### Integration

Notes on integrating Google Analytics with Articulate Storyline in Moodle

* This solution is a collection of triggers/variables that are placed on each slide where Google Analytics tracking should take place. Slides that don’t need tracking don’t need the triggers
* There are a few Variables that are exposed in the editing (Trigger) panel and are detailed below
* Triggers should be configured to run when the slide is navigated to
* To make implementation slightly faster, trigger can be copied, pasted, and modified between slides
* Storyline modules must be configured to be “embedded” in Moodle pages (i.e., don’t open in their own popup window)
  + This is required so that these scripts within Storyline have access to Moodle variables like the student user ID

### Variables

##### Google Analytics Account Tracking ID

ACCOUNT : Tracking code for the Google Analytics account. Stays the same for all of our modules - it must be present on all slides that are tracked, but doesn’t need to be changed

##### Track as Page Toggle

TRACK\_AS\_PAGE : true/false for tracking as page (true) or event (false)

##### Page Tracking

MODULE : module designation, e.g., “PCM1a,” used with location info below

LOCATION : slide identifier combined with module, could be numerical or otherwise

TITLE : title of page, hopefully text-based (optional)

##### Event Tracking

CATEGORY : what was interacted with, e.g., “quiz”

ACTION : type of interaction, e.g., “selected,” “submitted,” “attempted,” etc.

LABEL : flexible usage, could be for which question (optional)

VALUE : numerical (optional)

### 

### Code

var player = GetPlayer();

// Google Analytics account identifier

var ACCOUNT = player.GetVar('ACCOUNT');

// Type (page, event)

var TRACK\_AS\_PAGE = player.GetVar('TRACK\_AS\_PAGE');

// Page tracking

var MODULE = player.GetVar('MODULE');

var LOCATION = player.GetVar('LOCATION');

var TITLE = player.GetVar('TITLE');

// Event tracking

var CATEGORY = player.GetVar('CATEGORY');

var ACTION = player.GetVar('ACTION');

var LABEL = player.GetVar('LABEL');

var VALUE = player.GetVar('VALUE');

// Initialize Google Analytics if not done already

if(typeof sga === 'undefined') {

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){

(i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o),

m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)

})(window,document,'script','https://www.google-analytics.com/analytics.js','sga');

if(isset(ACCOUNT)) {

sga('create', ACCOUNT, 'auto');

}

}

// Additional dimension tracking for host name and module designation

sga('set', 'dimension1', location.hostname);

if(isset(MODULE)) sga('set', 'dimension2', MODULE);

// Set user ID if it can be found

var userIdDom = null;

var userId = null;

userIdDom = parent.document.getElementById('nav-message-popover-container');

if(userIdDom) userId = userIdDom.getAttribute('data-userid');

if(userId) {

sga('set', 'userId', userId);

}

// Track based on type

// Page tracking

if(TRACK\_AS\_PAGE) {

if(allset([MODULE, LOCATION, TITLE])) {

sga('send', 'pageview', '/' + MODULE + '/' + LOCATION, TITLE);

}

else if(allset([MODULE, LOCATION])) {

sga('send', 'pageview', '/' + MODULE + '/' + LOCATION);

}

}

// Event tracking

else {

if(allset([CATEGORY, ACTION, LABEL, VALUE])) {

sga('send', 'event', CATEGORY, ACTION, LABEL, VALUE);

}

else if(allset([CATEGORY, ACTION, LABEL])) {

sga('send', 'event', CATEGORY, ACTION, LABEL);

}

else if(allset([CATEGORY, ACTION])) {

sga('send', 'event', CATEGORY, ACTION);

}

}

// Utility functions

function isset(prop) {

return typeof prop !== 'undefined';

}

function allset(arr) {

for(var i = 0; i < arr.length; i++) {

if(!isset(arr[i])) return false;

}

return true;

}

|  |  |  |
| --- | --- | --- |
| **Name** | **Settings** | **Outcome** |
| [Test 1](https://drive.google.com/open?id=1RB5tQEPjeu4qExUdkIaBHYGc-4LZIBeC) | Slide master only, no story triggers |  |
|  |  |  |