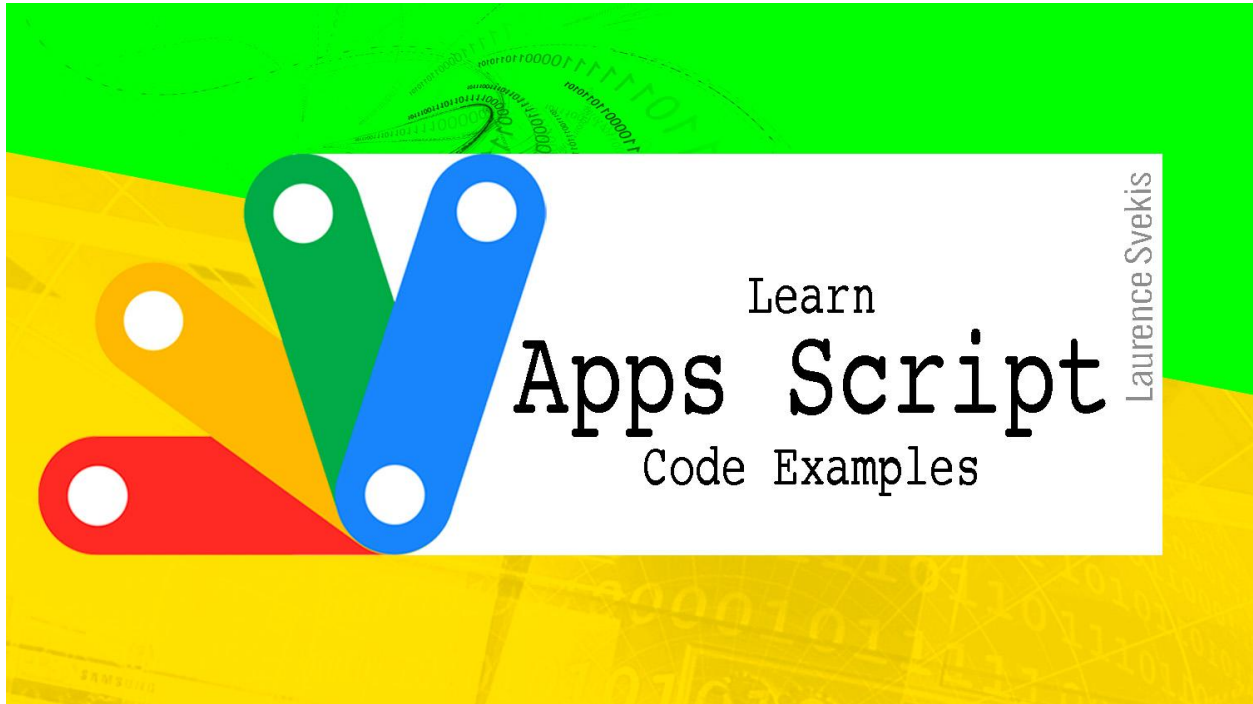


Apps Script Fun Coding Exercises 5



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Imports data from CSV file

Create a script that automatically imports data from a CSV file and populates a Google Sheet.

```
function importCSV() {  
  var csvUrl = "https://example.com/data.csv";
```

```

var csvContent =
UrlFetchApp.fetch(csvUrl).getContentText();
var data = Utilities.parseCsv(csvContent);
var sheet =
SpreadsheetApp.getActiveSpreadsheet().getSheetByName("Sheet1");
sheet.getRange(1, 1, data.length,
data[0].length).setValues(data);
}

```

Send a Slack Message

Create a script that automatically sends a Slack message when a new row is added to a Google Sheet.

<https://api.slack.com/messaging/webhooks>

```

function sendSlackMessage() {
var webhookUrl =
"https://hooks.slack.com/services/T000000000/B000000000/XXXXXXXXXXXXXXXXXXXXXXXXX";
var sheet =
SpreadsheetApp.getActiveSpreadsheet().getSheetByName("Sheet1");
var data = sheet.getRange(sheet.getLastRow(), 1, 1,
sheet.getLastColumn()).getValues()[0];
var message = "New row added to Google Sheet:\n" +
data.join("\n");
var payload = {text: message};
var options = {method: "POST", contentType:
"application/json", payload: JSON.stringify(payload)};
UrlFetchApp.fetch(webhookUrl, options);
}

```

Create a New Form

Create a script that automatically creates a new Google Form and populates it with questions from a Google Sheet.

```
function createNewForm() {
  var title = "Form Title";
  var sheet =
  SpreadsheetApp.getActiveSpreadsheet().getSheetByName("Sheet1");
  var headers = sheet.getRange(1, 1, 1,
  sheet.getLastColumn()).getValues()[0];
  var questions = [];
  for (var i = 1; i < headers.length; i++) {
    var question = {title: headers[i], type:
  FormApp.ItemType.TEXT};
    questions.push(question);
  }
  var form = FormApp.create(title);
  var formId = form.getId();
  var items = form.addItems(questions);
  var url = form.getPublishedUrl();
  sheet.getRange(2, 1).setValue(formId);
  sheet.getRange(2, 2).setValue(url);
}
```

Create a PDF from Doc

Create a script that automatically converts a Google Doc to PDF and saves it to Google Drive when a new row is added to a Google Sheet.

```
function createPDF() {
```

```

    var sheet =
SpreadsheetApp.getActiveSpreadsheet().getSheetByName("Sheet1");
    var fileId = sheet.getRange(sheet.getLastRow(),
1).getValue();
    var doc = DocumentApp.openById(fileId);
    var blob =
doc.getAs("application/pdf").setName(doc.getName() +
".pdf");
    var folder = DriveApp.getFolderById("folderId");
    var file = folder.createFile(blob);
}

```

```

function createSheetTrigger() {
    var sheet =
SpreadsheetApp.getActiveSpreadsheet().getSheetByName("Sheet1");
    ScriptApp.newTrigger("createPDF")
        .forSpreadsheet(sheet)
        .onEdit()
        .create();
}

```

Send customized Emails

Create a script that automatically sends a customized email to multiple recipients using data from a Google Sheet.

```

function sendCustomizedEmails() {

```

```

var sheet =
SpreadsheetApp.getActiveSpreadsheet().getSheetByName("Sheet1");
var data = sheet.getRange(2, 1, sheet.getLastRow() - 1, sheet.getLastColumn()).getValues();
var template =
HtmlService.createTemplateFromFile("email_template");
for (var i = 0; i < data.length; i++) {
var recipient = data[i][0];
var subject = "Customized Subject Line";
template.recipient = recipient;
var html = template.evaluate().getContent();
MailApp.sendEmail({
to: recipient,
subject: subject,
htmlBody: html,
attachments: []
});
}
}

```

In this script, we first retrieve data from a Google Sheet and store it in a variable called `data`. We then create an HTML email template using the `HtmlService` class.

Inside the loop, we retrieve the recipient's email address from the `data` variable, set the subject line, and populate the template with the recipient's name using `template.recipient = recipient;`. We then evaluate the template and retrieve its HTML content using `template.evaluate().getContent();`.

Finally, we send the email using the `MailApp.sendEmail()` method, passing in the recipient's email address, subject line, HTML content, and any attachments as parameters.

Note that in order to use the `MailApp` class, you'll need to have authorized the script to send emails by going to `File > Project properties > Scopes` and adding the `https://www.googleapis.com/auth/gmail.send` scope.