



Developer's Guide to ArcGIS REST APIs

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Agenda

- What is the REST API?
 - Overview + Understanding ArcGIS Rest API calls
- AGOL Administration
- Content Query
- GeoREST Specification
- Automating Content Management
- Organization Metrics
- Q&A

What is the REST API?



Any RESTful Client



| Rest Services | |
|---------------|-------------------------|
| • | Mapping Services |
| • | Data Services |
| • | Analysis Services |
| • | Administrative Services |




ArcGIS for Server

Using the ArcGIS REST API, you can:

- Consume ready-to-use ArcGIS Online services hosted by Esri
- Consume services published by you or by other organizations
- Publish your own web services
- Create and share items on ArcGIS Online or your own portal
- Configure and automate parts of the ArcGIS system, such as ArcGIS for Server and Portal for ArcGIS

JSON

JSON



Filename extension .json

Internet media type application/json

Uniform Type Identifier public.json

Type of format Data interchange

Extended from JavaScript

Standard(s) RFC 4627 [↗](#), ECMA-404

Website json.org [↗](#)

Credit: wikipedia

| | |
|------------|-------------|
| Мәтін | Текст |
| Σημειώση | Επισημείωση |
| Εκτεταμένο | Εκτεταμένο |
| Τίτλος | Επισημείωση |
| Παρατήρηση | Παρατήρηση |

```
1
{
  "operationalLayers": [
    {
      "url": "http://services.arogis.com/XWq1r0Gjgze16Cu/ArcGIS/rest/services/CambridgeParcels/FeatureServer/0",
      "id": "CambridgeParcels_5854",
      "visibility": true,
      "opacity": 1,
      "mode": 1,
      "title": "Parcel Details",
      "layerDefinition": { "drawingInfo": { "renderer": {
        "type": "simple",
        "symbol": {
          "color": [
            255,
            255,
            255,
            0
          ],
          "outline": {
            "color": [
              160,
              63,
              60,
              255
            ],
            "width": 0.75,
            "type": "esriSLS",
            "style": "esriSLSsolid"
          },
          "type": "esriSFS",
          "style": "esriSFSsolid"
        }
      }
    }
  ],
  "popupInfo": {
    "title": "ParcelsValues: {SEM_OWN_NAME}",
    "fieldInfos": [
      {
        "fieldName": "OBJECTID",
        "label": "OBJECTID",
        "isEditable": false,
        "tooltip": "",
        "visible": false,
        "format": null,
        "stringFieldOption": "textbox"
      },
      {
        "fieldName": "ML",
        "label": "ML",
        "isEditable": true,
        "tooltip": "",
        "visible": true,
        "format": null,
        "stringFieldOption": "textbox"
      },
      {
        "fieldName": "MAP",
        "label": "MAP",
        "isEditable": true,
        "tooltip": "",
        "format": null,
        "stringFieldOption": "textbox"
      }
    ]
  }
}

```



ArcGIS Rest API and ArcGIS Server Example

← → ↻ bosdemo2.esri.com/arcgis/rest/

ArcGIS REST Services Directory
[Home](#) > [services](#)

[JSON](#) | [SOAP](#)

Folder: /

Current Version: 10.1

View Footprints In: [ArcGIS.com Map](#)

Folders:

- [BCData](#)
- [boston](#)
- [bostonmarathon](#)
- [DuaSimulation](#)
- [Cambridge](#)
- [CapeCod](#)
- [CT](#)
- [delcan](#)
- [Elections](#)
- [ElSalvador](#)
- [mass_dcr](#)
- [PittDashboard](#)
- [pittsburgh](#)
- [Utilities](#)
- [WX](#)

Services:

- [PollingPlaces](#) (FeatureServer)
- [PollingPlaces](#) (MapServer)
- [Precincts](#) (MapServer)

Supported Interfaces: [REST](#) [SOAP](#) [Sitemap](#) [Geo.Sitemap](#)

ArcGIS REST Services Directory

[Home](#) > [services](#) > [mass_dcr](#) > [DCR_Parks \(MapServer\)](#)

[JSON](#) | [SOAP](#)

mass_dcr/DCR_Parks (MapServer)

View In: [ArcGIS JavaScript](#) [ArcGIS.com Map](#) [Google Earth](#) [ArcMap](#) [ArcGIS Explorer](#)

View Footprint In: [ArcGIS.com Map](#)

Service Description: This map is used to publish information about parks and recreation areas in a community. Information about parks and recreation activities.

Map Name: Layers

[Legend](#)

[All Layers and Tables](#)

Layers:

- [DCR_Facilities](#) (0)

Description: This map is used to publish information about parks and recreation areas in a community. Information about parks and recreation activities.

Copyright Text: City of Naperville, Illinois, Esri., Inc.

Spatial Reference: 102100 (3857)

Single Fused Map Cache: false

Initial Extent:

XMIn: -8250534.266894277
YMin: 5175460.810519617
XMax: -7726296.580028091
YMax: 5299787.727695931
Spatial Reference: 102100 (3857)

Full Extent:

XMIn: -8181039.379113104
YMin: 5050868.67346748
XMax: -7795791.467809264
YMax: 5287934.439399339
Spatial Reference: 102100 (3857)

Units: esriMeters

[Login](#) | [Get Token](#)

[Help](#) | [API Reference](#)

bosdemo2.esri.com/arcgis/rest/services/mass_dcr/DCR_Parks/MapServer?f=pjson

```
[
  "currentVersion": 10.1,
  "serviceDescription": "This m
about parks and recreation act
  "mapName": "
  "descripti
parks and r
  "copyright
  "supported
  "layers":
  {
    "id": 0,
    "name":
    "parentI
    "default
    "subLaye
    "minScal
    "maxScal
  }
},
"tables":
"spatialRe
"wkid": 1
```

bosdemo2.esri.com/arcgis/rest/services/mass_dcr/DCR_Parks/MapServer/0/query?wh

```
{
  "displayFieldName": "FACILITY",
  "fieldAliases": [
    "OBJECTID": "OBJECTID",
    "FAMIS_CODE": "FAMIS_CODE",
    "LOCATION": "LOCATION",
    "PT_STATUS": "PT_STATUS",
    "LONGITUDE": "LONGITUDE",
    "LATITUDE": "LATITUDE",
    "MODE_
  "FACIL
  "NOTES
  "WEBPA
  "PHONE
  "PRIMAR
  "FAMIS
  "WALKIN
  "RUNNIN
  "PICNIC
  "HISTOR
  "HORSEB
  "BIKING
  "MTHIB
  "FISHIN
  "GOLFER
  "ROCKCL
  "XCRI
  "DWHIL
  "GROUPE
  "CANOE
  "RAILBI
  "NOONTR
  "MOTORC
  "BOATIN
  "SNOWBO
  "OHV_A
  "OHV_M
  "HUNTING
  "SWIM_B
  "SWIM_B
  "SWIM_B
  "SWIM_B
  "SKATE
  "RESTRO
  "VISIT
  "HEALTHYHRT": "HEALTHYHRT",
  "PKPASSPORT": "PKPASSPORT",
  "COMMENTS": "COMMENTS",
  "PARKINGFEE": "PARKINGFEE",
  "PARKINGTXT": "PARKINGTXT",
  "IS_A_SOPPA": "IS_A_SOPPA",
```

Save As dialog box showing file name 'dcrpoints.json' and save as type 'Text Document'. The file is being saved to the 'DATA (D:)' drive.

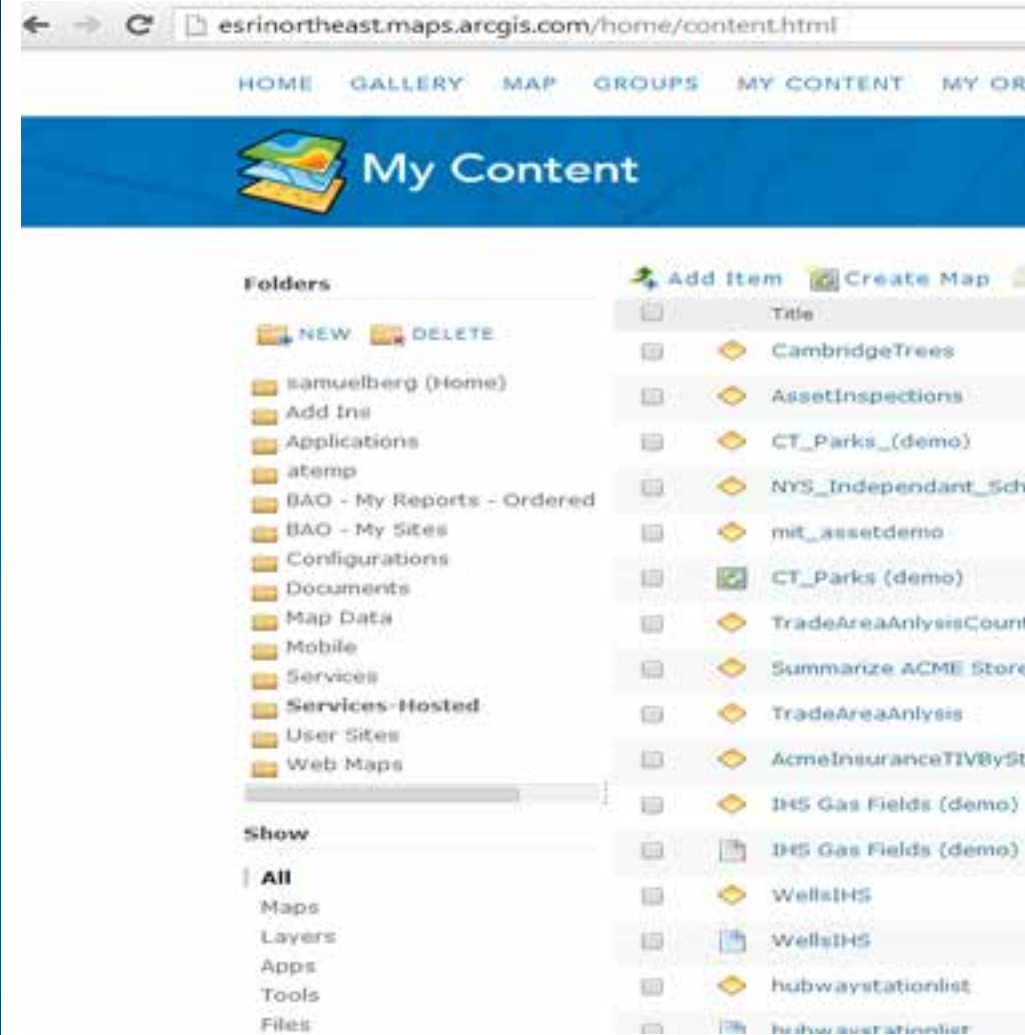
ArcMap interface showing the Layers panel with 'dcrpoints' selected. A 'JSON To Features' dialog box is open, displaying the execution progress and details.

JSON To Features dialog box showing execution details: 'Executing: JSONToFeatures D:\atemp\dcrpoints.json C:\Users\sam2110\Documents\ArcGIS\Default.gdb\dcrpoints Start Time: Thu Feb 06 20:36:09 2014'. The dialog is set to close when completed successfully.

Map interface showing a table of data with columns 'OBJECTID', 'SHAPE', and 'FACILITY'. The table contains three rows of data.

Services

ArcGIS REST API and ArcGIS Online Example



The screenshot shows the ArcGIS Online 'My Content' interface. The browser address bar displays 'esrinortheast.maps.arcgis.com/home/content.html'. The navigation menu includes 'HOME', 'GALLERY', 'MAP', 'GROUPS', 'MY CONTENT', and 'MY OR'. The main header features the 'My Content' logo. Below the header, there are two main sections: 'Folders' and 'Add Item / Create Map'.

Folders

- NEW DELETED
- Samuelberg (Home)
- Add Ins
- Applications
- atemp
- BAO - My Reports - Ordered
- BAO - My Sites
- Configurations
- Documents
- Map Data
- Mobile
- Services
- Services-Hosted
- User Sites
- Web Maps

Show

- All
- Maps
- Layers
- Apps
- Tools
- Files

Add Item / Create Map

| Title |
|------------------------|
| CambridgeTrees |
| AssetInspections |
| CT_Parks_(demo) |
| NYS_Independant_Sch |
| mit_assetdemo |
| CT_Parks (demo) |
| TradeAreaAnalysisCount |
| Summarize ACME Store |
| TradeAreaAnalysis |
| AcmeInsuranceTIVBySt |
| DHS Gas Fields (demo) |
| DHS Gas Fields (demo) |
| WellsDHS |
| WellsDHS |
| hubwaystationlist |
| hubwaystationlist |

ArcGIS REST API and ArcGIS Online Example

The screenshot shows the ArcGIS Online 'My Content' interface. The browser address bar displays 'esrinortheast.maps.arcgis.com/home/content.html'. The navigation menu includes 'HOME', 'GALLERY', 'MAP', 'GROUPS', 'MY CONTENT', and 'MY OR'. The main header features the 'My Content' logo. Below the header, there are two main sections: 'Folders' and a list of items.

Folders

- NEW DELETED
- samuelberg (Home)
- Add Ins
- Applications
- atemp
- BAO - My Reports - Ordered
- BAO - My Sites
- Configurations
- Documents
- Map Data
- Mobile
- Services
- Services-Hosted
- User Sites
- Web Maps

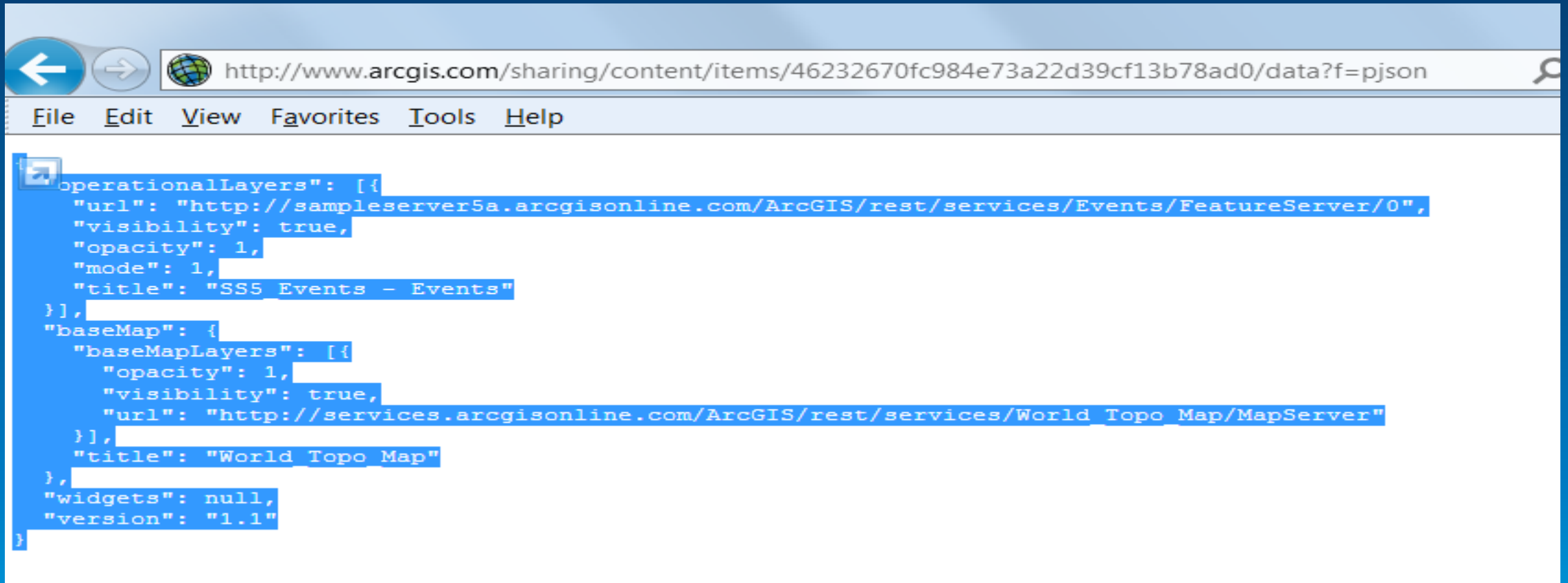
Show

- All
- Maps
- Layers
- Apps
- Tools
- Files

Add Item Create Map

| Title |
|------------------------|
| CambridgeTrees |
| AssetInspections |
| CT_Parks_(demo) |
| NYS_Independant_Sch |
| mit_assetdemo |
| CT_Parks (demo) |
| TradeAreaAnalysisCount |
| Summarize ACME Store |
| TradeAreaAnalysis |
| AcmeInsuranceTIVBySt |
| DHS Gas Fields (demo) |
| DHS Gas Fields (demo) |
| WellsDHS |
| WellsDHS |
| hubwaystationlist |
| hubwaystationlist |

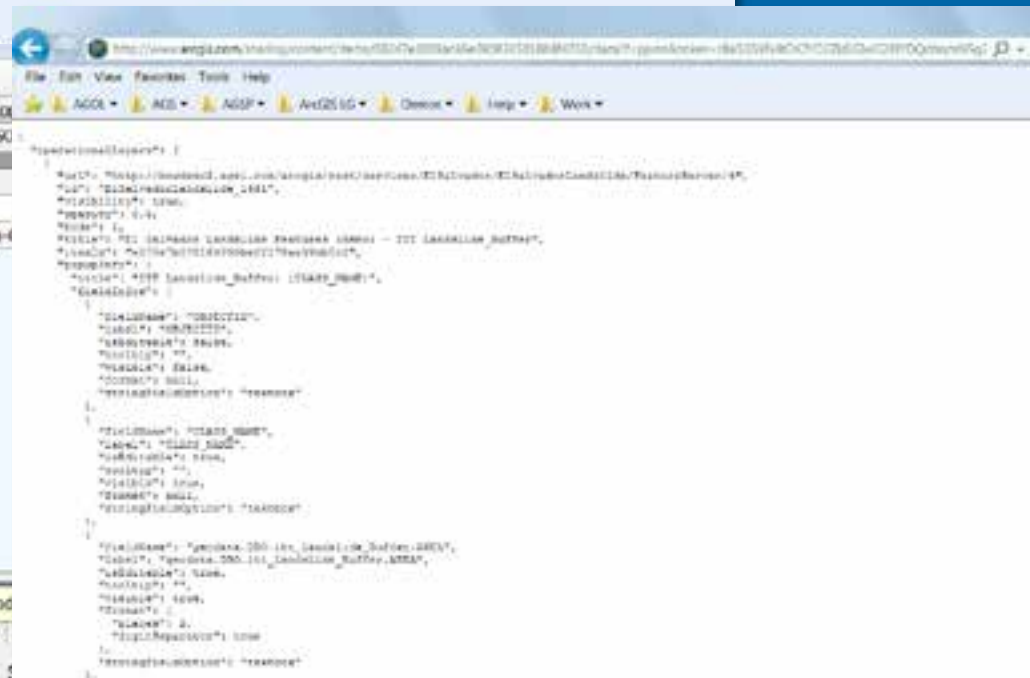
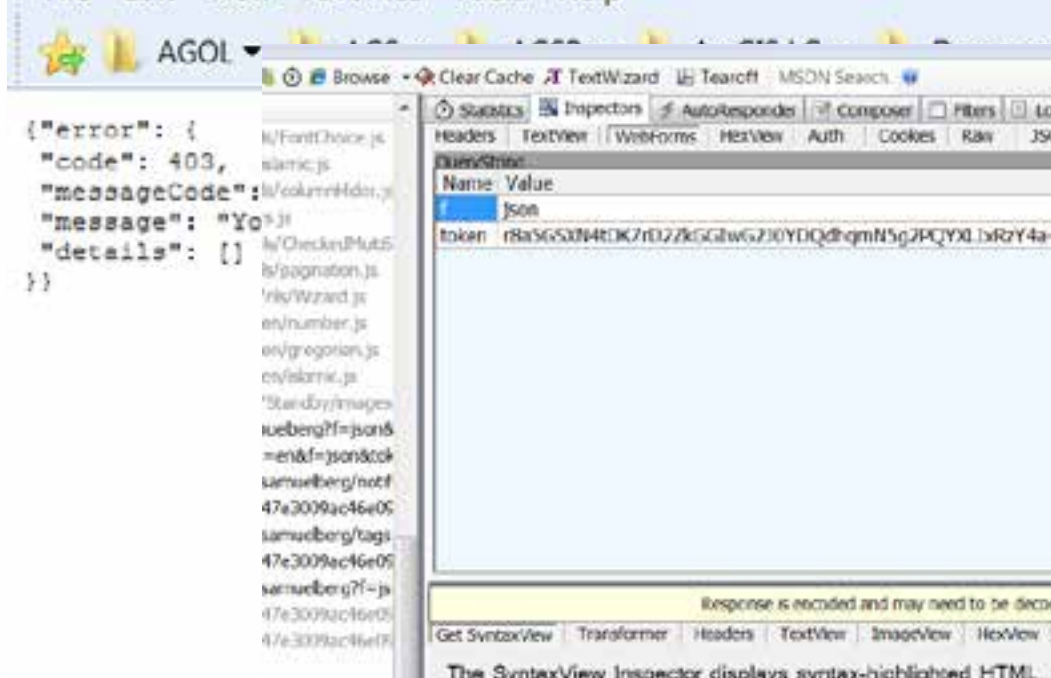
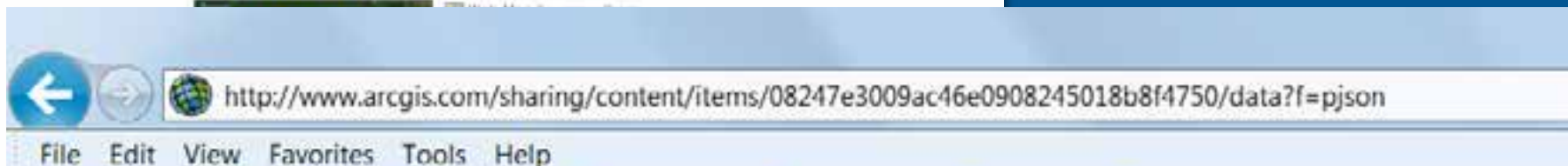
Webmaps



The image shows a web browser window with the address bar containing the URL: `http://www.arcgis.com/sharing/content/items/46232670fc984e73a22d39cf13b78ad0/data?f=pjson`. The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The main content area displays a JSON webmap configuration with the following structure:

```
operationalLayers": [{  
  "url": "http://sampleserver5a.arcgisonline.com/ArcGIS/rest/services/Events/FeatureServer/0",  
  "visibility": true,  
  "opacity": 1,  
  "mode": 1,  
  "title": "SS5 Events - Events"  
}],  
"baseMap": {  
  "baseMapLayers": [{  
    "opacity": 1,  
    "visibility": true,  
    "url": "http://services.arcgisonline.com/ArcGIS/rest/services/World_Topo_Map/MapServer"  
  }],  
  "title": "World Topo Map"  
},  
"widgets": null,  
"version": "1.1"  
}
```


Tokens



Administration

- Administering your portal
 - Overview of portal administration in the ArcGIS REST API
 - Resource hierarchy

- Portal Administration Root
 - Create Site
 - Portal Administration Root

- System
 - Database
 - Directories
 - Directory
 - Edit Directory
 - Indexer
 - Licenses
 - System
 - Unregister Web Adaptor
 - Update Database Account
 - Update Indexer Configuration
 - Update Web Adaptors Configuration
 - Web Adaptors
 - Web Adaptors Configuration
 - Web Adaptor

- Security
 - Create User
 - Security Configuration
 - Security
 - Token Configuration
 - Users
 - Update Identity Store
 - Update Security Configuration
 - Update Token Configuration

Demo

ago-tools

Python admin tools
Evan

<https://github.com/Esri/ago-tools>

file | 32 lines (25 sloc) | 1.522 kb

```
# Requires admin role.
import csv, time, datetime
from agoTools.admin import Admin

# User parameters:
agoAdmin = Admin(<username>) # Replace <username> with your username
daysToCheck = 7 # Replace with number of days to check...
groups = [<groupID1>, <groupID2>, ...] # Enter <groupIDs>

# Find the group ID with this tool: http://developers.arcgis.com/rest/users-groups-admin-api/
outputDir = 'c:/temp/' # Replace with path for report file

outputDate = datetime.datetime.now().strftime("%Y%m%d") #
outputFile = outputDir + outputDate + '_AddNewUsers2Groups.csv'

newUsers = agoAdmin.getUsers(daysToCheck=daysToCheck)
groupUsers = []
for user in newUsers:
    groupUsers.append(user['username'])

userSummary = agoAdmin.addUsersToGroups(groupUsers, groups)

# print userSummary # Uncomment this line to see a summary
# Reports false-negatives as of Nov 5, 2013.

with open(outputFile, 'wb') as output:
    dataWriter = csv.writer(output, delimiter=',', quotechar='"')
    # Write header row.
    dataWriter.writerow(['Full Name', 'Email', 'Username', ''])
    # Write user data.
```


Querying ArcGIS Online Content

| # | Re... | Protocol | Host | URL |
|-----|-------|----------|----------------------------|--|
| 506 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.pqa-2s3684-2swf-2sqbwb-2sqbwbk-2s |
| 507 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.pqa-2s3684-2swf-2sqtevg-2srkgrafvba |
| 508 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.pqa-2s3684-2swf-2sqbwb-2sqbwb-2ser |
| 509 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.pqa-2s3684-2swf-2sqtevg-2spff-2sunf- |
| 510 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.pqa-2s3684-2swf-2sqbwb-2sqbwb-2spy |
| 511 | 200 | HTTP | esrnortheast.maps.arcgi... | /sharing/rest/portals/self?culture=en&f=json&tok |
| 512 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.funevat-2serfg-2scbegnyf-2sfrys.rfeval |
| 513 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/js/esri/arcgisonline/css/images/folder- |
| 514 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/js/esri/arcgisonline/css/images/folder- |
| 515 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/js/esri/arcgisonline/css/images/splitter |
| 516 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/js/esri/arcgisonline/css/images/add-ite |
| 517 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/js/esri/arcgisonline/css/images/create |
| 518 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.pqa-2s3684-2swf-2srfev-2sneptvfbayv |
| 519 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/images/screen-content.png |
| 520 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.pqa-2s3684-2swf-2srfev-2sneptvfbayv |
| 521 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.pqa-2s3684-2swf-2srfev-2sneptvfbayv |
| 522 | 200 | HTTP | esrnortheast.maps.arcgi... | /sharing/rest/portals/self/resources/thumbnail.pn |
| 523 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.pqa-2s3684-2swf-2srfev-2sneptvfbayv |
| 524 | 200 | HTTP | esrnortheast.maps.arcgi... | /sharing/rest/community/users/samueberg/notif |
| 525 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.pqa-2s3684-2swf-2srfev-2sneptvfbayv |
| 526 | 200 | HTTP | esrnortheast.maps.arcgi... | /sharing/rest/community/users/samueberg?f=js |
| 527 | 200 | HTTP | esrnortheast.maps.arcgi... | /sharing/rest/content/users/samueberg?f=json& |
| 528 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.pqa-2s3684-2svzntf-2sferra-2qpbagr |
| 529 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.funevat-2serfg-2scbegnyf-2sfrys-2serf |
| 530 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.funevat-2serfg-2spbzzhavgl-2shfref-2st |
| 531 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/js/esri/arcgisonline/css/images/publish |
| 532 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.funevat-2serfg-2spbzzhavgl-2shfref-2st |
| 533 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.funevat-2serfg-2spbzagr-2shfref-2sf |
| 534 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.funevat-2serfg-2spbzzhavgl-2shfref-2st |
| 535 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.funevat-2serfg-2scbegnyf-2sfrys-2serf |
| 536 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/1.funevat-2serfg-2spbzzhavgl-2shfref-2st |
| 537 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.pqa-2s3684-2swf-2srfev-2sneptvfbayv |
| 538 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/js/dojo/dijit/themes/soria/images/tree |
| 539 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/js/esri/arcgisonline/css/images/folder- |
| 540 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.pqa-2s3684-2swf-2sqbwb-2sqvvg-2sg |
| 541 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.pqa-2s3684-2swf-2srfev-2sneptvfbayv |
| 542 | 200 | HTTP | esrnortheast.maps.arcgi... | /sharing/rest/content/users/samueberg/e42693- |
| 543 | 200 | HTTP | http.00.s.sophosxd.net | /V3/01/2.funevat-2serfg-2spbzagr-2shfref-2sf |
| 544 | 304 | HTTP | cdn.arcgis.com | /cdn/3684/images/images16.png |

Statistics Inspectors AutoResponder Composer Filters Log Timeline

Headers TextView WebForms HexView Auth Cookies Raw JSON XML

QueueStrings

| Name | Value |
|------|-------|
| f | json |

token: r8a5GSXN4tDK7rD22kGGIwG2J0YDQdqmN5g2PQYXlRzY4a-QKNyZ6FaCSVB36WzQWWLaMmyK0HI16F42V0z5P5XKrXaz8iAJPjCv

Get SyntaxView Transformer Headers TextView ImageView HexView WebView Auth Caching Cookies Raw JSON XML

Document is: 18216 bytes.

```

null,"sortOrder": null,"isViewOnly": false,"isFav": false,"thumbnail": "ecdlogo.png","created":
1344422857000,"modified": 1344422857000,"access": "public","userMembership": {"username":
"samuelberg","memberType": "owner","applications": 0},{id": "093c952caf0a40309ef23f6d29312b14","title": "CT
Emergency Management Featured Content","isInvitationOnly": false,"owner": "samuelberg","description": "", "snippet":
"", "tags": ["connecticut", "demo"],"phone": "", "sortField": null,"sortOrder": null,"isViewOnly": false,"isFav":
false,"thumbnail": null,"created": 1335969469000,"modified": 1335969745000,"access": "org","userMembership":
{"username": "samuelberg","memberType": "owner","applications": 0},{id":
"0c140388a7084de2a6f38b07230b197d","title": "Esri Northeast Web Application Templates","isInvitationOnly":
false,"owner": "samuelberg","description": null,"snippet": null,"tags": ["web application templates"],"phone":
null,"sortField": "title","sortOrder": "asc","isViewOnly": false,"isFav": false,"thumbnail": null,"created":
1366034870000,"modified": 1366034870000,"access": "public","userMembership": {"username":
"samuelberg","memberType": "owner","applications": 0},{id": "13ed021a54ed42f49590b120ddd076e7","title":
"Northeast Health (demo)","isInvitationOnly": true,"owner": "samuelberg","description": "
", "snippet": "Providing
maps and analysis of the greater Boston health environment","tags": ["health", "demo"],"phone": "", "sortField":
null,"sortOrder": null,"isViewOnly": false,"isFav": false,"thumbnail": "148cca9a-87a8-42bd-9da4-
5fe427b6fb7b25_5B1_5D.png","created": 1352976970000,"modified": 1352978511000,"access":
"public","userMembership": {"username": "samuelberg","memberType": "owner","applications": 0},{id":
"1460f204aaa3407595ec70f067f278a0","title": "EEA Public Maps","isInvitationOnly": false,"owner":
"samuelberg","description": "", "snippet": "", "tags": ["demo"],"phone": "", "sortField": null,"sortOrder":
null,"isViewOnly": false,"isFav": false,"thumbnail": "header-seal.gif","created": 1346770690000,"modified":

```


Demo

AGOLCat

Organization Content Query

GeoREST Specification

Protocols for interacting with ArcGIS
Content

An Esri® White Paper • September 2010

GeoServices REST Specification Version 1.0



Demo

NYC Geoclient

GeoREST Specification

Browser window showing a geocoding API response and a map interface.

Browser Address Bar: <http://localhost:59049/GeocodeServer/findAddressCandidates?single=%22statue%20of%22>

Browser Menu: File Edit View Favorites Tools Help

Browser Tabs: AGOL AGS AGSP ArcGIS LG Demos Help Work

Browser Search Bar: name:Statue of Liberty

Browser Tools: Save Share Print Directions Measure Bookmarks

API Response (JSON):

```
{
  "candidates": [
    {
      "address": "STATUE OF LIBERTY",
      "attributes": {
        "Loc_name": "Geoclient Place",
        "assemblyDistrict": "6",
        "LIBERTY",
        "boePreferredStreetCode": "13160401",
        "boroughCodeLin": "1",
        "buildingIdentificationNumber": "1086110",
        "cityCouncilDistrict": "01",
        "civilCourtDistrict": "01",
        "coincidenceSegmentCount": null,
        "communityDistrict": "101",
        "command": "OF",
        "LIBERTY",
        "fromLionNodeId": "9033963",
        "fromPreferredLgcsFirstSetOfS": "01",
        "genericId": null,
        "geosupportFunction": "OF",
        "LIBERTY",
        "gStreetName2": null,
        "gStreetName3": null,
        "gStreetName4": null,
        "healthArea": "8200",
        "healthCenterDistrict": "OF",
        "lowBNOOfThisBuildingsCondominiumUnits": "1000010101",
        "lowCrossStreetB55C1": "110990",
        "OF LIBERTY IS ON LEFT SIDE OF LIBERTY ISLAND SHORELINE",
        "rta": "MN99",
        "rtaName": "park-cemetery",
        "Manhattan",
        "numberOfCrossStreetB55CsHighAddressEnd": "1",
        "numberOfCrossStreetB55CsLowAddressEnd": "1",
        "OF",
        "LIBERTY",
        "streetStatus": null,
        "taxMapNumberSectionAndVolume": "10101",
        "toLionNodeId": "0012299",
        "toPreferred": "OF",
        "x": 74.0445397135621,
        "y": 40.6892474267417,
        "score": 100,
        "spatialReference": {
          "latestWkid": 4326,
          "wkid": 4326
        }
      }
    }
  ]
}
```

Map Interface: Aerial view of a ship (Statue of Liberty) on the water.

Location Pop-up:

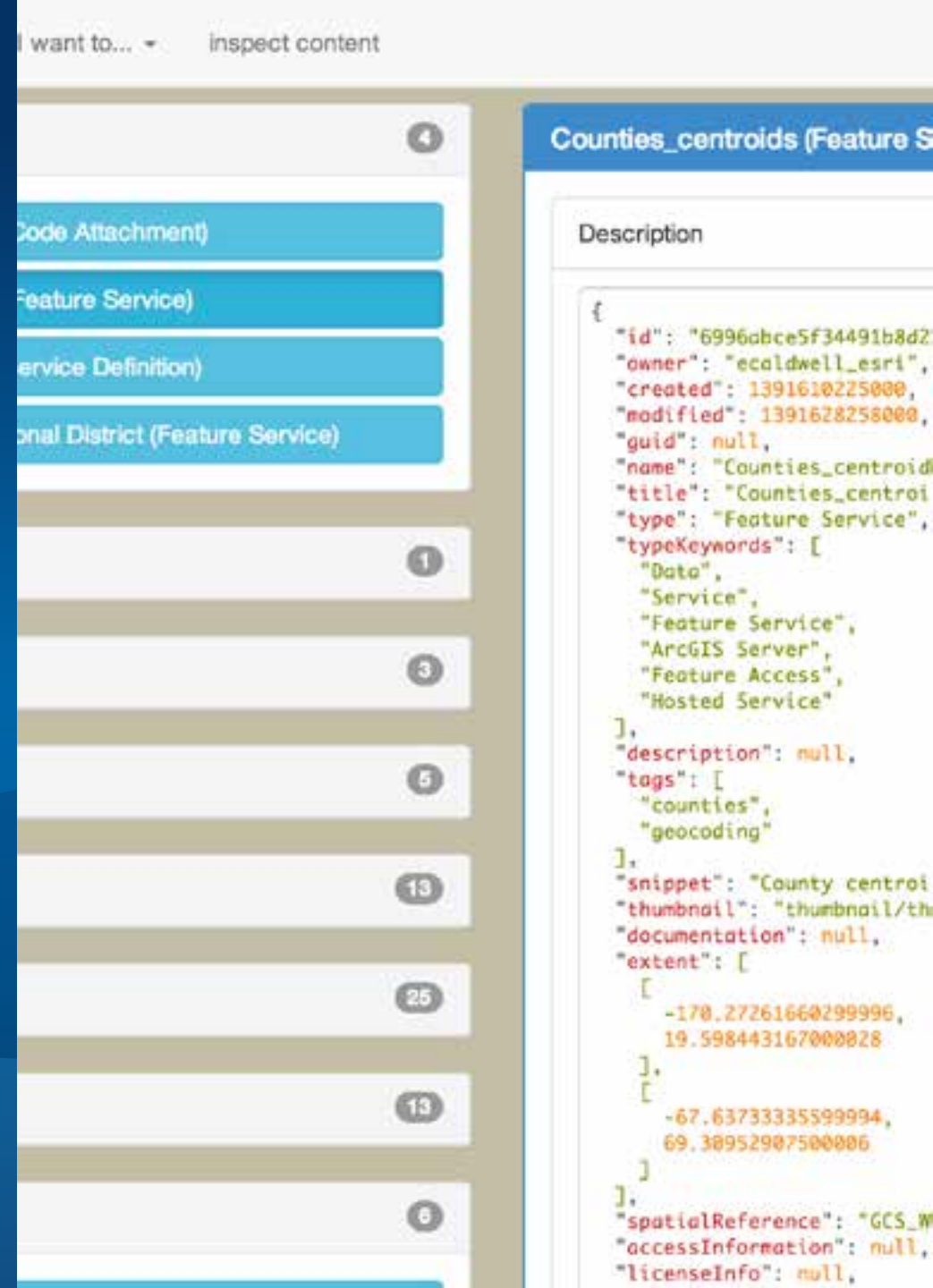
- Location
- STATUE OF LIBERTY
- Get Directions

Demo

AGOL Assistant

Organization Management

<https://github.com/Esri/ago-assistant>



Demo

ArcGIS Activity Dashboard

Organization Metrics



Understanding our world.