function getGeocodingRegion() {

return PropertiesService.getDocumentProperties().getProperty('GEOCODING\_REGION') || 'us';

}

/\*

function setGeocodingRegion(region) {

PropertiesService.getDocumentProperties().setProperty('GEOCODING\_REGION', region);

updateMenu();

}

function promptForGeocodingRegion() {

var ui = SpreadsheetApp.getUi();

var result = ui.prompt(

'Set the Geocoding Country Code (currently: ' + getGeocodingRegion() + ')',

'Enter the 2-letter country code (ccTLD) that you would like ' +

'the Google geocoder to search first for results. ' +

'For example: Use \'uk\' for the United Kingdom, \'us\' for the United States, etc. ' +

'For more country codes, see: https://en.wikipedia.org/wiki/Country\_code\_top-level\_domain',

ui.ButtonSet.OK\_CANCEL

);

// Process the user's response.

if (result.getSelectedButton() == ui.Button.OK) {

setGeocodingRegion(result.getResponseText());

}

}

\*/

function addressToPosition() {

var sheet = SpreadsheetApp.getActiveSheet();

var cells = sheet.getActiveRange();

// Must have selected 3 columns (Address, Lat, Lng).

// Must have selected at least 1 row.

if (cells.getNumColumns() != 3) {

Logger.log("Must select at least 3 columns: Address, Lat, Lng columns.");

return;

}

var addressColumn = 1;

var addressRow;

var latColumn = addressColumn + 1;

var lngColumn = addressColumn + 2;

var geocoder = Maps.newGeocoder().setRegion(getGeocodingRegion());

var location;

for (addressRow = 1; addressRow <= cells.getNumRows(); ++addressRow) {

var address = cells.getCell(addressRow, addressColumn).getValue();

// Geocode the address and plug the lat, lng pair into the

// 2nd and 3rd elements of the current range row.

location = geocoder.geocode(address);

// Only change cells if geocoder seems to have gotten a

// valid response.

if (location.status == 'OK') {

lat = location["results"][0]["geometry"]["location"]["lat"];

lng = location["results"][0]["geometry"]["location"]["lng"];

cells.getCell(addressRow, latColumn).setValue(lat);

cells.getCell(addressRow, lngColumn).setValue(lng);

}

}

};

function positionToAddress() {

var sheet = SpreadsheetApp.getActiveSheet();

var cells = sheet.getActiveRange();

// Must have selected 3 columns (Address, Lat, Lng).

// Must have selected at least 1 row.

if (cells.getNumColumns() != 3) {

Logger.log("Must select at least 3 columns: Address, Lat, Lng columns.");

return;

}

var addressColumn = 1;

var addressRow;

var latColumn = addressColumn + 1;

var lngColumn = addressColumn + 2;

var geocoder = Maps.newGeocoder().setRegion(getGeocodingRegion());

var location;

for (addressRow = 1; addressRow <= cells.getNumRows(); ++addressRow) {

var lat = cells.getCell(addressRow, latColumn).getValue();

var lng = cells.getCell(addressRow, lngColumn).getValue();

// Geocode the lat, lng pair to an address.

location = geocoder.reverseGeocode(lat, lng);

// Only change cells if geocoder seems to have gotten a

// valid response.

Logger.log(location.status);

if (location.status == 'OK') {

var address = location["results"][0]["formatted\_address"];

cells.getCell(addressRow, addressColumn).setValue(address);

}

}

};

function generateMenu() {

// var setGeocodingRegionMenuItem = 'Set Geocoding Region (Currently: ' + getGeocodingRegion() + ')';

// {

// name: setGeocodingRegionMenuItem,

// functionName: "promptForGeocodingRegion"

// },

var entries = [{

name: "Geocode Selected Cells (Address to Lat, Long)",

functionName: "addressToPosition"

},

{

name: "Geocode Selected Cells (Address from Lat, Long)",

functionName: "positionToAddress"

}];

return entries;

}

function updateMenu() {

SpreadsheetApp.getActiveSpreadsheet().updateMenu('Geocode', generateMenu())

}

/\*\*

\* Adds a custom menu to the active spreadsheet, containing a single menu item

\* for invoking the readRows() function specified above.

\* The onOpen() function, when defined, is automatically invoked whenever the

\* spreadsheet is opened.

\*

\* For more information on using the Spreadsheet API, see

\* https://developers.google.com/apps-script/service\_spreadsheet

\*/

function onOpen() {

SpreadsheetApp.getActiveSpreadsheet().addMenu('Geocode', generateMenu());

// SpreadsheetApp.getActiveSpreadsheet().addMenu('Region', generateRegionMenu());

// SpreadsheetApp.getUi()

// .createMenu();

};