**Helpful links for ArcGIS Online python references**

* ArcREST python module: <https://github.com/Esri/ArcREST>
* Automating data download from AGOL: <https://geonet.esri.com/groups/survey123/blog/2015/11/10/downloading-data-captured-with-survey123-for-arcgis>
* Notes about other examples using ArcREST module: <http://gisinc.com/uncategorized/2015-esri-developer-summit-day-2-recap>
* Example using ArcREST 2.0 to export hosted feature services from AGOL: <http://anothergisblog.blogspot.com/2014/10/using-arcrest-to-export-hosted-feature.html>
* Accessing Arc Server tokens using python: <https://developers.arcgis.com/authentication/accessing-arcgis-online-services/>

Geonet forum on using tokens: <https://geonet.esri.com/thread/151261> I. Configure/Upgrade Survey123Connect Locally: This app is used to set up your survey & publish to ArcGIS Online.

1. PURPOSE: To install the Survey123Connect application for creating, updating, & publishing new or existing surveys.

1.a. Navigate to http://doc.arcgis.com/en/survey123/download/

1.a.i) Sign into your ArcGIS Online Enterprise Account.

1.a.ii) Select which operating system you have. (Windows | Mac | Linux)

1.b. If doing a new install (no other Survey123 Connect program has previously been installed), run program’s .exe “Run as Administrator” or find someone with permissions.

1.b.i) Use all defaults for installation process.

1.b.ii) Program files will default to install in "C:\Users\[your username]\Applications\ArcGIS\Survey123Connect."

1.b.iii) Survey123 survey files will, by default, be installed in C:\Users\ksundeen\ArcGIS\My Survey Designs folder with the following 4 folders created:

1.b.iii)1) "AppStudio" = used somewhere within Survey123Connnect to set username in a \*.json file

1.b.iii)2) "My Survey Attachments" = holds photos that you uploaded into a survey you downloaded. For ex., if you created a test survey and then uploaded some fake pictures, those fake pictures would be stored here.

1.b.iii)3) "My Survey Designs" = Holds all configuration files & folders for surveys you create; this is the folder you'll need to configure to be versioned through SVN to sync with the Code Repository located: C:\code\trunk\Survey123; SVN code repository is located: http://svn.mnpower.com/svn/its\_deo/

1.b.iii)4) "My Surveys" = holds downloaded surveys you've accessed & downloaded for testing/use purposes from ArcGIS Online.

1.c. If upgrading version of Survey123 Connect, uninstall previous version.

1.c.i) Uninstall old versions in Start Menu-> Control Panel -> Programs -> Programs and Features -> find the old application and select it.

1.c.ii) Click Uninstall. Follow all prompts.

1.c.iii) Follow same instructions for uninstalling the Survey123 App.

**Helpful links for ReportLab python references**

* <http://www.reportlab.com/documentation/>
* User Guide: <http://www.reportlab.com/docs/reportlab-userguide.pdf>
* API Reference: <http://www.reportlab.com/docs/reportlab-reference.pdf>

**More on Survey123 forms:**

* <https://blogs.esri.com/esri/arcgis/2016/06/23/introducing-survey123-for-arcgis-2/>

**Pseudo Code for Creating an Exported PDF from Survey123:**

1. **Login to AGOL with enterprise account login (or try with a non-enterprise account)**
   1. *NOTE – test logging in using Chrome so I can still enter the credentials*
   2. *NOTE – see* [*http://esri.github.io/ArcREST/arcrest.security.html*](http://esri.github.io/ArcREST/arcrest.security.html) *for handling security logins*
   3. *NOTE – see for testing other ways of using credentials:* [*http://anothergisblog.blogspot.com/2015/04/arcrest-basics-arcgis-online-and-query.html*](http://anothergisblog.blogspot.com/2015/04/arcrest-basics-arcgis-online-and-query.html)
   4. *NOTE – follow up with Brandon; he has previous code to access logins*
2. **Export survey data from Survey123 feature service to a download file on a specified folder**
   1. Access feature service through its ID
3. **Access export Survey123 data & format it using reportLab module**
   1. Create canvas for a blank report
   2. Print all survey data (as a test)
4. **Export the PDF & make available for download to user**
   1. *NOTE – see Brandon’s idea on following a template for exporting a report*