

Magic vs Science Telerik Next's {N} Workshop

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JavaScript Virtual Machine



Google V8 JavaScript Engine





Webkit JavaScript Core





Native APIs



accesses native objects

NATIVESCRIPT RUNTIME

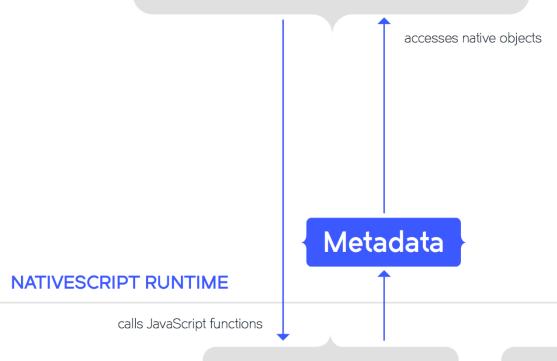
calls JavaScript functions

JAVASCRIPT VIRTUAL MACHINE App code (JavaScript)



Native APIs



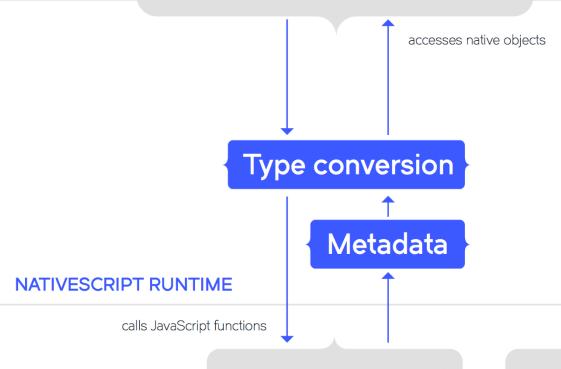


JAVASCRIPT VIRTUAL MACHINE App code (JavaScript)



Native APIs



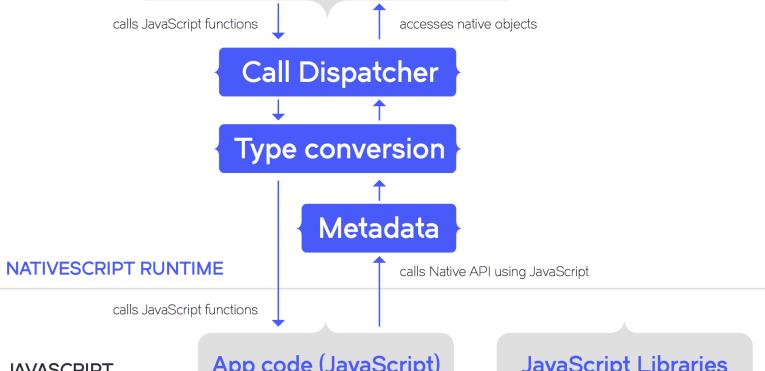


JAVASCRIPT VIRTUAL MACHINE App code (JavaScript)

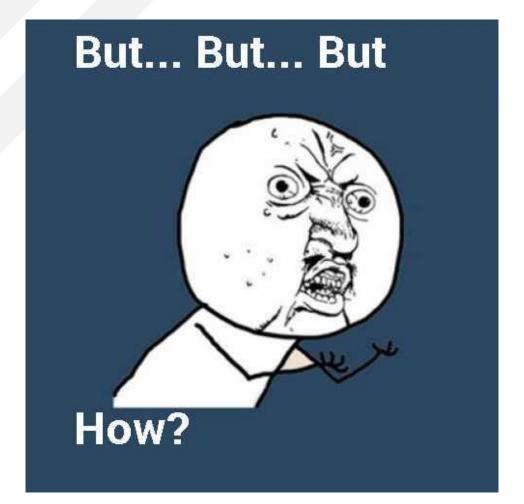
NATIVE

Native APIs





JAVASCRIPT VIRTUAL MACHINE App code (JavaScript)

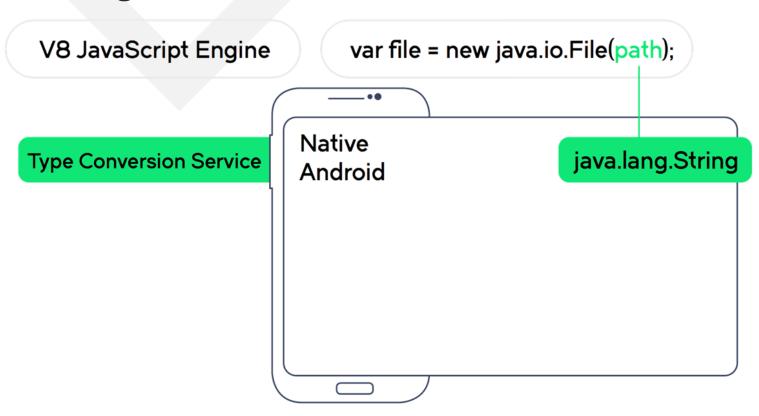




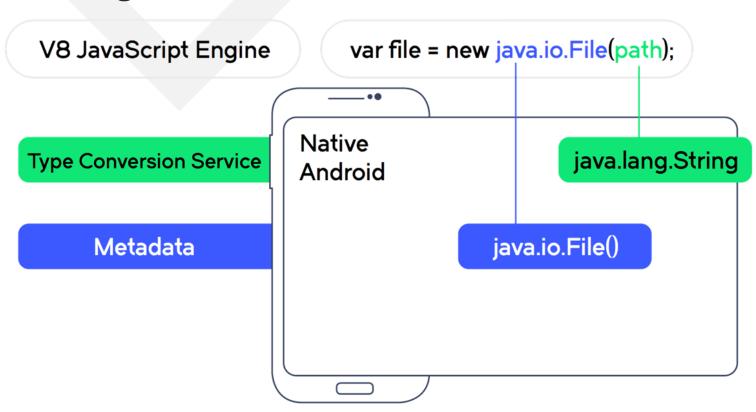
V8 JavaScript Engine

var file = new java.io.File(path);











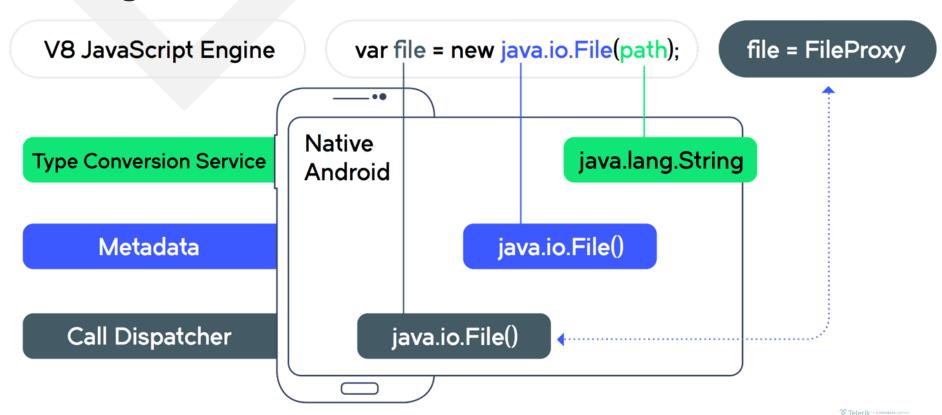






image-manipulation module

image-manipulation.android.js

```
var paint = new android.graphics.Paint();
paint.setTypeface(type);
paint.setTextSize(fontSize);
```

image-manipulation.ios.js

```
var topRect = CGRectMake(30, 30, image.size.width, image.size.height);
var topString = NSString.alloc().initWithString(topText);
topString.drawInRectWithFont(topRect, font);
```



















= DATA













Connects













Bindings



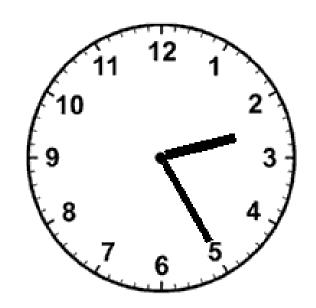
Demo

Time











Understanding users

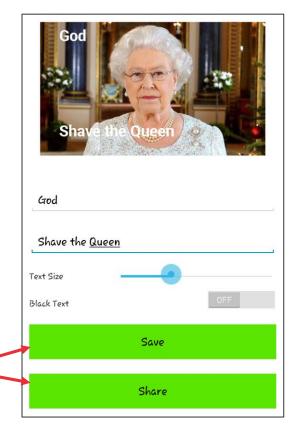








How much would you give?





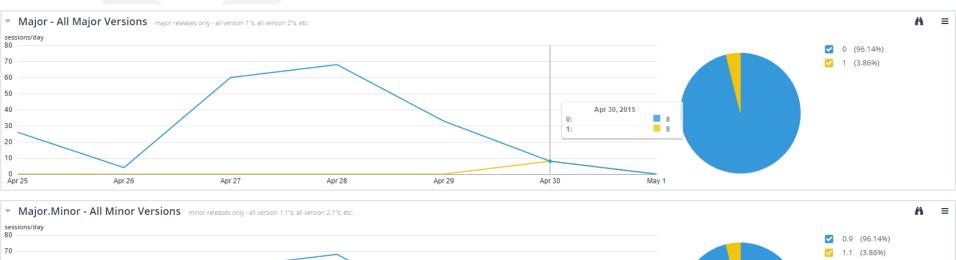
Setup

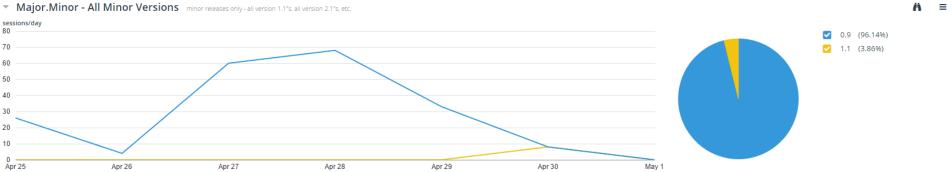
var NativeScriptMonitor =

```
require('./NativeScriptMonitor').Monitor;
var monitor = new NativeScriptMonitor({
  productld: 'e4680536-g543-8gjd-bs98-0dj4dj-2hd467',
  version: '1.2.3'
});
```



Versions





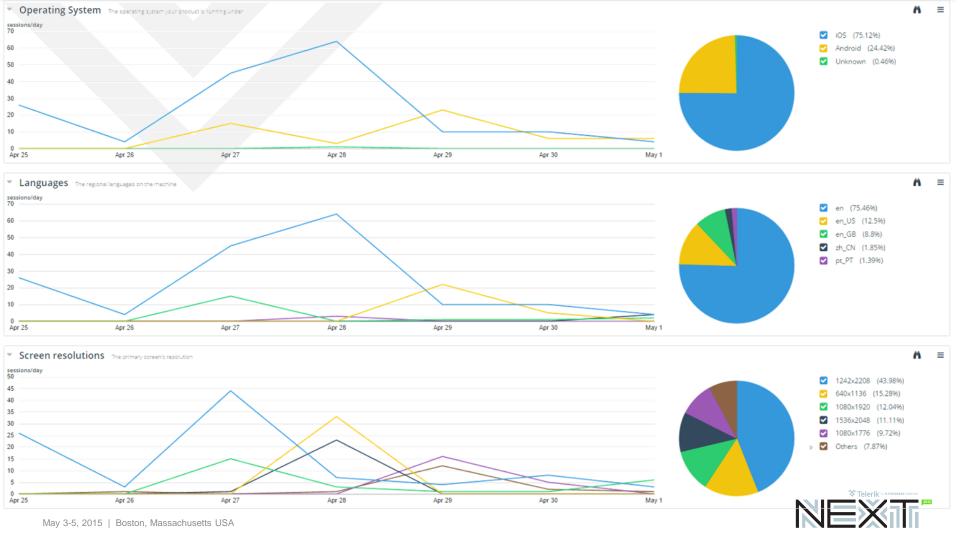


Manage Session

When Application starts monitor.start();

Before App Closes monitor.stop();





Track Feature Usage: Magic

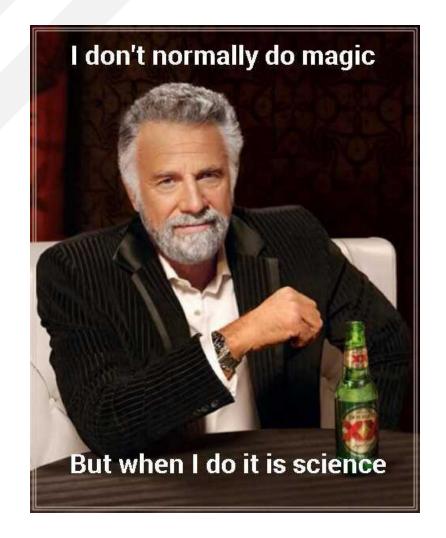
```
function saveLocally() {
  //saveLocally code here
  monitor.trackFeature('CreateMeme.SaveLocally');
function share() {
  //saveLocally code here
  monitor.trackFeature('CreateMeme.Share');
```



Track Feature Usage: Magic

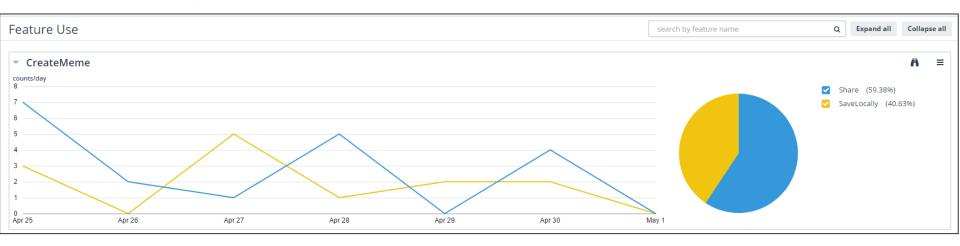
```
function saveLocally() {
  //saveLocally code here
  monitor.trackFeature('CreateMeme.SaveLocally');
function share() {
                          Your own namespace
  //saveLocally code here
  monitor.trackFeature('CreateMeme.Share');
```







Track Feature Usage: Science



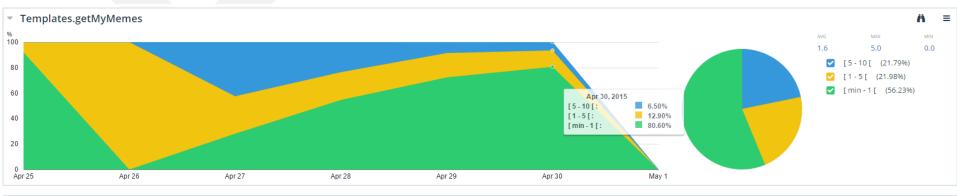


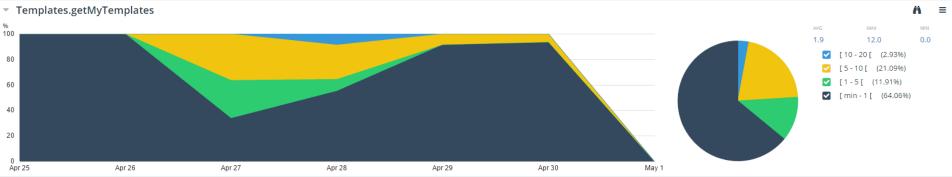
Track Values: Magic

```
function load() {
  localStorage.getMyMemes()
  .then(function (entities) {
    monitor.trackFeatureValue("Templates.getMyMemes", entities.length);
    //Do the rest here
  }
}
```



Track Values: Science





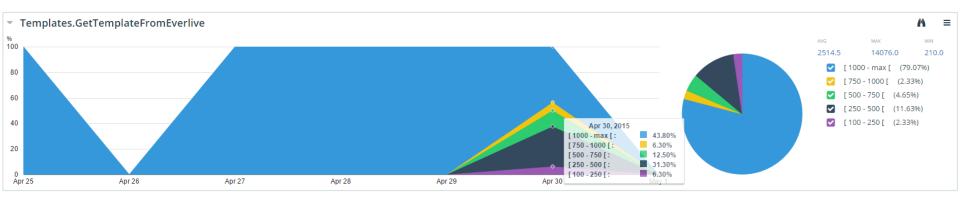


Track Performance: Magic

```
function getTemplates() {
 monitor.trackFeatureStart('Templates.GetFromEverlive');
 loadTemplates()
 .then( function() {
  //When Finished
  monitor.trackFeatureStop('Templates.GetFromEverlive');
```



Track Performance: Science

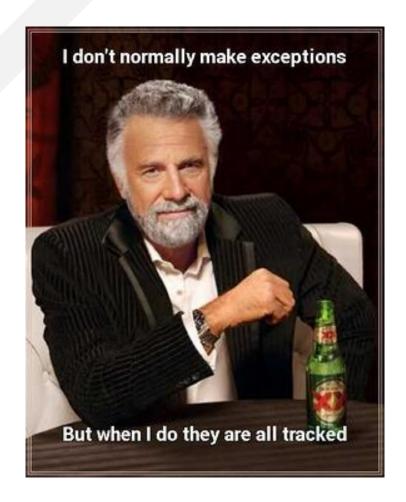




Track Exceptions: Magic

```
try {
  doSomething();
catch(exception) {
  monitor.trackException(exception, 'error message');
```







Track Exceptions: Science

CASE	ℽ	STACK TRACE	EXCEPTION TYPE 🐨	STATUS	ூ	COUNT	FIRST OCCU	LAST OCCUR	MESSAGE
% 4		TypeError: Cannot read property 'setOnTouchListener' of undefi	TypeError	New	6	6	Apr 27, 2015	May 02, 2015	Get Templates From Everlive Failed
% 9	/	Error: java.lang.OutOfMemoryError: Failed to allocate a 2764812	Error	Open	1	1	Apr 29, 2015	Apr 29, 2015	Get Templates From Everlive Failed
% 8		Error: java.lang.OutOfMemoryError: Failed to allocate a 2764812	Error	Open	1	1	Apr 29, 2015	Apr 29, 2015	Get Templates From Everlive Failed
% 7		TypeError: Cannot read property 'getAbsolutePath' of null	TypeError	Open	2	2	Apr 29, 2015	Apr 29, 2015	Failed to TakePicture
% 6	/	{anonymous}(#object)	Error	New	3	3	Apr 27, 2015	Apr 27, 2015	onUncaughtError
% 5		Error: java.lang.OutOfMemoryError	Error	New	2	2	Apr 27, 2015	Apr 27, 2015	Get Templates From Everlive Failed





Questions?





Questions?

Thank you!

