

MORE FEATURES

TWIXL

Table of Contents

Advanced navigation and actions: Custom URL schemes.....	3
Using custom URL Schemes in your app.....	4
Custom URL Schemes: Advanced Mailto hyperlinks.....	16
Custom URL Schemes: How to use in HTML articles for the Browser Client.....	21
Filtering content: Advanced Scripting.....	24
Advanced Scripting: Introduction.....	25
Advanced Scripting Sample App 1: Login / Logout Button.....	31
Advanced Scripting Sample App 2: Different content for phone vs tablet vs Browser Client.....	34
Advanced Scripting Sample App 3: Using twxlog.....	39
Advanced Scripting Sample App 4: Using JSON and XML.....	43
Advanced Scripting Sample App 5: Using twxhttp.....	46
Advanced Scripting Sample App 6: Custom Vars.....	49
Advanced Scripting Sample App 7: Multiple Languages.....	52
Advanced Scripting Sample App 8: Privacy Policy.....	56
How to's.....	60
How to integrate a form, survey or shopping basket in a Twixl app?.....	61
How to display video in a Browse Grid cell?.....	63
How to resize Web Content to 100%?.....	64
How to use GPS or Google Maps in your Twixl app?.....	66
How to pass a Custom Entitlements Server token to the Browser Client?.....	72
Extra's.....	74
Scripting the Twixl Publisher plug-in.....	75
Installing the Helper as a Windows Service.....	80

Advanced navigation and actions: Custom URL schemes

Using custom URL Schemes in your app

Custom URL schemes are a powerful way to control navigation from just about anywhere in your app! This article provides a complete overview of what you can do with the different URL schemes.

1. Navigating to a collection or article

From within your article content, you can use special URL schemes to link to a collection or a particular article within a collection. These can also be used in InDesign content using a [Hyperlink](#), a [Web viewer](#) or a [Web Overlay Button](#).

You can use the following scheme:

```
tp-collection://[target_collection_name]/[target_article_name]
```

Click to copy

The syntax is as follows (always make sure to refer to the collection or article `name`, not the `title`):

<pre>tp-collection://[collection-name]</pre>	<p>Will link to the first article in a different collection.</p>
<pre>tp-collection://[collection-name]/[article-name]</pre>	<p>Will link to a specific article in a different collection.</p>
<pre>tp-collection://hamburger-menu</pre>	<p>Will open the Hamburger Menu (provided the Hamburger Menu is enabled).</p>
<pre>tp-collection://parent</pre>	<p>Will link to the parent collection of your current article (not supported in the Browser Client).</p>
<pre>tp-collection://root</pre>	<p>Will link to the root collection of your app.</p>

2. Navigating to an article or page

The links below can also be used in your InDesign content, in a hyperlink, a web viewer or a web overlay. It can be used to go to another article in the same collection.

```
tp-pagelink://[article_name]
```

 Click to copy

If you want to add a link to a particular page in an article in the same collection from within a browse page or article, you can do so creating an **HREF** like the one below:

```
tp-pagelink://[article_name]/[page_number]
```

 Click to copy

An HTML example would be:

```
<a href="tp-pagelink://TOC/3">
```

 Click to copy

For InDesign content the article name needs to be the name of the InDesign file. So, in case of the example above, the name of the InDesign document would be TOC.indd.

A number of other URL schemes for relative article and page navigation are also available:

<pre>tp-next-article://</pre>	Go to the next article.
<pre>tp-previous-article://</pre>	Go to the previous article.
<pre>tp-first-article://</pre>	Go to the first article of the publication.
<pre>tp-last-article://</pre>	Go to the last article of the publication.
<pre>tp-next-page://</pre>	Go to the next page.
<pre>tp-previous-page://</pre>	Go to the previous page.

<code>tp-first-page://</code>	Go to the first page of an article.
<code>tp-last-page://</code>	Go to the last page of an article.
<code>tp-article-top://</code>	Go to the top of a long-page article.
<code>tp-article-bottom://</code>	Go to the end of a long-page article.

3. Show/hide the toolbar (for InDesign content)

(Available in an InDesign [Hyperlink](#), a [Web viewer](#) or a [Web Overlay Button](#))

<code>tp-toolbar://hide</code>	Hides the toolbar with the Table of Contents icon, and optional sharing and bookmarking icons.
<code>tp-toolbar://show</code>	Displays the toolbar with the Table of Contents icon, and optional sharing and bookmarking icons.
<code>tp-toolbar://toggle</code>	Toggles the current view, whether visible or invisible.

4. Show Table of Contents (for InDesign content)

(Available in an InDesign [Hyperlink](#), a [Web viewer](#) or a [Web Overlay Button](#))

```
tp-toc://
```

Click to copy

When the `tp-toc://` url is triggered, it will show the Table of Contents dropdown.

5. Downloads overview

(Can be used in e.g. an InDesign hyperlink, a Web Link content item, or an HTML article.)

```
tp-downloads://
```

📄 Click to copy

If you have an app where (some or all) collections are marked as **Monolithic Download**, this URL scheme will trigger the display of an overview of the collections that have been downloaded.

5.1. Watch a short 'How to' video...

Collection Options

- Root Collection?
If checked, this is the default collection that will be displayed when the app starts
- Monolithic Download
If checked, the collection is downloaded before opening
- Requires entitlements
If enabled, the entitlements signin form will be shown for unentitled users

- The grid & item styles that are used for this collection are defined in your app settings under 'Search / Downloads' (the same styles are used for both the Downloads collection and the Search results).
- Sorting is done by most recent publish date.

Search / Library / Downloads

<p>Grid Style Default</p> <p style="font-size: 0.8em; margin-top: 5px;">The grid style to use for the search results, library and downloaded collections</p>	<p>Item Style Default</p> <p style="font-size: 0.8em; margin-top: 5px;">The item style to use for the search results, library and downloaded collections</p>
<p>Search Mode Full-Text Search</p> <p style="font-size: 0.8em; margin-top: 5px;">Search in the metadata of the content items or search in the metadata and the actual contents of the content items.</p>	

Users can also manage the content that has been downloaded: long-pressing the collection icon of the collection brings up a dialog that allows the user to delete the downloaded content. It can always be re-downloaded later.

6. Library overview

The Library feature allows the publisher to include a section where all the free collections for an app user are displayed, i.e. the free, the purchased and the entitled collections. This feature can be used in e.g. an InDesign hyperlink, a Weblink content item or an HTML article.

```
tp-library://
```

📄 Click to copy

- The grid & item styles that are used for this collection are defined in your app settings under 'Search / Downloads' (the same styles are used for both the Downloads collection and the Search results).
- Sorting is done by most recent publish date.

Search / Library / Downloads

Grid Style

The grid style to use for the search results, library and downloaded collections

Item Style

The item style to use for the search results, library and downloaded collections

Search Mode

Search in the metadata of the content items or search in the metadata and the actual contents of the content items.

The Library-feature differs from the Downloads feature as tp-library doesn't show all the offline available (=downloaded) collections. It only shows the for a user freely available collections and this difference should be considered before implementing this feature.

7. Searching

(Can be used in e.g. an InDesign hyperlink, a Web Link content item, or an HTML article.)

To trigger the search-dialog in your app, you use the following url scheme:

Custom URL Scheme	Function
<code>tp-search://</code>	Shows an empty dialog
<code>tp-search:// [keyword]</code>	Executes a search-command with the specified keyword

Example (search for content with the word `twixl`):

```
tp-search://twixl
```

[Click to copy](#)

- The grid & item styles that are used for the search result are defined in your app settings under 'Search / Downloads' (the same styles are used for both the Downloads collection and the Search results - see above).

8. Paywall & subscriptions

```
tp-paywall://
```

[Click to copy](#)

Enables you to trigger the paywall, showing both purchases and different subscriptions that you have defined.

```
tp-subscriptions://
```

[Click to copy](#)

Lets you trigger the paywall, showing only the different subscriptions you have defined.

```
tp-restore-purchases://
```

[Click to copy](#)

Lets you trigger the 'Restore purchases' functionality.

9. Entitlements

Show the Entitlements sign-in form

```
tp-entitlements-signin://
```

[Click to copy](#)

Triggers the entitlements sign-in form.

Show the Entitlements register form

```
tp-entitlements-register://
```

[Click to copy](#)

Triggers the entitlements register form. This only works if the entitlements server provides a "register" action. Available in the kiosk info cell - infoCell.html

Get entitlement token

```
tp-entitlements-get-token://<callback_function>
```

Click to copy

Get the current entitlement token, passing it as the argument to the `callback_function`. If no callback function is specified, it will default to `twixlKioskOnGetEntitlementToken`.

Clear entitlement token

```
tp-entitlements-clear-token://
```

Click to copy

Clears the entitlements token (can be used for testing purposes).

10. Sending e-mail

Please refer to the article [Advanced Mailto hyperlinks](#) to learn how to use the `mailto:` URL scheme, to send e-mail from your app.

11. Making a phone call

```
callto:[number] or tel:[number]
```

Click to copy

Allows you to trigger a phone call.

Example:

```
callto:+32493252577
```

```
tel:+32493252577
```

Click to copy

12. Sharing on social media

To trigger the sharing sheet, you use the following url-scheme:

```
tp-share://
```

📄 Click to copy

13. Going back in Browsing History

This special url scheme can be used in to go back in the browsing history in an app. The syntax is as follows:

```
tp-history-back://
```

📄 Click to copy

A history will be saved when going through the different content items. This means that if you are in **Article1** and you scroll to **Article2**, if you then press the custom URL `tp-history-back://` it will go back to **Article1**.

The history will be saved when:

- Scrolling horizontally to other content items.
- Scrolling horizontally/vertically to pages of the same content item.
- Going to another content item or collection with a custom url (`tp-pagelink://article2`, `tp-next-article`, `tp-collection://collection2...`)
- Going to different pages in the same content item with a custom url (`tp-next-page://`, `tp-last-page://`, `tp-first-page://...`)

14. Going back in Navigation History

This special url scheme can be used in all the same places as `tp-collection` links and goes back in the navigation stack for a specific number of steps. The syntax is as follows:

```
tp-navigate-up:// [number-of-steps]
```

📄 Click to copy

The `number-of-steps` indicates how many steps you want to go back.

Example:

Application XYZ has the following structure:

- **Root Collection** (browse mode)
 - **Languages Collection** (browse mode)
 - **English Collection** (browse mode)
 - **English Document 1** (detail mode)

Some specific uses and what the result will be (in this case):

- English document 1: `tp-navigate-up://1` takes you to the **English Collection**.
- English document 1: `tp-navigate-up://2` takes you to the **Languages Collection**.
- English document 1: `tp-navigate-up://3` takes you to the **Root Collection**.
- English document 1: `tp-navigate-up://200` also takes you to the **Root Collection**.

! IMPORTANT NOTE:

`tp-navigate-up://` is supported only on iOS and Android. It cannot be used in the browser client.

15. Launching an app

It is possible to trigger launching an app from within a Twixl app using the following scheme:

Please note that the implementation is slightly different on iOS vs Android.

- **iOS:** the URL scheme is the same as the application identifier:

e.g. if the app identifier is `com.twixlmedia.myapp` -> then the URL to launch the app would be: `com.twixlmedia.myapp://`

- **Android:** the URL scheme is the same as the app identifier without the dots, dashes, underscores and all lowercase:

e.g. if the app identifier is `com.twixlmedia.myapp` -> the URL to launch the app would be: `comtwixlmediamyapp://`

! IMPORTANT NOTE:

This will only work if the app is already installed on the device.

16. Registering a test device for push notifications

`tp-register-test-device://`

Triggering this custom URL scheme will add the current device to the list of test devices for push notifications. Note that once push notifications for your app has been configured, you'll need to create a new build of your app before you can use this URL scheme. More details [here](#).

17. Launching third-party apps

In this scenario, it depends on the url schemes supported by the app you want to launch. E.g. an app which can be opened using the url scheme `com.mycustomapp://` can be launched by simply creating a hyperlink as follows:

```
<a href="com.mycustomapp://">Launch My Custom App</a>
```

 Click to copy

IMPORTANT NOTE:

This will only work if the app has already been installed on the device.

18. Opening a hyperlink in the device browser

```
tp-open-in-device-browser=1
```

 Click to copy

Although in most cases, you want to keep readers in the embedded browser, sometimes you may want to open a link directly in the default browser on the device (e.g. Safari, Chrome, Brave...). A good use case for this is if you want to link to a PDF that you want readers to be able to download.

You can do this by adding this extra parameter to your URL. Available for [Hyperlinks](#).

Example:

The link you want to open is e.g.:

```
http://www.website.com/file2.pdf
```

 Click to copy

While just adding this link will open the URL in the embedded app browser, you can also make it open in the default browser on the device by adding the custom URL link. The link becomes:

```
http://www.website.com/file2.pdf?tp-open-in-device-browser=1
```

 Click to copy

! When your original link already has a query parameter, you need to change the `?` into a `&` when adding the custom URL link.

Example for a link with a query parameter:

E.g. the link with a query parameter looks like this:

```
http://www.website.com/file.pdf?id=1
```

📄 Click to copy

To open this link in the default device browser, the custom URL link will be added like this:

```
http://www.website.com/file.pdf?id=1&tp-open-in-device-browser=1
```

📄 Click to copy

19. Open in embedded web browser

```
tp-open-in-web-browser=1
```

📄 Click to copy

Adding this url parameter to a hyperlink will open the link in the embedded web browser instead of opening inline.

20. Get the device info via JavaScript

Adding the following JavaScript code to your Content Item, [Web Viewer](#), [Web Overlay Button](#), ...

```
window.location.href = "tp-device-info://";
```

📄 Click to copy

will execute the following JavaScript function:

```
function twixlOnGetDeviceInfo(deviceUDID, appVersion, appIdentifier, entitlementToken) {
}
```

📄 Click to copy

This then gives you access to the Device UDID, the app version, the app identifier and the entitlement token. You can also customize the name of the function that gets called:

```

window.location.href = "tp-device-info://myCustomFunctionName";
function myCustomFunctionName(deviceUDID, appVersion, appIdentifier, entitlementToken) {
}

```

📄 Click to copy

SAMPLE FILES:

For more info, see the sample files on [this GitHub-page](#).

21. Custom Variables

Custom variables allow you to set or get one or more variables with the following properties:

- They are saved on the device
- They can be re-used in advanced scripting

A sample scenario is e.g. to store a user preference and change the content based on that variable.

```
tp-set-custom-vars://
```

📄 Click to copy

```
tp-get-custom-vars://
```

📄 Click to copy

Example:

```
tp-set-custom-vars://?name=&product=
```

📄 Click to copy

MORE INFO ABOUT CUSTOM VARS:

Custom Variables rely on Advanced Scripting. For more info about Advanced Scripting and an example, see:

- [Advanced Scripting: Introduction](#)
- [Advanced Scripting | Sample App 6: Custom Vars](#)

Custom URL Schemes: Advanced Mailto hyperlinks

Using Hyperlinks in Twixl InDesign articles, you can launch the reader's mail client and create a new mail message. This article explains how to use the `mailto:` syntax (so you can prefill some fields for your reader) and tackles some difficulties for Android devices.

WARNING:

It appears iOS 14.6 introduced a new behaviour where support for rich content in mailto URLs has been removed, because of potential security issues. Please take this into account when trying to use mailto hyperlinks in your Twixl app.

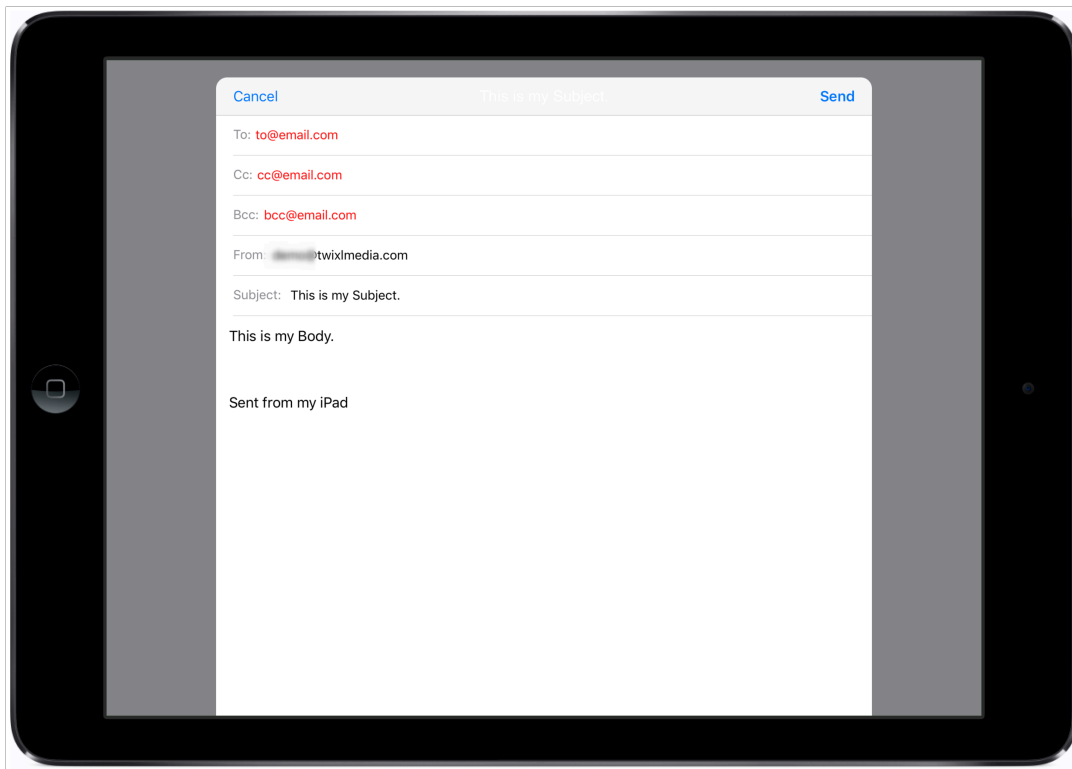
TIP:

For more general info about using Hyperlinks in InDesign, check this article: [Hyperlinks](#)

1. General Example

1.1. What?

Let's say you want to achieve the following result: A clickable hyperlink that will prepare a new email for your reader with a pre-defined addressee, subject and body.



Field	Value
To:	to@email.com
CC:	cc@email.com
BCC:	bcc@email.com
Subject:	This is the Subject.
Body:	This is the Body.

1.2. Syntax

The syntax for this example is as follows:

```
mailto:to@email.com?cc=cc@email.com&bcc=bcc@email.com&subject=This%20is%20my%20Subject.&body=This%20is%20my%20Body.
```

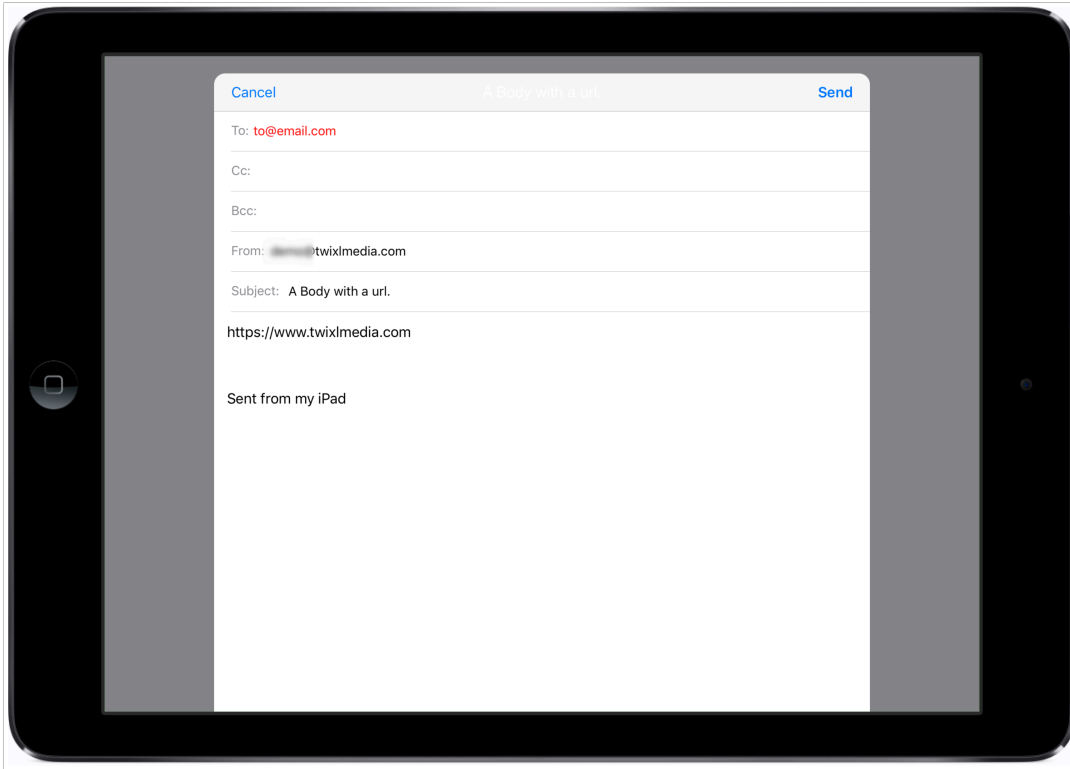
Syntax	Description
<code>mailto:to@email.com</code>	This is the startpoint, it opens the reader's mail-client with a new empty mail and

Syntax	Description
	the <i>To: Field</i> prefilled with the address <code>to@email.com</code>
<code>?cc=cc@email.com</code>	This syntax tells that you want to add an option to this url. In this case you want the <i>CC: Field</i> prefilled with the address <code>cc@email.com</code> . Extra options after the first option needs to be added with <code>&</code> as a prefix. The first option after mailto always needs the prefix <code>?</code> . The following options can also be added:
<code>&bcc=bcc@email.com</code>	Option to prefill the <i>BCC: Field</i> .
<code>&subject=This%20is%20my%20Subject.</code>	Option to prefill the <i>Subject: Field</i> . Don't forget to replace each space by <code>%20</code> .
<code>&body=This%20is%20my%20Body.</code>	Option to prefill the <i>Body: Field</i> . Don't forget to replace each space by <code>%20</code> .

2. Example with a url in the predefined body.

Adding a url to the body can be tricky. If you do this with the standard syntax, it will not work on Android devices.

2.1. What?



Field	Value
To:	to@email.com
CC:	
BCC:	
Subject:	A Body with a url.
Body:	https://www.twixlmedia.com

2.2. Syntax

The correct syntax for this example is as follows:

```
mailto:to@email.com?subject=A%20Body%20with%20a%20url.&body=https%3A%2F%2Fwww.twixlmedia.com
```

So, the tricky part is the url. You can't use a standard url like <https://www.twixlmedia.com>. You will need to **encode** that url first. You can encode a url by using one of these free online tools:

- <https://meyerweb.com/eric/tools/dencoder/>
- <https://www.urlencoder.org>
- <http://www.url-encode-decode.com>

The result for `https://www.twixlmedia.com` will be `https%3A%2F%2Fwww.twixlmedia.com`. It's this encoded url that you need to embed in the syntax of your `mailto:` url.

 **REMEMBER:**

Always test your setup before you publish! More info about *Preview on device* can be found [here](#).

Custom URL Schemes: How to use in HTML articles for the Browser Client

We support the vast majority of [Custom URL Schemes for apps](#) in the Browser client, but you'll need to make changes to your code if you want them to work for the [Browser Client](#). This article shows you how to.

Suppose you have this basic HTML-article:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Browser Client Test</title>
</head>
<body>

  <h1 id="title">show collection</h1>

  <script>

    function isBrowserClient() {
      try {
        if (window.name.slice(0, 4) == "twx-") {
          return true;
        } else if (window.location.hostname.indexOf("twixlmedia.com") > 0) {
          return true;
        }
      } catch (exception) {
        return false;
      }
    }

    function goToURL(url) {
      if (isBrowserClient()) {
        twxHandleURL(url);
      } else {
        window.location.href = url;
      }
    }
  }
</script>
</body>
</html>
```

```

    var title = document.getElementById("title");
    title.addEventListener('click', function() {
        goToURL("tp-collection://hidden-collection");
    });

</script>

</body>
</html>

```

Click to copy

When you want to support the *Custom URL Schemes* in a HTML document, you will need to use *JavaScript* to load the URL. We've made two extra functions in the sample below to help with this:

```

function isBrowserClient() {
    try {
        if (window.name.slice(0, 4) == "twx-") {
            return true;
        } else if (window.location.hostname.indexOf("twixlmedia.com") > 0) {
            return true;
        }
    } catch (exception) {
        return false;
    }
}

```

Click to copy

This function checks if the HTML is loaded via the Browser Client or if it's loaded in a mobile app.

```

function goToURL(url) {
    if (isBrowserClient()) {
        twxHandleURL(url);
    } else {
        window.location.href = url;
    }
}

```

Click to copy

This function is a helper to make loading a URL work in both the mobile apps and in the browser client. If it's the Browser Client, we need to use the function `twxHandleURL` (which is always available in the browser client). If it's a mobile app, you can just navigate to the new URL.

The last piece will depend on how you've constructed the HTML:

```
var title = document.getElementById("title");
title.addEventListener('click', function() {
    goToURL("tp-collection://hidden-collection");
});
```

📄 Click to copy

In our example, we are using plain JavaScript to handle the click event on the `title` element. When the user taps or clicks on the `title` element, it will navigate to the *Collection* named `hidden-collection`.

Reminder: The Twixl Browser Client is a very easy, quick and cheap solution to have an internet extension of your app so users can share your app content with others that don't have your app or to simply view app content while using a computer. However, the Twixl Browser Client does not replace fully designed websites nor has the same specific functionalities as your app might have. In case you want all features on your website, we recommend to use website builders.

Filtering content: Advanced Scripting

Advanced Scripting: Introduction

With Advanced Scripting you can decide to filter Content Items or Collections based on selected criteria.

1. Advanced Scripting, what is it?

Using Advanced Scripting, you can link a number of properties available in the app (bundle ID, language, geolocation, ...) and decide whether the Content Item or Collection should be visible or not.

ENTITLEMENT PACK REQUIRED:

To make use of the Advanced Scripting functionality, you need to have the Entitlement Pack activated. Contact the [sales department](#) for details.

2. General info about Advanced Scripting

Advanced scripting is a collection of [JavaScript](#) functions that will be evaluated for each collection and/or content item in the context of an application.

It can be used to filter the content items shown in a collection based on a custom set of business rules.

Where can I activate Advanced Scripting?

Although Advanced Scripting is all about filtering Content Items and Collections, you define Advanced Scripting on a Collection level. As such you need to edit a Collection in order to add a script.

Here's a sample script:

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
```

```

return true;
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    return true;
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
}

```

 Click to copy

! IMPORTANT:

Each of the 4 base functions that get executed in the advanced filter currently have a maximum execution time of 2 seconds.

Advanced Scripting

```

1 // Executed once for every collection before the filtering of the items
2 function setupFilter(collection, environment) {
3 }
4
5 // Executed once for every collection
6 function shouldShowCollection(collection, environment) {
7     return true;
8 }
9
10 // Executed for every single content item
11 function shouldShowItem(contentItem, collection, environment) {
12     return true;
13 }
14
15 // Executed once for every collection after the filter
16 function teardownFilter(collection, environment) {
17 }

```

Syntax and lifecycle documentation

[Advanced Scripting Documentation | API Reference](#)

Save

Cancel

TIP:

You can find a complete syntax and lifecycle overview [here](#). This info also can be found on the Twixl platform, below the Advanced Scripting editor window.

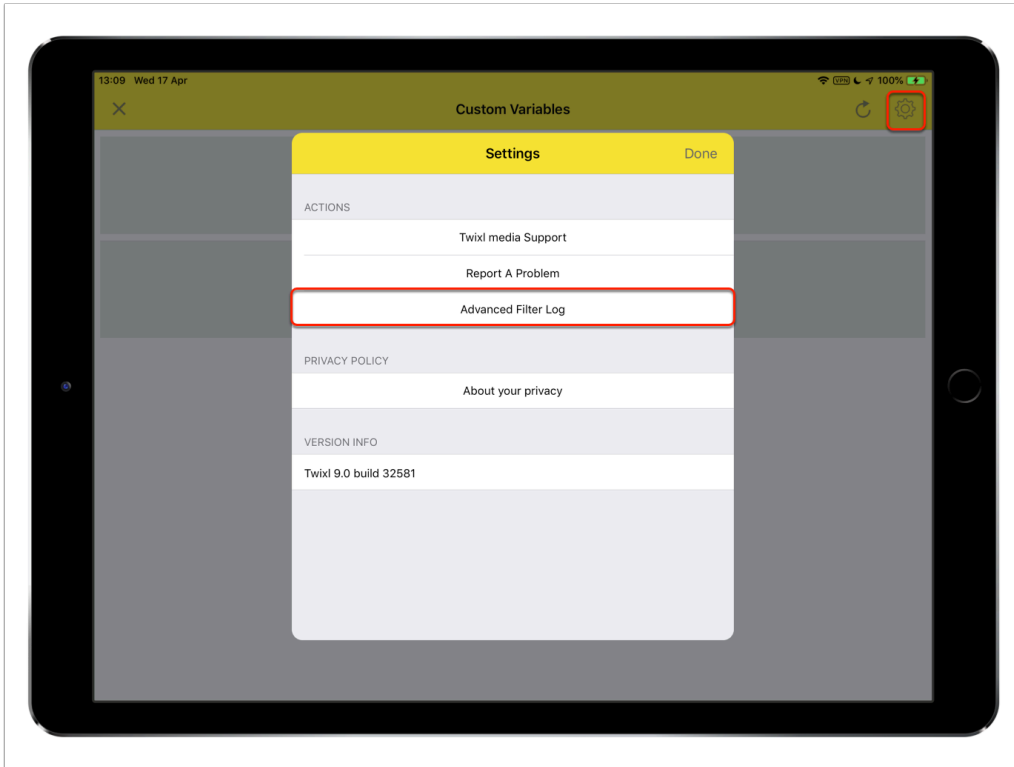
Debugging options

In a mobile app

2.1. App without a Hamburger Menu

For apps without a [Hamburger Menu](#):

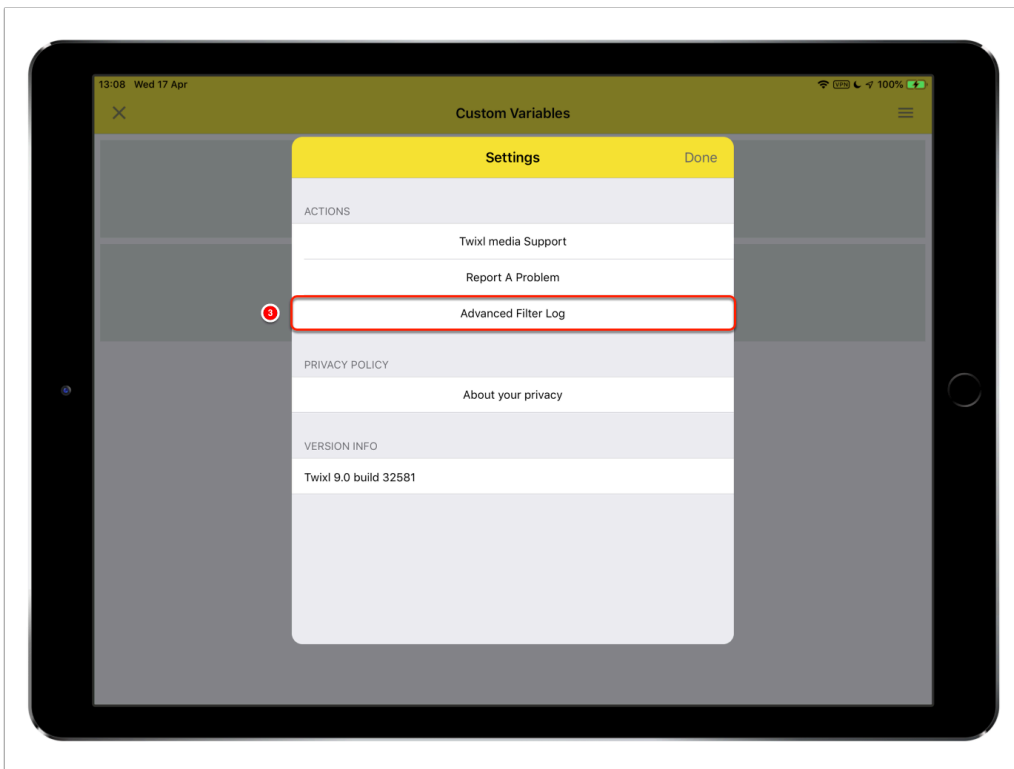
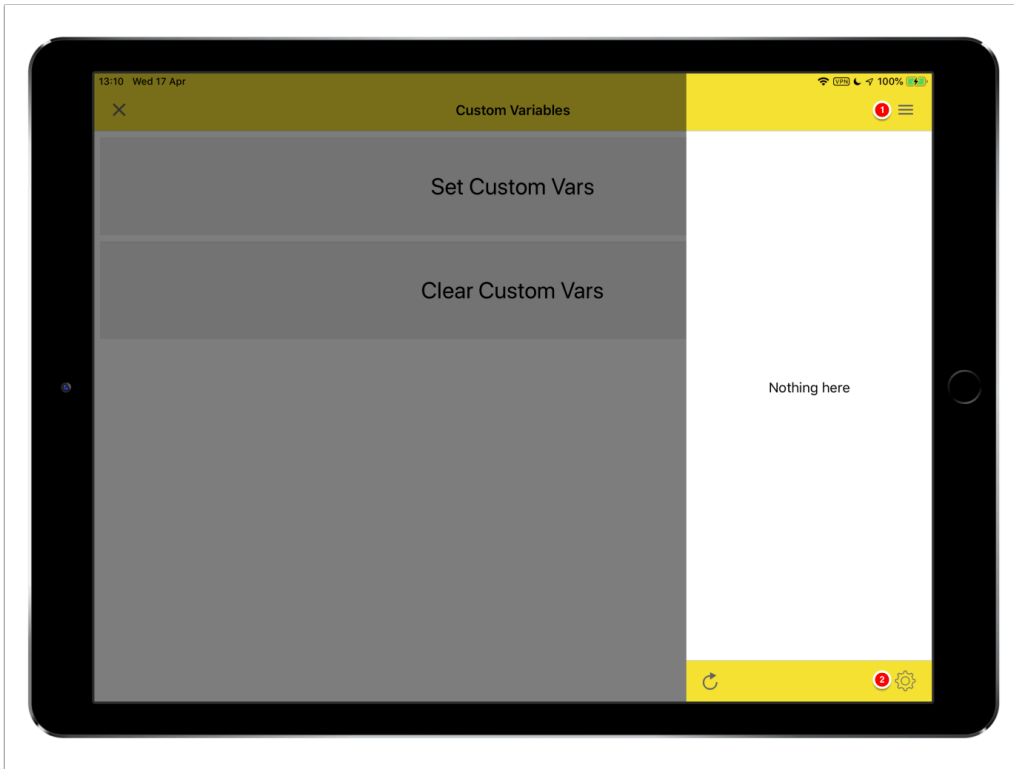
1. Tap the *Gear Menu* first
2. Then select *Advanced Filter Log*



2.2. App with a Hamburger Menu

For apps with a [Hamburger Menu](#):

1. Activate the Hamburger Menu first
2. Select the *Gear Menu*
3. Then select *Advanced Filter Log*



In the Browser Client

For [The Browser Client](#), you need to add the suffix `?debug=1` and then you'll notice the debugger icon in the toolbar.

So this means, if your Browser Client url is:

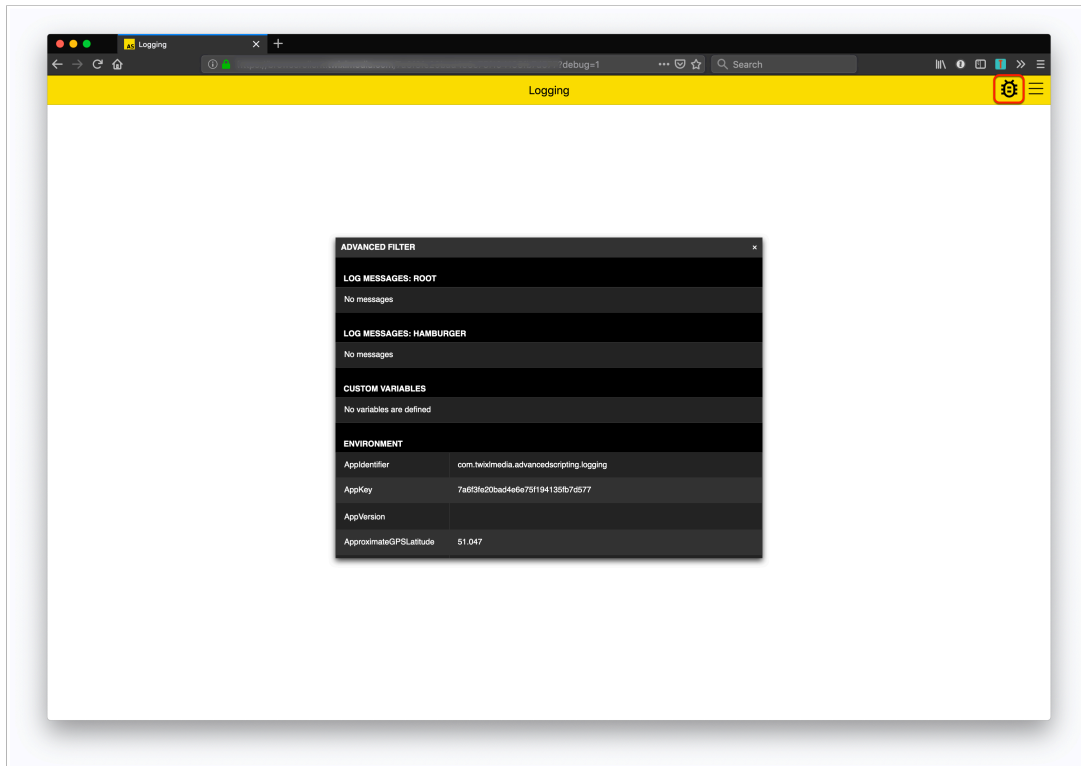
`https://browserclient.twixlmedia.com/<app>`

📄 Click to copy

Then you'll need to add `?debug=1` in the following way:

`https://browserclient.twixlmedia.com/<app>?debug=1`

📄 Click to copy



3. Advanced Scripting Sample Apps

INFO:

We've created several Advanced Scripting Sample Apps for you, each with a specific case that could be useful. They are a good start to explore the immense list of possible scenarios for Advanced Scripting.

- [Advanced Scripting | Sample App 1: Login / Logout Button](#)
- [Advanced Scripting | Sample App 2: Different content for phone vs tablet vs Browser Client](#)
- [Advanced Scripting | Sample App 3: Using twxlog](#)
- [Advanced Scripting | Sample App 4: Using JSON and XML](#)
- [Advanced Scripting | Sample App 5: Using twxhttp](#)

- [Advanced Scripting | Sample App 6: Custom Vars](#)
- [Advanced Scripting | Sample App 7: Multiple Languages](#)
- [Advanced Scripting | Sample App 8: Privacy Policy](#)

Advanced Scripting | Sample App 1: Login / Logout Button

In the series Advanced Scripting Sample Apps we explain some use cases on how to use the Advanced Scripting. **For more general info, it's very important that [you read this KB-article first](#).**

Preview with the Twixl App

You can preview this app by scanning the QR code with the [Twixl app](#).

The test Entitlement-account you can use to test this behaviour:

- **Username:** test
- **Password:** test



Use Case

In this example, we show a Login button in the app when you are not entitled and a Logout button when you are entitled.

Instructions

Preparations

1. Create a new app
2. Setup Entitlements in the app (e.g. Print Subscribers)
3. Add a Content Item to the Root Collection with the following properties:
 - Type: Web Link
 - Name: `login`
 - Link to URL: `tp-entitlements-signin://`
4. Add a Content Item to the Root Collection with the following properties:
 - Type: Web Link
 - Name: `logout`
 - Link to URL: `tp-entitlements-clear-token://`
5. Add a Content Item to the Root Collection with the following properties:
 - Type: HTML Article
 - Name: `whatever`
6. Set up your Advanced Scripting (see below)

Advanced Scripting Settings


For the Root Collection

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    return true;
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    if (contentItem.Name == "login") {
        return !environment.IsEntitled();
    }
    if (contentItem.Name == "logout") {
        return environment.IsEntitled();
    }
    return true;
}
```

```
}  
  
// Executed once for every collection after the filtering of the items  
function teardownFilter(collection, environment) {  
}  
}
```

 Click to copy

Related KB-articles

- [Using the Entitlements option for article-based apps](#)
- [Custom URL Schemes for article-based apps](#)
- [Working with content items](#)
- [Working with collections](#)

Advanced Scripting | Sample App 2: Different content for phone vs tablet vs Browser Client

In the series Advanced Scripting Sample Apps we explain some use cases on how to use the Advanced Scripting. **For more general info, it's very important that [you read this KB-article first](#).**

Preview with the Twixl App

You can preview this app by scanning the QR code with the [Twixl app](#).



Use Case

In this example, we show different content on phone vs tablet vs the Browser Client

Instructions

Preparations

1. Create a new app
2. Add the following content items in the Root Collection:
 - Placeholder for tablet
 - Type: Placeholder
 - Name: `tablet`
 - Title: `Tablet`
 - Placeholder for phone
 - Type: Placeholder
 - Name: `phone`
 - Title: `Phone`
 - Placeholder for browser
 - Type: Placeholder
 - Name: `browser`
 - Title: `Browser`
 - Placeholder for the other content
 - Type: Placeholder
 - Name: `any`
 - Title: `Any`
3. Setup your Advanced Scripting (see below)

Advanced Scripting Settings

1. Exact naming

For the Root Collection:

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    return true;
}
```

```
// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
  if (contentItem.Name == "browser") {
    return environment.IsBrowser();
  } else if (contentItem.Name == "phone") {
    return environment.IsPhone();
  } else if (contentItem.Name == "tablet") {
    return environment.IsTablet();
  } else {
    return true;
  }
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
}
```

[Click to copy](#)

2. Non-exact naming

In reality, your Content Items will probably have other names (in order to differentiate) and then it's probably not a good idea to call them all phone, or tablet or browser. In reality, you'll probably work with a suffix, a prefix or a name containing one of the parameters mentioned above.

2.1. Using a prefix

If you want to add a prefix to your existing Name for your Content Item, then you need to use the following code:

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
  return true;
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
  if (contentItem.Name.startsWith("browser")) {
    return environment.IsBrowser();
  } else if (contentItem.Name.startsWith("phone")) {
```

```

        return environment.IsPhone();
    } else if (contentItem.Name.startsWith("tablet")) {
        return environment.IsTablet();
    } else {
        return true;
    }
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
}

```

 Click to copy

The name of your Content Item should then be something like:

- `browser-contentitem01`
- `phone-contentitem01`
- `tablet-contentitem01`

2.2. Using a suffix

If you want to add a suffix to your existing Name for your Content Item, then you need to use the following code:

```

// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    return true;
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    if (contentItem.Name.endsWith("browser")) {
        return environment.IsBrowser();
    } else if (contentItem.Name.endsWith("phone")) {
        return environment.IsPhone();
    } else if (contentItem.Name.endsWith("tablet")) {
        return environment.IsTablet();
    } else {
        return true;
    }
}

// Executed once for every collection after the filtering of the items

```

```
function teardownFilter(collection, environment) {  
}
```

📄 Click to copy

The name of your Content Items should then be something like:

- `contentitem01-browser`
- `contentitem01-phone`
- `contentitem02-tablet`

Related KB-articles

- [The Browser Client](#)
- [Working with collections](#)
- [Working with content items](#)

Advanced Scripting | Sample App 3: Using twxlog

In the series Advanced Scripting Sample Apps we explain some use cases on how to use the Advanced Scripting. **For more general info, it's very important that [you read this KB-article first](#).**

Preview with the Twixl App

You can preview this app by scanning the QR code with the [Twixl app](#).



Use Case

In this example, we show how to use the `twxlog` functions and also highlight the lifecycle of the Advanced Scripting. This is ideal to debug while setting up your Advanced Scripting scenario!

Instructions

Preparations

1. Create a new app
2. Enable the Hamburger Menu
3. Add a content item in the Root Collection with the following properties:
 - Type: Placeholder
 - Name: `item-root`
 - Title: `Root Collection Item`
4. Add a content item in the Hamburger Menu Collection with the following properties:
 - Type: Placeholder
 - Name: `item-hamburger`
 - Title: `Hamburger Item`
5. Add a new Collection with the name Sample Collection
6. Add a Content Item in the Sample Collection with the following properties:
 - Type: Placeholder
 - Name: `item-sample`
 - Title: `Sample Collection Item`
7. Set up your Advanced Scripting (see below)
8. Run the app in the Twixl app and then go to the *Gear menu* > **Advanced Filter Log** to see the log messages.
9. For the Browser Client, open the Root Collection, append `?debug=1` to the url and you'll see the debug icon in the toolbar.

Advanced Scripting Settings

For the Root Collection:

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
    twxlog.Info("setupFilter: " + collection.Name);
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    twxlog.Info("shouldShowCollection: " + collection.Name);
    return true;
}
```

```
// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    twxlog.Info("shouldShowItem: " + collection.Name + ", " + contentItem.Name);
    return true;
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
    twxlog.Info("teardownFilter: " + collection.Name);
}
```

[Click to copy](#)

For the Hamburger Menu Collection:

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
    twxlog.Info("setupFilter: " + collection.Name);
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    twxlog.Info("shouldShowCollection: " + collection.Name);
    return true;
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    twxlog.Info("shouldShowItem: " + collection.Name + ", " + contentItem.Name);
    return true;
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
    twxlog.Info("teardownFilter: " + collection.Name);
}
```

[Click to copy](#)

For the Sample Collection:

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
    twxlog.Info("setupFilter: " + collection.Name);
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    twxlog.Info("shouldShowCollection: " + collection.Name);
}
```

```
    return true;
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    twxlog.Info("shouldShowItem: " + collection.Name + ", " + contentItem.Name);
    return true;
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
    twxlog.Info("teardownFilter: " + collection.Name);
}
```

 Click to copy

Related KB-articles

- [Hamburger Menu \(> 5.5\)](#)
- [The Browser Client](#)
- [Working with collections](#)
- [Working with content items](#)

Advanced Scripting | Sample App 4: Using JSON and XML

In the series Advanced Scripting Sample Apps we explain some use cases on how to use the Advanced Scripting. **For more general info, it's very important that [you read this KB-article first](#).**

Preview with the Twixl App

You can preview this app by scanning the QR code with the [Twixl app](#).



Use Case

In this example, we show how to use the `twxml` and `twjson` functions. These allow you to parse XML and JSON data structures. There are often used in combination with the [twhttp](#) module as most web services return either JSON or XML.

Some use cases:

1. Based on the Entitlement Token, you can issue for example a request to the Entitlement Server to get more information about the user and change the content based on that information. Your Entitlement Server can output XML or JSON so that the advanced script can easily parse this data.

- In the `setupFilter`, you might want to issue an HTTP request to your ad system to find out which of your ads are still valid so that you can use that information to hide the invalid ads in your app. If your ad server returns XML or JSON, you can easily parse the response with the provided `twxxml` and `twxjson` modules.

Instructions

Preparations

- Create a new app
- Set up your Advanced Scripting (see below)
- Run the app in the Twixl app and then go to the *Gear menu* > **Advanced Filter Log** to see the log messages.
- For the browser client, open the root collection, append `?debug=1` to the url and you'll see the debug icon in the toolbar.

Advanced Scripting Settings

For the Root Collection:

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {

    // Get some json
    var json = '{"name": "Twixl media", "items": ["item 1", "item 2"]}';

    // Parse the json and log it
    var parsedJson = twxjson.Parse(json);
    twxlog.InfoDump(parsedJson);

    // Encode json
    var data = {"name": "Twixl", "items": ["item 1", "item 2"]};
    twxlog.Info(twxjson.Encode(data));

    // Get some xml
    var xml = '<?xml version="1.0" encoding="UTF-8" standalone="no"?><data><name>Twixl
Publisher</name><items count="2"><item>Item 1</item><item>Item 2</item></items></data>';

    // Parse the xml and log it
    var parsedXml = twxxml.ParseString(xml);
    twxlog.Info(parsedXml.String());
    twxlog.InfoDump(parsedXml.Element("name").Text());
    twxlog.InfoDump(parsedXml.Element("items").Attr("count", 0));
    twxlog.InfoDump(parsedXml.Element("items").Elements("item"));
```

```
}  
  
// Executed for once for every collection  
function shouldShowCollection(collection, environment) {  
    return true;  
}  
  
// Executed for every single content item  
function shouldShowItem(contentItem, collection, environment) {  
    return true;  
}  
  
// Executed once for every collection after the filtering of the items  
function teardownFilter(collection, environment) {  
}
```

 Click to copy

Related KB-articles

- [Working with collections](#)

Advanced Scripting | Sample App 5: Using twxhttp

In the series Advanced Scripting Sample Apps we explain some use cases on how to use the Advanced Scripting. **For more general info, it's very important that [you read this KB-article first](#).**

Preview with the Twixl App

You can preview this app by scanning the QR code with the [Twixl app](#).



Use Case

In this example, we show how to use the `twxhttp` functions. These allow you to make requests to external websites to obtain information from there. Very handy to get info from internal company-tools, e.g. if your Twixl app is a sales tool!

Instructions

Preparations

1. Create a new app
2. Set up your Advanced Scripting (see below)
3. Run the app in the Twixl app and then go to the *Gear menu* > **Advanced Filter Log** to see the log messages.
4. For the Browser Client, open the root collection, append `?debug=1` to the url and you'll see the debug icon in the toolbar.

Advanced Scripting Settings

For the Root Collection:

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {

    // Get a HTTP client
    var client = twxhttp.NewClient();

    // Get the text from a url
    var textURL = "https://demo.twixlmedia.com/advanced-scripting/sample.txt";
    var textResponse = client.Get(textURL);
    twxlog.Info("Text output: " + textResponse.ToString());

    // Get JSON from a url
    var jsonURL = "https://demo.twixlmedia.com/advanced-scripting/sample.json";
    var jsonResponse = client.Get(jsonURL);
    twxlog.InfoDump(jsonResponse.ToJSON());

    // Using the status code
    var badURL = "https://demo.twixlmedia.com/advanced-scripting/sample.invalid";
    var badResponse = client.Get(badURL);
    twxlog.Info("Status code: " + badResponse.StatusCode());

    // HTTP Post
    var postURL = "https://demo.twixlmedia.com/advanced-scripting/post.php";
    var postResponse = client.PostForm(postURL, {"name": "Twixl media", "product":
"Twixl Publisher"});
    twxlog.Info("Post output: " + postResponse.ToString());

    // HTTP Raw Post
```

```
var rawURL = "https://demo.twixlmedia.com/advanced-scripting/post_json.php";
var rawResponse = client.PostRaw(rawURL, "application/json", '{"name": "Twixl
media", "product": "Twixl Publisher"}');
twxlog.Info("Raw Post output: " + rawResponse.ToString());

}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    return true;
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    return true;
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
}
```

 Click to copy

Related KB-articles

- [Working with collections](#)
- [The Browser Client](#)

Advanced Scripting | Sample App 6: Custom Vars

In the series Advanced Scripting Sample Apps we explain some use cases on how to use the Advanced Scripting. **For more general info, it's very important that [you read this KB-article first](#).**

Preview with the Twixl App

You can preview this app by scanning the QR code with the [Twixl app](#).



Use Case

In this example, we show how to use the `tp-set-custom-vars://` function.

Custom variables allow you to set one or more variables with the following properties:

- They are saved on the device
- They can be re-used in the advanced scripting

A sample scenario is e.g. to store a user preference and change the content based on that variable.

Instructions

Preparations

1. Create a new app
2. Add a content item with the following properties to the Root Collection:
 - Type: Web Link
 - Title: `Set custom vars`
 - URL: `tp-set-custom-vars://?name=Twixl&product=Publisher`
3. Add a content item with the following properties to the root collection:
 - Type: Web Link
 - Title: Clear custom vars
 - URL: `tp-set-custom-vars://?name=&product=`
4. Set up your Advanced Scripting (see below)
5. Run the app in the Twixl app and then go to the *Gear menu* > **Advanced Filter Log** to see the log messages.
6. For the Browser Client, open the Root Collection, append `?debug=1` to the url and you'll see the debug icon in the toolbar.
7. After tapping the Set Variables, check the debugger again to see that the values are saved

Advanced Scripting Settings

For the Root Collection

```
// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {

    var customVars = environment.CustomVars();
    twxlog.InfoDump(customVars);

}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    return true;
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    return true;
}
```

```
}  
  
// Executed once for every collection after the filtering of the items  
function teardownFilter(collection, environment) {  
}  
}
```

 Click to copy

How to use Custom Variables in a HTML-article?

If you want to get a list of Custom Variables from within an HTML-article, you can use the following sample code:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <meta http-equiv="X-UA-Compatible" content="ie=edge">  
  <title>tp-get-custom-vars</title>  
</head>  
<body>  
  <script>  
  
    function twixlOnGetCustomVars(customVariablesAsJSON) {  
      console.log(customVariablesAsJSON);  
    }  
  
    window.location.href = "tp-get-custom-vars://twixlOnGetCustomVars";  
  
  </script>  
</body>  
</html>
```

 Click to copy

Related KB-articles

- [Working with collections](#)
- [The Browser Client](#)
- [Working with content items](#)

Advanced Scripting | Sample App 7: Multiple Languages

In the series Advanced Scripting Sample Apps we explain some use cases on how to use the Advanced Scripting. **For more general info, it's very important that [you read this KB-article first](#).**

Preview with the Twixl App

You can preview this app by scanning the QR code with the [Twixl app](#).



Use Case

In this example, we show how you can ask the user to select a language and filter Content Items and Collections based on the chosen language.

Instructions

Preparations

1. Create a new app
2. Add the following contents item to the Root Collection with the following properties:
 - Button to select English
 - Type: Web link
 - Name: `select.en`
 - Title: `English`
 - Link to URL: `tp-set-custom-vars://?lang=en`
 - Button to select French
 - Type: Web link
 - Name: `select.fr`
 - Title: `French`
 - Link to URL: `tp-set-custom-vars://?lang=fr`
 - English Collection
 - Type: Collection and Link
 - Name: `en.collection1`
 - Title: `English Collection 1`
 - French Collection
 - Type: Collection and Link
 - Name: `fr.collection1`
 - Title: `French Collection 1`
3. Add a content item to the hamburger collection with the following properties:
 - Type: Web link
 - Name: `Choose Language`
 - Link to URL: `tp-set-custom-vars://`
4. Set up your Advanced Scripting (see below)

Advanced Scripting Settings

For the Root Collection

```
// Create a global variable in which we store the language
var language = "";

// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
```

```

    language = environment.CustomVar("lang").toLowerCase();
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    return collection.Name.startsWith(language);
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    if (language !== "") {
        return contentItem.Name.startsWith(language);
    }
    return contentItem.Name.startsWith("select.");
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
}

```

 Click to copy

For all other collections and the hamburger menu where you want to filter by language

```

// Create a global variable in which we store the language
var language = "";

// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
    language = environment.CustomVar("lang").toLowerCase();
}

// Executed for once for every collection
function shouldShowCollection(collection, environment) {
    if (language === "") {
        return false;
    }
    return collection.Name.startsWith(language);
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
    return true;
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
}

```

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Related KB-articles

- [Working with collections](#)
- [Hamburger Menu](#)
- [Working with content items](#)

Advanced Scripting | Sample App 8: Privacy Policy

In the series Advanced Scripting Sample Apps we explain some use cases for the Advanced Scripting. **For more general info, it's very important that [you read this KB-article first](#).**

Preview with the Twixl App

You can preview this app by scanning the QR code with the [Twixl app](#).



Use Case

In this example, we show how you can add a Privacy Policy to your app which users have to accept before they are granted access to your app.

Instructions

Preparations

1. Create a new app
2. Add a Cell Style for:
 - The Privacy Policy
 - The button to accept the Privacy Policy
 - The default content
3. Add the following contents items to the Root Collection with the following properties:
 - Privacy policy
 - Type: Embedded Web Viewer
 - Name: `privacy.policy`
 - Title: `Privacy Policy`
 - Content: zipped .html file with the privacy policy
 - Button to accept the Privacy Policy
 - Type: Web link
 - Name: `privacy.accept`
 - Title: `Accept & Continue`
 - Link to URL: `tp-set-custom-vars://?has_accepted=yes&version=20190125`
 - The actual content (just ensure that the name doesn't start with privacy).
4. Set up your Advanced Scripting (see below)

Advanced Scripting Settings

For the Root Collection

```
// Keep a variable to check if the user accepted the privacy policy
var hasAccepted = false;

// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
  hasAccepted = environment.CustomVar("has_accepted") == "yes";
}

// Executed once for every collection
// Root and hamburger are always shown
function shouldShowCollection(collection) {
  return hasAccepted;
}
```

```

}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
  if (contentItem.Name.startsWith("privacy.")) {
    return !hasAccepted;
  }
  return hasAccepted;
}

// Executed once for every collection after the filtering of the items
function teardownFilter(collection, environment) {
}

```

[Click to copy](#)

Extra exercise 1 – Clearing the setting

Preparations

1. Add a the following content item to the Hamburger Menu Collection
 - Button to accept the Privacy Policy
 - Type: Web link
 - Name: `<default>`
 - Title: `Clear Privacy Policy`
 - Link to URL: `tp-set-custom-vars://`
2. Set up your Advanced Scripting (see below)

Advanced Scripting Settings

For the Hamburger Menu Collection:

```

// Executed once for every collection before the filtering of the items
function setupFilter(collection, environment) {
}

// Executed for every single content item
function shouldShowItem(contentItem, collection, environment) {
  var hasAccepted = environment.CustomVar("has_accepted") === "yes";
  return hasAccepted;
}

// Executed once for every collection after the filtering of the items

```

```
function teardownFilter(collection, environment) {  
}
```

📄 Click to copy

Extra exercise 2

Try to improve the code and add an extra check to find out which version of the privacy policy was accepted. If it's different than what has been accepted before, you should force the user to agree to it again...

Related KB-articles

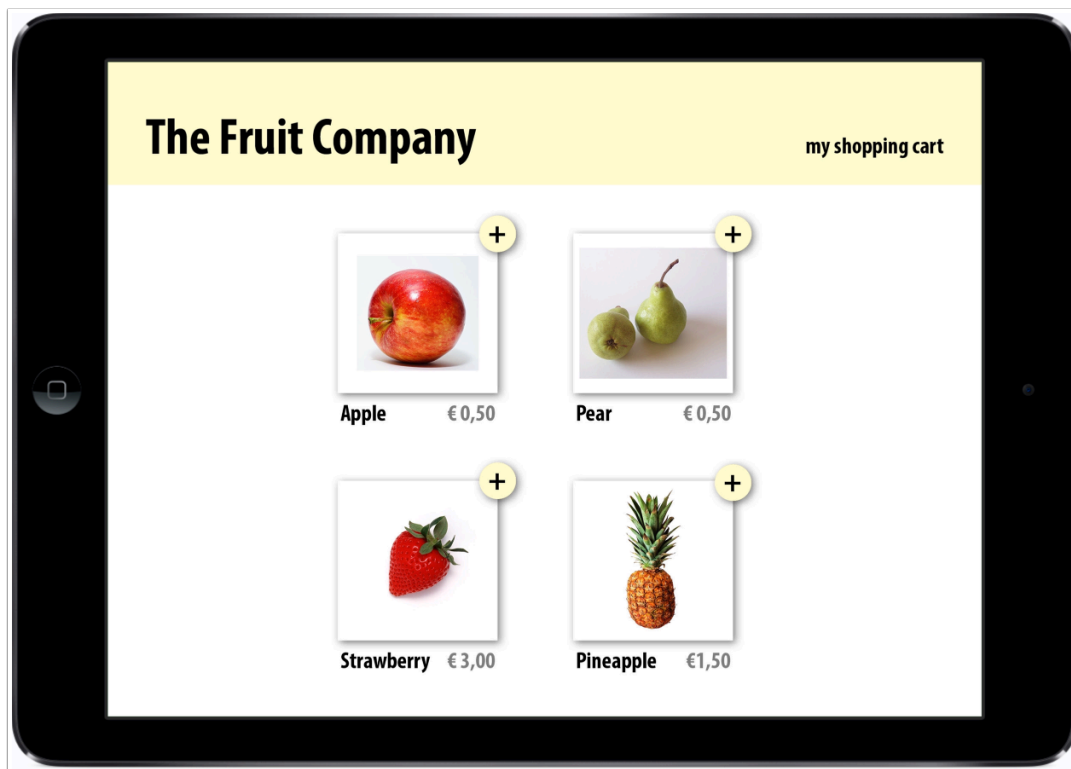
- [Working with collections](#)
- [Hamburger Menu](#)
- [Working with content items](#)

How to's

How to integrate a form, survey or shopping basket in a Twixl app?

InDesign [Web Viewers](#) are a very powerful and sometimes underestimated feature that allows you to add dynamic content in a Twixl publication. Any rectangle on an InDesign page can become a source of HTML content. This is not limited to just displaying a specific page of a web site, but can also be used to integrate things like a form, a survey or even a shopping basket that can use [localStorage](#).

In order to explain how this works, we created a **Shopping basket** example.



You can check out the result in the Twixl Viewer by tapping [this link](#) on your device (make sure you have the [Viewer Classic](#) installed). If you open the Shopping Basket example in the Twixl Viewer, there will be three pages in the publication:

- the first page shows 4 types of fruit, and tapping the "+" icon will add the item to the shopping cart and display the overview of the basket
- the second page provides the same option, but is visualized a bit differently
- the third page shows an overview of the shopping cart, from where the order can be confirmed

How does this work?

The InDesign source publication can be downloaded [here](#). The download consists of:

- an InDesign book called `LocalStorageShoppingCart` with three articles
- a `WebResources` folder with the HTML content

MORE INFO:

1. In **article 1**, each of the 4 types of fruit has a [Web Overlay button](#) assigned to it that triggers it to be added to the shopping cart.
2. In **article 2**, the same information is visualized differently using [Web Viewers](#) for each of the fruit types, and will allow you to "Add one" to the basket and update the information of the button on the fly.
3. **Article 3** is the overview of the shopping basket, where a user can confirm the order by entering his e-mail address.

The logic for all of this can be found in the contents of the **WebResources** folder, in a document `shopping_cart.html`, along with some JavaScript files.

How to display video in a Browse Grid cell?

If you want to display video inside a Browse Grid cell in article-based apps, read this [KB-article!](#)

In short


Basically, you need to wrap a video inside a HTML document using either an Inline Web Viewer or an Embedded Viewer and add an option to the `<video>` tag.

How to

1. Create a .html-file with a link to the video (example below).
2. Link to any video-source (e.g. Vimeo)
3. Add the `playsinline` option to the `<video>` tag. This disables the full screen on phones and this way, the video will be played inside the Browse Grid Cell.
4. Create an Inline Web Viewer or an Embedded Web Viewer. See [Working with content items](#) for more info.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Inline Movie</title>
  <style>
    body { margin: 0; padding: 0; }
  </style>
</head>
<body>
  <video autoplay="" src="THE-LINK-TO-YOUR-VIDEO" type="video/mp4" class="media-document
iPhone video" playsinline width="100%" height="100%"></video>

</body>
</html>
```

 Click to copy

How to resize Web Content to 100%?

If you have HTML Content (either in an InDesign-article, in an HTML-article or some kind of Web Viewer), this trick will help you to calculate the available vertical screen estate, without the toolbar!

What?

The toolbar is not the same on all devices, certainly not on Android devices (due to the vast multitude of available Android devices). The trick is to check the available size in the browser window (which in Twixl terminology is the size of the actual web viewer area, equal to the screen size minus the toolbar)


How?

You can easily do this in JavaScript as follows:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Window Size</title>
</head>
<body>
  <pre><script>
var windowWidth = window.innerWidth
  || document.documentElement.clientWidth
  || document.body.clientWidth;

var windowHeight = window.innerHeight
  || document.documentElement.clientHeight
  || document.body.clientHeight;

document.writeln("window width: " + windowWidth);
document.writeln("window height: " + windowHeight);
  </script></pre>
</body>
</html>
```

 Click to copy

How to use GPS or Google Maps in your Twixl app?

In this KB-article, we'll explain how you can integrate Google Maps into content of your app. The following types of content are supported:

- [HTML-articles](#)
- [Web Viewers](#)
- [Web Overlay Buttons](#)

1. Create a new HTML web page

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <title>Google maps - Twixl</title>
  <meta name="viewport" content="initial-scale=1.0, user-scalable=no" />

  <style type="text/css">
    html { height: 100%; }
    body { height: 100%; margin: 0; padding: 0; }
    #map_canvas { height: 100%; width: 100%; }
  </style>
</head>

<body>
  <div id="map_canvas"></div>
</body>
</html>
Explanation:
<div id="map_canvas"></div>
The div map_canvas will be the placeholder for the map.
<style type="text/css">
  html { height: 100%; }
  body { height: 100%; margin: 0; padding: 0; }
  #map_canvas { height: 100%; width: 100%; }
</style>
```

 Click to copy

The inline CSS above will make your HTML page scalable. So you can easily change width and height from your canvas (also in InDesign).

2. Add Google API

First you need to provide a link to the Google Maps API and add the initialize function to the header of your HTML page. The URL contained in the `script` tag is the location of a JavaScript file that loads all of the symbols and definitions you need for using the Google Maps API. This `script` tag is required.

```
<script type="text/javascript" src="http://maps.google.com/maps/api/
js?sensor=false"></script>

<script type="text/javascript">
function initialize() {

var mapOptions = {
center: new google.maps.LatLng(51.01471, 3.651465),
zoom: 11,
mapTypeId: google.maps.MapTypeId.ROADMAP
};

var map = new google.maps.Map(document.getElementById("map_canvas"), mapOptions);
}
</script>
```

[Click to copy](#)

Also edit the body tag in your page so we call the initialize function on page load.

```
<body onload="initialize()">
```

[Click to copy](#)

Explanation:

```
var mapOptions = {
center: new google.maps.LatLng(51.01471, 3.651465),
zoom: 11,
mapTypeId: google.maps.MapTypeId.ROADMAP
};
```

[Click to copy](#)

In the variable `mapOptions` you define the map options:

- Latitudes and Longitudes (center the map on a specific point)
- Zoom Levels (Where `zoom 0` corresponds to a map of the Earth fully zoomed out, and higher zoom levels zoom in at a higher resolution.)
- Map Types (`ROADMAP`, `SATELLITE`, `HYBRID` and `TERRAIN`)

```
var map = new google.maps.Map(document.getElementById("map_canvas"), mapOptions);
```

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When you create a new map instance, you specify a `<div>` HTML element in the page as a container for the map. HTML nodes are children of the JavaScript document object, and we obtain a reference to this element via the `document.getElementById()` method.

3. Add pins to the map

```
var marker = new google.maps.Marker({  
  
  position: new google.maps.LatLng(51.01471,3.651465),  
  
  map: map,  
  
});
```

📄 Click to copy

To add a default pin to your map you need to add this javascript code in the initialize function after the map variable. Custom pin:

```
var image = 'http://website.com/pin_icon.png';  
  
var marker = new google.maps.Marker({  
  
  position: new google.maps.LatLng(51.01471,3.651465),  
  
  map: map,  
  
  icon: image  
  
});
```

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Other options for the marker are:

- `clickable` (boolean)
- `draggable` (boolean)
- `flat` (boolean) -> removes shadow
- `title` (string) -> rollover text
- `zIndex` (number)

4. Events marker & map

```
google.maps.event.addListener(marker, 'click', function() {  
  alert('demo alert');  
});
```

[Click to copy](#)

You also can add events to your markers and map

with: `google.maps.event.addListener` In the event function you can place URL's, alerts, infoWindows, ...

Events:

- `click`
- `dblclick`
- `mouseup`
- `mousedown`
- `mouseover`
- `mouseout`

5. Current GPS location

In order to add the current GPS location, first we change the Google API url to:

```
<script type="text/javascript" src="http://maps.google.com/maps/api/  
js?sensor=true"></script>
```

[Click to copy](#)

Then add this after the map variable:

```
// Check for geolocation support  
if (navigator.geolocation) {  
  // Get current position  
  navigator.geolocation.getCurrentPosition(function (position) {  
    // Success!  
    var center = new google.maps.LatLng(position.coords.latitude, position.coords.  
longitude);  
  
    var image = 'http://i.stack.imgur.com/orZ4x.png';  
    var marker = new google.maps.Marker({  
      position: center,  
      map: map,  
      title: "Twixl Demo",  
      icon: image,
```

```

});

});
}
else {
// No geolocation fallback:
markOutLocation(51.01471, 3.651465);
}

```

[Click to copy](#)

6. Overview code

The code below will display a pin with the current location

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/
xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
<title>Google maps - Twixl</title>
<meta name="viewport" content="initial-scale=1.0, user-scalable=no" />

<style type="text/css">
html { height: 100%; }
body { height: 100%; margin: 0; padding: 0; }
#map_canvas { height: 100%; width: 100%; }
</style>

<script src="http://maps.google.com/maps/api/js?sensor=true"></script>

<script type="text/javascript">
function initialize() {

var mapOptions = {
center: new google.maps.LatLng(51.01471, 3.651465),
zoom: 11,
mapTypeId: google.maps.MapTypeId.ROADMAP
};

var map = new google.maps.Map(document.getElementById("map_canvas"), mapOptions);

// Check for geolocation support
if (navigator.geolocation) {
// Get current position
navigator.geolocation.getCurrentPosition(function (position) {

```

```
// Success!  
var center = new google.maps.LatLng(position.coords.latitude,position.coords.  
longitude);  
  
var image = 'http://i.stack.imgur.com/orZ4x.png';  
var marker = new google.maps.Marker({  
position: center,  
map: map,  
title:"Twixl",  
icon: image,  
});  
});  
}  
else {  
// No geolocation fallback:  
markOutLocation(51.01471, 3.651465);  
}  
}  
</script>  
  
</head>  
  
<body onload="initialize()">  
  <div id="map_canvas"></div>  
</body>  
</html>
```

 Click to copy

How to pass a Custom Entitlements Server token to the Browser Client?

In some cases, it might be interesting to pass the login from a [Custom Entitlements Server](#) directly to the Browser Client of your article-based apps. This help article explains possible reasons (scenarios), requirements and how to do this.

1. Why could this be useful?

Your app is an in-house app and is linked to an internal tool (a CRM, Salesforce, Microsoft Sharepoint, ...). To make content available via the [Browser Client](#), you provide urls in your internal company tool that link directly to the browser client without the need for the user to login again.

2. Requirements

What do you need?

- An app with the [Browser Client](#) activated
- A [Custom Entitlements Server](#)
- Access to the entitlements tokens (a username, an email-address), depending in the specific setup of your custom entitlements server

ABOUT THE BUILT-IN ENTITLEMENT SCENARIOS:

When you are not using a custom entitlements server, it's technically possible to use this Advanced Feature with one of the [Built-in Entitlements](#) scenarios. But this will require you to use our API and the setup will be much more complex.

Furthermore, most use cases are all about connecting the browser client with users from internal company tools. And in the vast majority of those cases, that's why a custom entitlements server is needed anyway.

3. How to setup?

By using the query string parameter called `twx-set-entitlement-token`, you can tell the browser client to use that specific Entitlement Token. It will set the token and force a

redirect to the same url without the entitlement token parameter. As such, you'll need to construct your url as following:

```
https://[browserclient-url]?twx-set-entitlement-token=[token]
```

📄 Click to copy

3.1. Possible examples

```
https://browserclient.twixlmedia.com/app-key?twx-set-entitlement-token=user-1@company-a.com
```

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- <https://browserclient.twixlmedia.com/app-key> : In this case, the url is a default Twixl URL without Custom Domain (see [The Browser Client](#) for more info).
- `?twx-set-entitlement-token=` : This query string parameter is necessary to call the next part of the url, the token.
- `user-1@company-a.com` : The token is in this case an email address. This could have been a username or something else (depending on the method used in your inhouse tool).

```
https://demoapp.company-a.com?twx-set-entitlement-token=user1
```

📄 Click to copy

- <https://demoapp.company-a.com> : In this case, the url is a Custom Domain linking to your Browser Client (see [The Browser Client](#) for more info about using Custom Domains).
- `?twx-set-entitlement-token=` : This query string parameter is necessary to call the next part of the url, the token.
- `user1` : The token is in this case a username. This could have been an access code, an email address or something else (depending on the method used in your internal company tool).

Extra's

Scripting the Twixl Publisher plug-in

This article expects that you are familiar with Adobe's ExtendScript scripting language.

1. InDesign ExtendScript Labels

The way the Twixl Publisher plug-in stores the interactive properties is by attaching labels to the different elements.

Every object in Adobe InDesign can be provided with one or more labels via the `insertLabel` ExtendScript function:

```
object.insertLabel(key, value)
```

[Click to copy](#)

To retrieve the label, you can use the `extractLabel` function using a specific key:

```
object.extractLabel(key)
```

[Click to copy](#)

2. Attaching properties

Here's an overview of the type of InDesign elements you can attach properties to, depending on the type of interactive element:

1. **Slide Show:** MultiStateObject
2. **Web Viewer:** Rectangle
3. **Web Overlay:** Rectangle, TextFrame, PageItem
4. **Scrollable Content:** Rectangle with one PageItem as its child element
5. **Full screen image:** Graphic
6. **Movie:** Movie
7. **Sound:** Sound
8. **Image Sequence:** Rectangle

3. Twixl Publisher interactive element keys


Every type of Twixl Publisher interactive element has its own key under which the properties are saved. Here's an overview:

Slide Show	<code>com.rovingbird.epublisher.mso</code>
Web Viewer	<code>com.rovingbird.epublisher.wv</code>
Web Overlay	<code>com.rovingbird.epublisher.wo</code>
Scrollable Content	<code>com.rovingbird.epublisher.sc</code>
Full screen image	<code>com.rovingbird.epublisher.image</code>
Movie	<code>com.rovingbird.epublisher.movie</code>
Sound	<code>com.rovingbird.epublisher.sound</code>
Image Sequence	<code>com.rovingbird.imagesequence</code>

4. JSON

Under these keys, all properties are saved in a JSON data structure. JSON (<http://www.json.org>) is a text based format which makes it very easy to store key/value structures.

```
var myProperties = {
    key1: "value",
    key2: "value",
    key3: "value"
};
var myJsonString = JSON.stringify(myProperties);
myObject.insertLabel("com.rovingbird.epublisher.mso", myJsonString);
```

 Click to copy

To retrieve it later on, you can use the following code:

```
var myLabel = myObject.extractLabel("com.rovingbird.epublisher.mso");
```

```
var myProperties = JSON.parse(myLabel);
```

[Click to copy](#)

5. Property overview

5.1. Slide Show

```
{
  'msoShowScrollViewIndicator':      false,
  'msoAllowUserInteraction':         false,
  'msoShowScrollbars':              false,
  'msoAllowFullScreen':              false,
  'msoScrollViewIndicatorOpacity':    50,
  'msoScrollViewIndicatorBackgroundColor': '000000',
  'msoScrollViewIndicatorActiveColor': 'FFFFFF',
  'msoScrollViewIndicatorInactiveColor': 'AAAAAA',
  'msoFileFormat':                   'PNG',
  'msoFileFormatIdx':                 0,
  'msoFileFormatDesc':                 '',
  'msoTransitionStyle':                'Push',
  'msoTransitionStyleIdx':             0,
  'msoAllowAutoPlay':                 false,
  'msoInterval':                      0,
  'msoDelay':                          0,
  'msoTapPlayPause':                  false,
  'msoAllowLoop':                     false,
}
```

[Click to copy](#)

5.2. Web Viewer

```
{
  'wvUrl':                            '',
  'wvAllowUserInteraction':            false,
  'wvTransparent':                     false,
  'wvScaleToFit':                      false,
  'wvShowScrollbars':                  false,
  'wvOpenLinksInline':                 true,
  'wvShowLoadingIndicator':            false,
}
```

[Click to copy](#)

5.3. Web Overlay

```
{
  'woUrl':           '',
  'woAllowUserInteraction': false,
  'woWidth':         '',
  'woHeight':        '',
  'woShowScrollbars': false,
  'woShowLoadingIndicator': false,
  'woBackgroundColor': '000000',
  'woBackgroundOpacity': 50,
  'woAnalyticsName':  '',
  'woScaleToFit':    false,
}
```

 Click to copy

5.4. Scrollable Content

```
{
  'scAllowScrolling': false,
  'scShowScrollbars': true,
  'scEnablePaging':   false,
  'scEnableZooming':  false,
}
```

 Click to copy

5.5. Movies

```
{
  'movieAutoStart':      false,
  'movieShowController': false,
  'movieLoop':           false,
  'movieShowFullScreen': false,
  'movieReturnToPosterFrame': false,
  'movieAnalyticsName':  '',
}
```

 Click to copy

5.6. Sound

```
{  
  'soundAutoStart':    false,  
  'soundLoop':        false,  
  'soundAnalyticsName': '',  
}
```

 Click to copy

5.7. Full Screen Images

```
{  
  'imageAllowFullScreen': false,  
  'imageAnalyticsName':   '',  
}
```

 Click to copy

5.8. Image Sequences

```
{  
  'isqFolder':         '',  
  'isqReverse':       false,  
  'isqAnalyticsName': '',  
}
```

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6. Automating preflight, export and preview

Download an example (for .article and .publication files) to see how the preflight, export and preview processes can be scripted:

 [InDesign-Plugin Scripting Examples](#)

Installing the Helper as a Windows Service

In some cases, it can be helpful to run the Helper as a Windows Service (e.g. when you are using InDesign Server to script some parts of your Twixl Publisher workflow). This help article explains how to do install the Helper as a Windows Service.

Run the following command from a windows command prompt with admin privileges:

```
C:\Program Files (x86)\TwixlPublisher\TwixlPublisherHelper.exe --service install
```

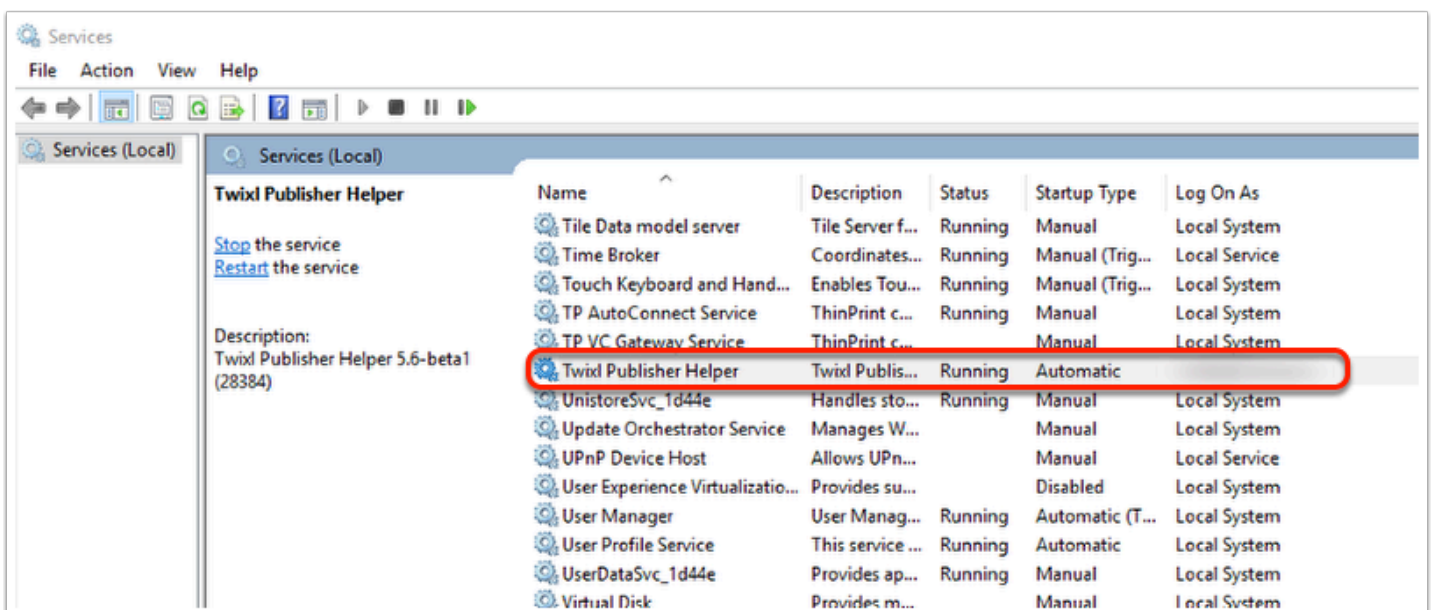
📄 Click to copy

This will install the *Twixl Publisher Helper* under the `LocalSystem` account. However, it will need to run under the same user account as Adobe InDesign Server to make it work properly.

To do so, go to computer management and select services. Then double click on the `Twixl Publisher Helper` service and change the user in `LoginAs` to the same user account as the one used by InDesign Server.

Once you have done so, you should be able to start it and it should be recognized by the InDesign plugin and InDesign Server, even when no user is logged in to the system.

However, one last thing needs to be taken into account before starting the service. You should check task manager to make sure no `TwixlPublisherHelper.exe` process is running before starting the service, otherwise, it won't work.



! **IMPORTANT NOTE:**

It might be necessary to navigate to the path first (before entering the command):

```
cd Program Files (x86)\TwixlPublisher\TwixlPublisherHelper.exe  
  
TwixlPublisherHelper.exe --service install
```