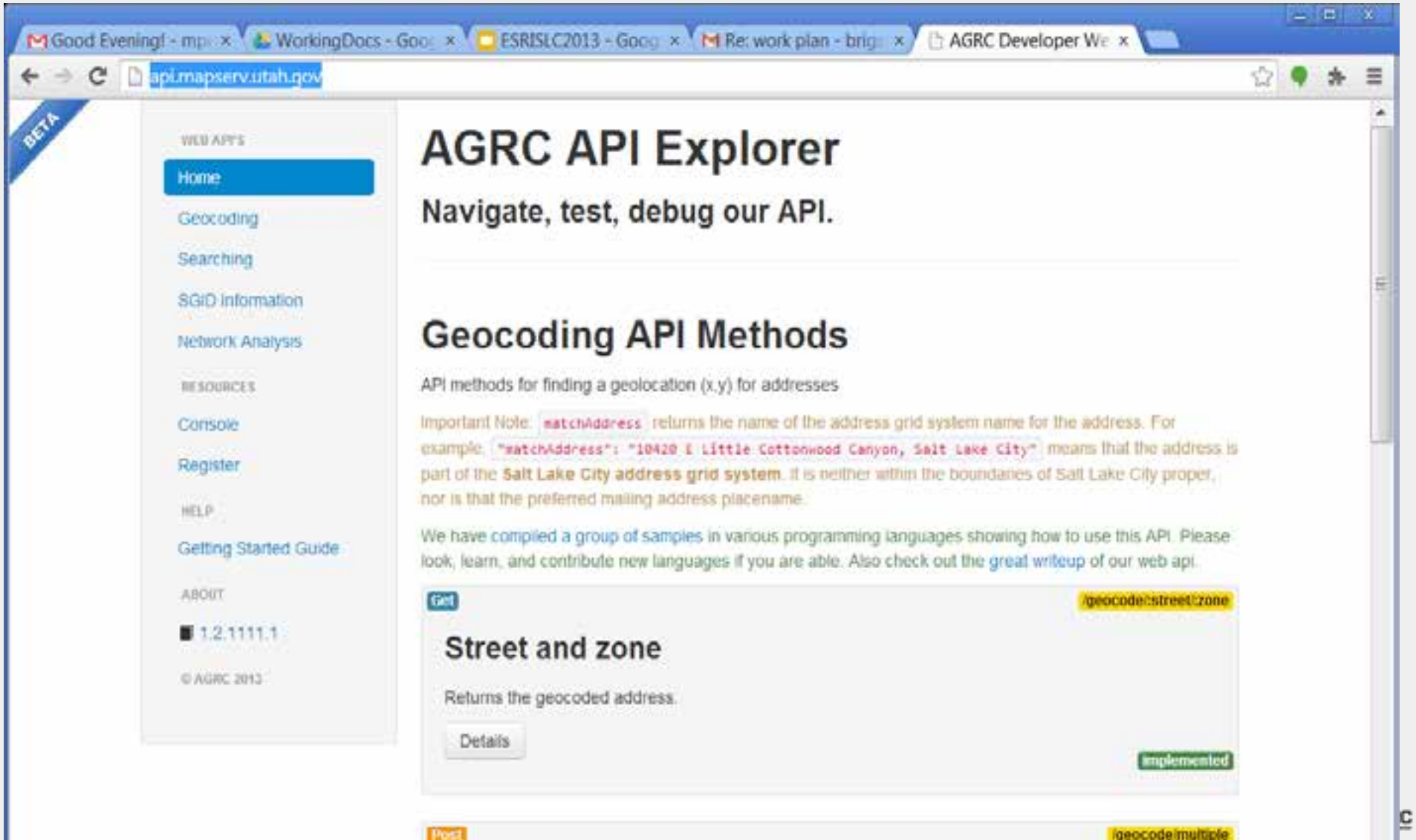
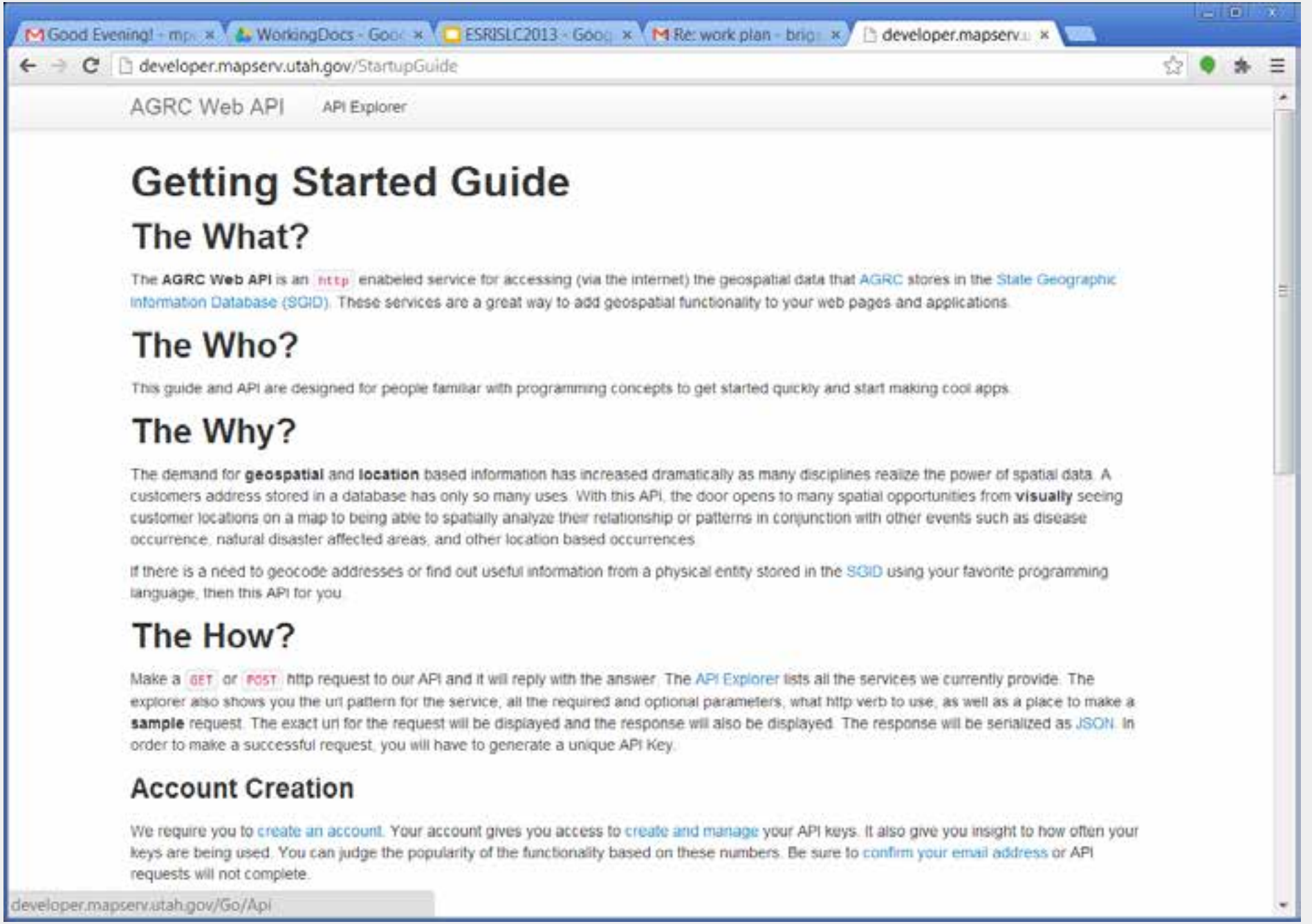
AGRC Web Services

Lets start at the beginning!

http://api.mapserv.utah.gov/

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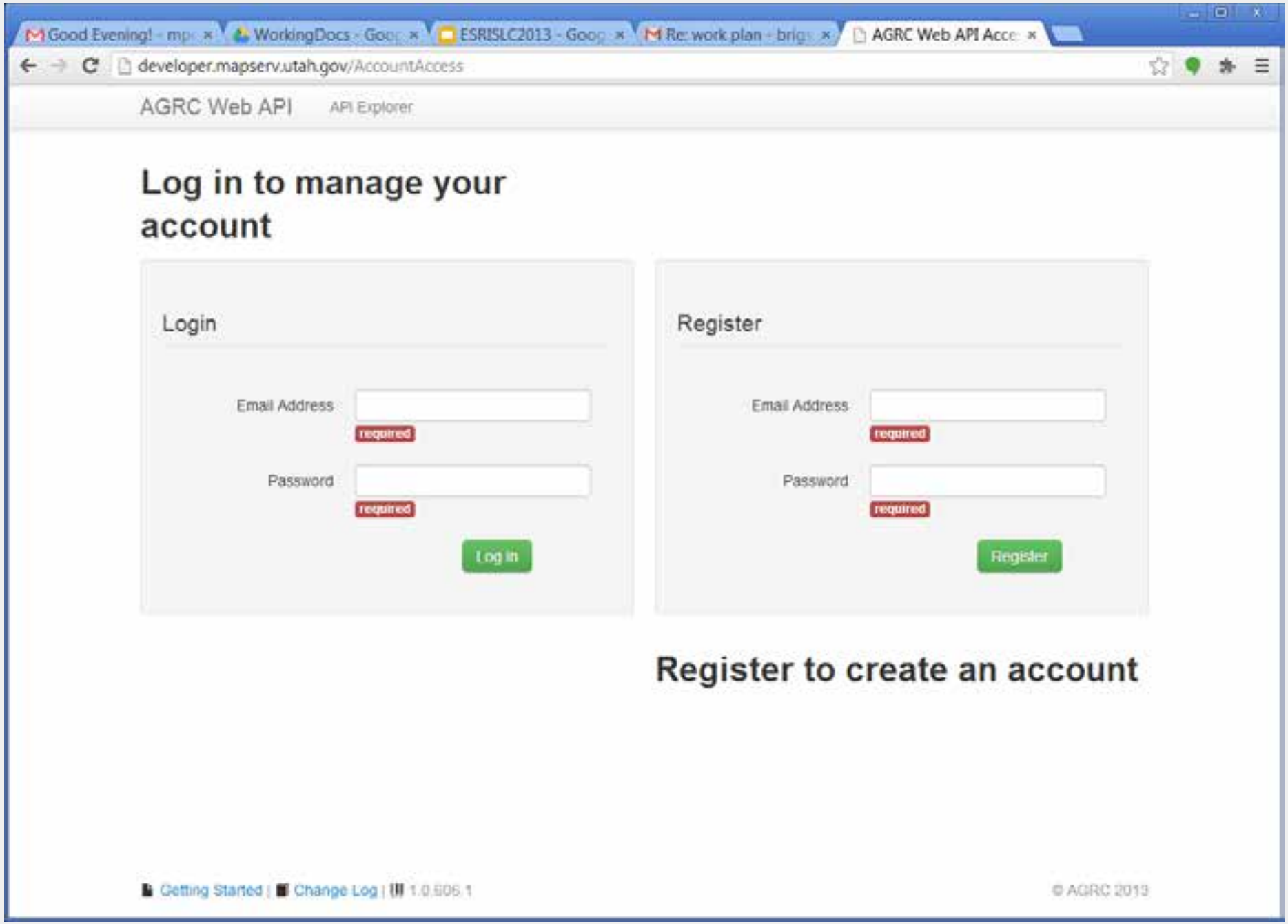
developer.mapserv
developer.mapserv.utah.gov/StartupGuide
AGRC Web API
API Explorer
Getting Started Guide
The What?
The AGRC Web API is an http enabeled service for accessing (via the internet) the geospatial data that AGRC stores in the State Geographic Information Database (SGID). These services are a great way to add geospatial functionality to your web pages and applications.
The Who?
This guide and API are designed for people familiar with programming concepts to get started quickly and start making cool apps.
The Why?
The demand for geospatial and location based information has increased dramatically as many disciplines realize the power of spatial data. A customers address stored in a database has only so many uses. With this API, the door opens to many spatial opportunities from visually seeing customer locations on a map to being able to spatially analyze their relationship or patterns in conjunction with other events such as disease occurrence, natural disaster affected areas, and other location based occurrences.
If there is a need to geocode addresses or find out useful information from a physical entity stored in the SGID using your favorite programming language, then this API for you.
The How?
Make a GET or POST http request to our API and it will reply with the answer. The API Explorer lists all the services we currently provide. The explorer also shows you the url pattern for the service, all the required and optional parameters, what http verb to use, as well as a place to make a sample request. The exact url for the request will be displayed and the response will also be displayed. The response will be serialized as JSON. In order to make a successful request, you will have to generate a unique API Key.
Account Creation
We require you to create an account. Your account gives you access to create and manage your API keys. It also give you insight to how often your keys are being used. You can judge the popularity of the functionality based on these numbers. Be sure to confirm your email address or API requests will not complete.
developer.mapserv.utah.gov/Go/Api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AGRC Web API
API Explorer
Log in to manage your account
Login
Email Address
required
Password
required
Log in
Register
Email Address
required
Password
required
Register
Register to create an account
Getting Started | Change Log | 1.0.505.1
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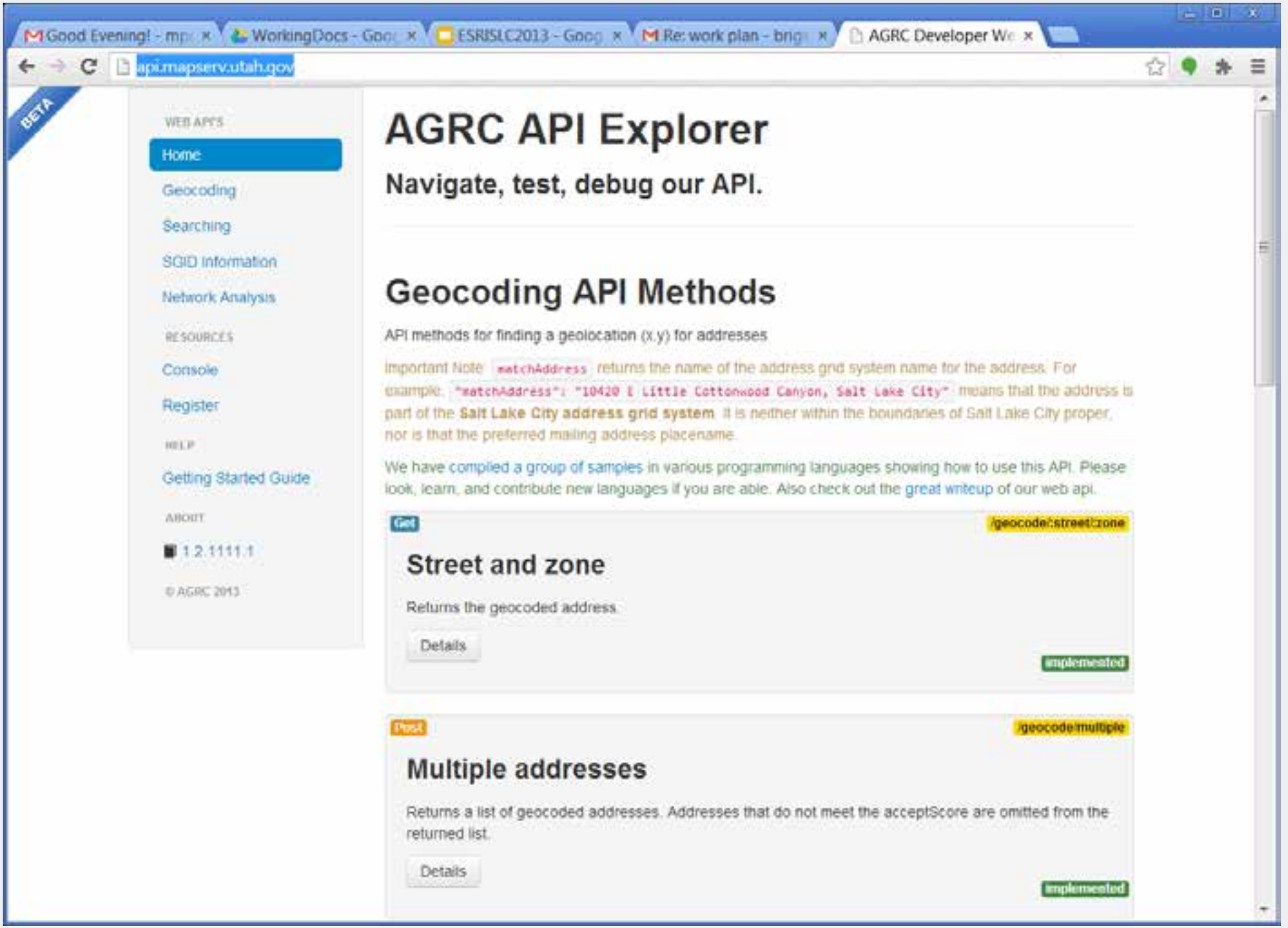
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BETA
WEB API'S
Home
Geocoding
Searching
SGID Information
Network Analysis
RESOURCES
Console
Register
HELP
Getting Started Guide
ABOUT
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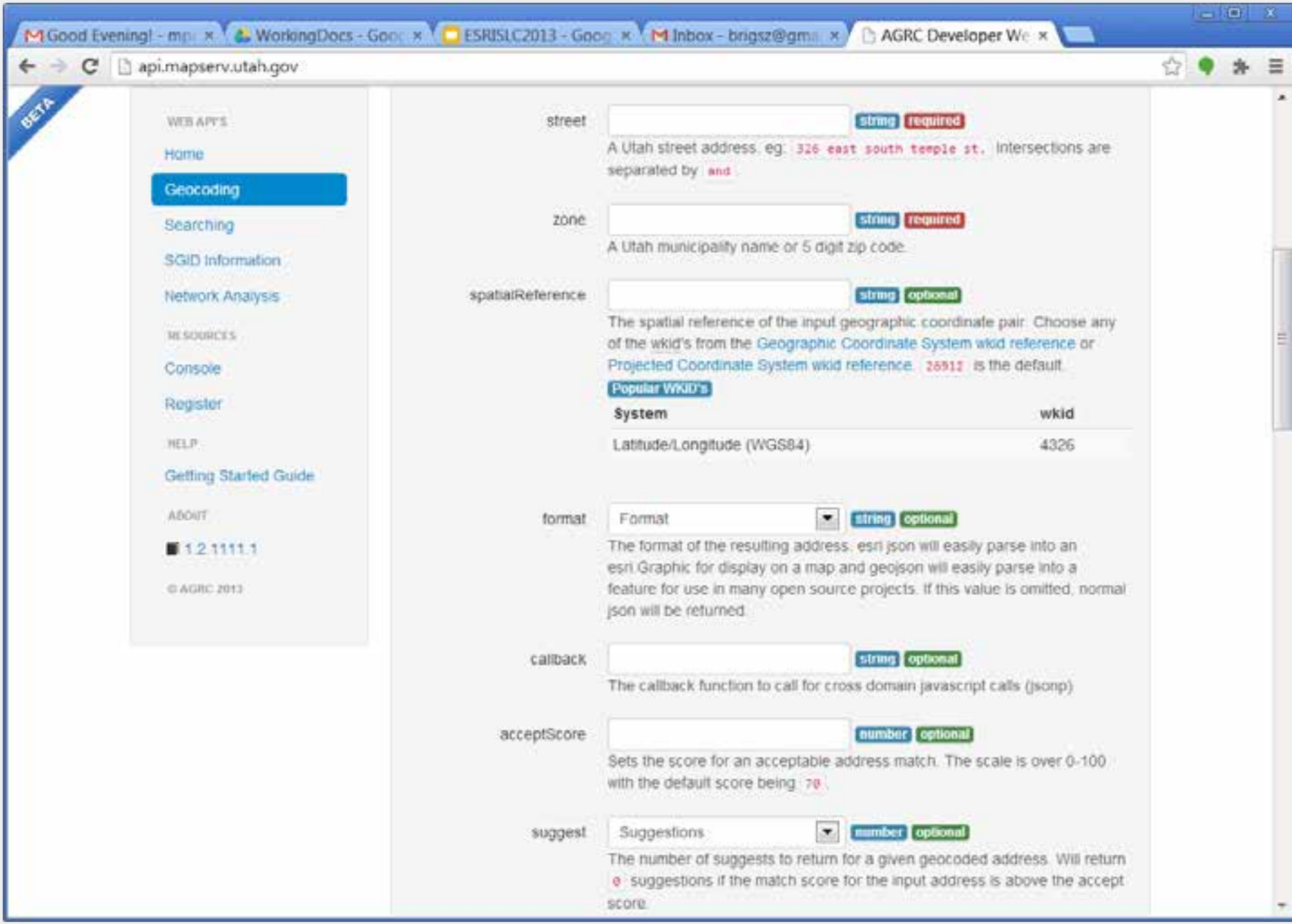
AGRC API Explorer
Navigate, test, debug our API.
Geocoding API Methods
API methods for finding a geolocation (x,y) for addresses
Important Note: matchAddress returns the name of the address grid system name for the address. For example, "matchAddress": "10420 E Little Cottonwood Canyon, Salt Lake City" means that the address is part of the Salt Lake City address grid system. It is neither within the boundaries of Salt Lake City proper, nor is that the preferred mailing address placename.
We have compiled a group of samples in various programming languages showing how to use this API. Please look, learn, and contribute new languages if you are able. Also check out the great writeup of our web api.
Get
/geocode/:street/:zone
Street and zone
Returns the geocoded address
Details
implemented
Post
/geocode/multiple
Multiple addresses
Returns a list of geocoded addresses. Addresses that do not meet the acceptScore are omitted from the returned list.
Details
implemented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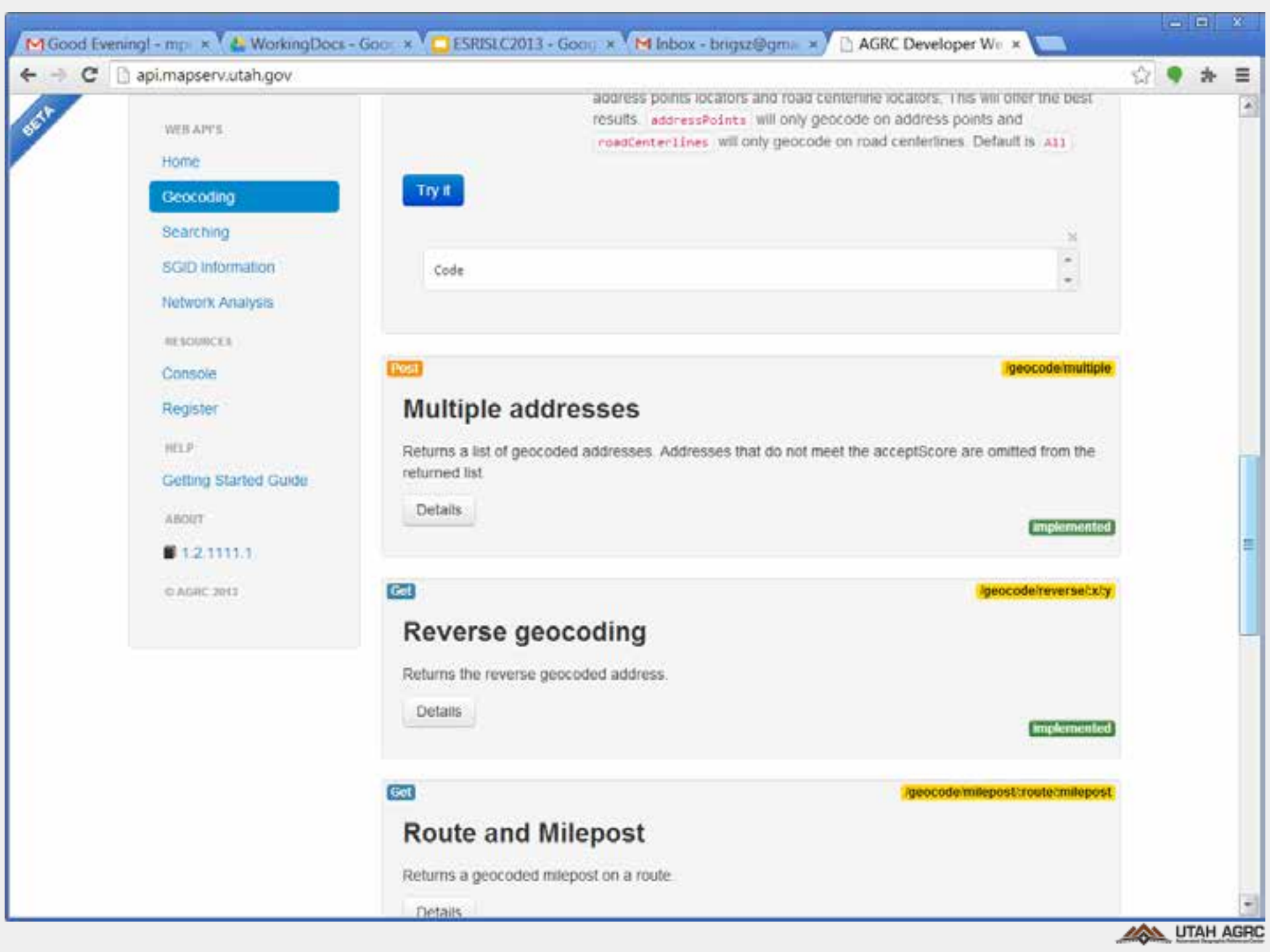
street
string required
A Utah street address. eg: 326 east south temple st. Intersections are separated by and
zone
string required
A Utah municipality name or 5 digit zip code.
spatialReference
string optional
The spatial reference of the input geographic coordinate pair. Choose any of the wkid's from the Geographic Coordinate System wkid reference or Projected Coordinate System wkid reference. 26912 is the default.
Popular WKID's
System
wkid
Latitude/Longitude (WGS84)
4326
format
Format
string optional
The format of the resulting address. esri json will easily parse into an esri Graphic for display on a map and geojson will easily parse into a feature for use in many open source projects. If this value is omitted, normal json will be returned.
callback
string optional
The callback function to call for cross domain javascript calls (jsonp)
acceptScore
number optional
Sets the score for an acceptable address match. The scale is over 0-100 with the default score being 70.
suggest
Suggestions
number optional
The number of suggests to return for a given geocoded address. Will return 0 suggestions if the match score for the input address is above the accept score.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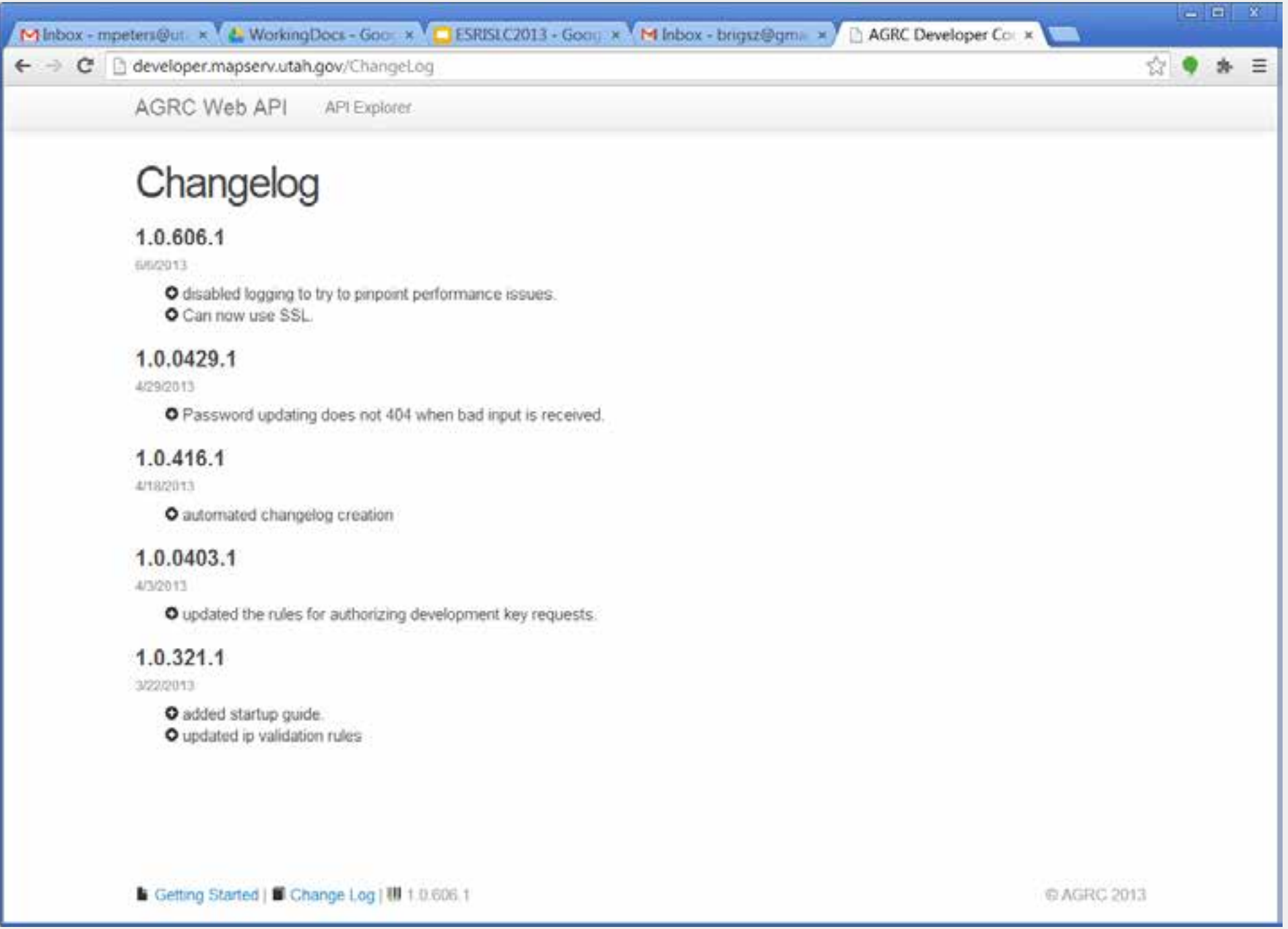
address points locators and road centerline locators. This will offer the best results. addressPoints will only geocode on address points and roadCenterlines will only geocode on road centerlines. Default is All
Try it
Code
Post
/geocode/multiple
Multiple addresses
Returns a list of geocoded addresses. Addresses that do not meet the acceptScore are omitted from the returned list.
Details
implemented
Get
/geocode/reverse{x}/{y}
Reverse geocoding
Returns the reverse geocoded address.
Details
implemented
Get
/geocode/milepost/{route}/{milepost}
Route and Milepost
Returns a geocoded milepost on a route.
Details
UTAH AGRC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AGRC Developer Co
developer.mapserv.utah.gov/ChangeLog
AGRC Web API
API Explorer
Changelog
1.0.606.1
6/6/2013
disabled logging to try to pinpoint performance issues.
Can now use SSL.
1.0.0429.1
4/29/2013
Password updating does not 404 when bad input is received.
1.0.416.1
4/18/2013
automated changelog creation
1.0.0403.1
4/3/2013
updated the rules for authorizing development key requests.
1.0.321.1
3/22/2013
added startup guide.
updated ip validation rules
Getting Started | Change Log | 1.0.606.1
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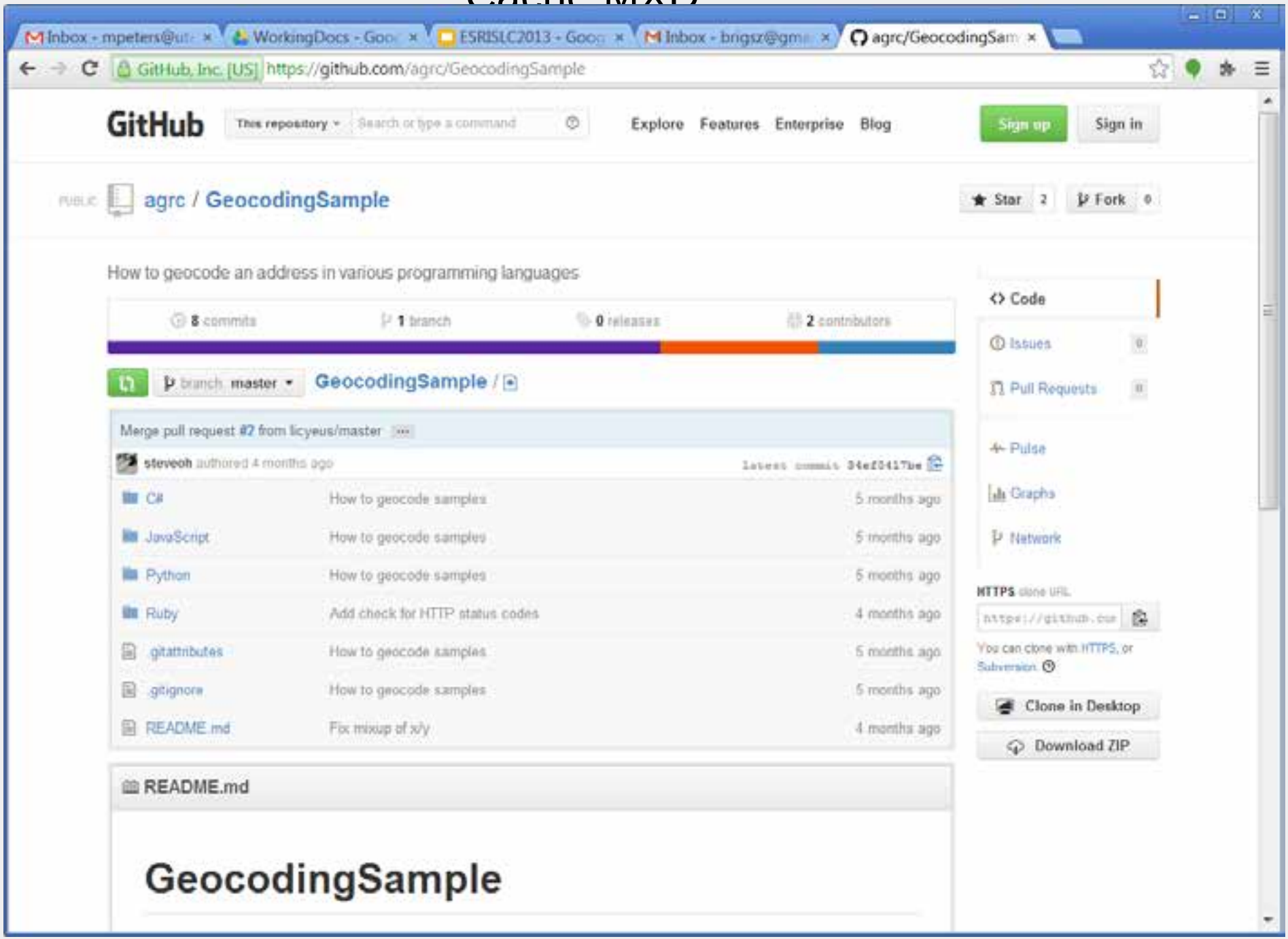
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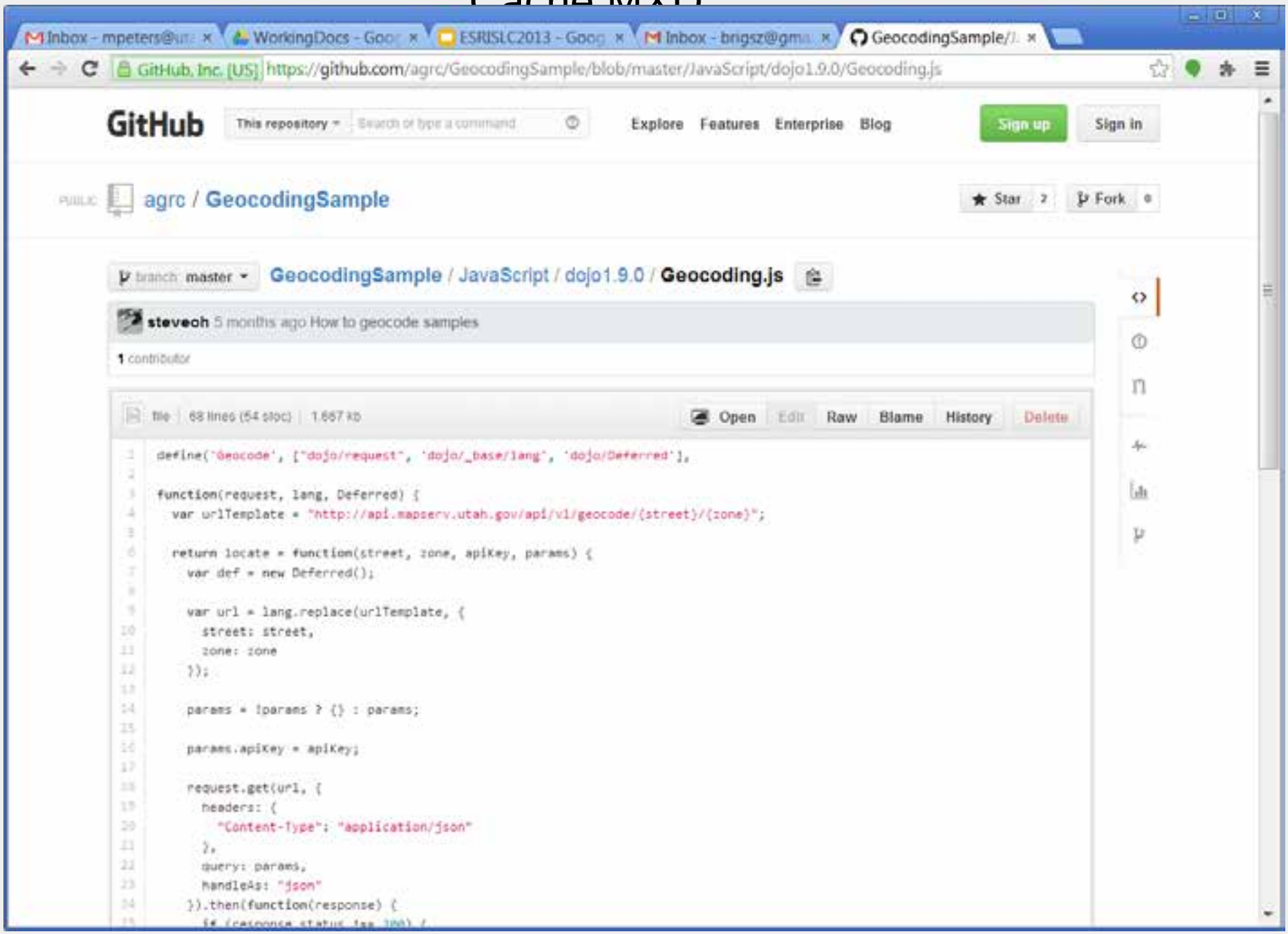
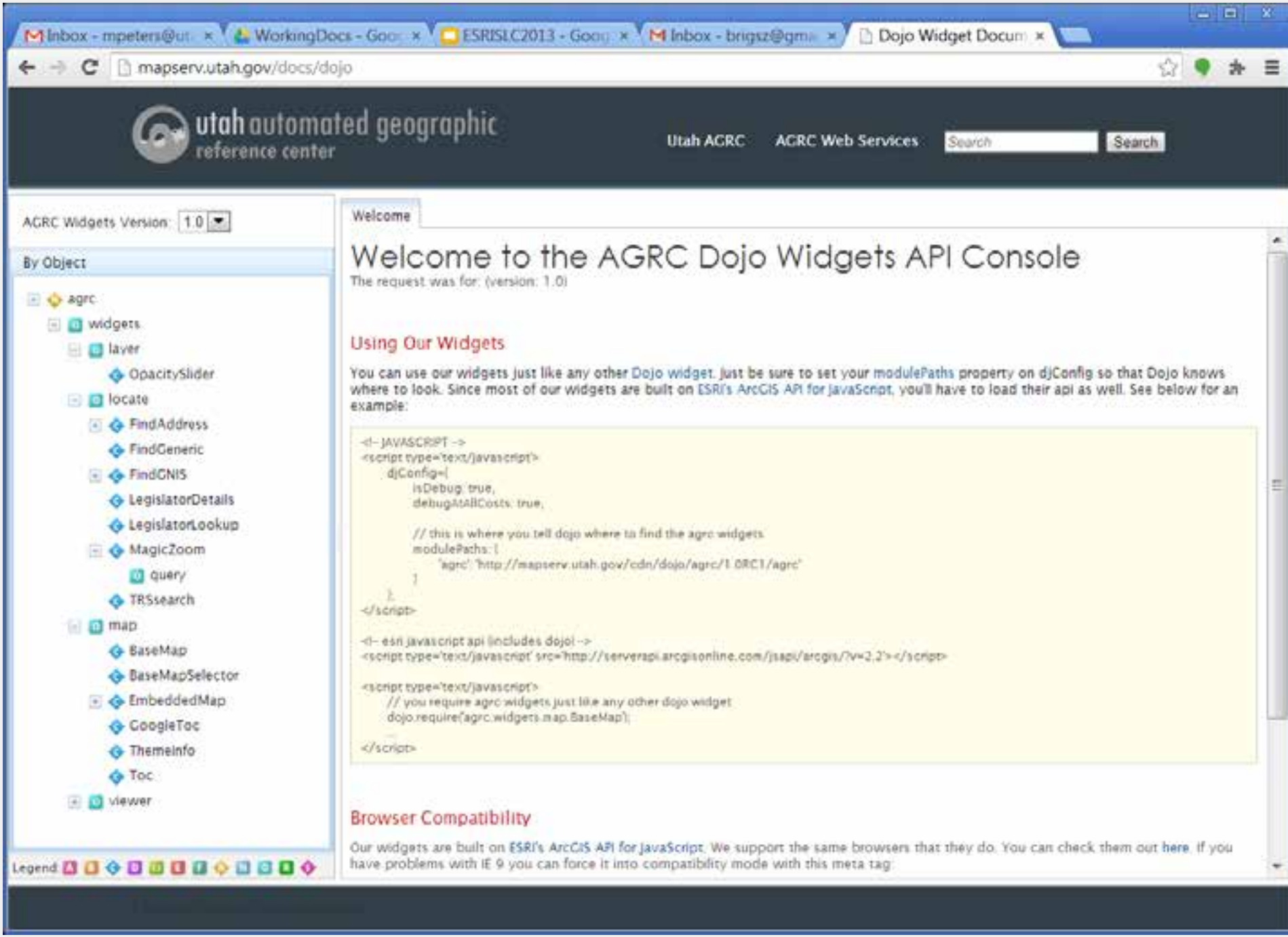
GitHub, Inc. [US] https://github.com/agrc/GeocodingSample
GitHub
This repository
Search or type a command
Explore
Features
Enterprise
Blog
Sign up
Sign in
PUBLIC
agrc / GeocodingSample
Star 2
Fork 0
How to geocode an address in various programming languages
8 commits
1 branch
0 releases
2 contributors
branch: master
GeocodingSample /
Merge pull request #2 from licyeus/master
steveoh authored 4 months ago
Latest commit 34ef3417be
C# How to geocode samples 5 months ago
JavaScript How to geocode samples 5 months ago
Python How to geocode samples 5 months ago
Ruby Add check for HTTP status codes 4 months ago
.gitattributes How to geocode samples 5 months ago
.gitignore How to geocode samples 5 months ago
README.md Fix mixup of x/y 4 months ago
Code
Issues 0
Pull Requests 0
Pulse
Graphs
Network
HTTPS clone URL
https://github.com
You can clone with HTTPS, or Subversion.
Clone in Desktop
Download ZIP
README.md
GeocodingSample


GeocodingSample/J
GitHub, Inc. [US] https://github.com/agrc/GeocodingSample/blob/master/JavaScript/dojo1.9.0/Geocoding.js
GitHub
This repository
Search or type a command
Explore
Features
Enterprise
Blog
Sign up
Sign in
PUBLIC
agrc / GeocodingSample
Star 2
Fork 0
branch: master
GeocodingSample / JavaScript / dojo1.9.0 / Geocoding.js
steveoh 5 months ago How to geocode samples
1 contributor
file 68 lines (54 sloc) 1.667 kb
Open
Edit
Raw
Blame
History
Delete
define('Geocode', ["dojo/request", 'dojo/_base/lang', 'dojo/Deferred'],
function(request, lang, Deferred) {
var urlTemplate = "http://api.mapserv.utah.gov/api/v1/geocode/{street}/{zone}";
return locate = function(street, zone, apiKey, params) {
var def = new Deferred();
var url = lang.replace(urlTemplate, {
street: street,
zone: zone
});
params = !params ? {} : params;
params.apiKey = apiKey;
request.get(url, {
headers: {
"Content-Type": "application/json"
},
query: params,
handleAs: "json"
}).then(function(response) {

Get Involved

https://github.com/agrc/

Widgets!!!!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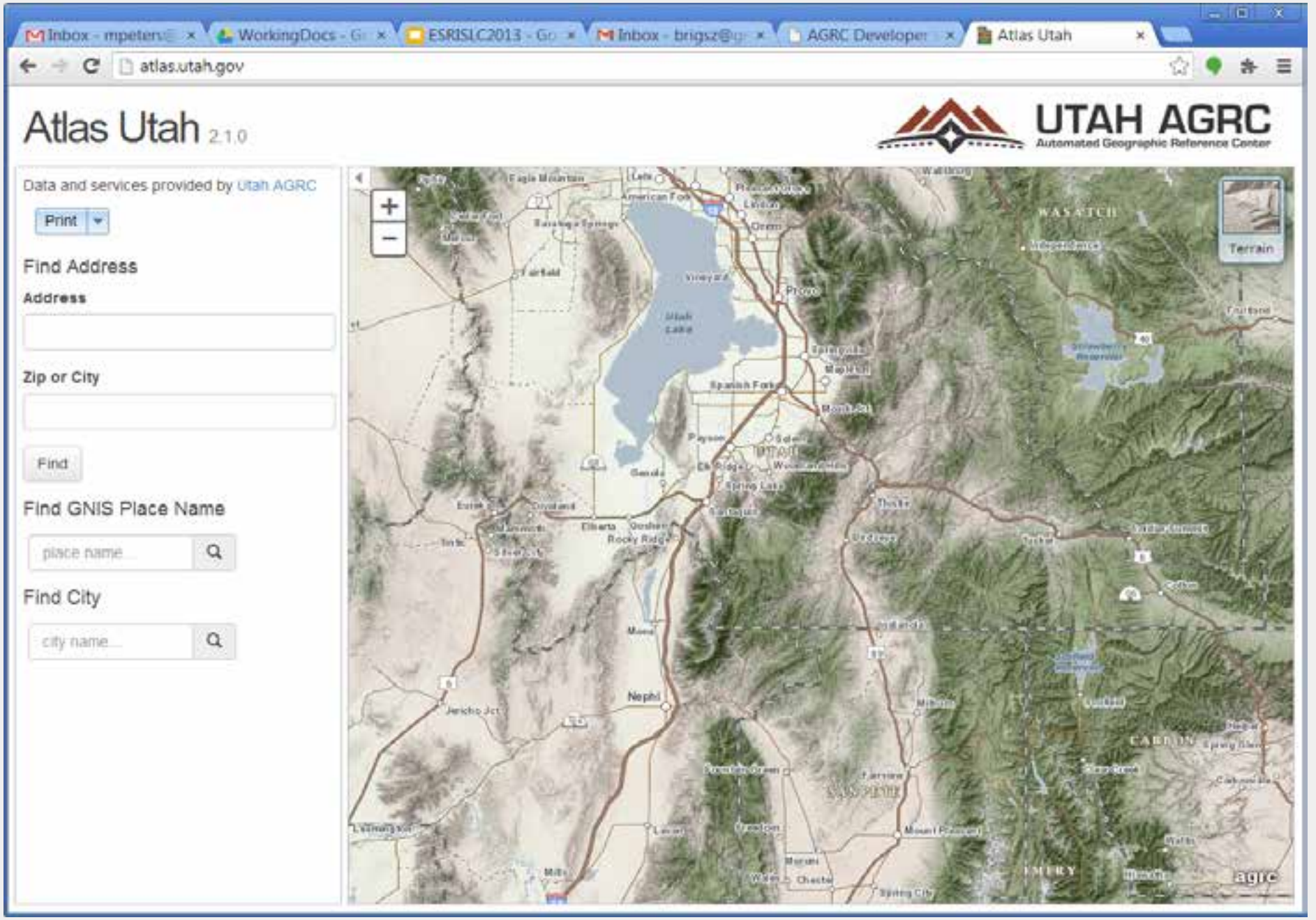
Dojo Widget Docun
mapserv.utah.gov/docs/dojo
utah automated geographic reference center
Utah AGRC
AGRC Web Services
Search
Search
AGRC Widgets Version: 1.0
By Object
agrc
widgets
layer
OpacitySlider
locate
FindAddress
FindGeneric
FindGNIS
LegislatorDetails
LegislatorLookup
MagicZoom
query
TRSsearch
map
BaseMap
BaseMapSelector
EmbeddedMap
GoogleToc
ThemeInfo
Toc
viewer
Legend
Welcome
Welcome to the AGRC Dojo Widgets API Console
The request was for: (version: 1.0)
Using Our Widgets
You can use our widgets just like any other Dojo widget. Just be sure to set your modulePaths property on djConfig so that Dojo knows where to look. Since most of our widgets are built on ESRI's ArcGIS API for JavaScript, you'll have to load their api as well. See below for an example:
<!-- JAVASCRIPT -->
<script type="text/javascript">
djConfig={
isDebug: true,
debugAtAllCosts: true,
// this is where you tell dojo where to find the agrc widgets
modulePaths: {
'agrc': 'http://mapserv.utah.gov/cdn/dojo/agrc/1.0RC1/agrc'
}
};
</script>
<!-- esri javascript api (includes dojo) -->
<script type="text/javascript" src="http://serverapi.arcgisonline.com/jsapi/arcgis/?v=2.2"></script>
<script type="text/javascript">
// you require agrc widgets just like any other dojo widget
dojo.require("agrc.widgets.map.BaseMap");
</script>
Browser Compatibility
Our widgets are built on ESRI's ArcGIS API for JavaScript. We support the same browsers that they do. You can check them out here. If you have problems with IE 9 you can force it into compatibility mode with this meta tag: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AGRC Developer
Atlas Utah
atlas.utah.gov
Atlas Utah 2.1.0
UTAH AGRC
Automated Geographic Reference Center
Data and services provided by Utah AGRC
Print
Find Address
Address
Zip or City
Find
Find GNIS Place Name
place name...
Find City
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Terrain
WASATCH
Provo
Utah Lake
Spanish Fork
Payson
Nephi
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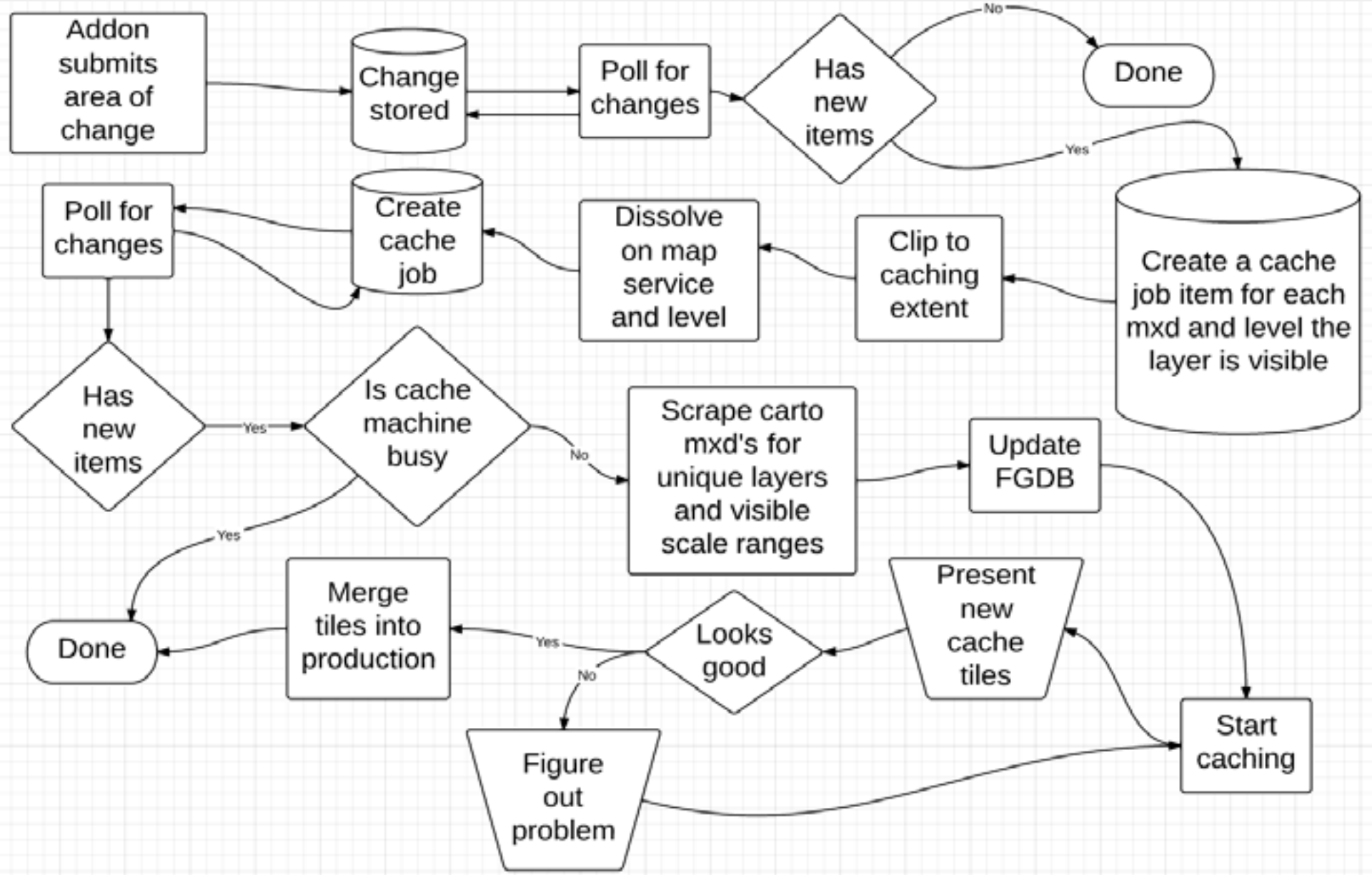
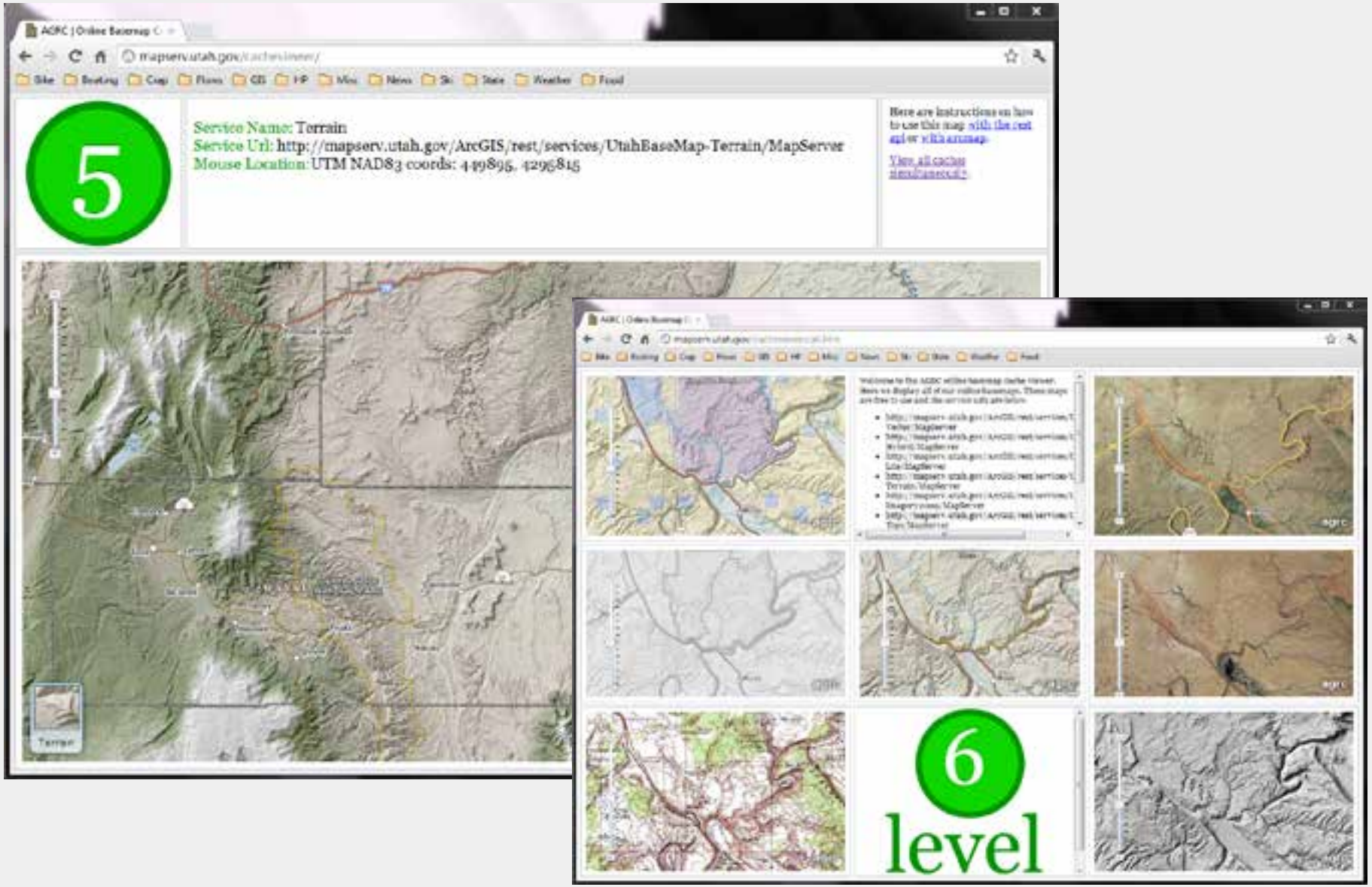
BASE MAP CACHE?





mapserv.utah.gov/cacheviewer

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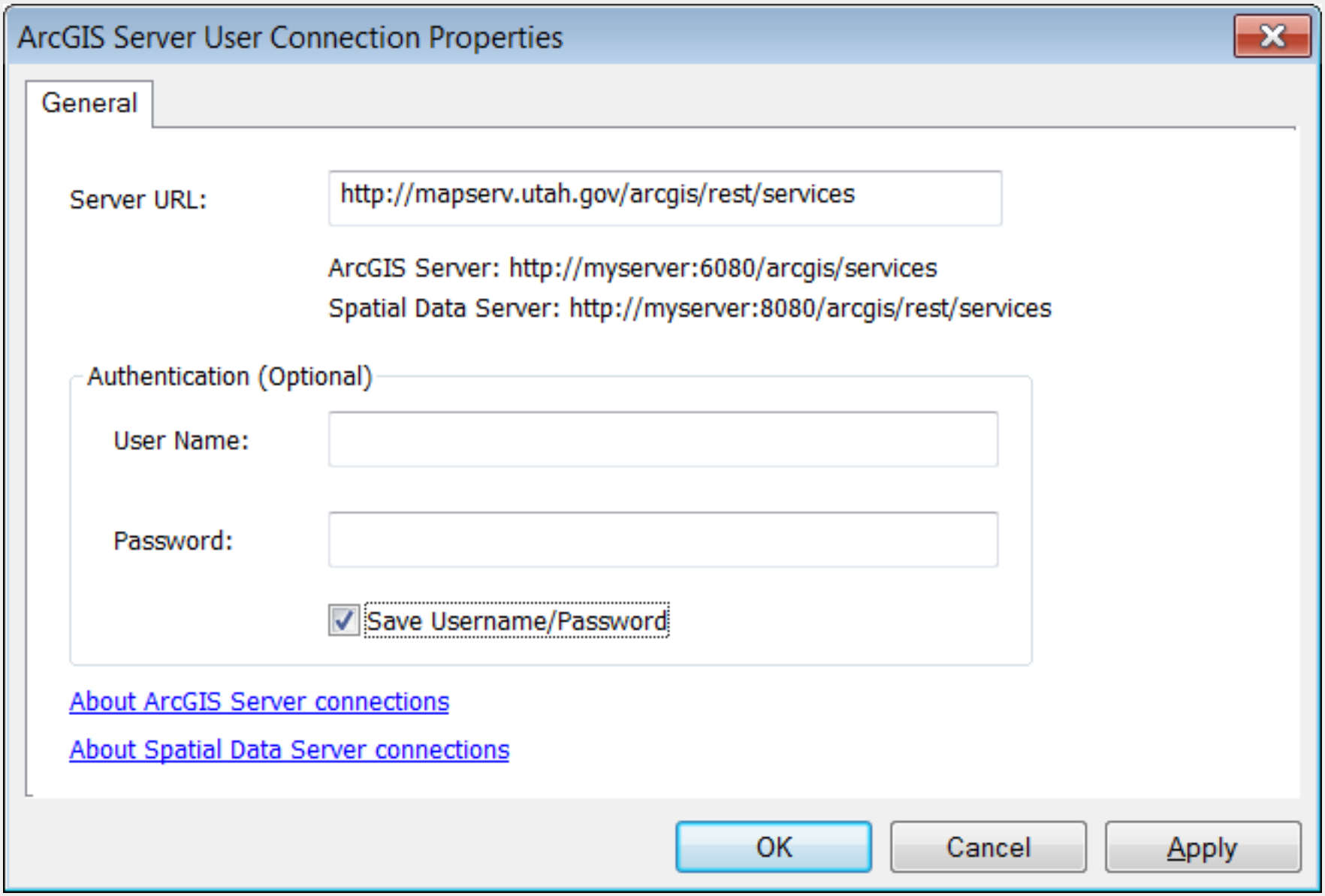
mapserv.utah.gov/cacheviewer/all.htm

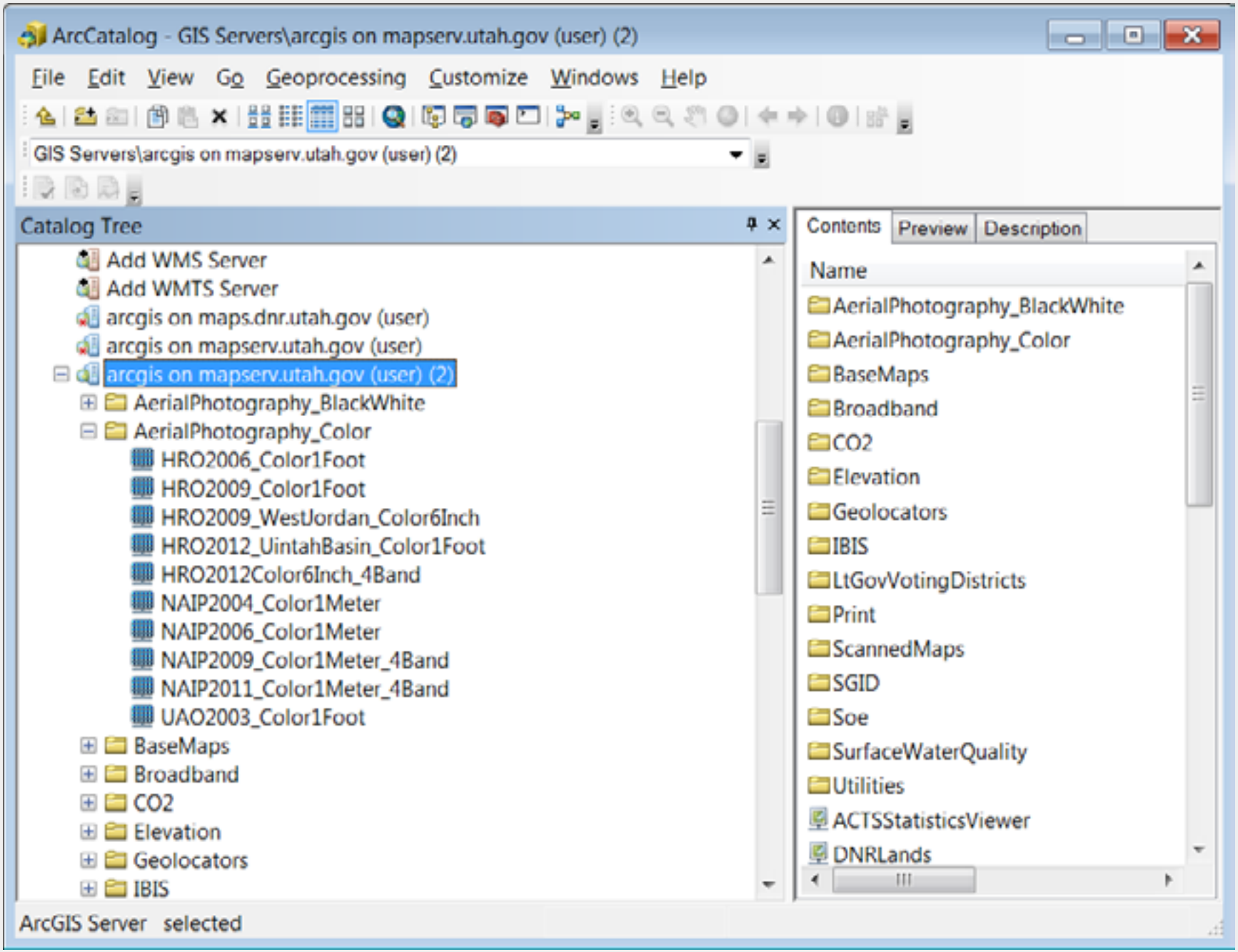
Welcome to the AGRC online basemap cache viewer. Here we display all of our online basemaps. These maps are free to use and the service urls are below.

- http://mapserv.utah.gov/ArcGIS/rest/services Vector/MapServer
- http://mapserv.utah.gov/ArcGIS/rest/services Hybrid/MapServer
- http://mapserv.utah.gov/ArcGIS/rest/services Lite/MapServer
- http://mapserv.utah.gov/ArcGIS/rest/services Terrain/MapServer
- http://mapserv.utah.gov/ArcGIS/rest/services Imagery2009/MapServer
- http://mapserv.utah.gov/ArcGIS/rest/services

6 level



http://mapserv.utah.gov/arcgis/rest/services


ArcCatalog - GIS Servers\arcgis on mapserv.utah.gov (user) (2)
File Edit View Go Geoprocessing Customize Windows Help
GIS Servers\arcgis on mapserv.utah.gov (user) (2)
Catalog Tree
Add WMS Server
Add WMTS Server
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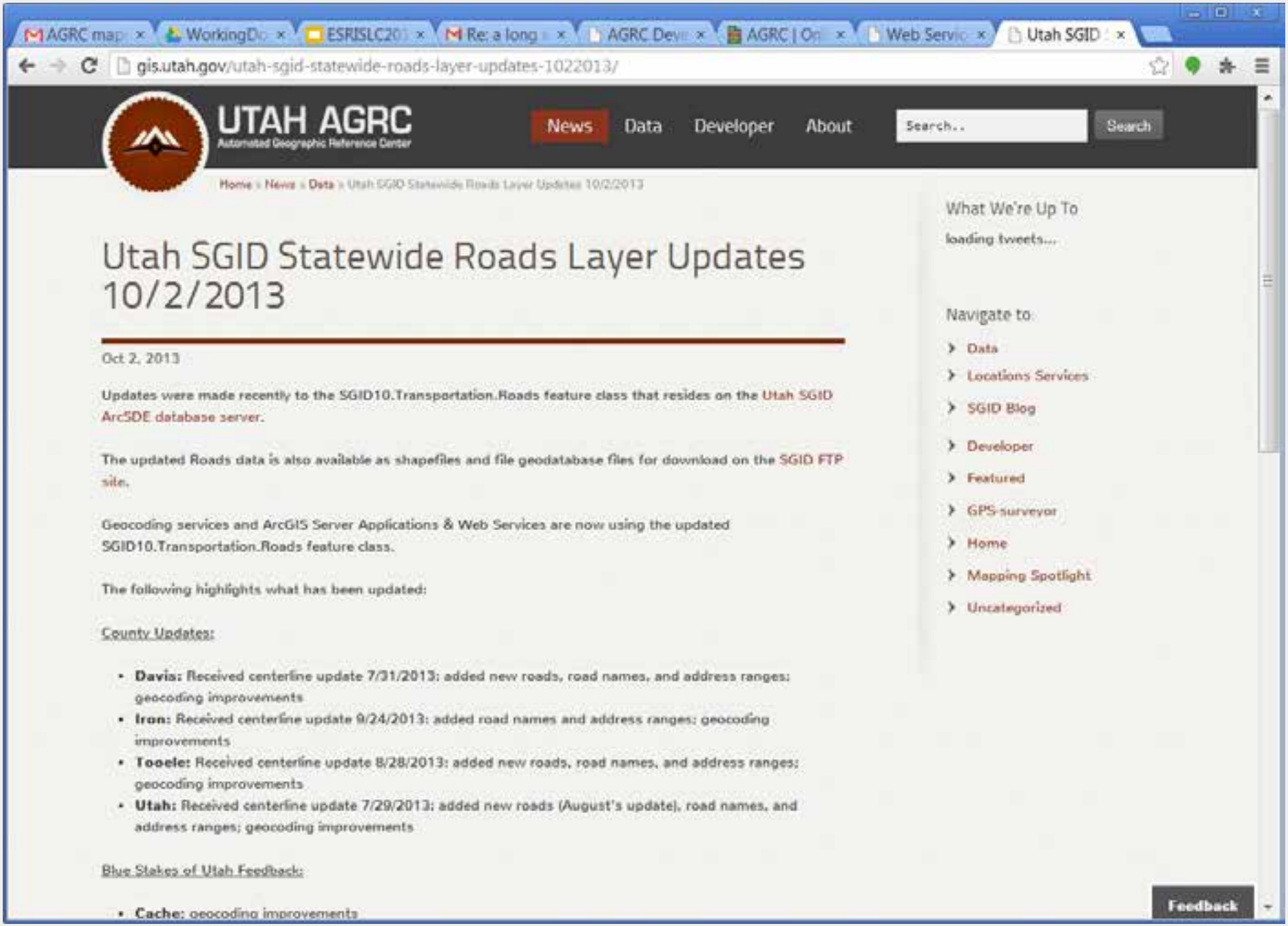
arcgis on mapserv.utah.gov (user)
arcgis on mapserv.utah.gov (user) (2)
AerialPhotography_BlackWhite
AerialPhotography_Color
HRO2006_Color1Foot
HRO2009_Color1Foot
HRO2009_WestJordan_Color6Inch
HRO2012_UintahBasin_Color1Foot
HRO2012Color6Inch_4Band
NAIP2004_Color1Meter
NAIP2006_Color1Meter
NAIP2009_Color1Meter_4Band
NAIP2011_Color1Meter_4Band
UAO2003_Color1Foot
BaseMaps
Broadband
CO2
Elevation
Geolocators
IBIS
Contents Preview Description
Name
AerialPhotography_BlackWhite
AerialPhotography_Color
BaseMaps
Broadband
CO2
Elevation
Geolocators
IBIS
LtGovVotingDistricts
Print
ScannedMaps
SGID
Soe
SurfaceWaterQuality
Utilities
ACTSStatisticsViewer
DNRLands
ArcGIS Server selected

Framework Data Layers

- The State Geographic Information Database (SGID) moving from a centralized repository to a distributed system.
- Data coming from an authoritative source (the data steward)
- gis.utah.gov will be an index of this data
- AGRC hopes to offer most framework layers as services of sorts.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Automated Geographic Reference Center
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Search
Home › News › Data › Utah SGID Statewide Roads Layer Updates 10/2/2013
Utah SGID Statewide Roads Layer Updates 10/2/2013
Oct 2, 2013
Updates were made recently to the SGID10.Transportation.Roads feature class that resides on the Utah SGID ArcSDE database server.
The updated Roads data is also available as shapefiles and file geodatabase files for download on the SGID FTP site.
Geocoding services and ArcGIS Server Applications & Web Services are now using the updated SGID10.Transportation.Roads feature class.
The following highlights what has been updated:
County Updates:
Davis: Received centerline update 7/31/2013: added new roads, road names, and address ranges; geocoding improvements
Iron: Received centerline update 9/24/2013: added road names and address ranges; geocoding improvements
Tooele: Received centerline update 8/28/2013: added new roads, road names, and address ranges; geocoding improvements
Utah: Received centerline update 7/29/2013: added new roads (August's update), road names, and address ranges; geocoding improvements
Blue Stakes of Utah Feedback:
Cache: geocoding improvements
What We're Up To
loading tweets...
Navigate to
Data
Locations Services
SGID Blog
Developer
Featured
GPS-surveyor
Home
Mapping Spotlight
Uncategorized
Feedback

Good Data is the key

- Quality, Accurate data is the key to having a successful web service experience.
- We will be working with the State agencies of Utah to create the needed map and feature services to satisfy the business needs of the user community.
- There has been two constants at AGRC. Technology is always changing and Good Data can always be delivered in the technology of the day. Focus on the Data!

Using the Data

- elections.utah.gov
- The VISTA application
- Watershed Restoration Initiative
- Wildlife Vehicle Collision Application
- more…….

Commercial Data Sources

- Imagery
- Others

UTAH AGRC
Automated Geographic Reference Center

Comments? Questions?

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sgourley@utah.gov : @steveAGRC
stdavis@utah.gov : @scottAGRC

gis.utah.gov