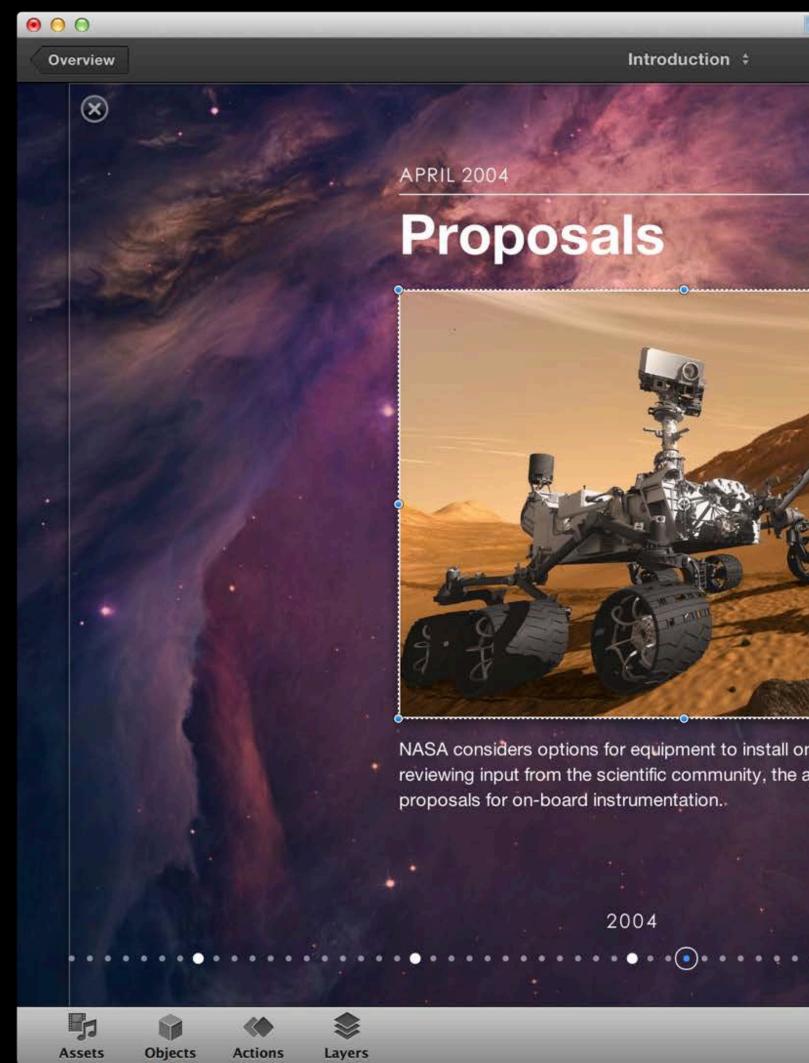




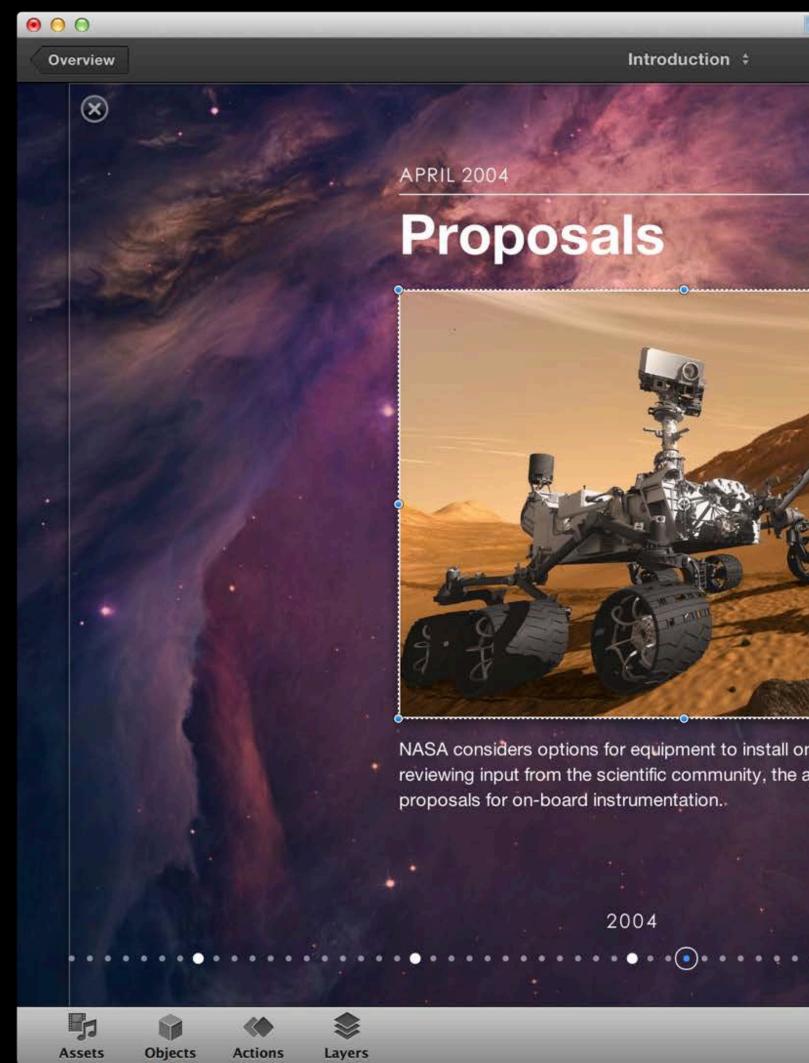








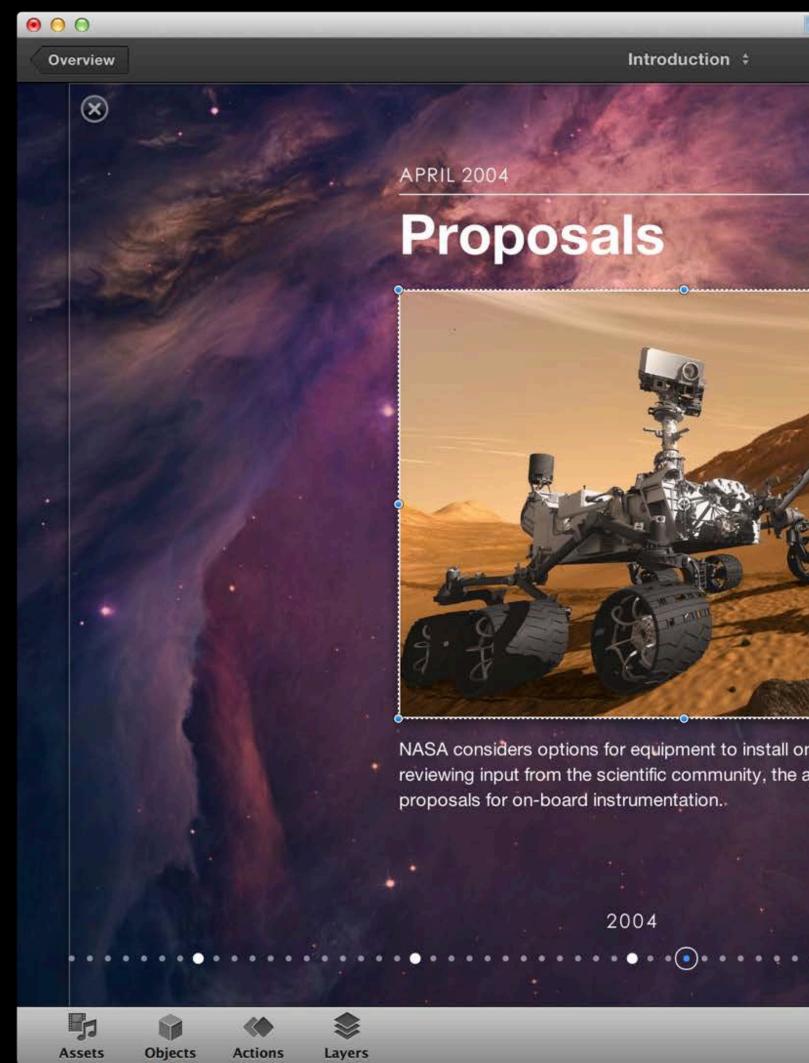
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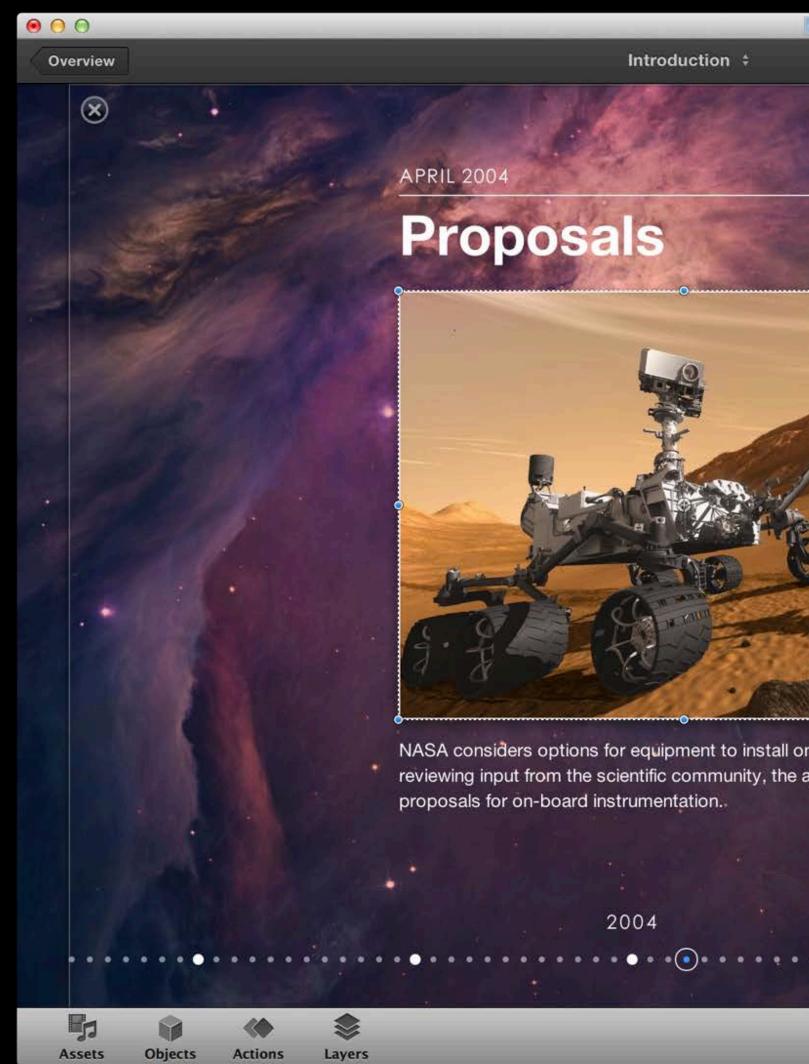
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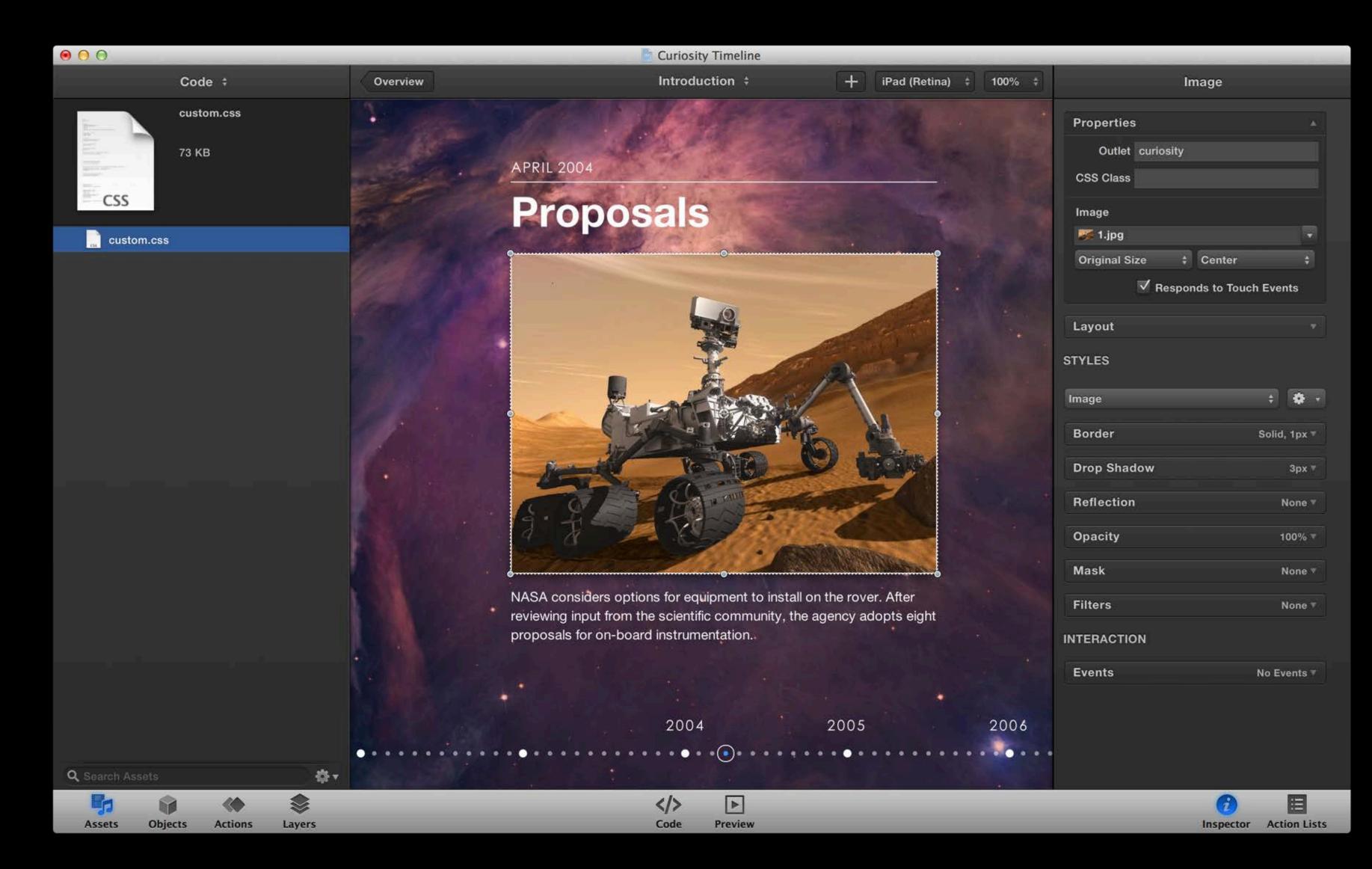
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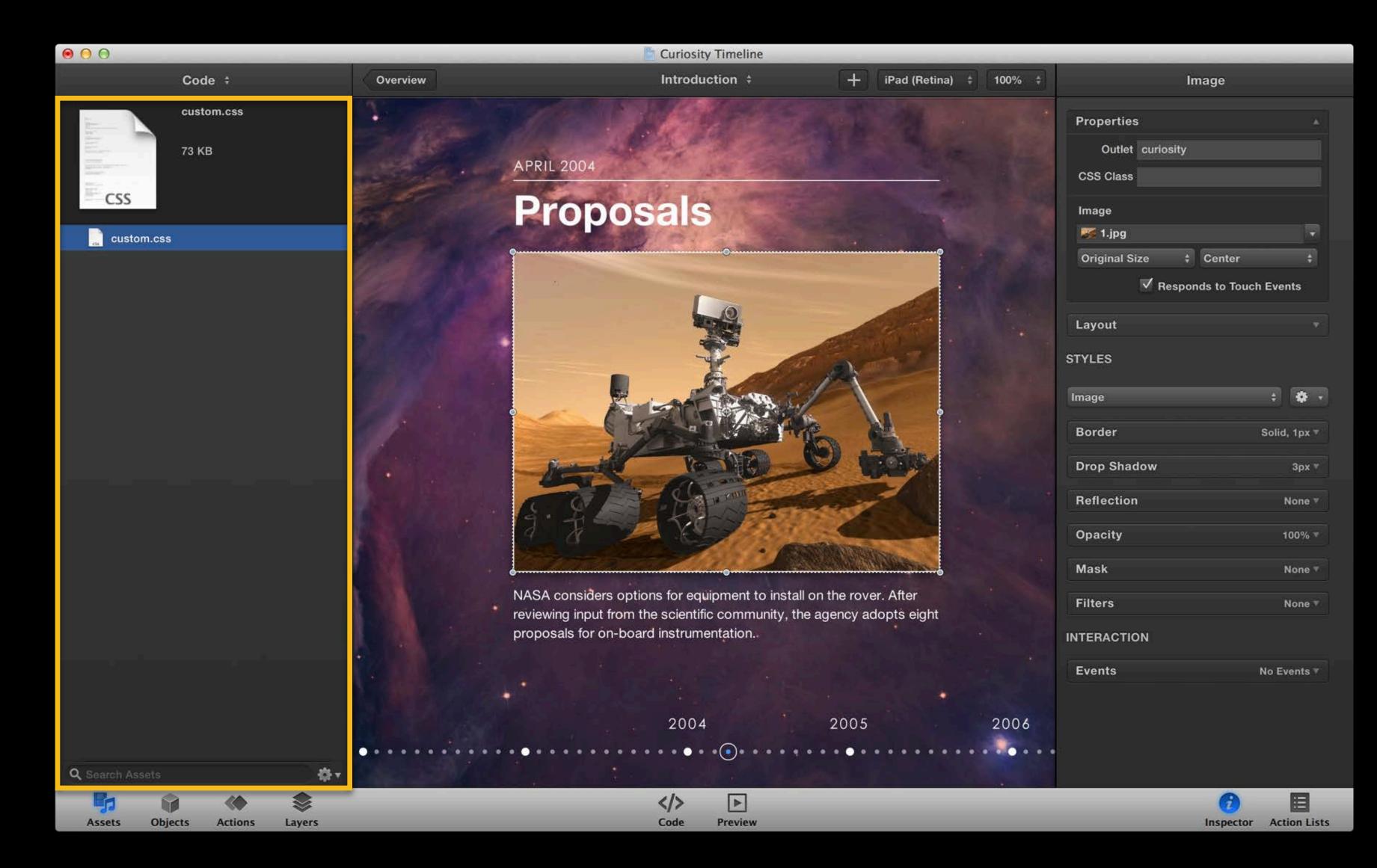


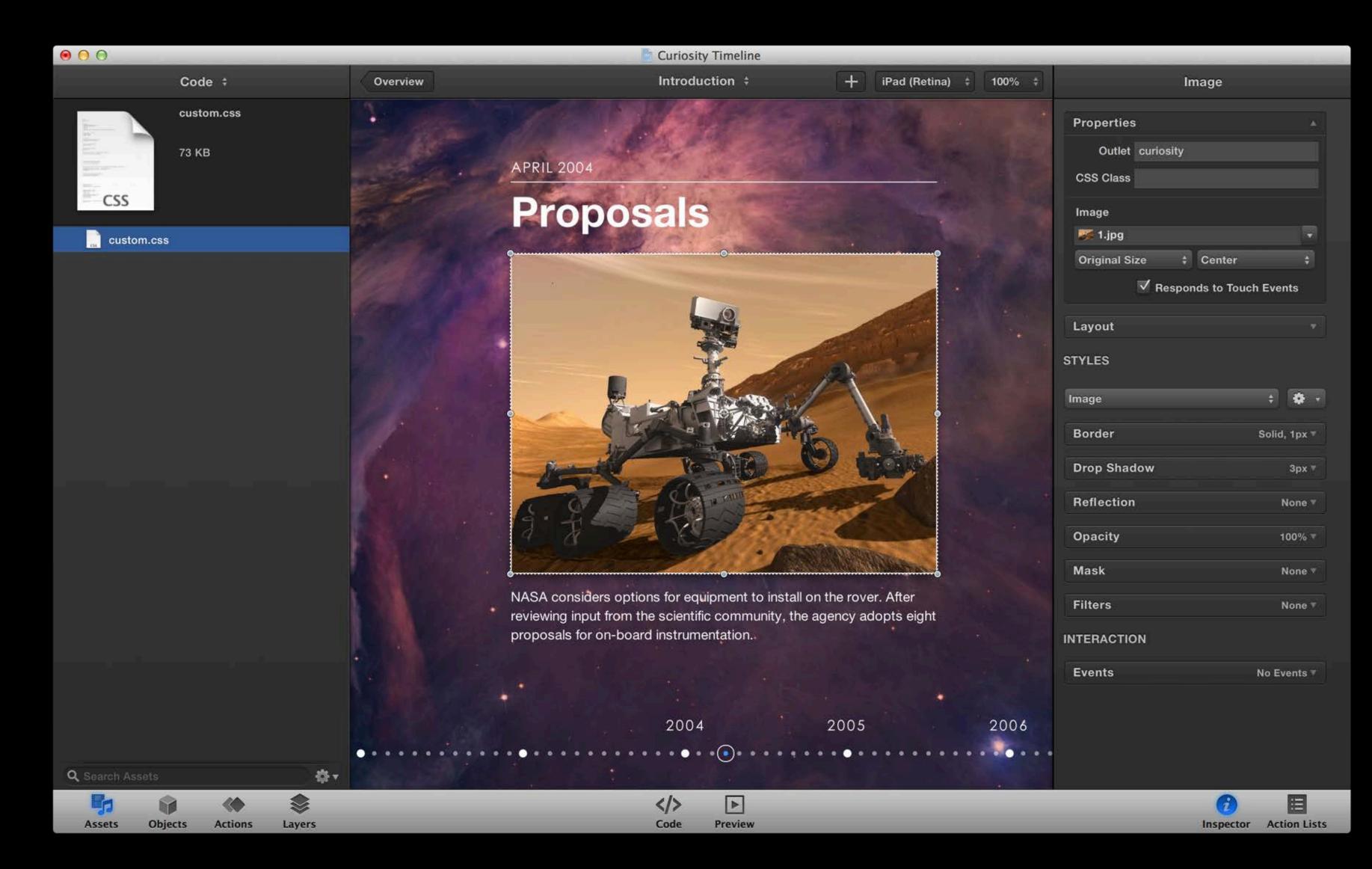
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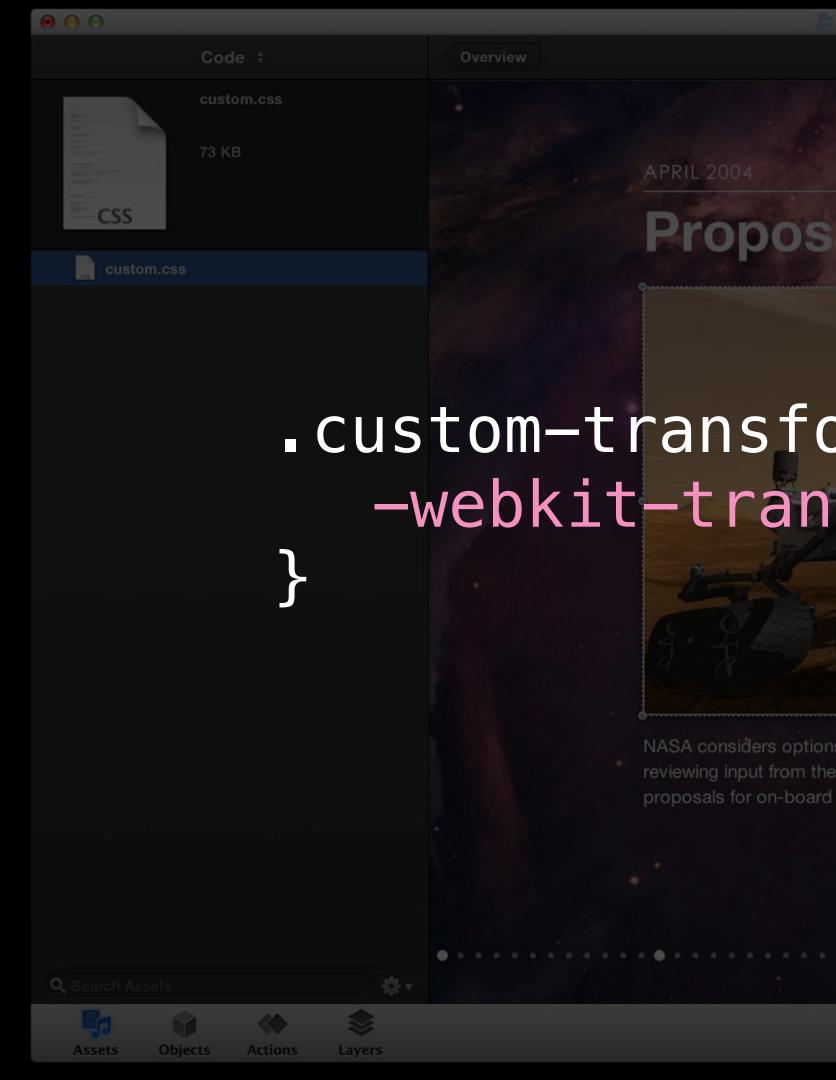


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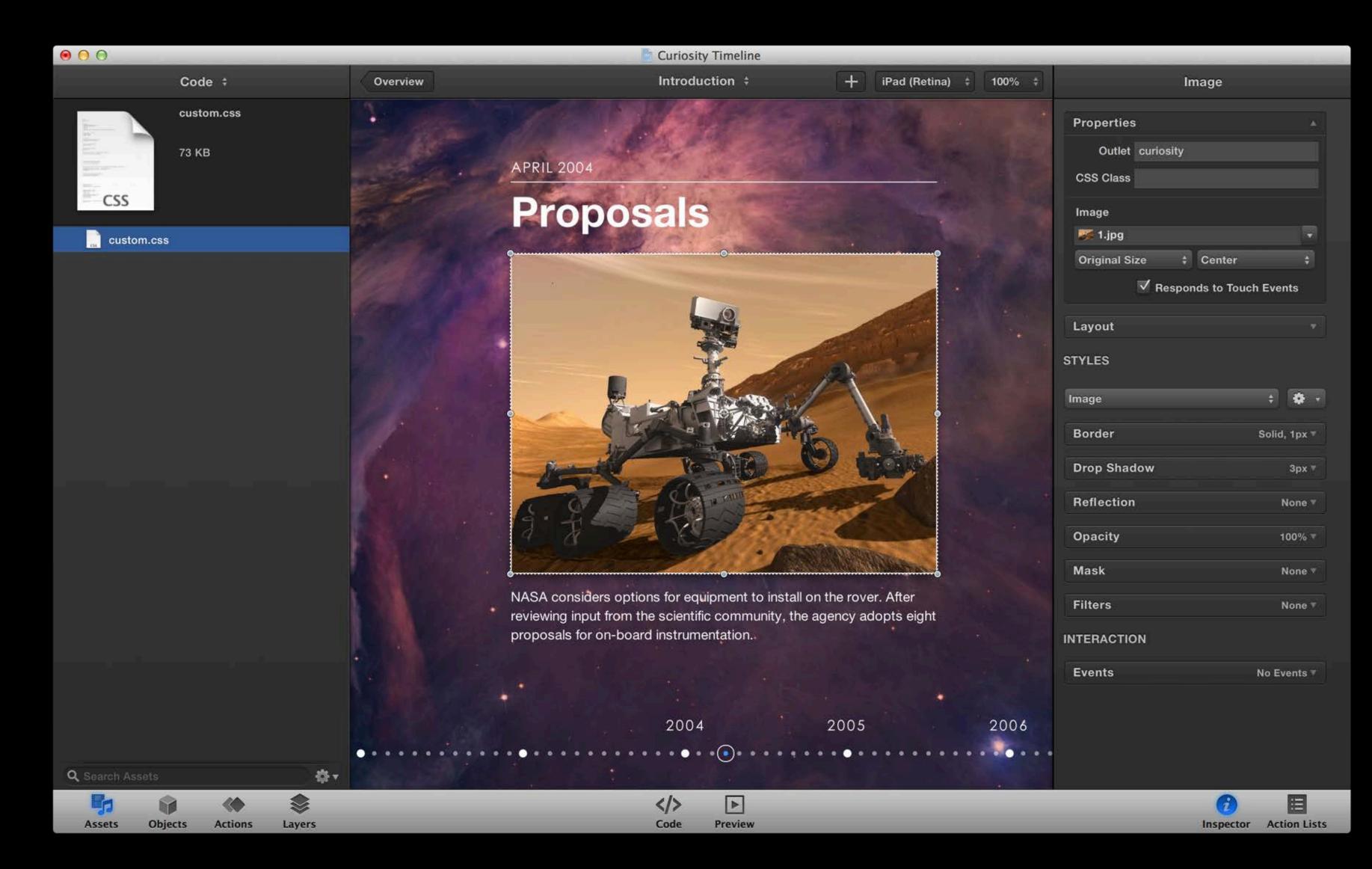


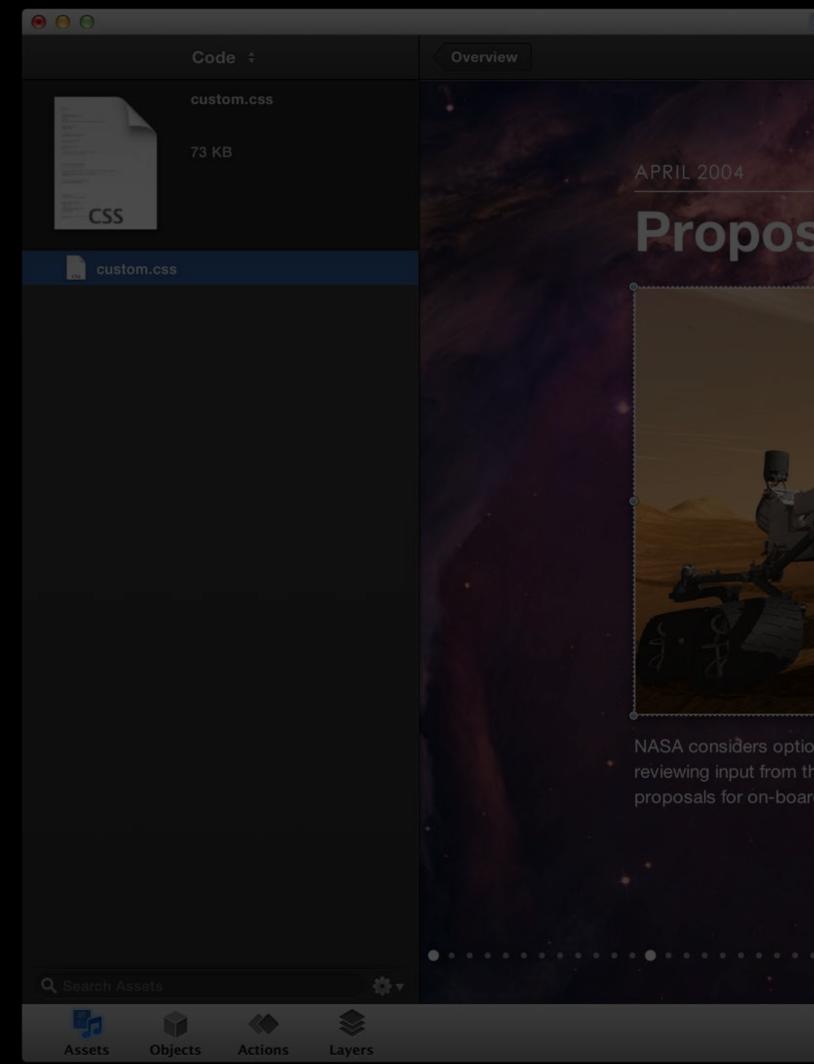






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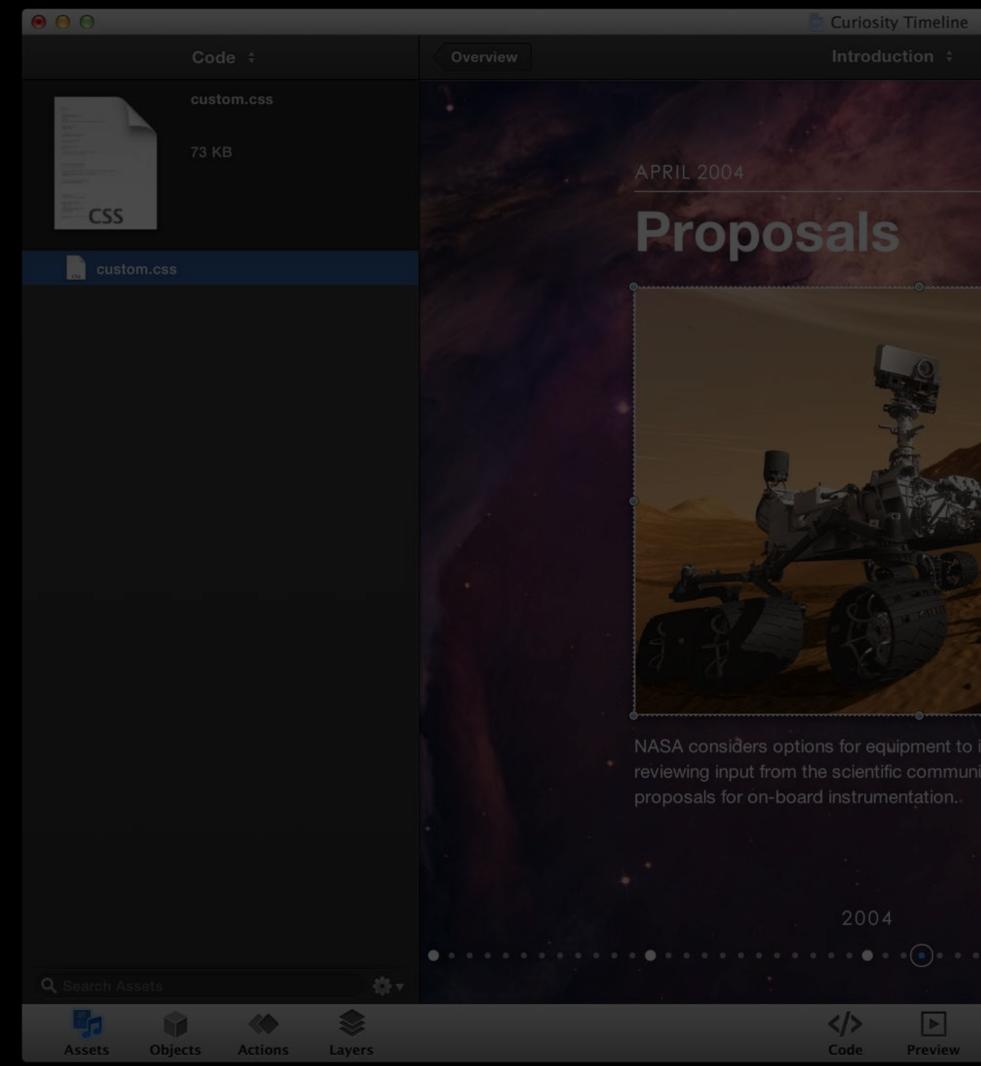
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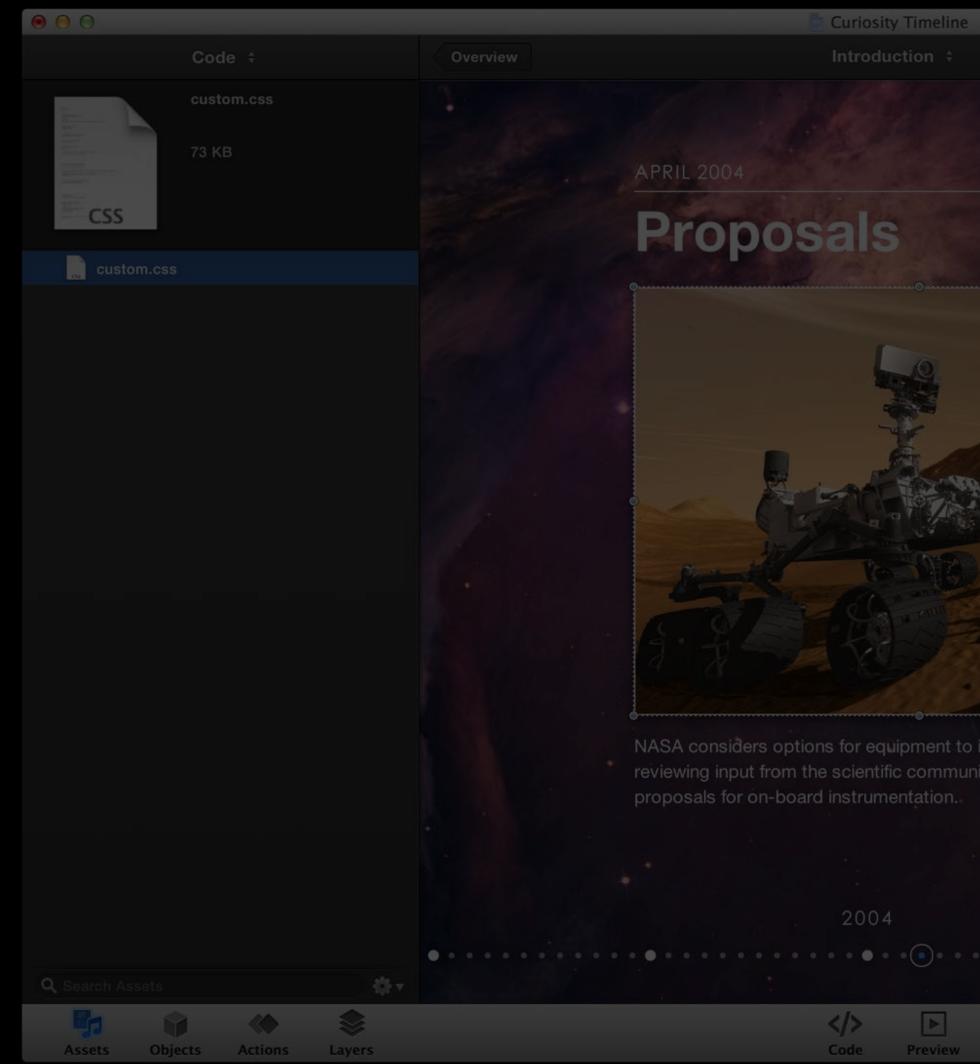
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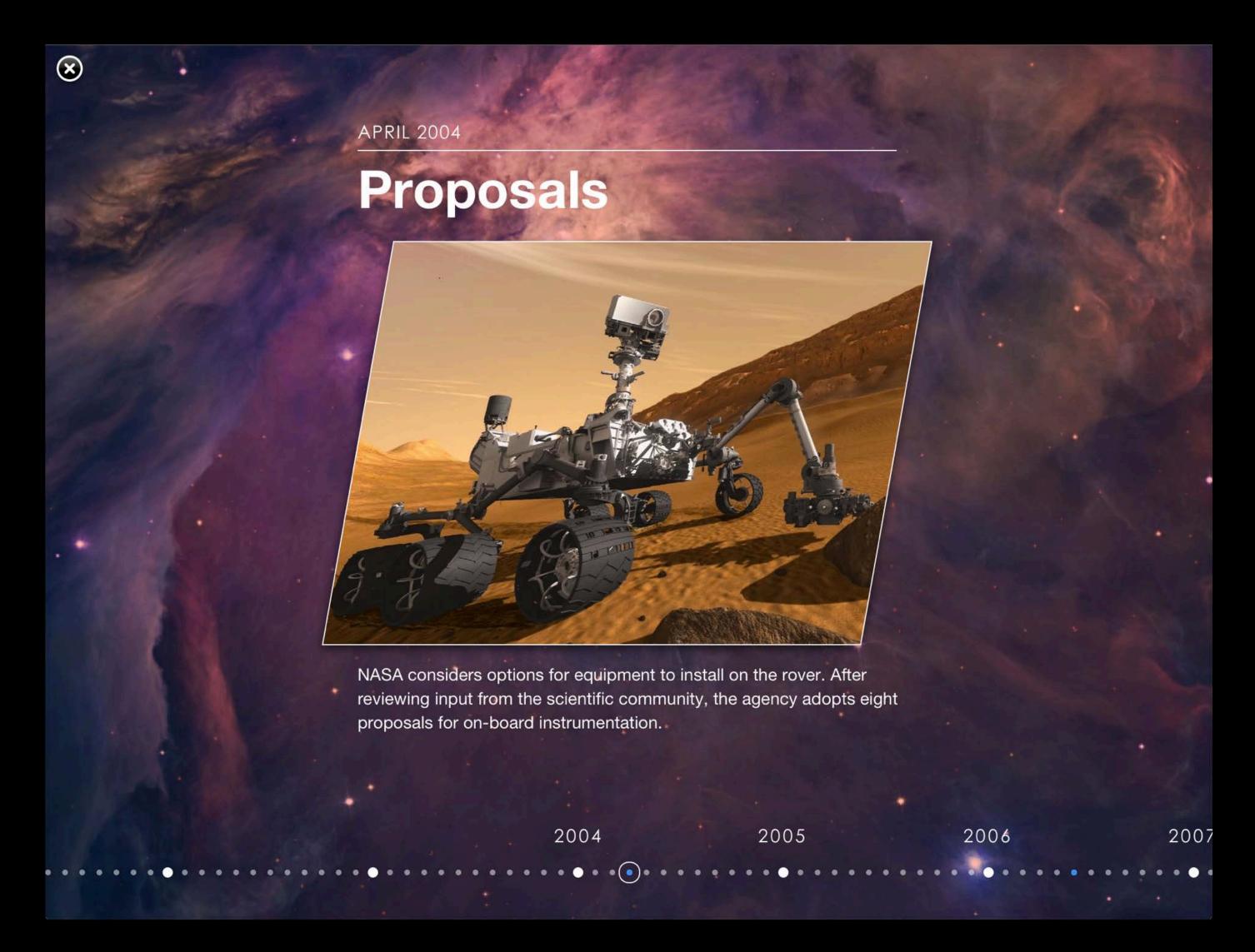
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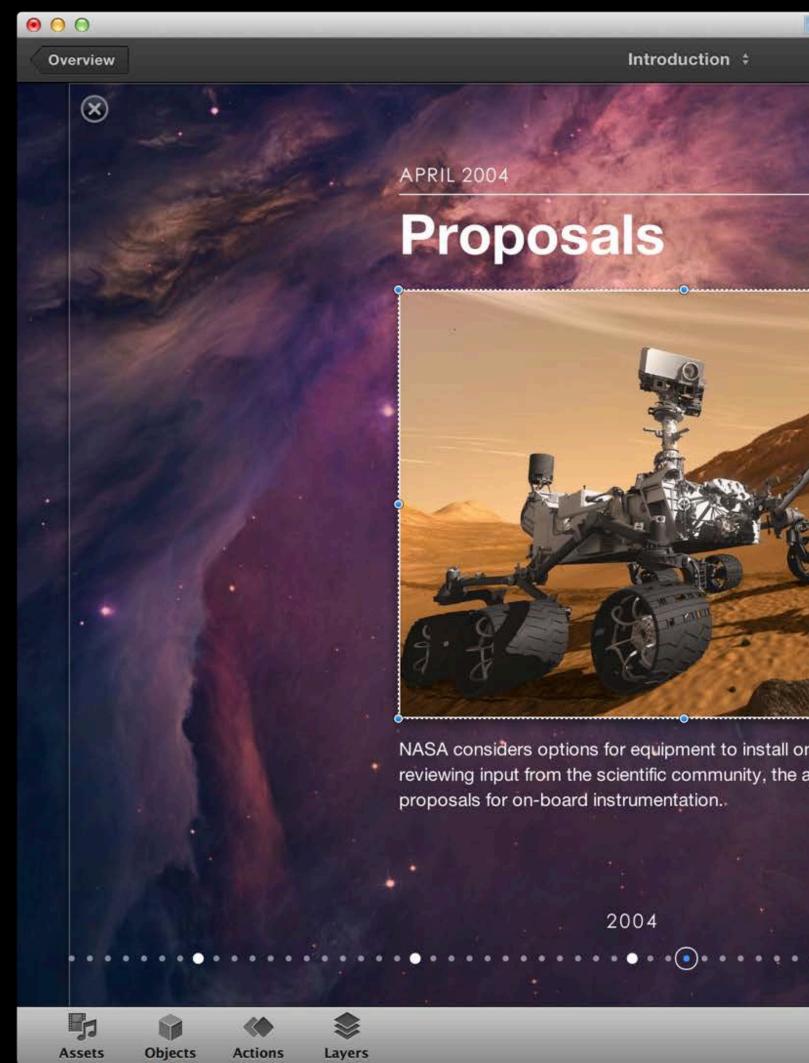
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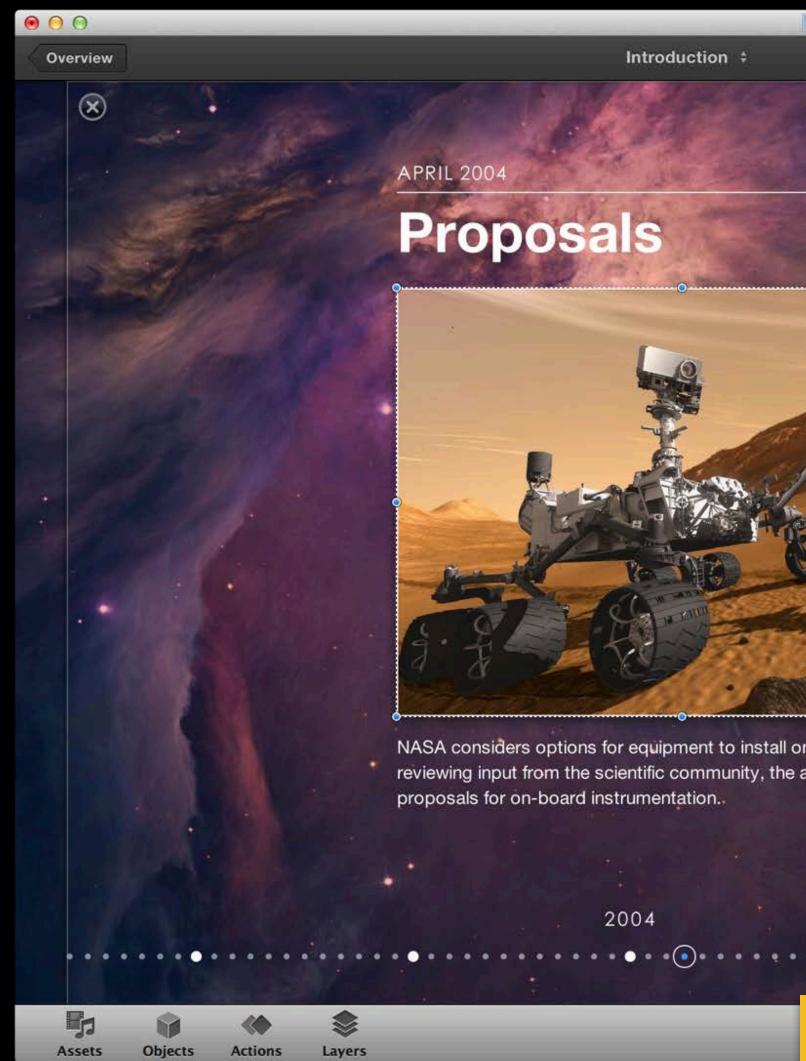
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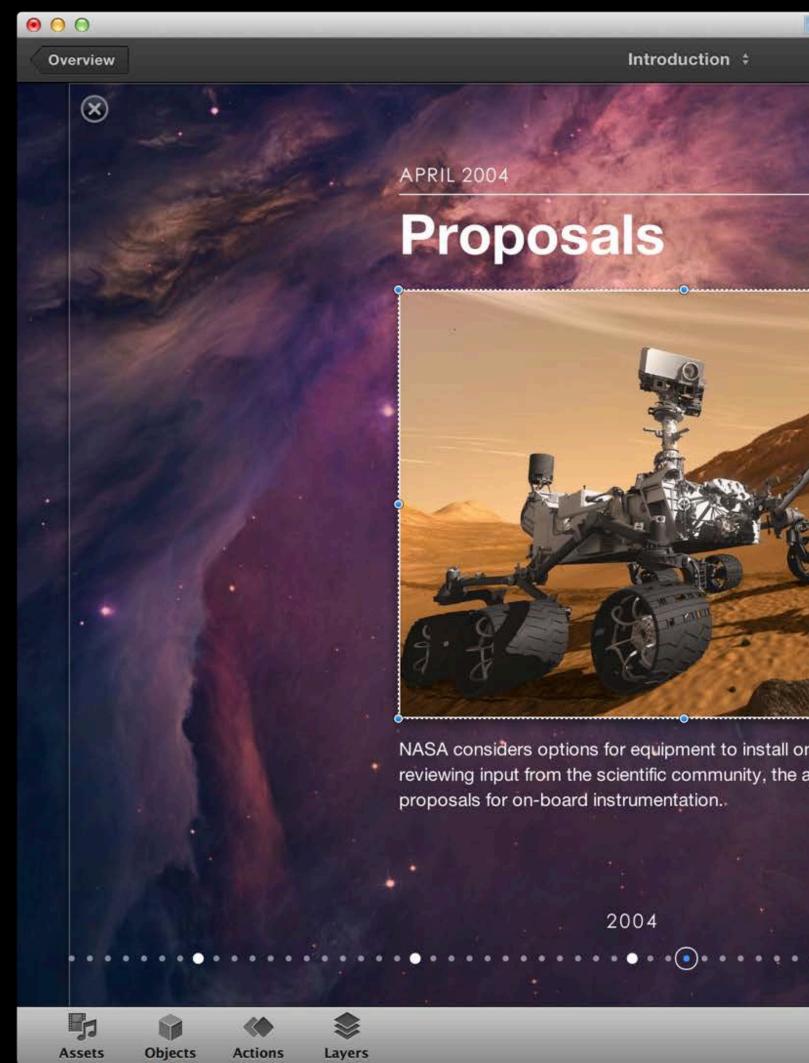




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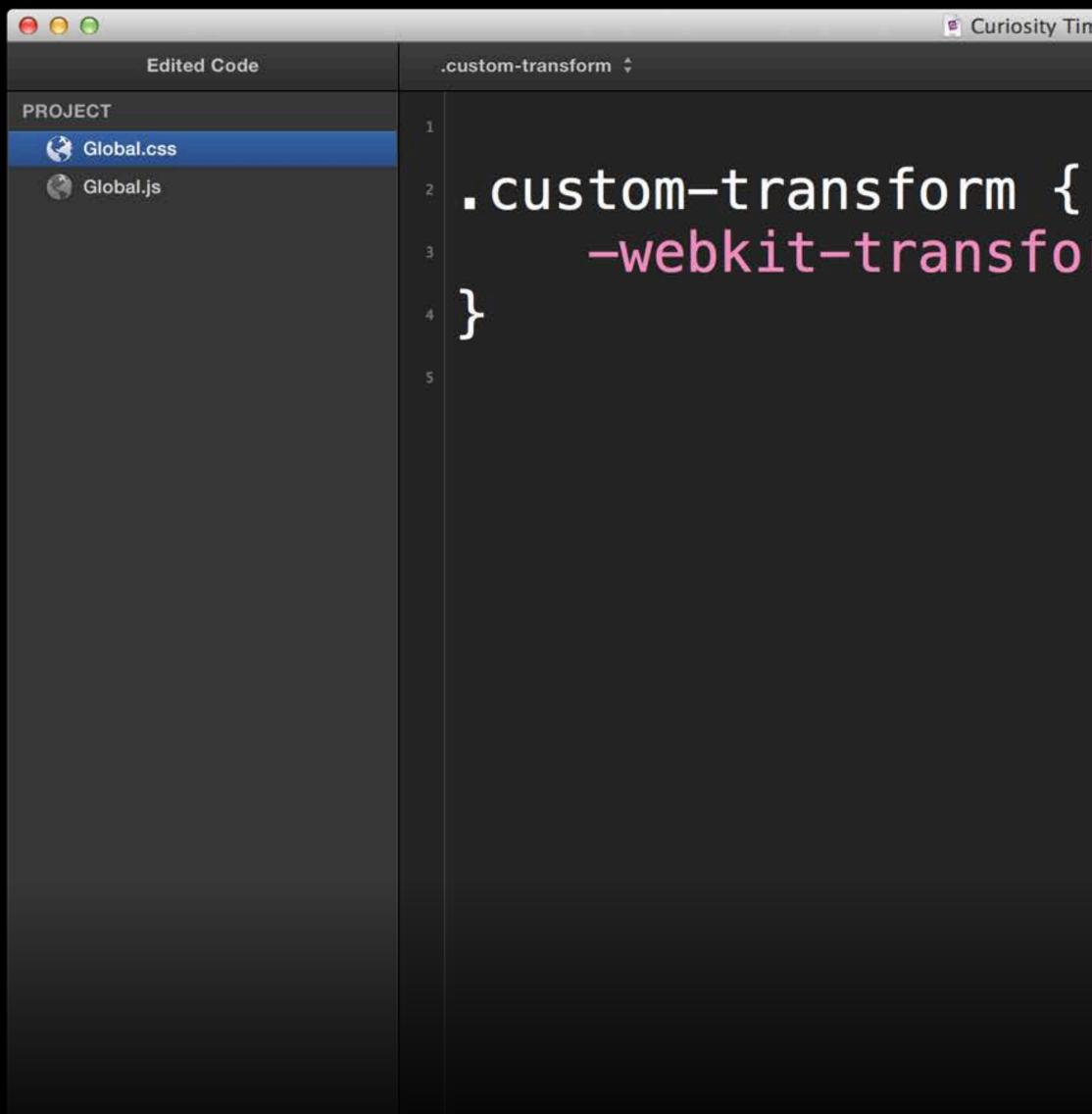
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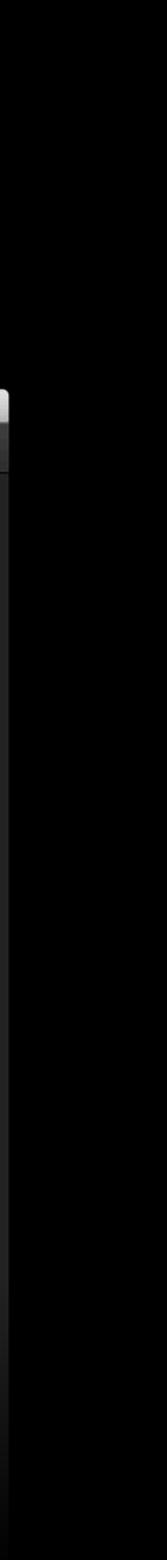
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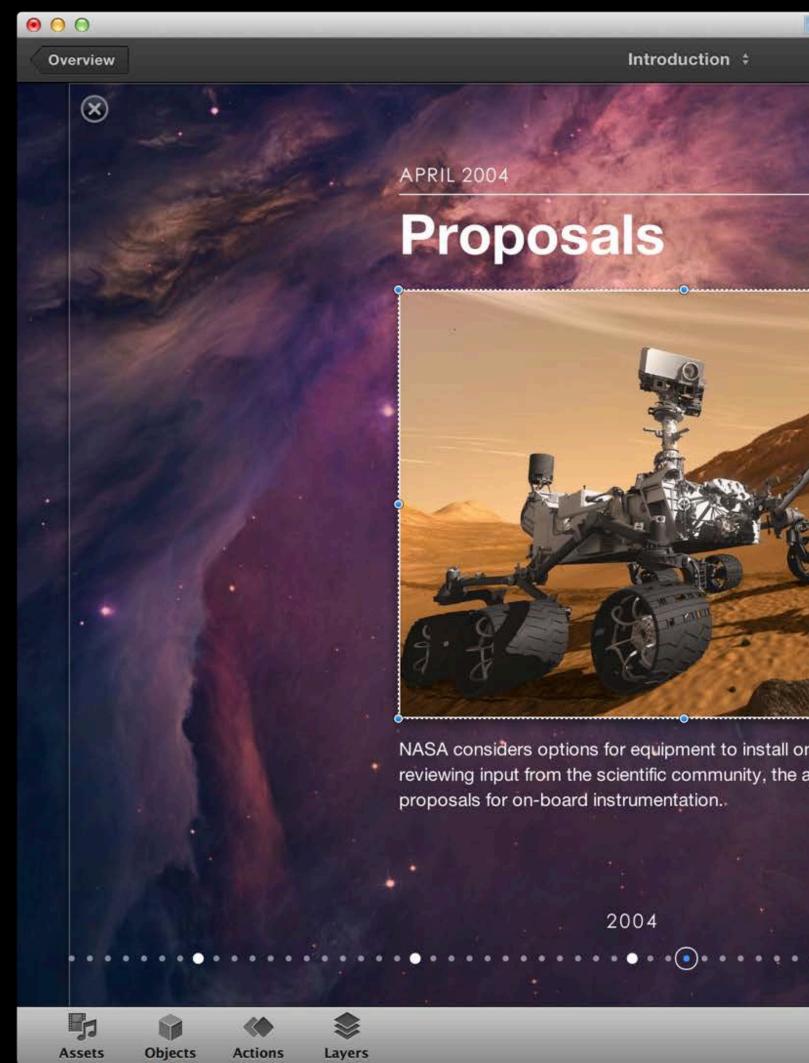


Curiosity Timeline - Global.css

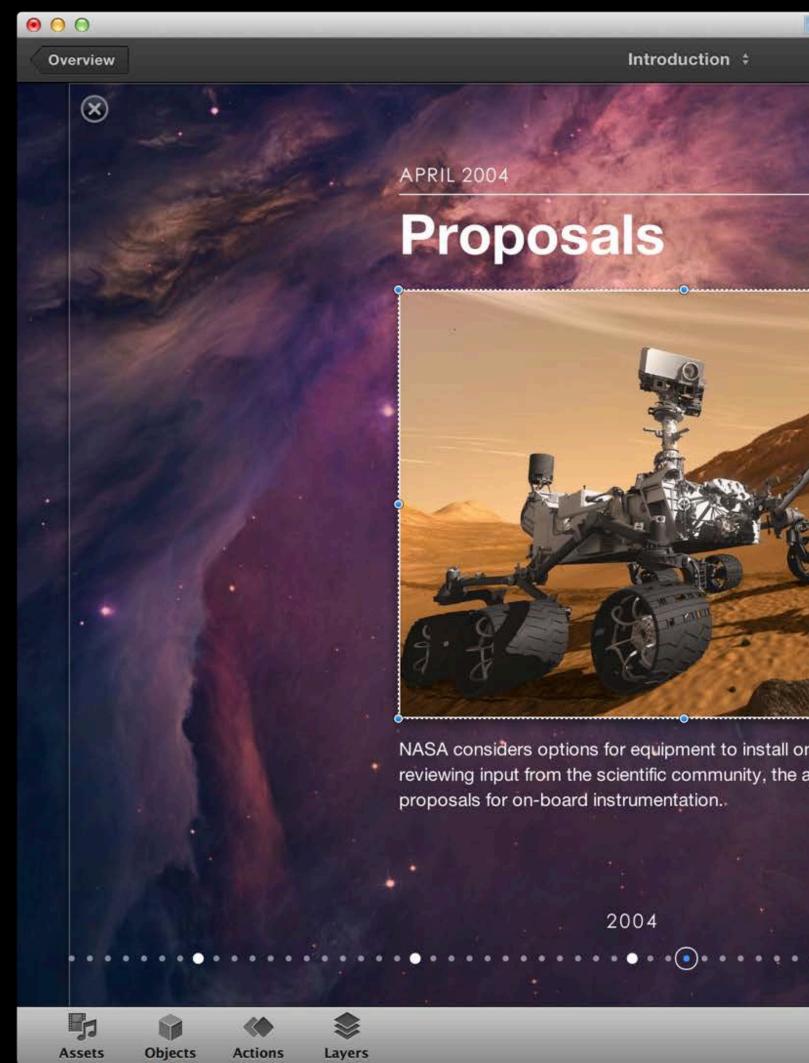
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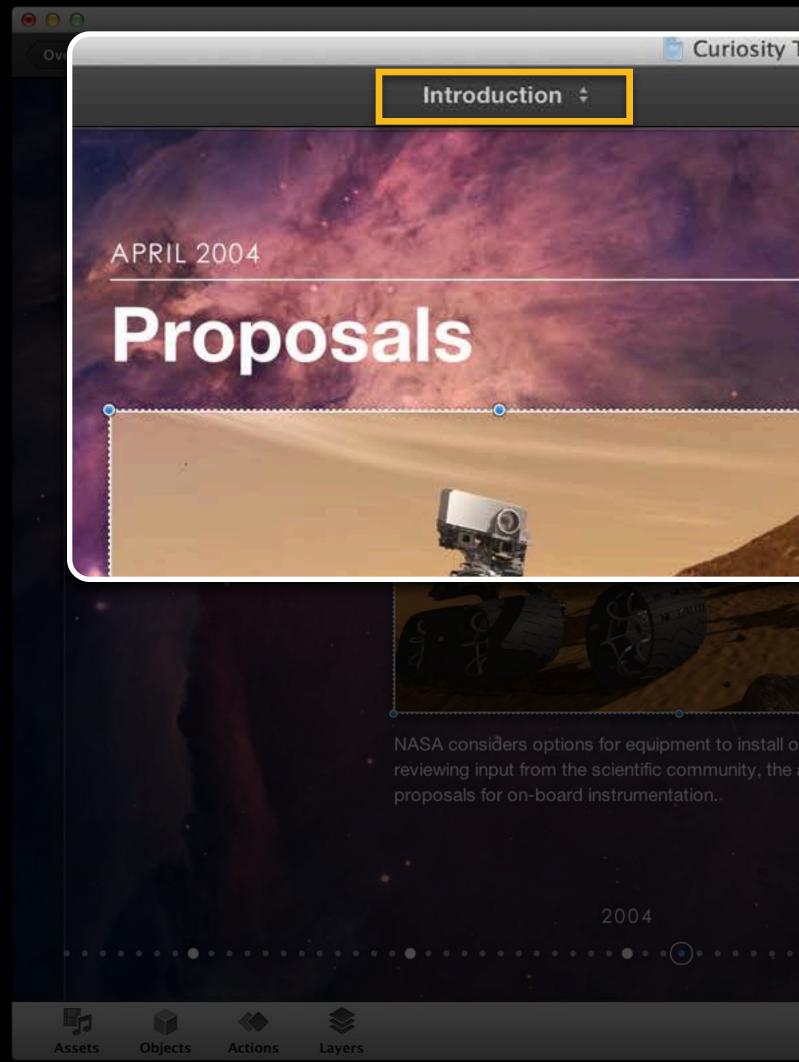
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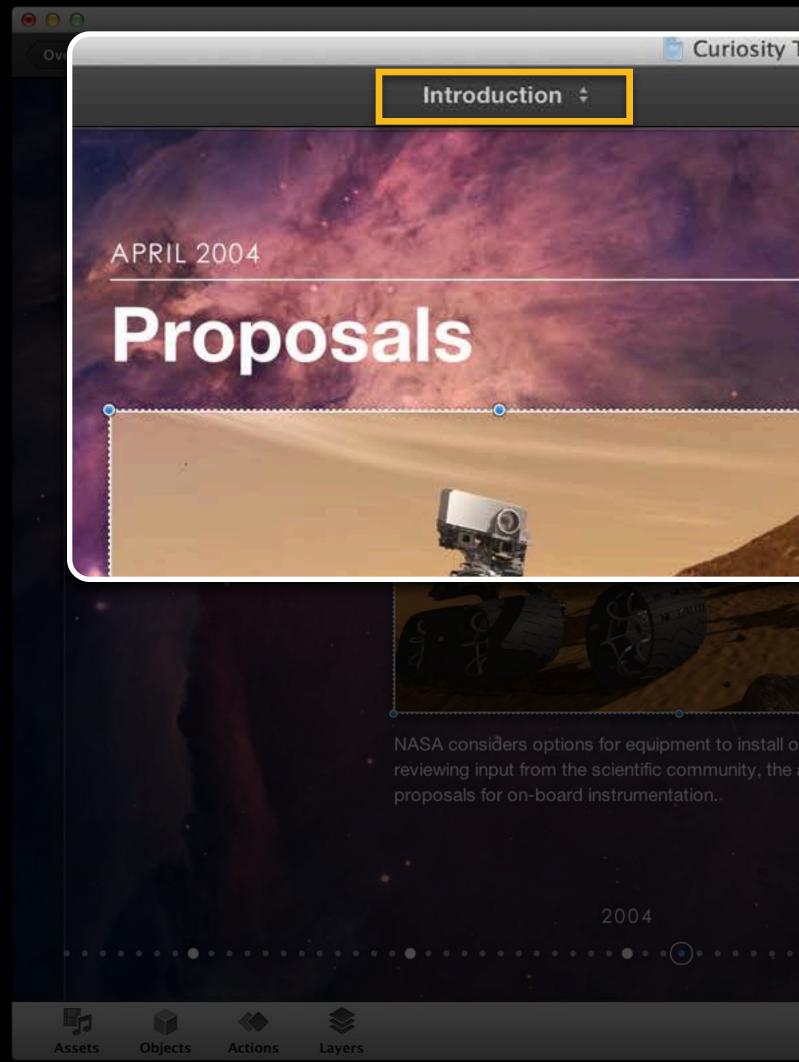
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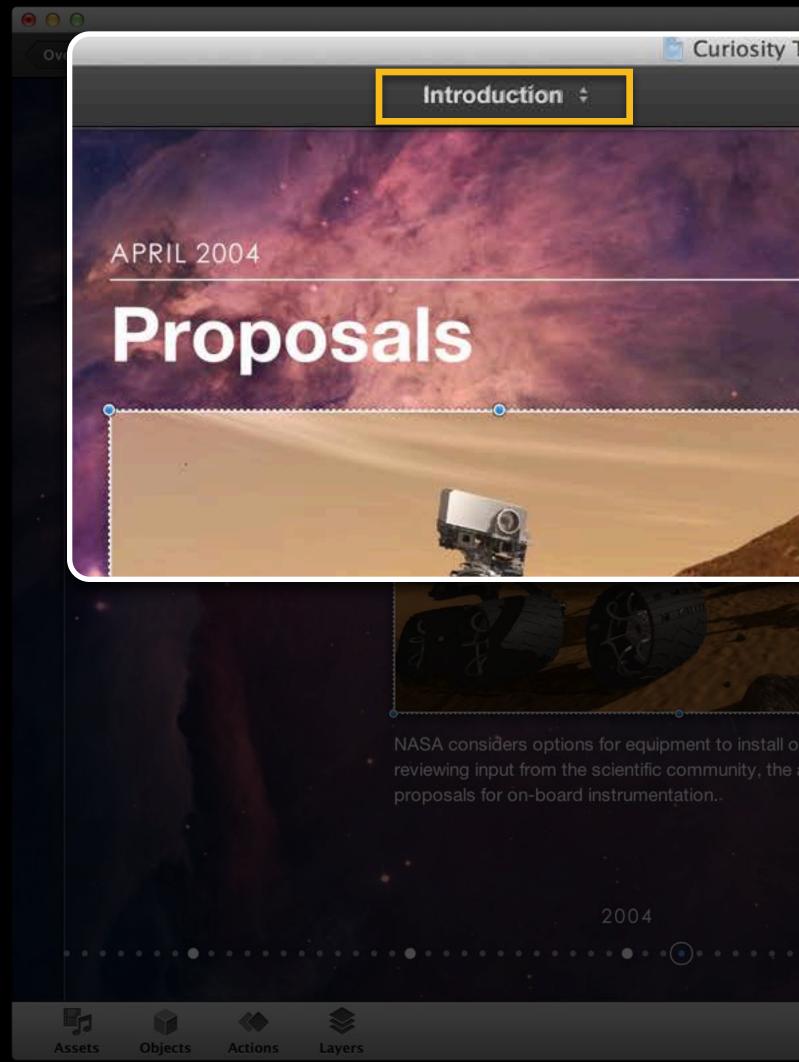


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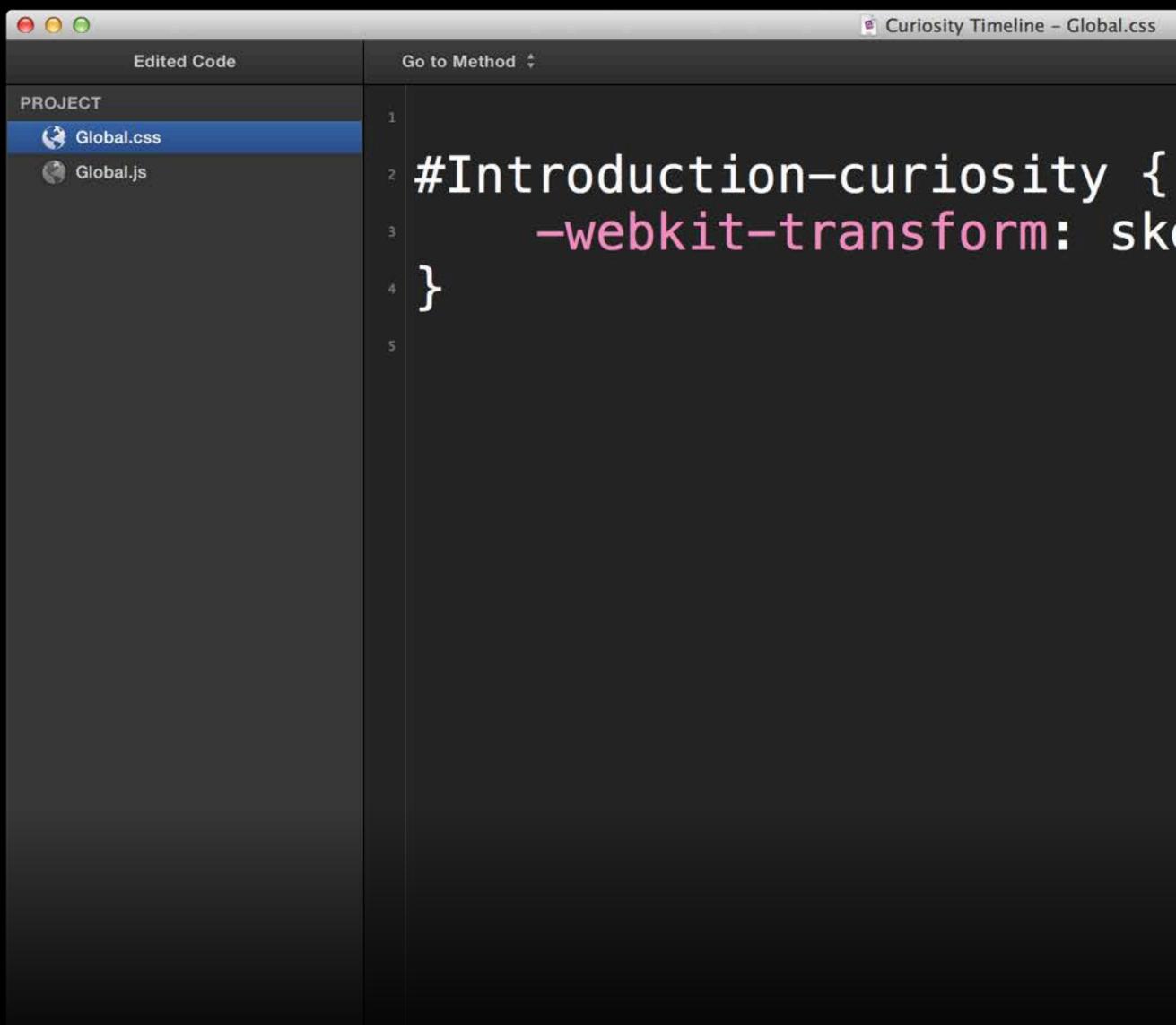


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CSS Customization Using code editor



Curiosity Timeline – Global.css

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-webkit-transform: skew(-10deg);





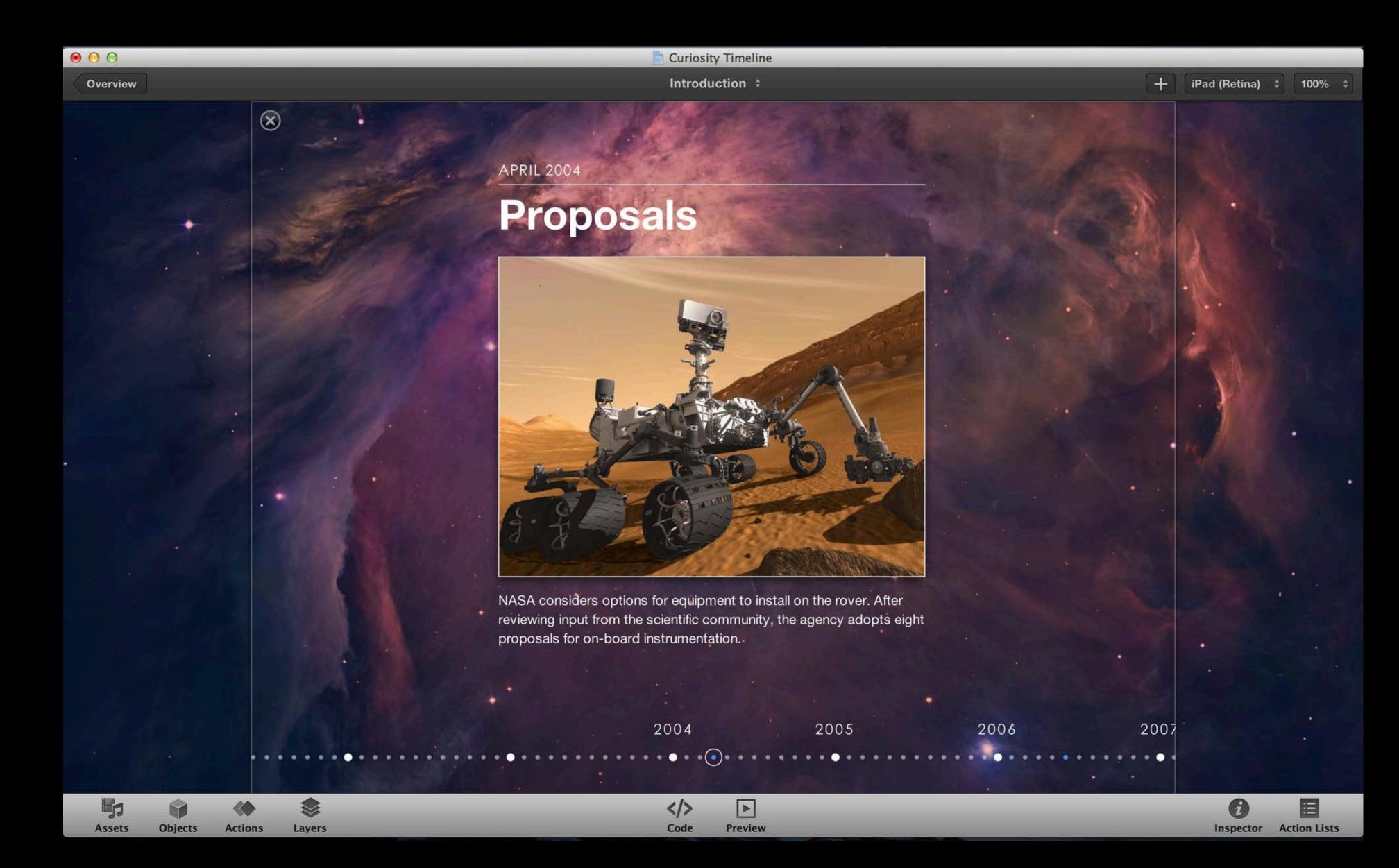


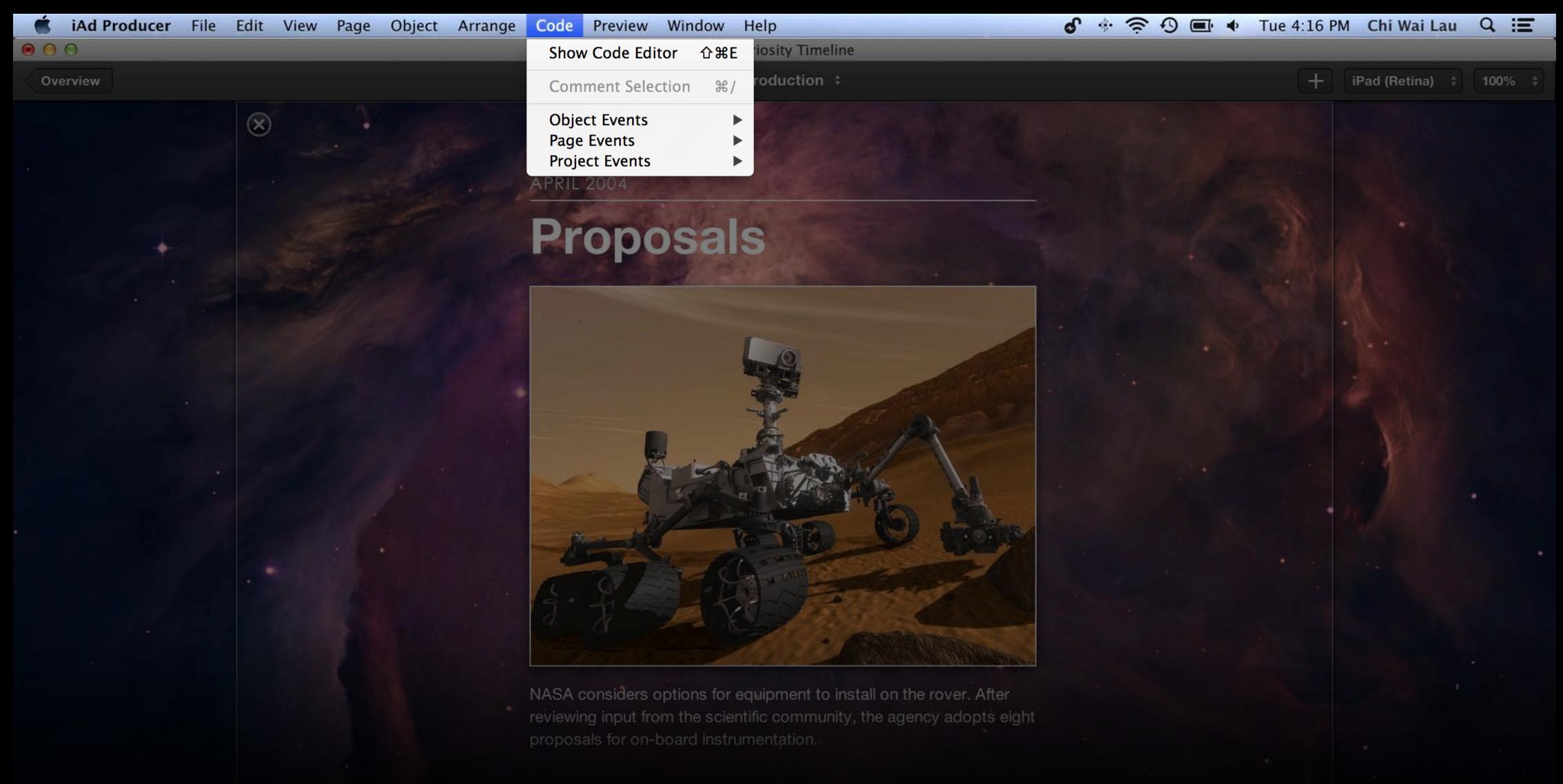


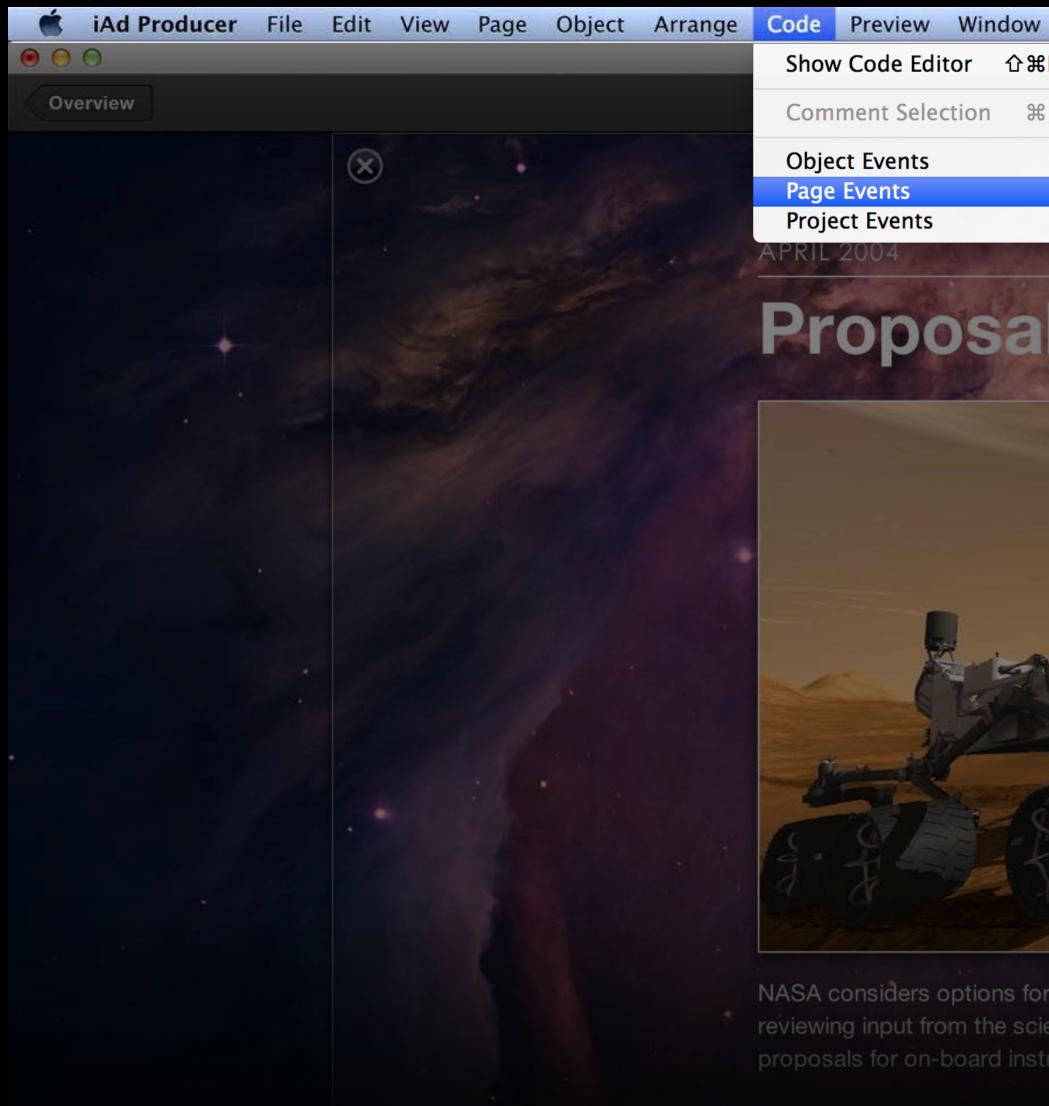




JS Customization The next level

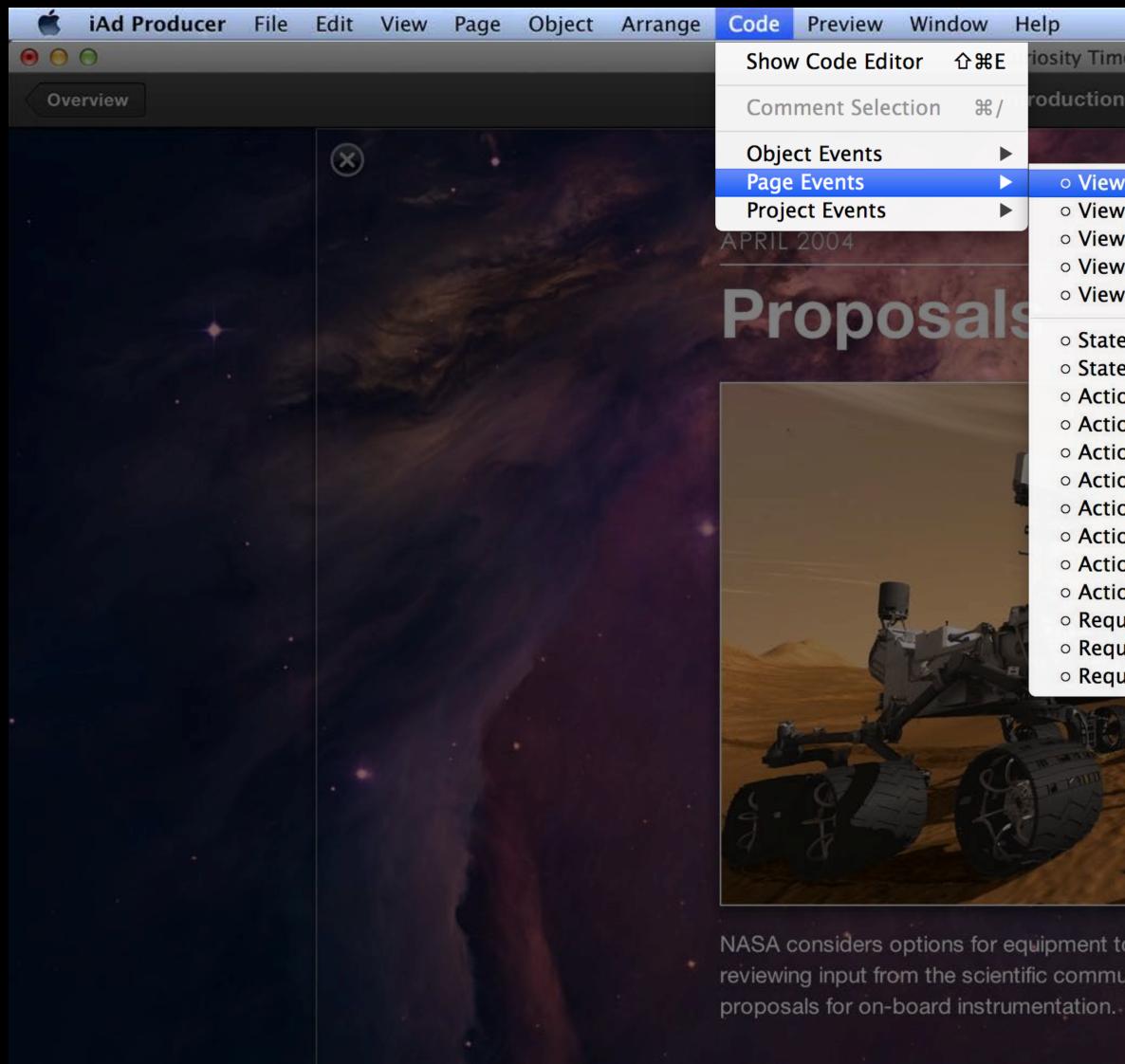






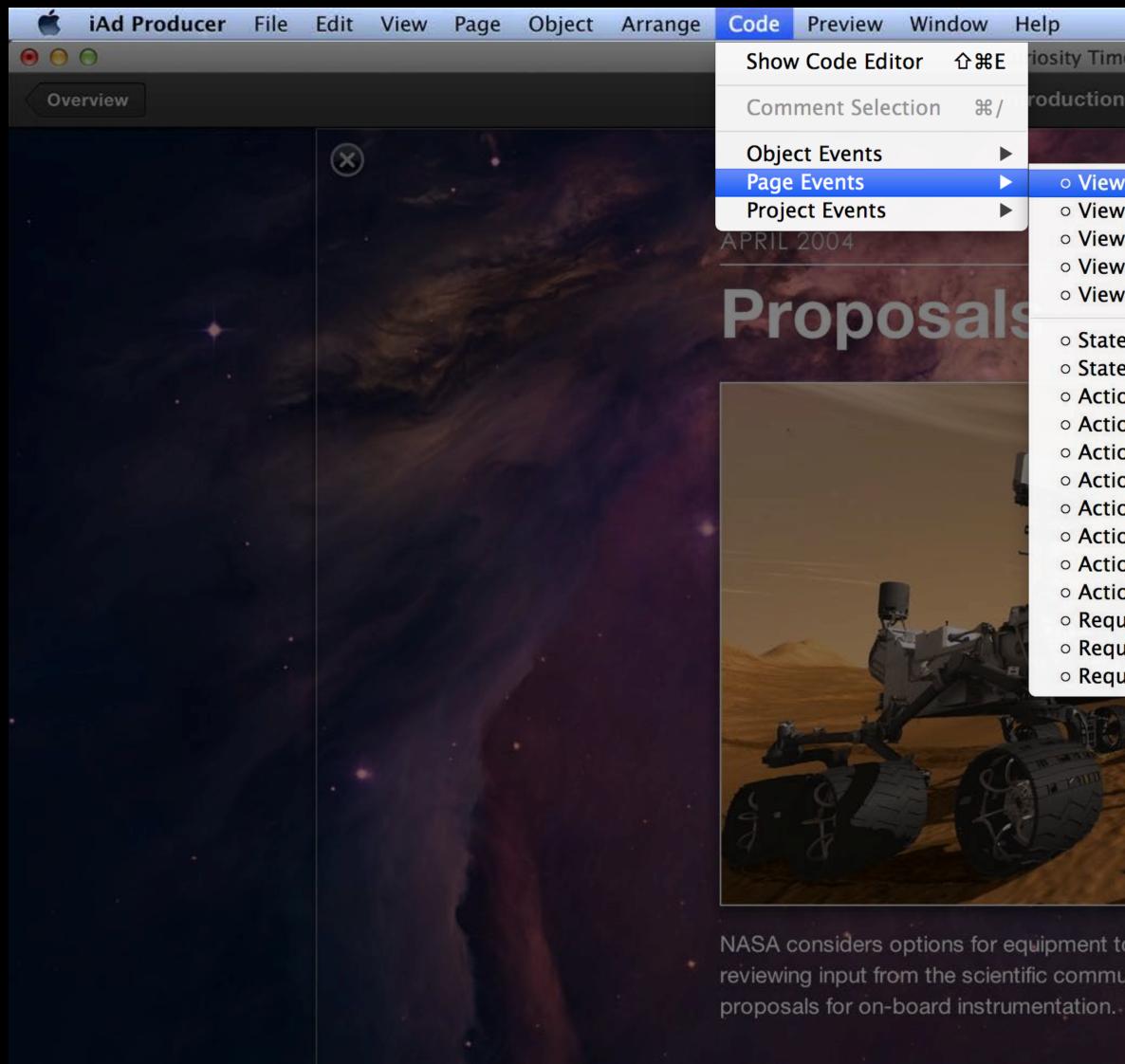
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NASA considers options for equipment to install on the rover. After reviewing input from the scientific community, the agency adopts eight proposals for on-board instrumentation.



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NASA considers options for equipment to install on the rover. After reviewing input from the scientific community, the agency adopts eight



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NASA considers options for equipment to install on the rover. After reviewing input from the scientific community, the agency adopts eight

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Edited Code	onViewControllerViewDidLoad ‡
PROJECT © Global.css © Page 1 Page1.js	<pre>/* This is an iAd Produ Declaring a local variable this.localVar = "foo"; Declaring a global variable window.globalVar = "bar"; */ this.onViewControllerViewD // Code here for the " // Called when the page page content here. }; </pre>

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Add Event Handler V Documentation V

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1

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idLoad = function (event) {
View Did Load" event.
e has loaded. Perform additional initialization of

XMLHTTPRequest

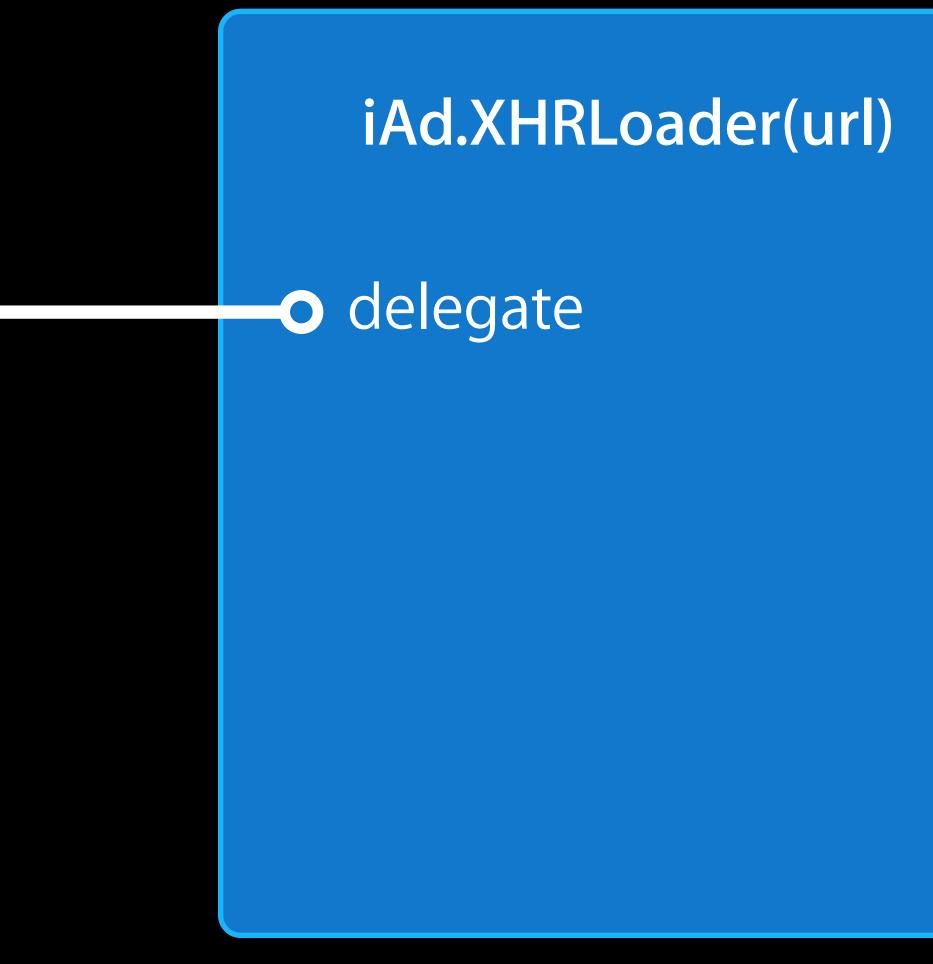
iAd.XHRLoader

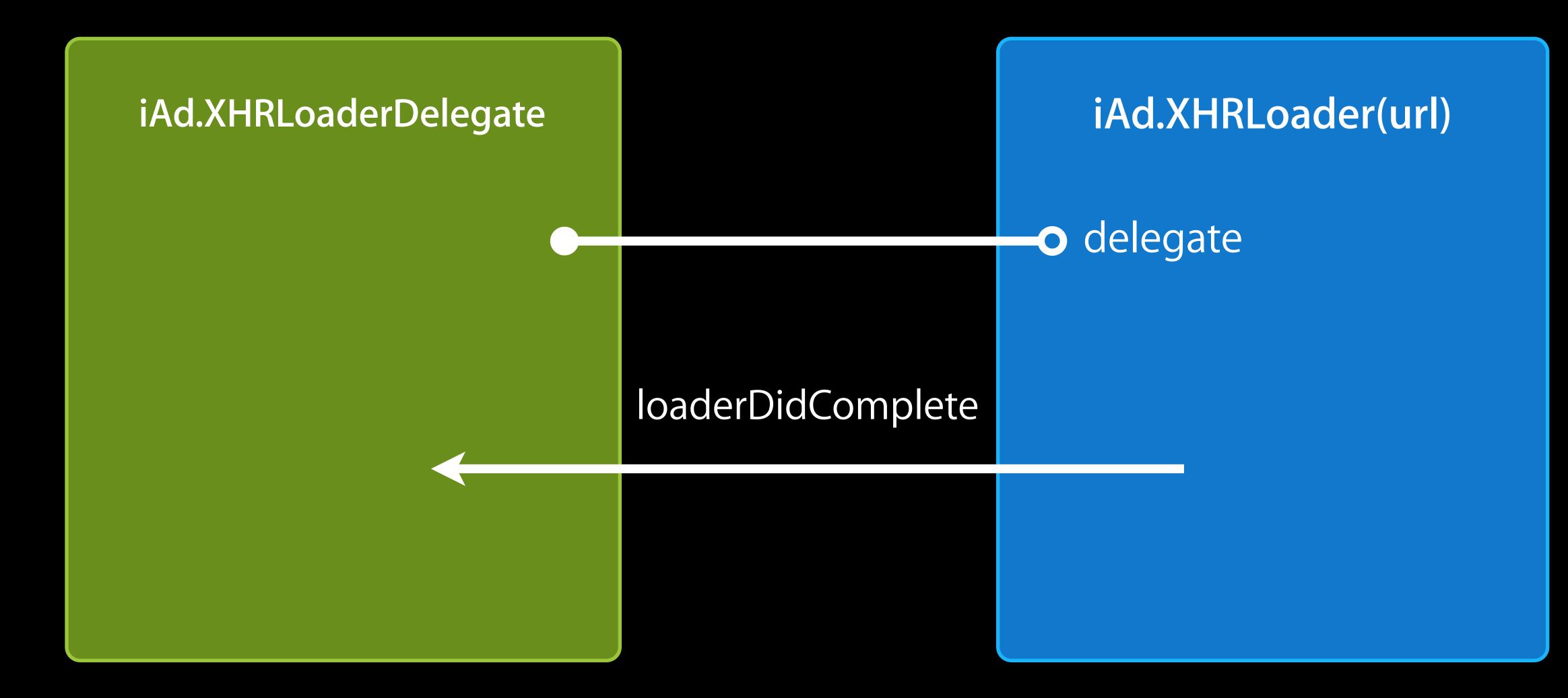
iAd.XHRLoader(url)

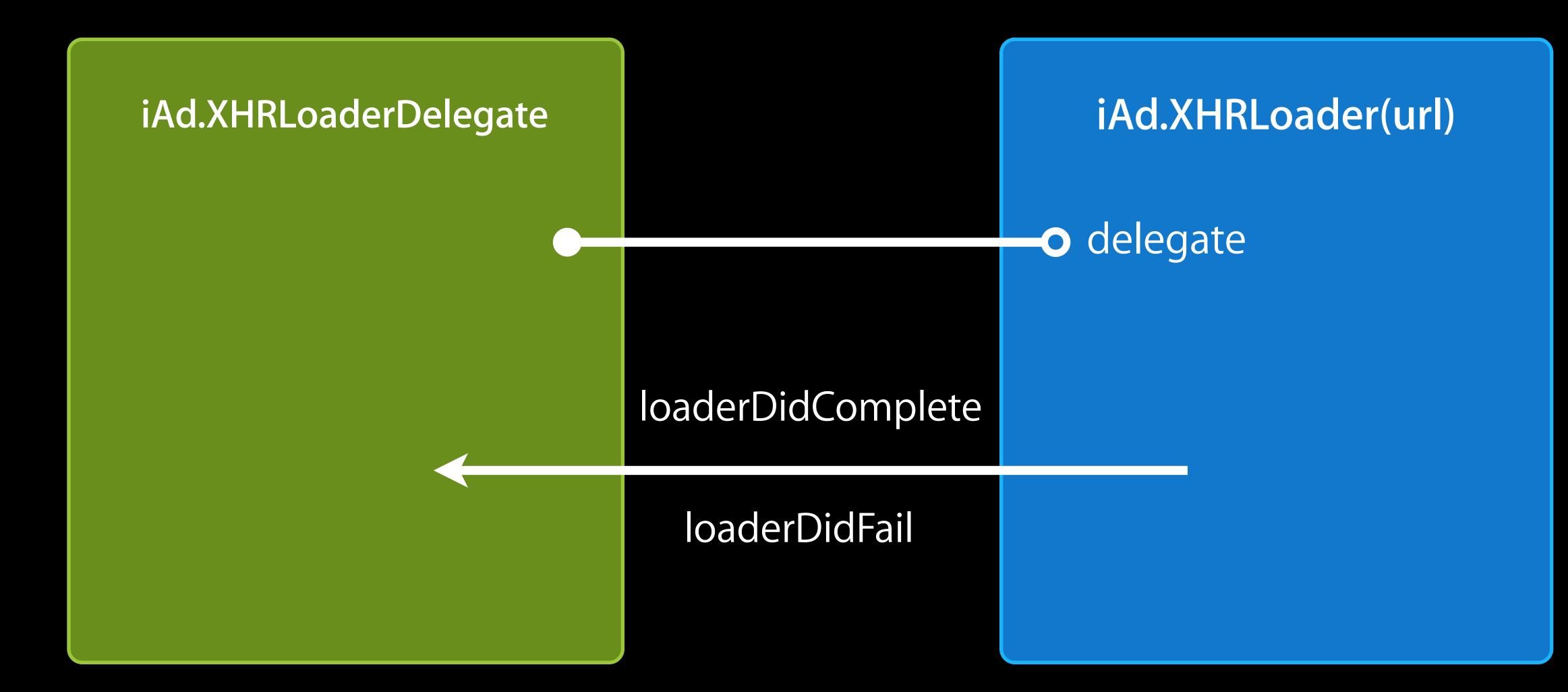
iAd.XHRLoader(url)

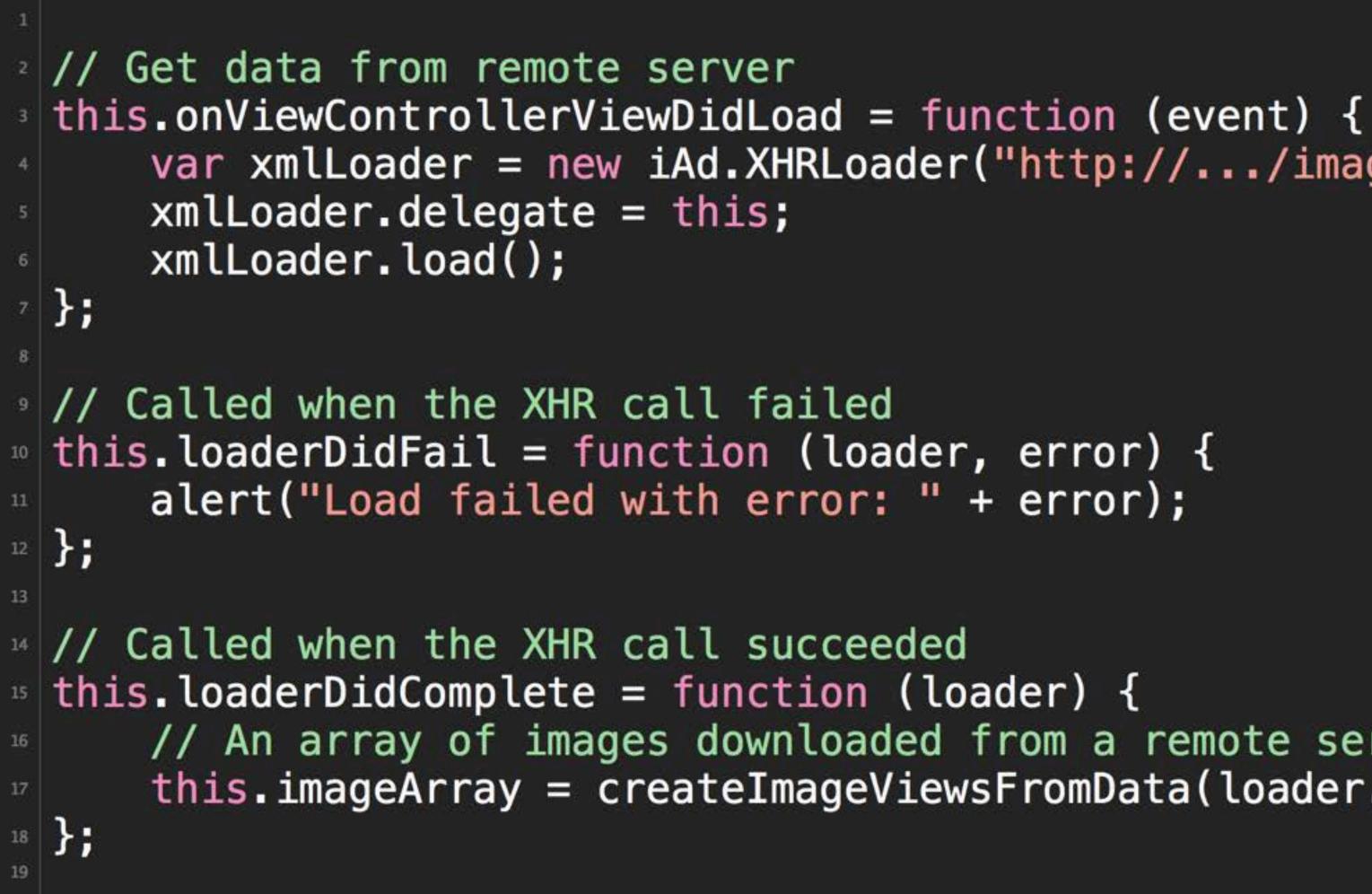
• delegate

iAd.XHRLoaderDelegate



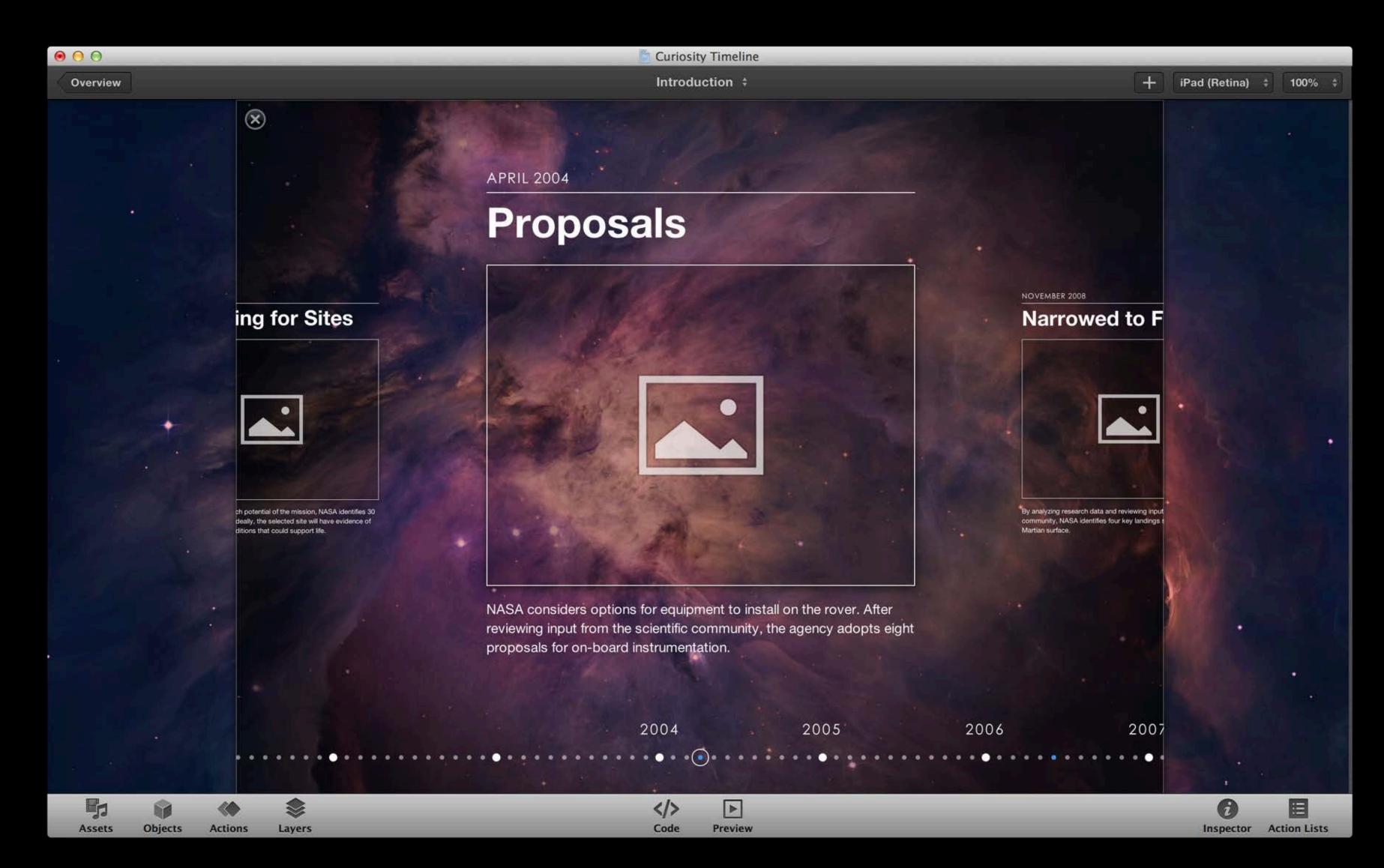


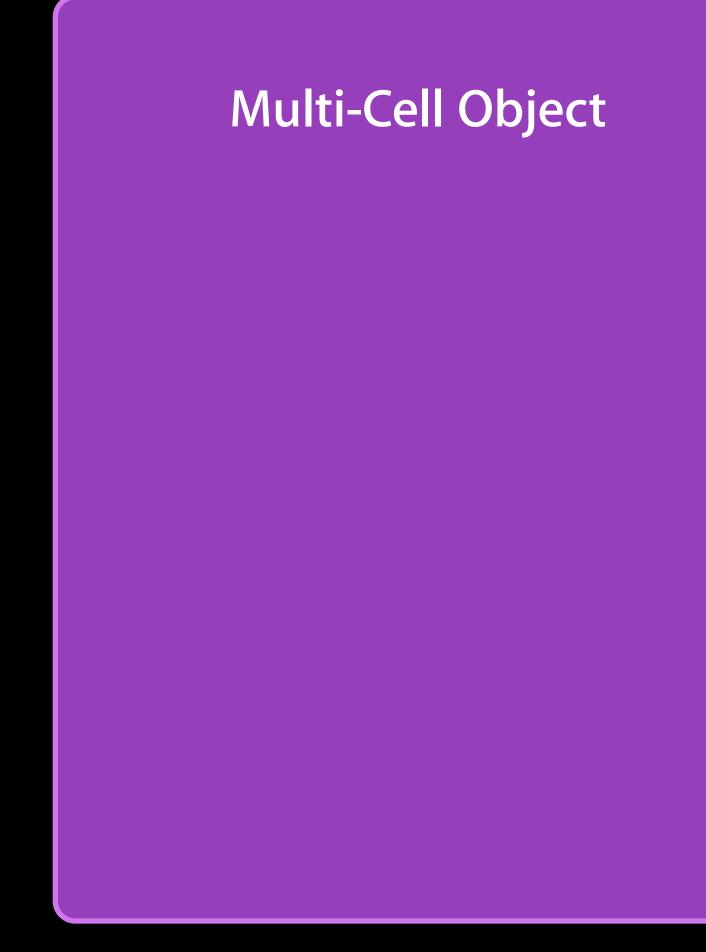




```
var xmlLoader = new iAd.XHRLoader("http://.../images");
```

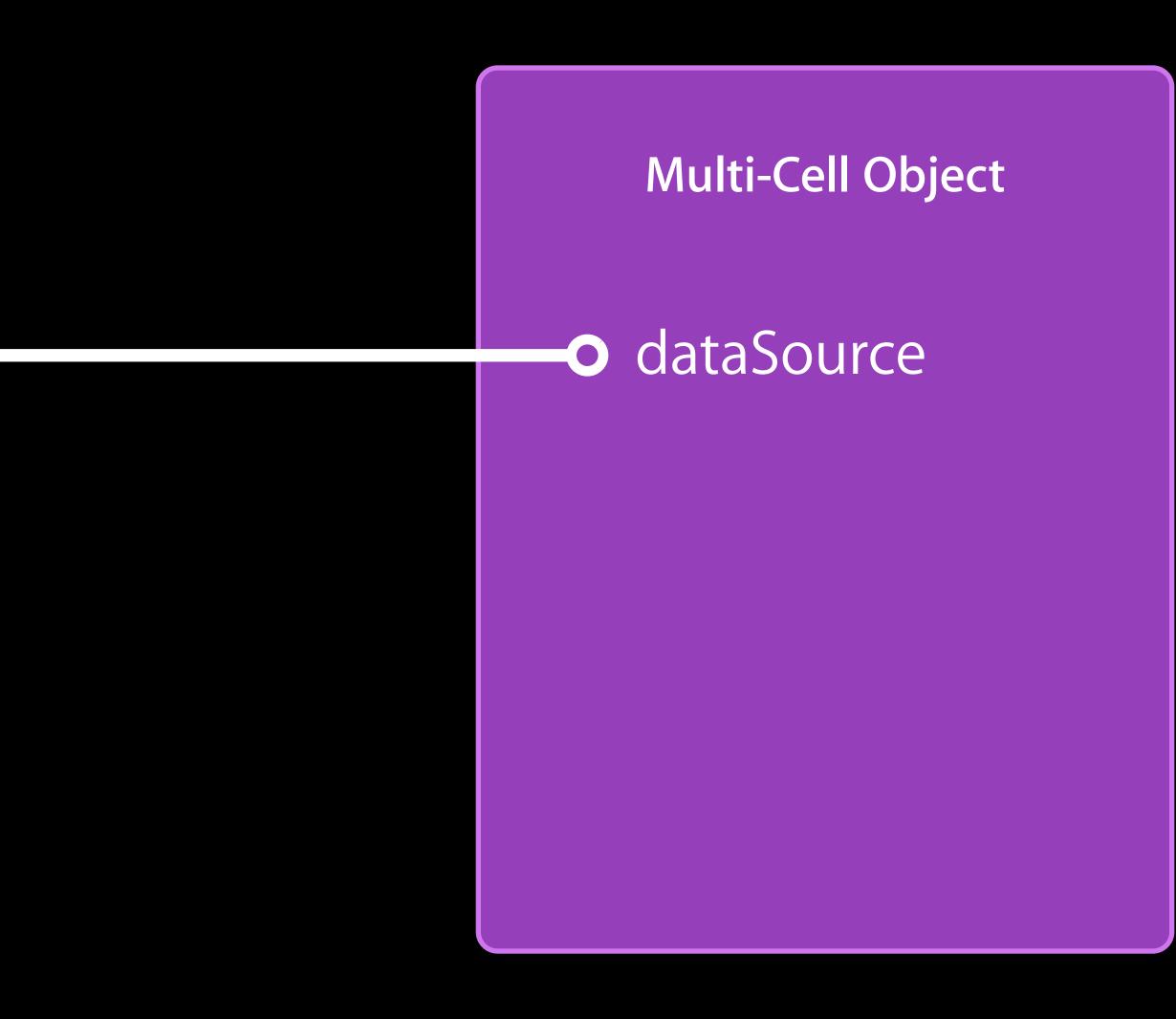
```
// An array of images downloaded from a remote server
this.imageArray = createImageViewsFromData(loader.content);
```

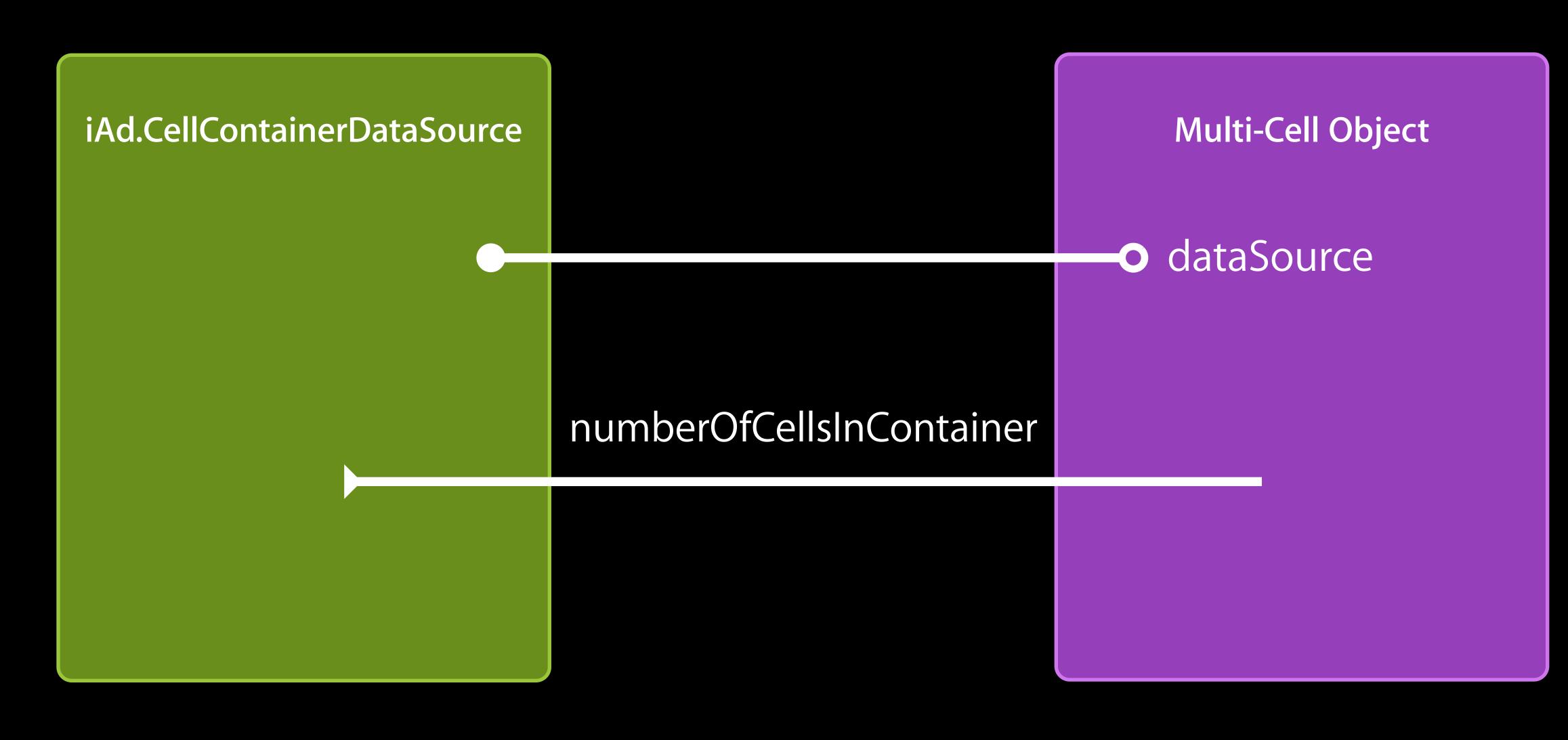


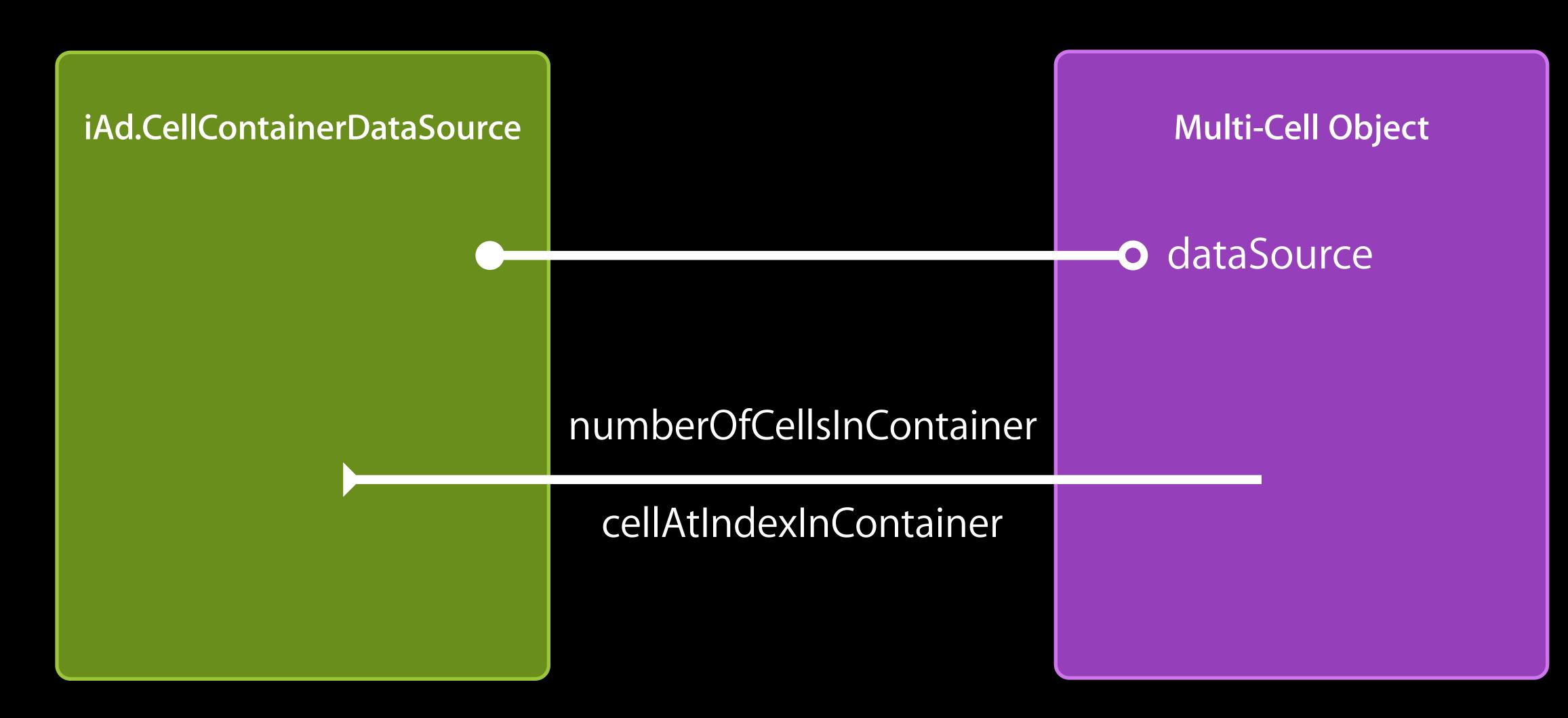




iAd.CellContainerDataSource







```
14 // Called when the XHR call succeeded
is this.loaderDidComplete = function (loader) {
     // An array of images downloaded from a remote server
     this.imageArray = createImageViewsFromData(loader.content);
17
     // Set the data source of the gallery
     var galleryView = this.outlets.galleryView;
     galleryView.dataSource = this;
21
     galleryView.reload();
23 };
<sup>25</sup> // Return the number of cells
* this.numberOfCellsInContainer = function (container) {
     return this.imageArray.length;
27
28 };
29
If the cell at a given index
indexInContainer = function(container, index) {
     return this.imageArray[index];
33 };
34
```

Demo Customization

Mark Malone iAd Technology Evangelist







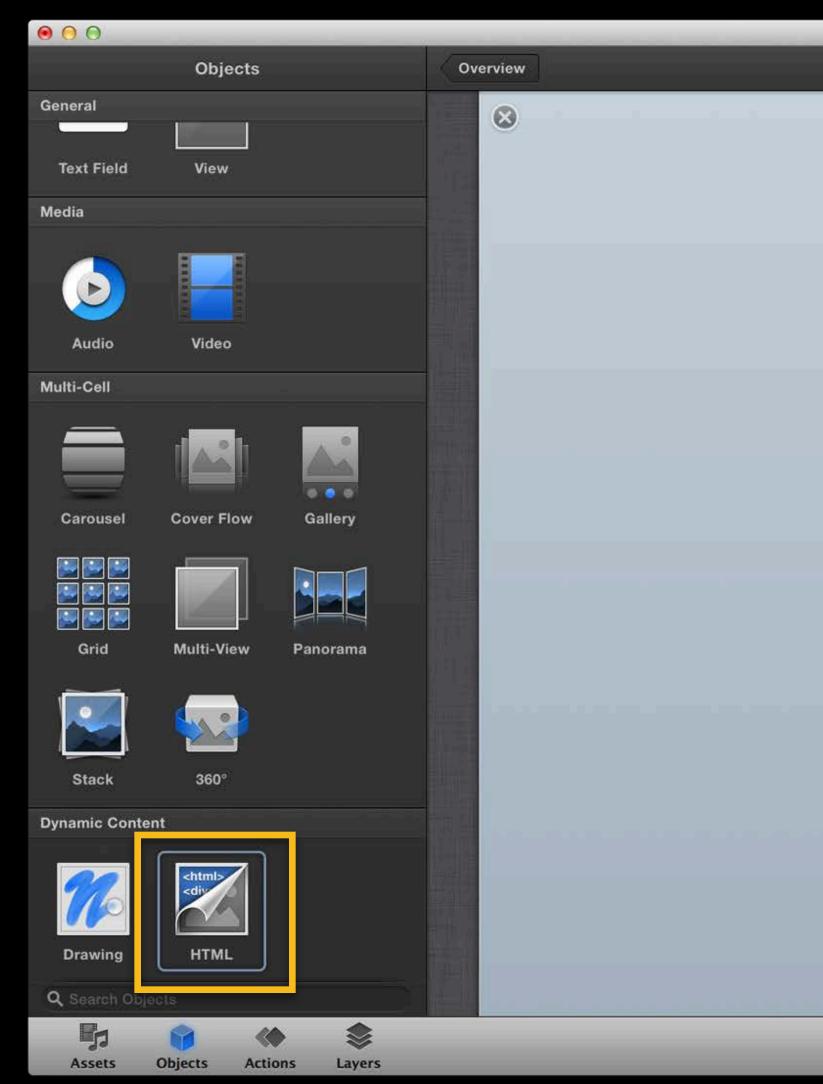




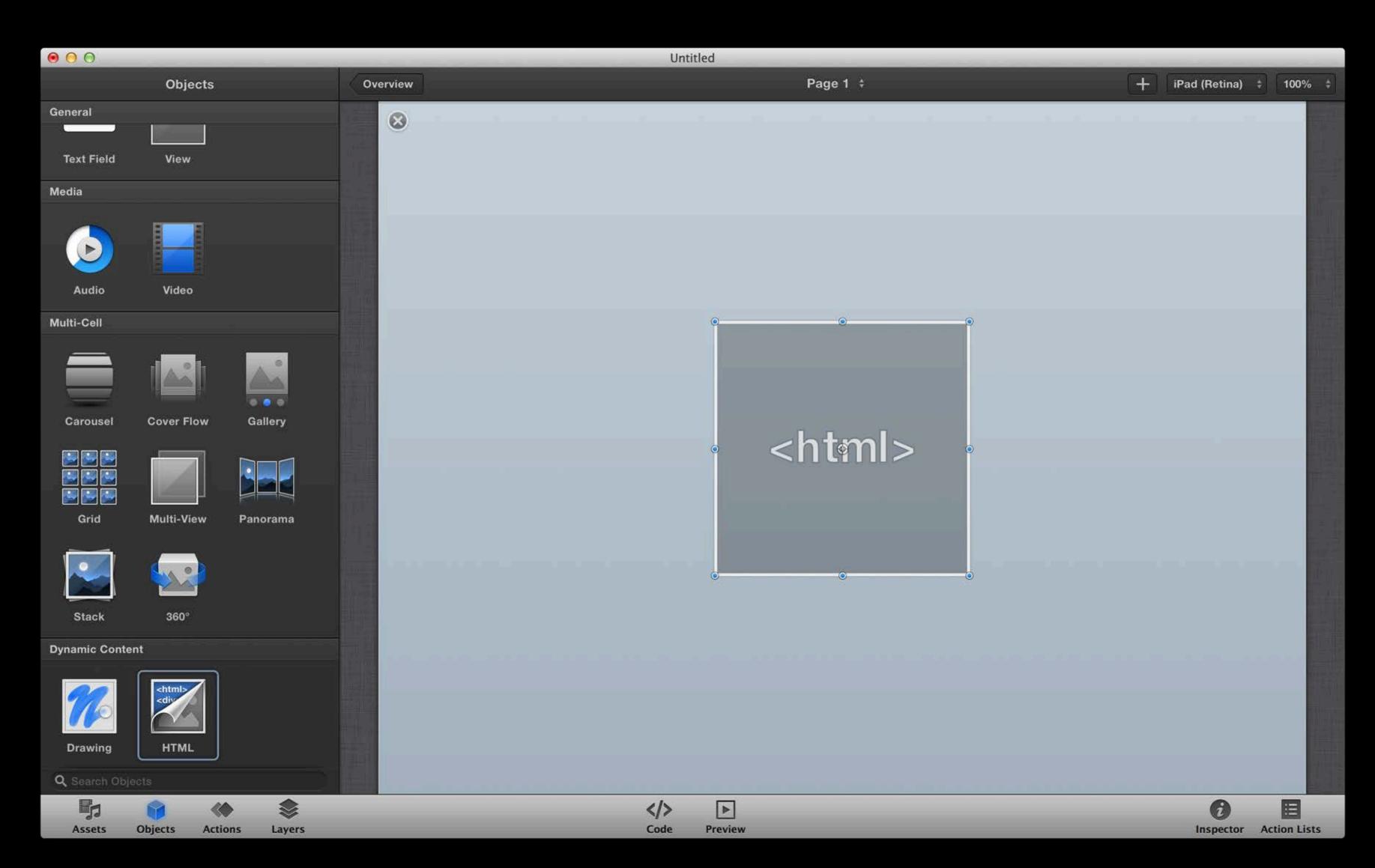


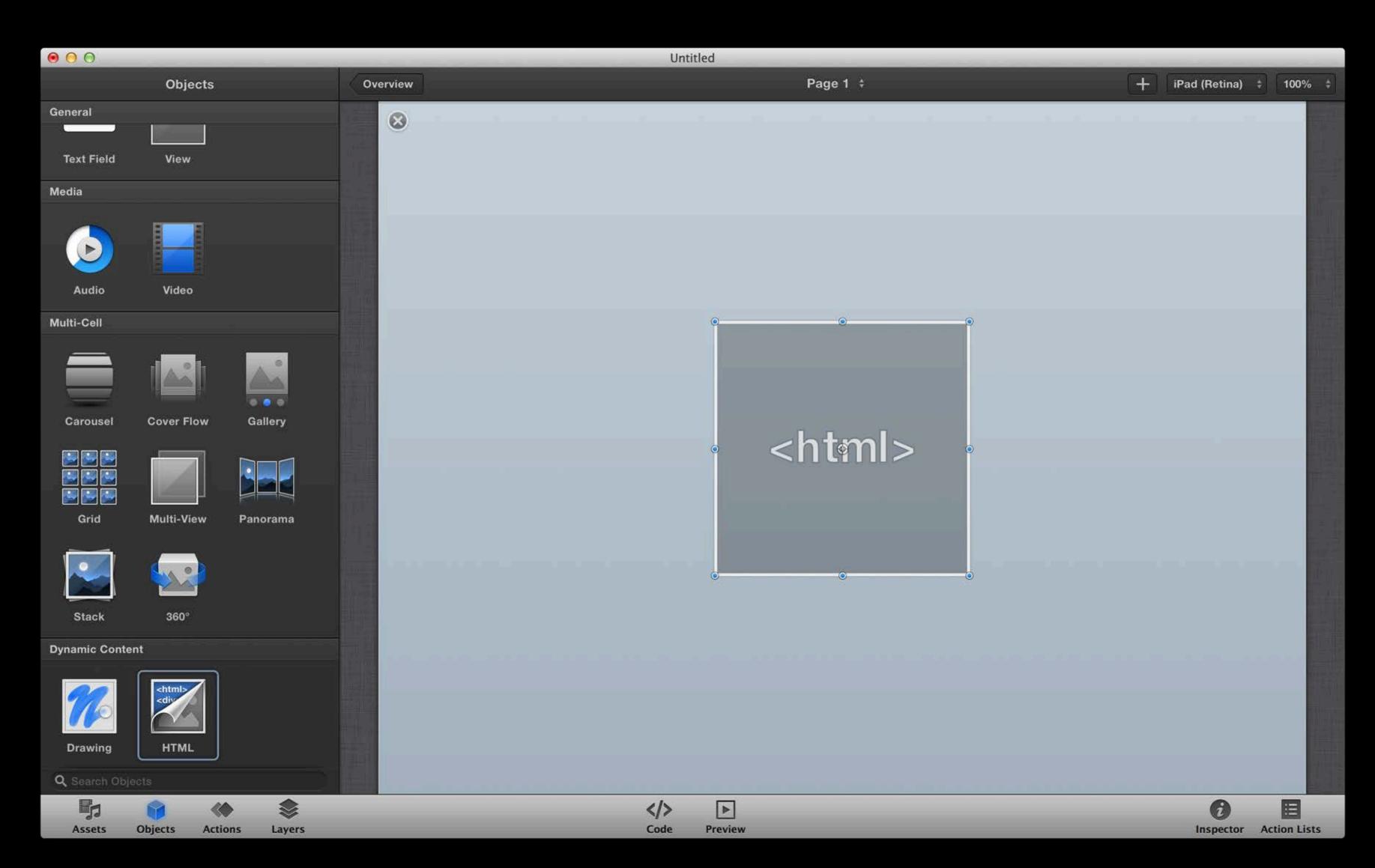


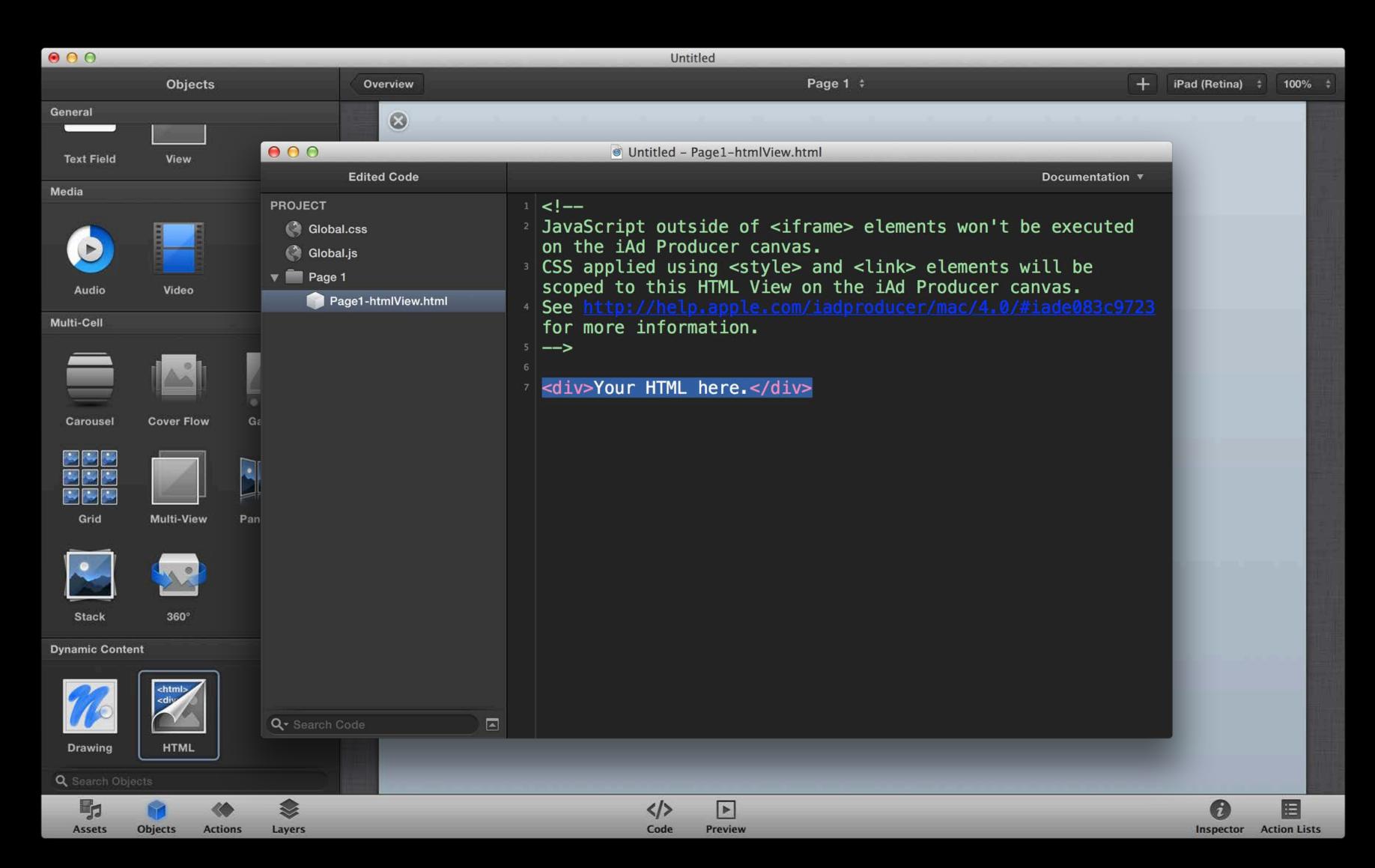
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4 </br></pre>
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Text - Page1\$htmlView.html

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"color: rgb(67, 128, 89); font-family: 'Arial Black';">more test <span style="color: rgb(52, 125, 126); font-family:
style="font-family: 'Arial Black';">.

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"style="font-family: 'Arial Black';">.

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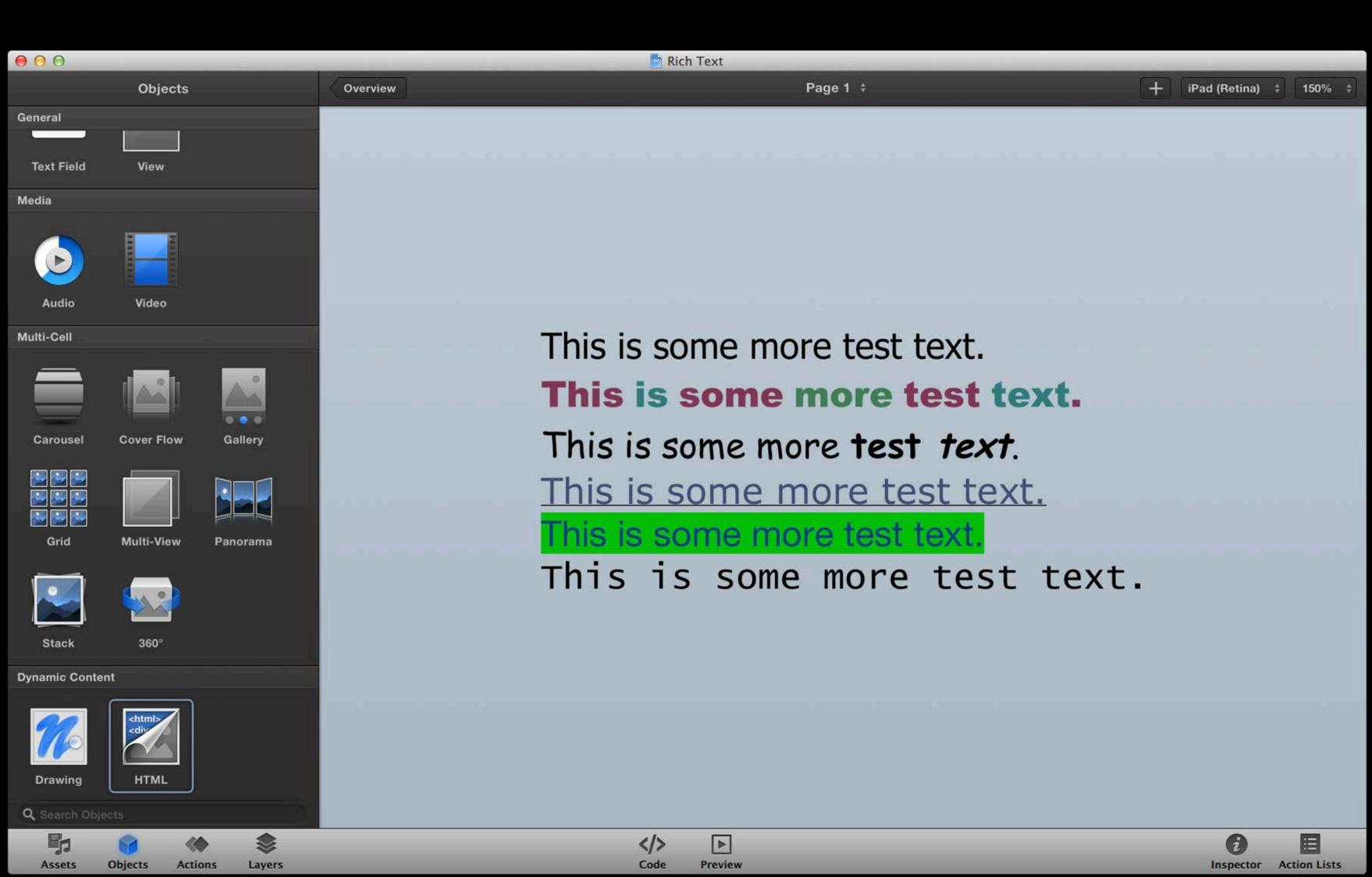
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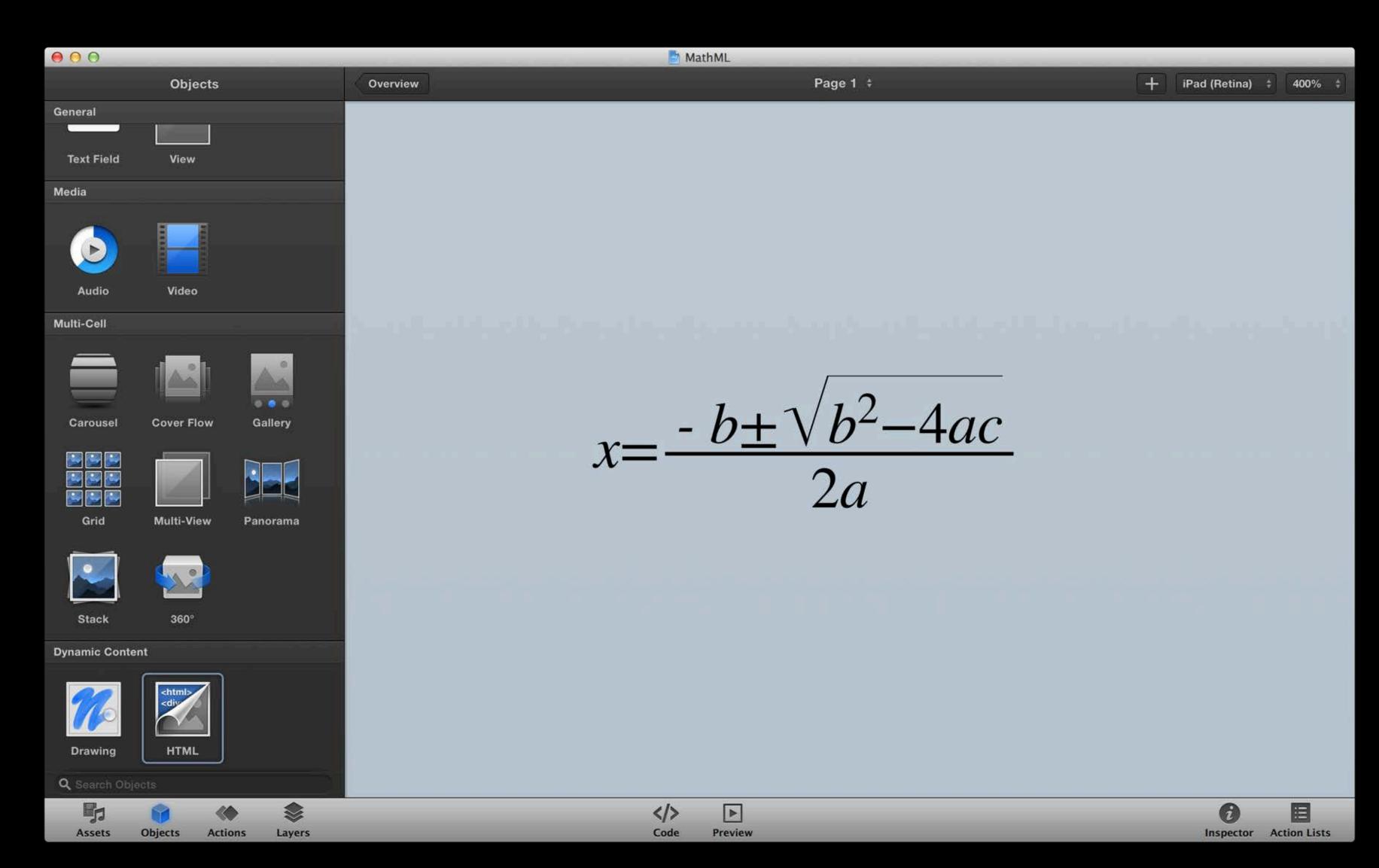
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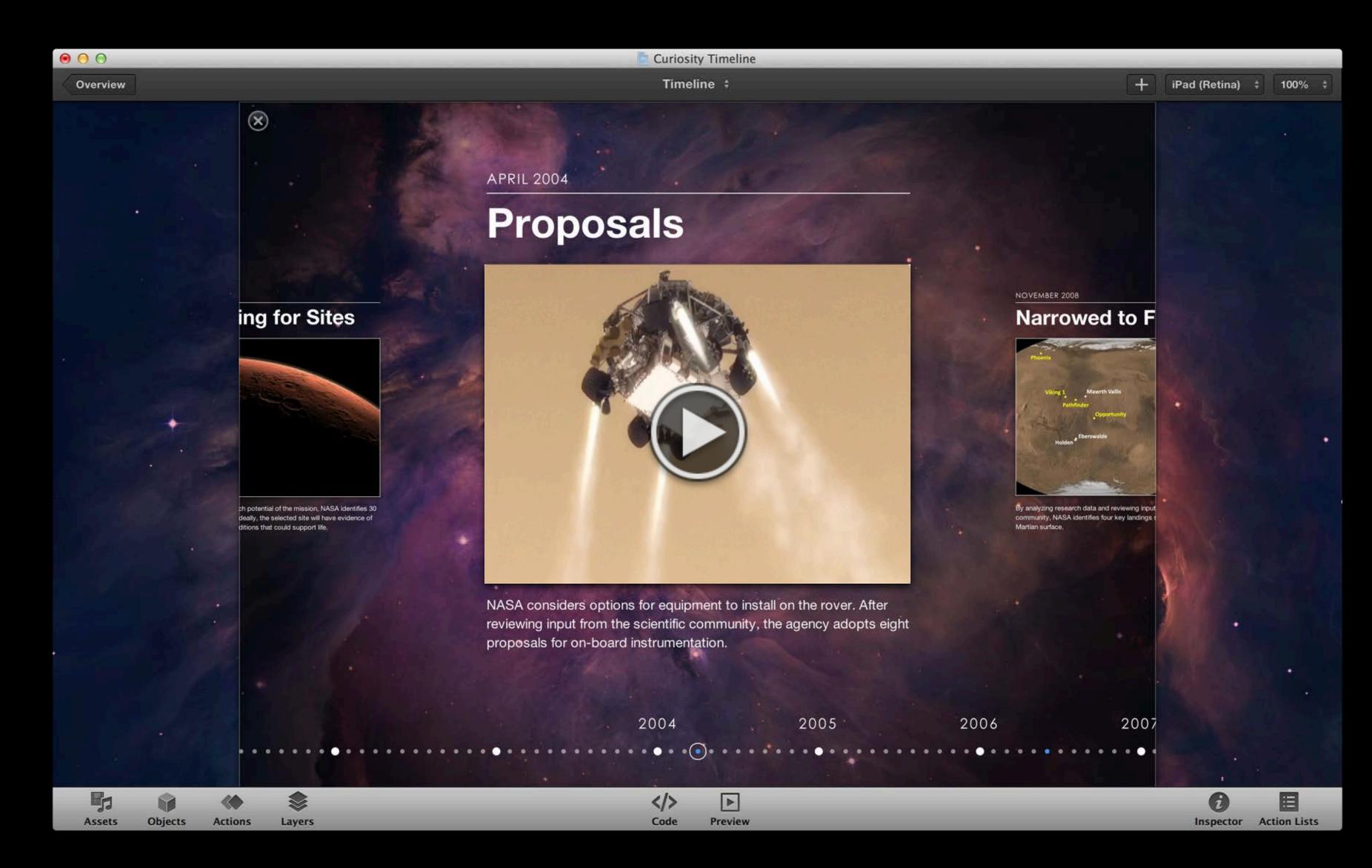
"0.5ex" width="2ex"/>

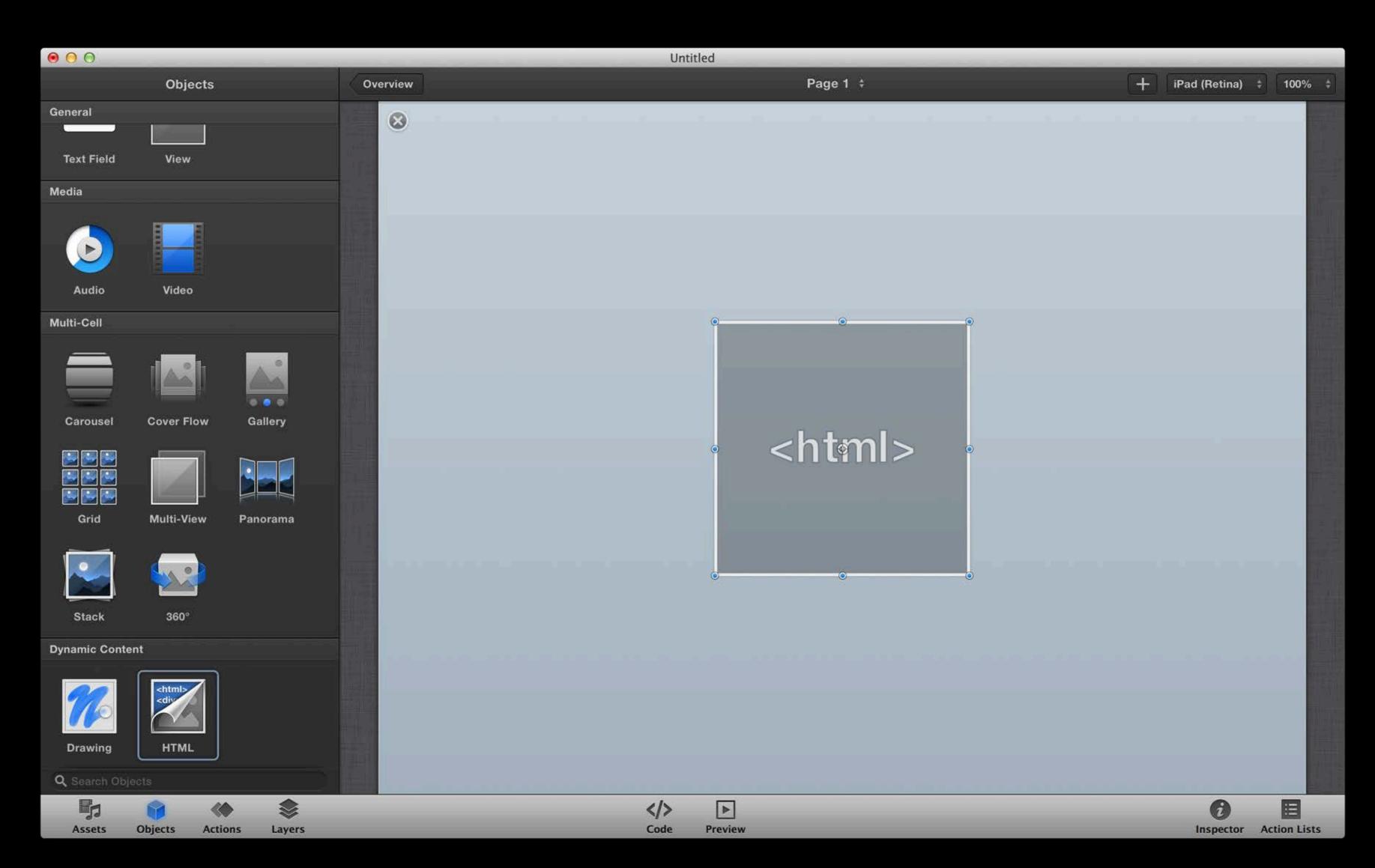
thsize="10pt"/>

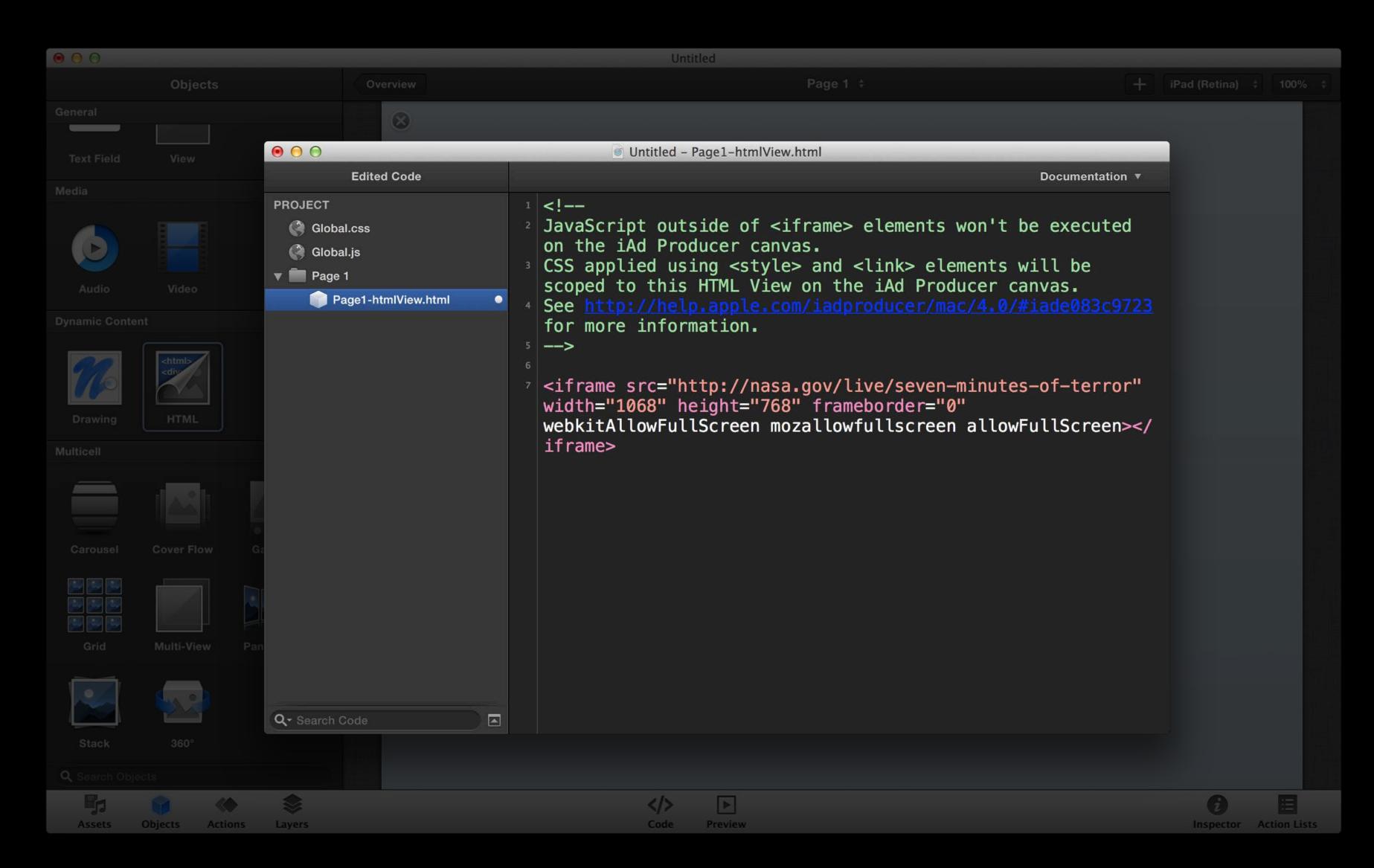
HTML Customization MathML



















Content Customization

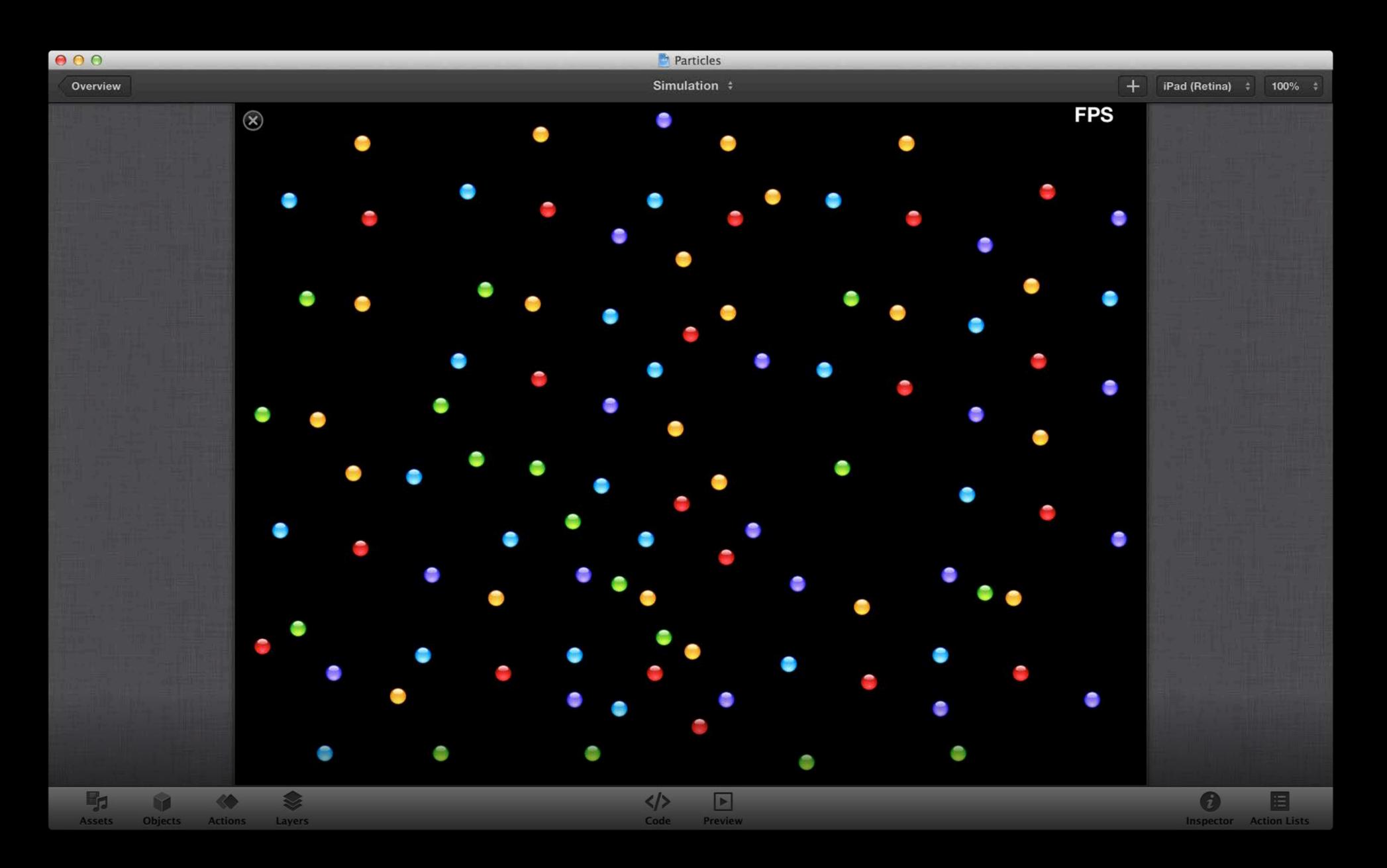






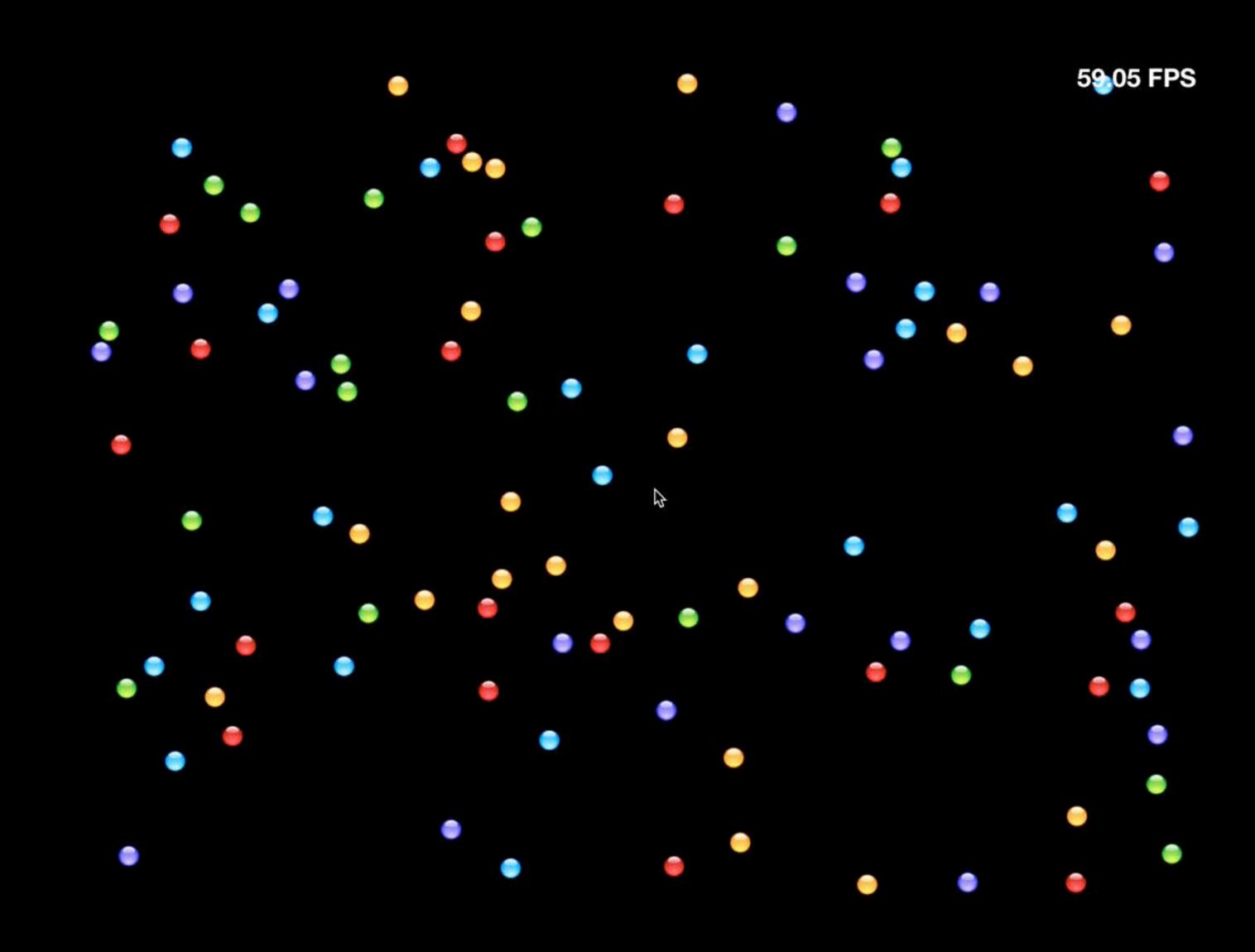
Performance

Great Widget Is Done

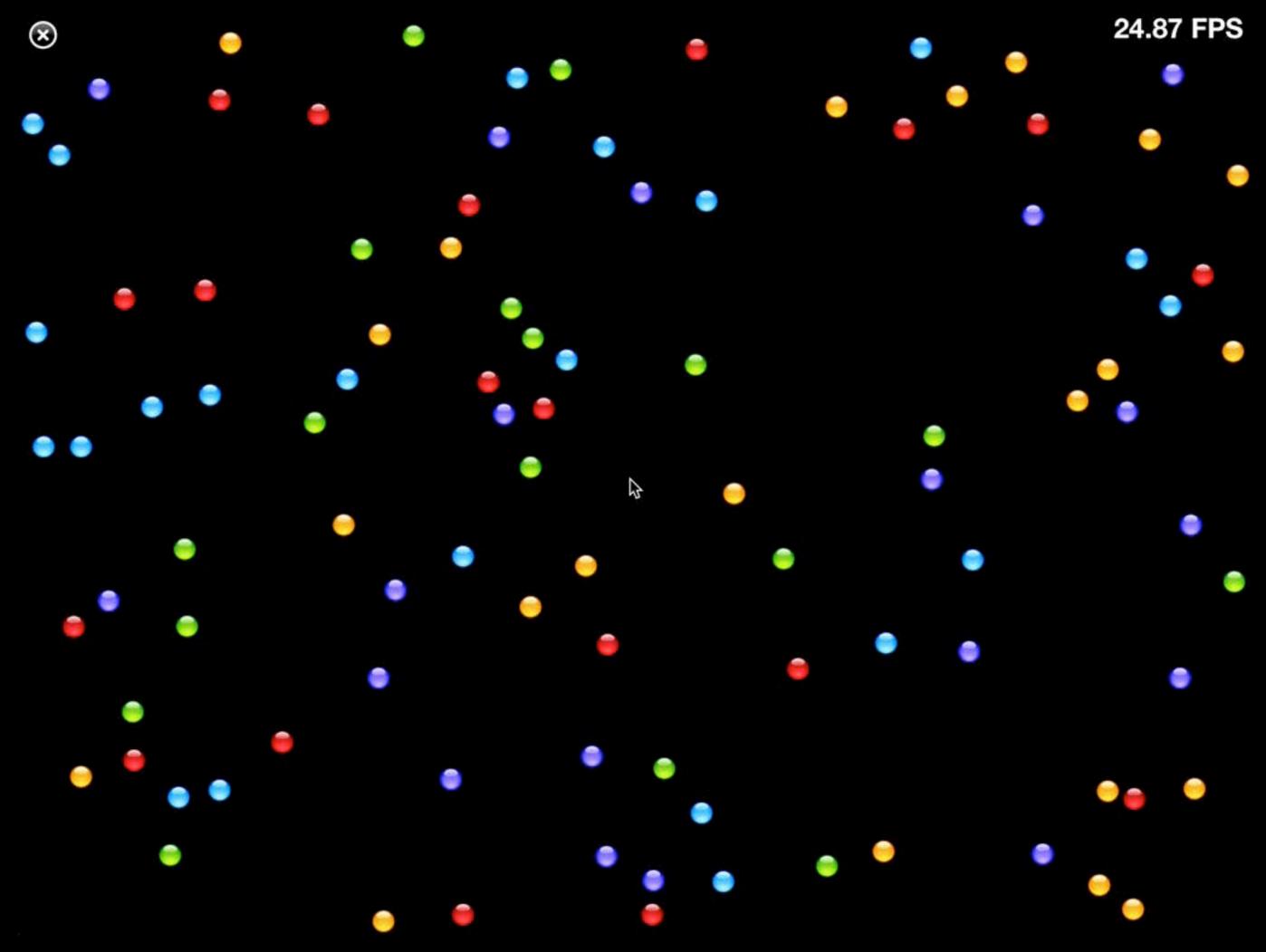




Mac



iOS Device



Performance Testing and debugging

Performance Testing and debugging

Remote Web Inspector

Performance Testing and debugging

- Remote Web Inspector
- Instruments

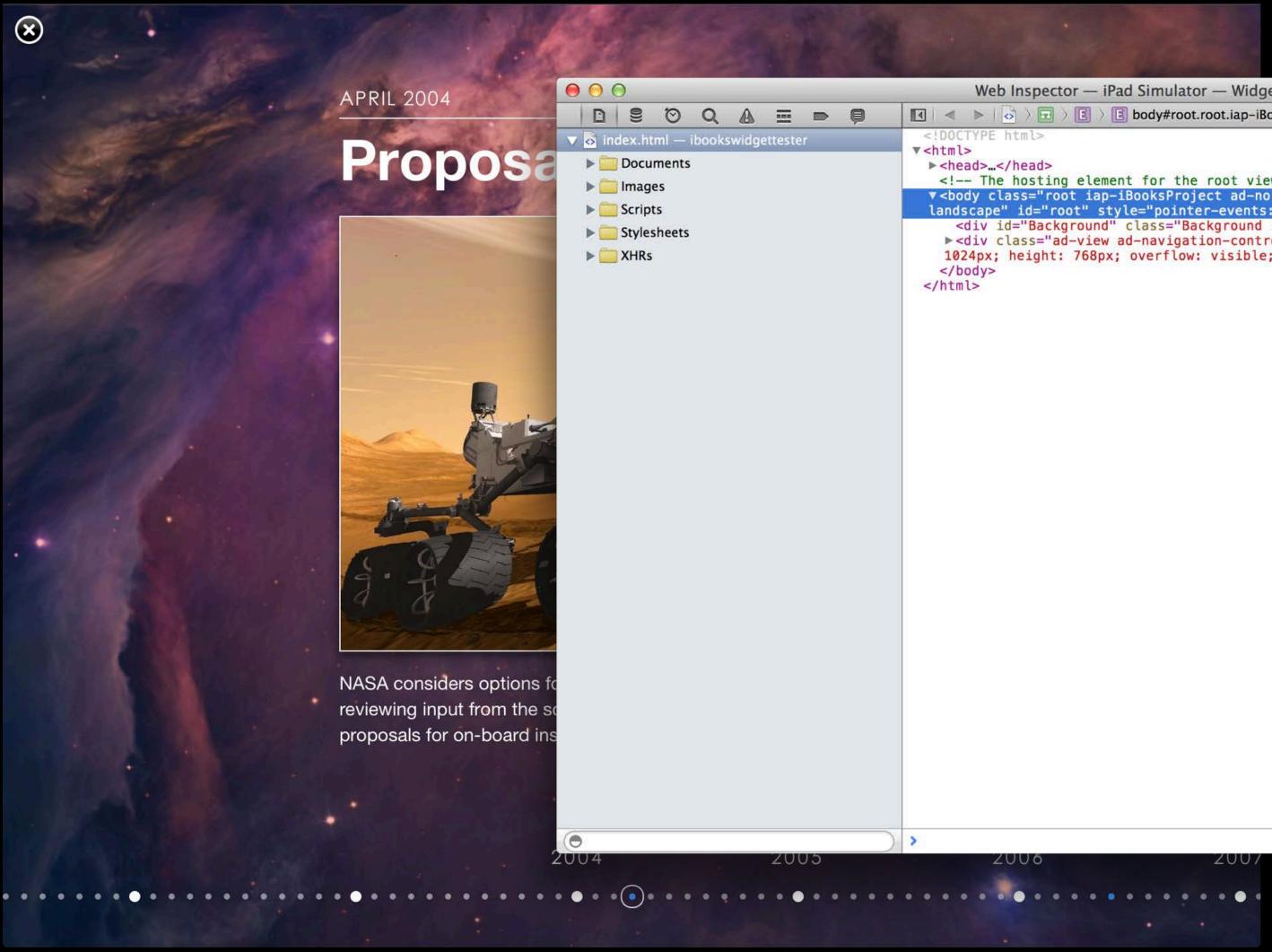
Web Inspector



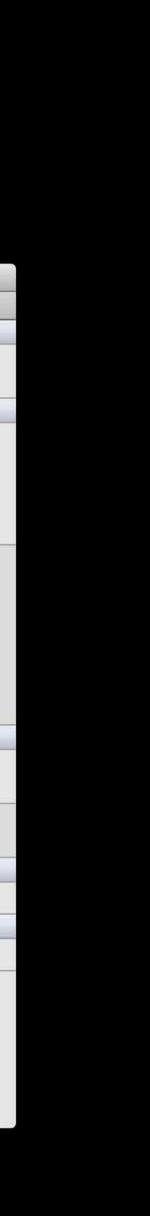
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Mail, Contacts, Calendars		access your iPad from the Develop menu. You can enable the Develop menu in Safari's Advanced Preferences on your computer.
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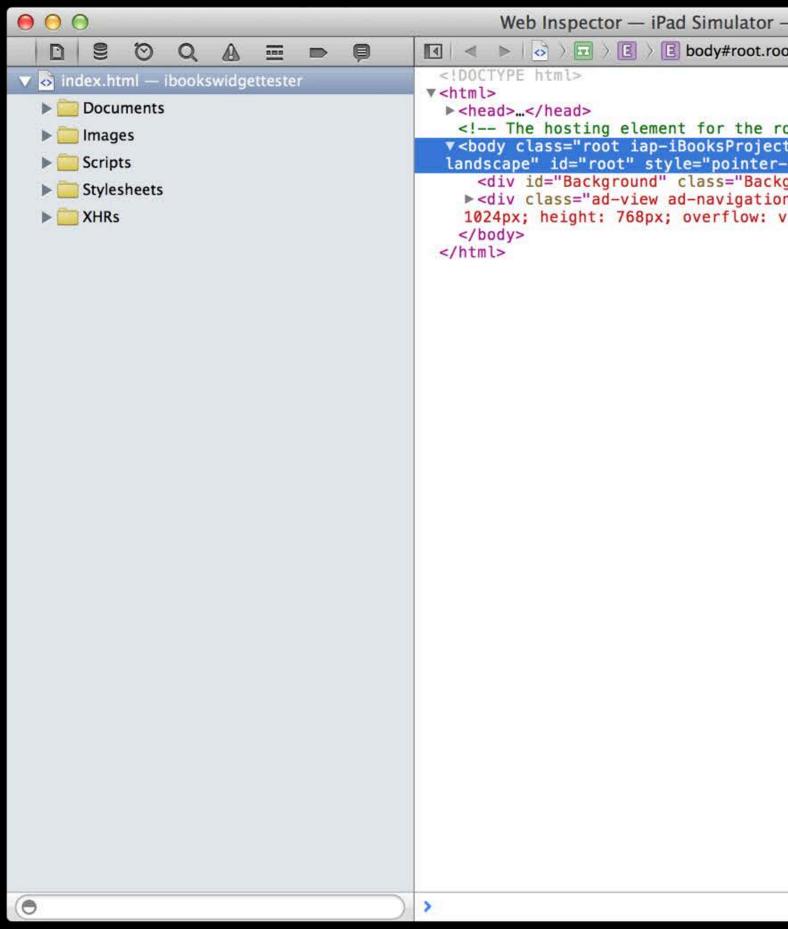
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Mail, Contacts, Calendars		access your iPad from the Develop menu. You can enable the Develop menu in Safari's Advanced Preferences on your computer.
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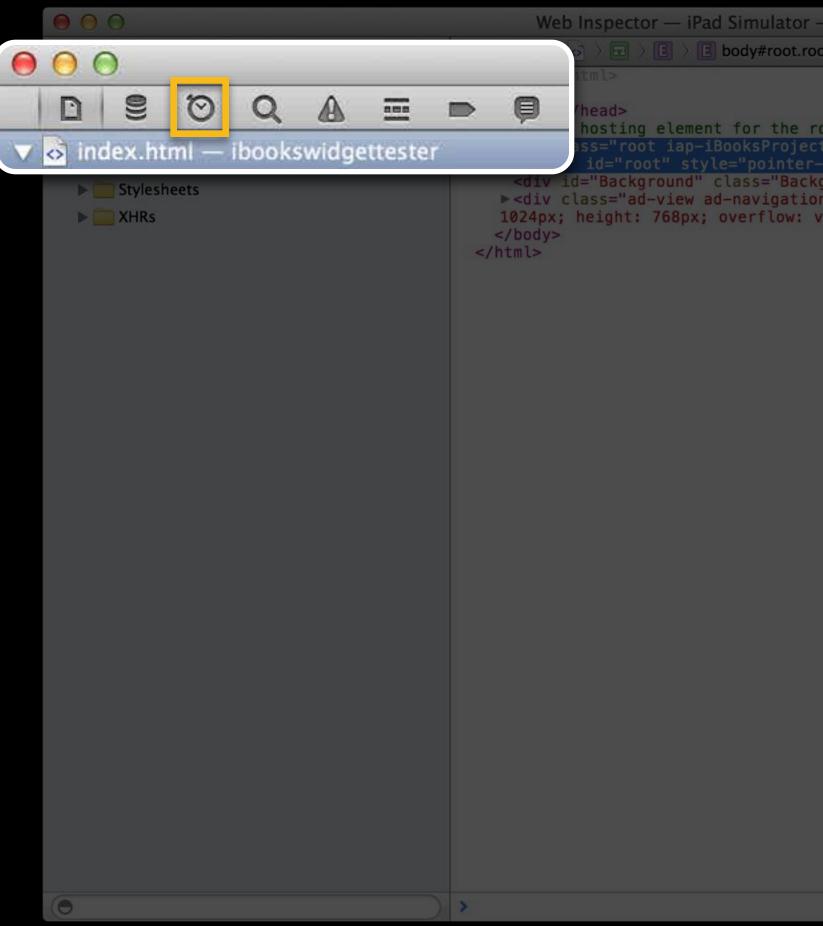


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		JavaScript	t Profile 1			
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Network Requests	60.49 0.03	100.00 39.51	60.49 0.00		▼ (program) ▼ (anonymous function)	Particle.js:146 Particle.js:113
Layout & Rendering	0.26	39.48	0.00	263	ParticleSimulation#step()	optimized.js:28 Particle.js:172 Particle.js:120
🔣 JavaScript & Events	2.15 6.93	39.13 14.05	0.00	26300	 ParticleSimulation#moveParticle() ParticleSimulation#handleParticleCollisionForParticle() 	Particle.js:120 <u>Particle.js:107</u> <u>optimized.js:28</u>
Profiles	4.76	4.76 1.40	0.00		ParticleSimulation#getParticlesAtGridLocation() Getter for .id on iAd.View	optimized.js:28 optimized.js:28 optimized.js:161
JavaScript Profile 1	0.33	0.95	0.00	7323	ParticleSimulation#resolveParticleCollision()	optimized.is:35
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	0.51	1.25	0.00		► Getter for .id on iAd.View	
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Web Inspector Network traffic

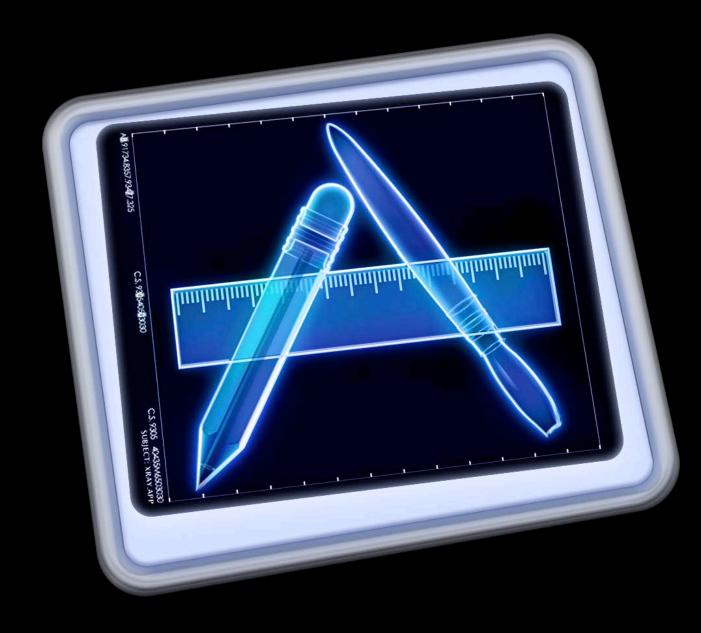
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Web Inspector Network traffic

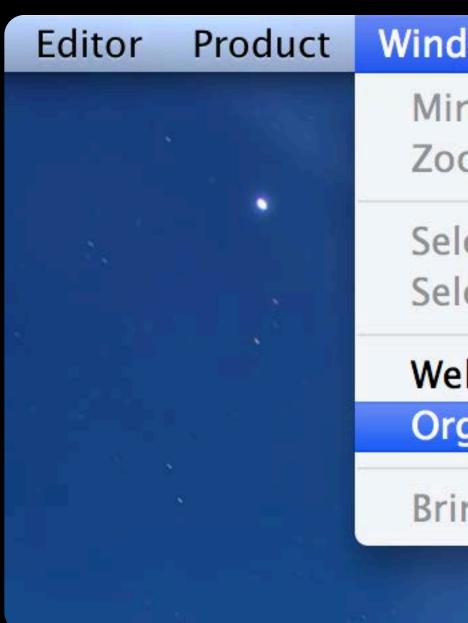
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Instruments



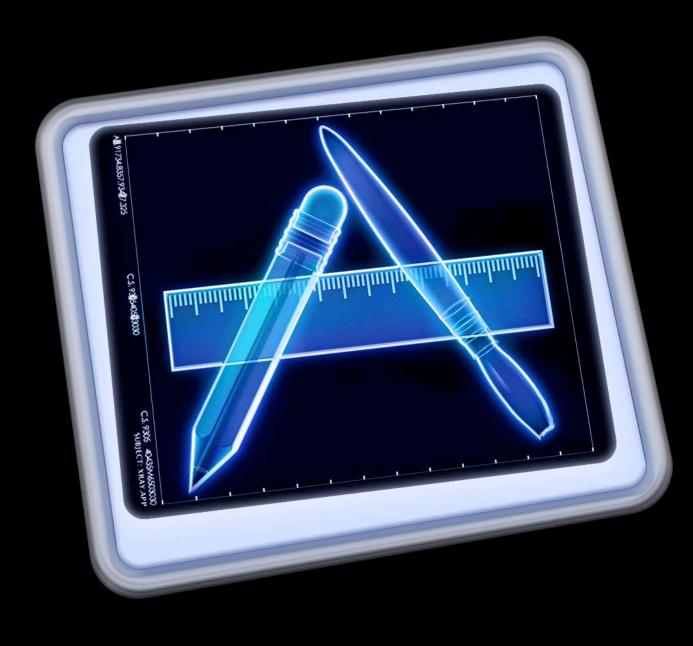


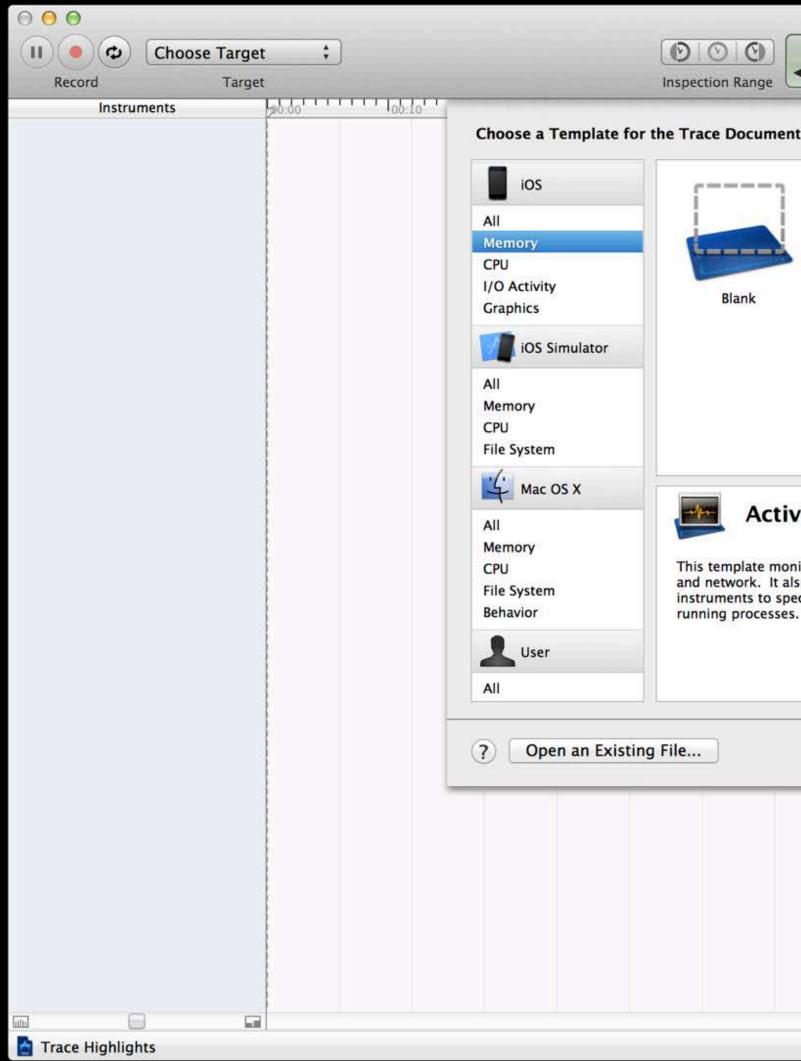


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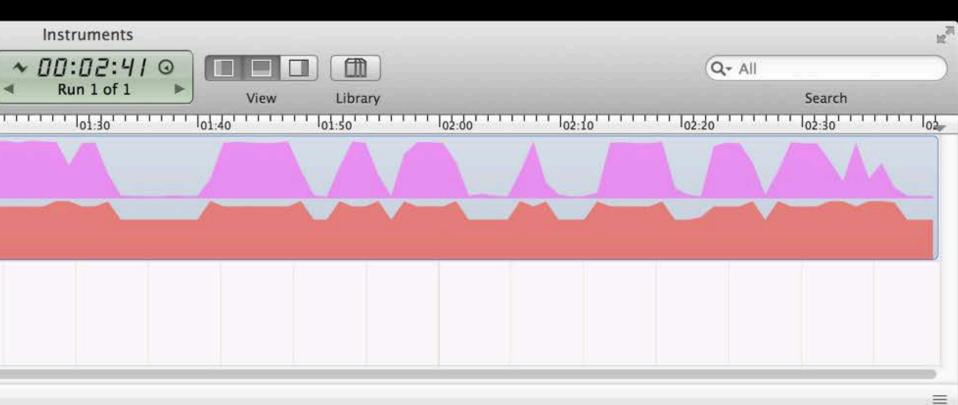






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Demo Performance

Mark Malone iAd Technology Evangelist





Test on device





- Test on device
- Always test on device!





- Test on device
- Always test on device!
- Always test on device!!







 Look for hotspots with Web Inspector



- Look for hotspots with Web Inspector
- Monitor network traffic with Web Inspector

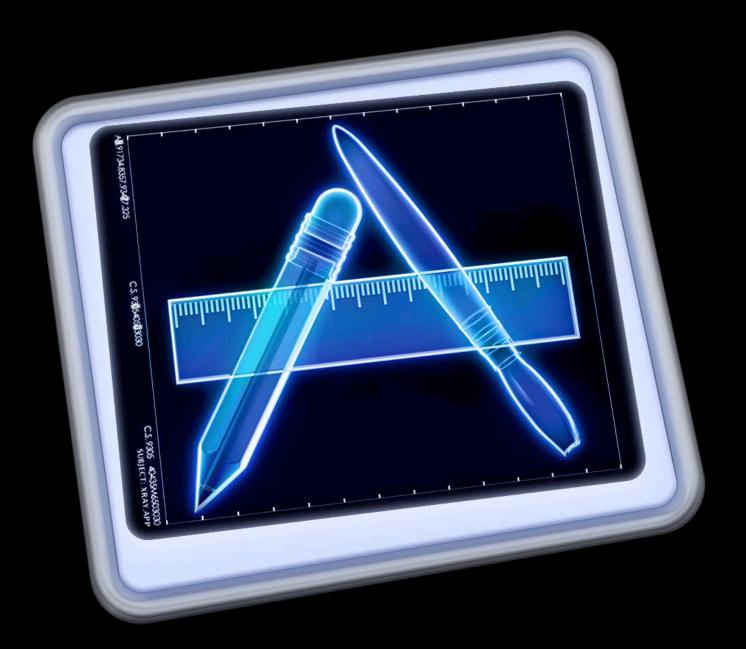


- Look for hotspots with Web Inspector
- Monitor network traffic with Web Inspector
 - Reduce network fetches by image spriting

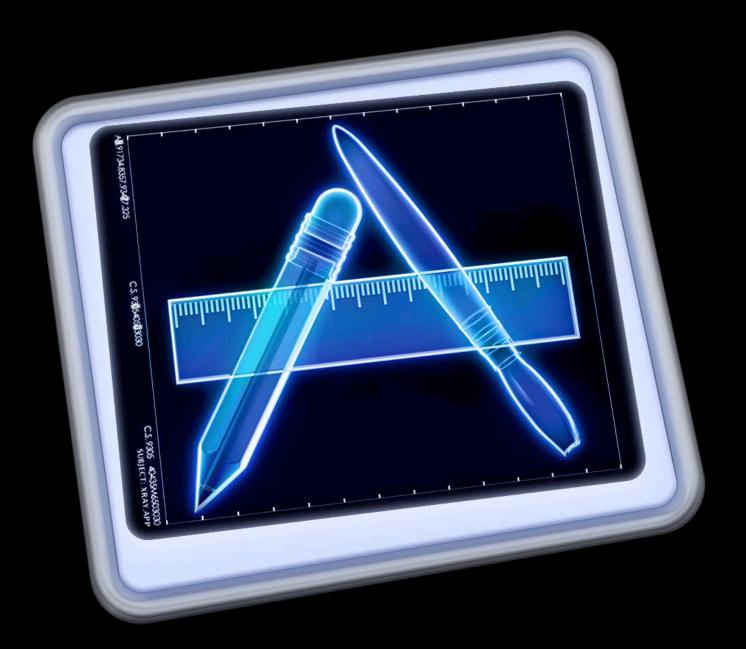


- Look for hotspots with Web Inspector
- Monitor network traffic with Web Inspector
 - Reduce network fetches by image spriting
 - Identify unused assets

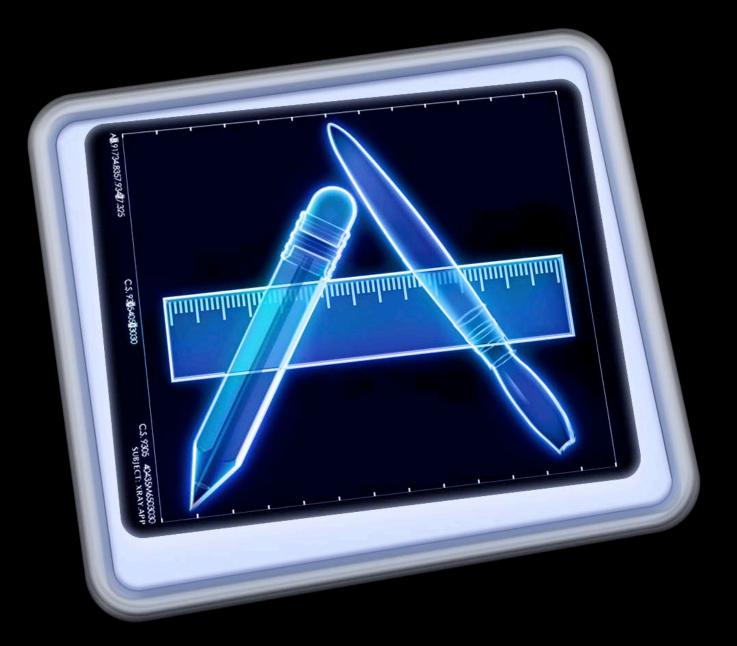




 Measure memory footprint with Instruments



- Measure memory footprint with Instruments
- Save memory by removing hidden elements using display: none



Built with familiar web technologies

- Built with familiar web technologies
- Support customization via HTML/CSS/JS

gies /CSS/JS

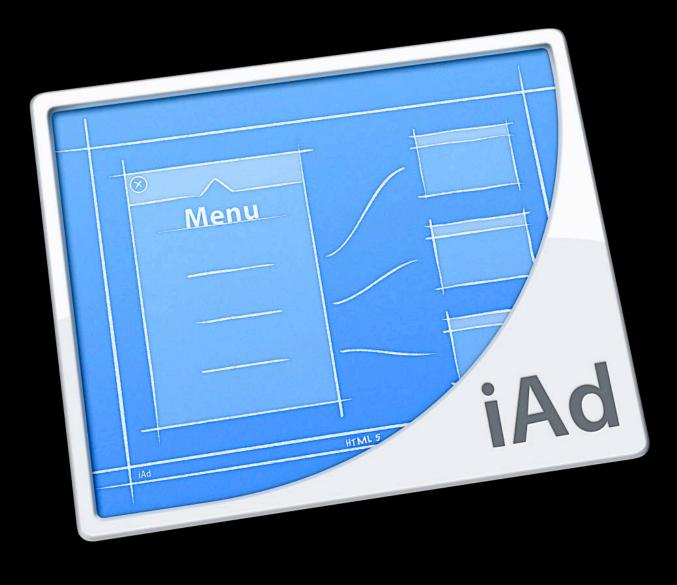
- Built with familiar web technologies
- Support customization via HTML/CSS/JS
- Can pull in remote content

gies /CSS/JS

- Built with familiar web technologies
- Support customization via HTML/CSS/JS
- Can pull in remote content
- Backed by a powerful toolset

gies /CSS/JS

http://developer.apple.com/iad/iadproducer



More Information

Mark Malone iAd Technology Evangelist mgm@apple.com

Documentation iAd Producer Help http://help.apple.com/iadproducer

iAd JS Developer Library http://developer.apple.com/library/iad

Apple Developer Forums http://devforums.apple.com/community/safari/iad

Related Sessions

Introduction to iBooks Author Widget and iAd Rich Media Ad Development with iAd

iAd Integration and Best Practices

Getting to Know Web Inspector

Getting the Most Out of Web Inspector

Improving Performance and Energy Usage

d d Producer 4	Russian Hill Wednesday 11:30AM	
	Russian Hill Thursday 2:00PM	
	Russian Hill Tuesday 10:15AM	
	Russian Hill Tuesday 11:30AM	
with Instruments	Nob Hill Thursday 11:30PM	



iAd Technologies Lab

Media Lab A
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