

# Fastcampus

## 퍼포먼스 마케터를 위한 업무자동화 실전 CAMP

### Day4. Google Apps Script

# Index

- Google Apps Script
  - Custom function
  - send mail via MailApp
  - Get Values from sheets
  - Add Scheduler
- Adwords Script
  - top 10 impressed keywords
  - pause 0 keywords

## Get Sheets from here!

[https://docs.google.com/spreadsheets/d/1zd\\_RQskv8IBs9SibiHisOhveSOMXc8\\_rMBb3BTEIjZ0/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1zd_RQskv8IBs9SibiHisOhveSOMXc8_rMBb3BTEIjZ0/edit?usp=sharing)

# Homework Review

```
function fastCampus(num){  
    if (num%15==0){  
        return "fastcampus";  
    } else if (num%3==0){  
        return "fast";  
    } else if (num%5==0){  
        return "campus";  
    } else {  
        return num;  
    }  
}
```

# Homework Review

```
function doFastCampus(num){  
  for (i=1;i<=num;i++){  
    if (i%15==0){  
      console.log("fastcampus");  
    } else if (i%3==0){  
      console.log("fast");  
    } else if (i%5==0){  
      console.log("campus");  
    } else {  
      console.log(i);  
    }  
  }  
}
```

# Google Apps Script



Google Apps Script

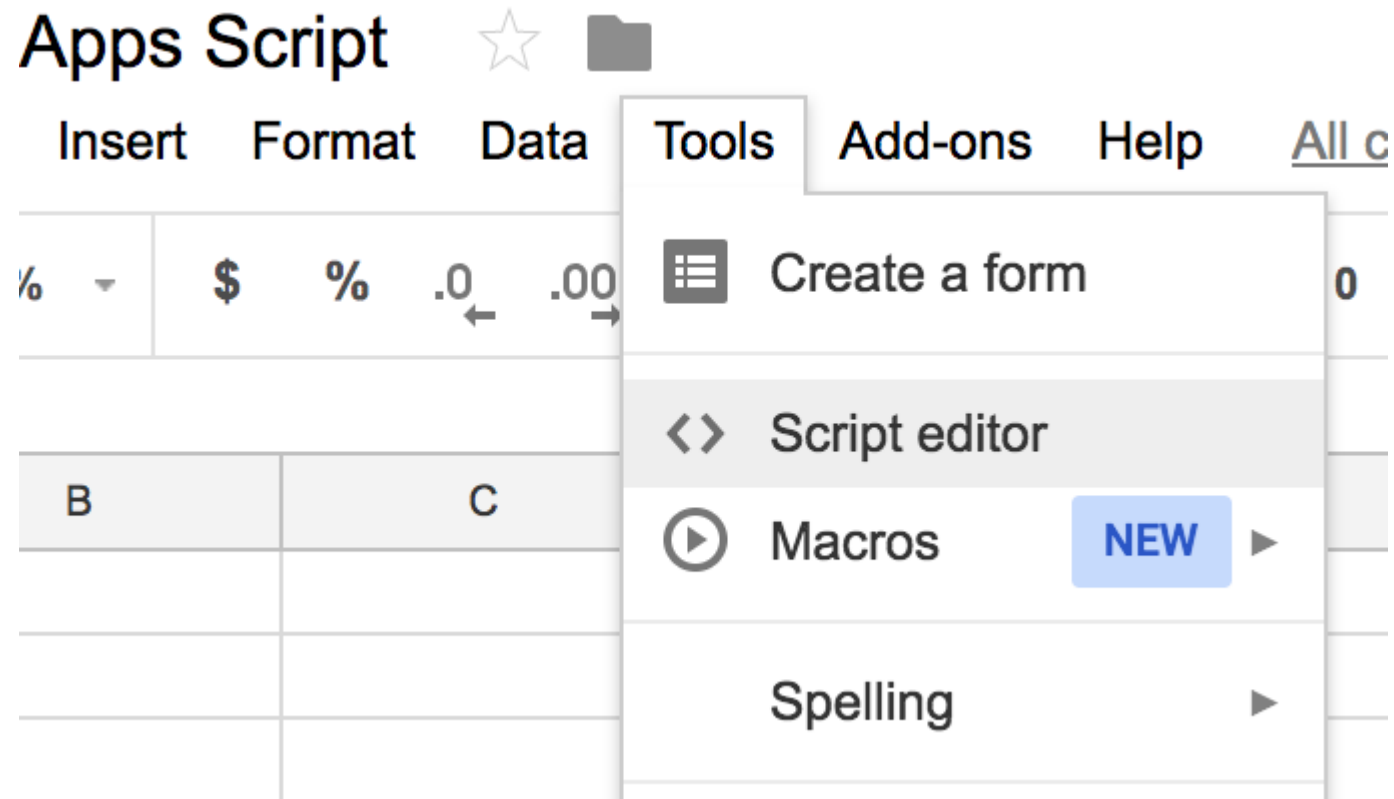
# Google Apps Script

- JavaScript을 기반으로 한 스크립트 언어
- Google Docs, Sheets, Slides, Forms 등의 G Suite 제품군의 사용자 정의 기능을 추가할 수 있음
- 스크립트 에디터를 내장하여 추가 프로그램이 필요없고, 구글의 서버에서 동작하므로 환경설정에 어려움이 없음

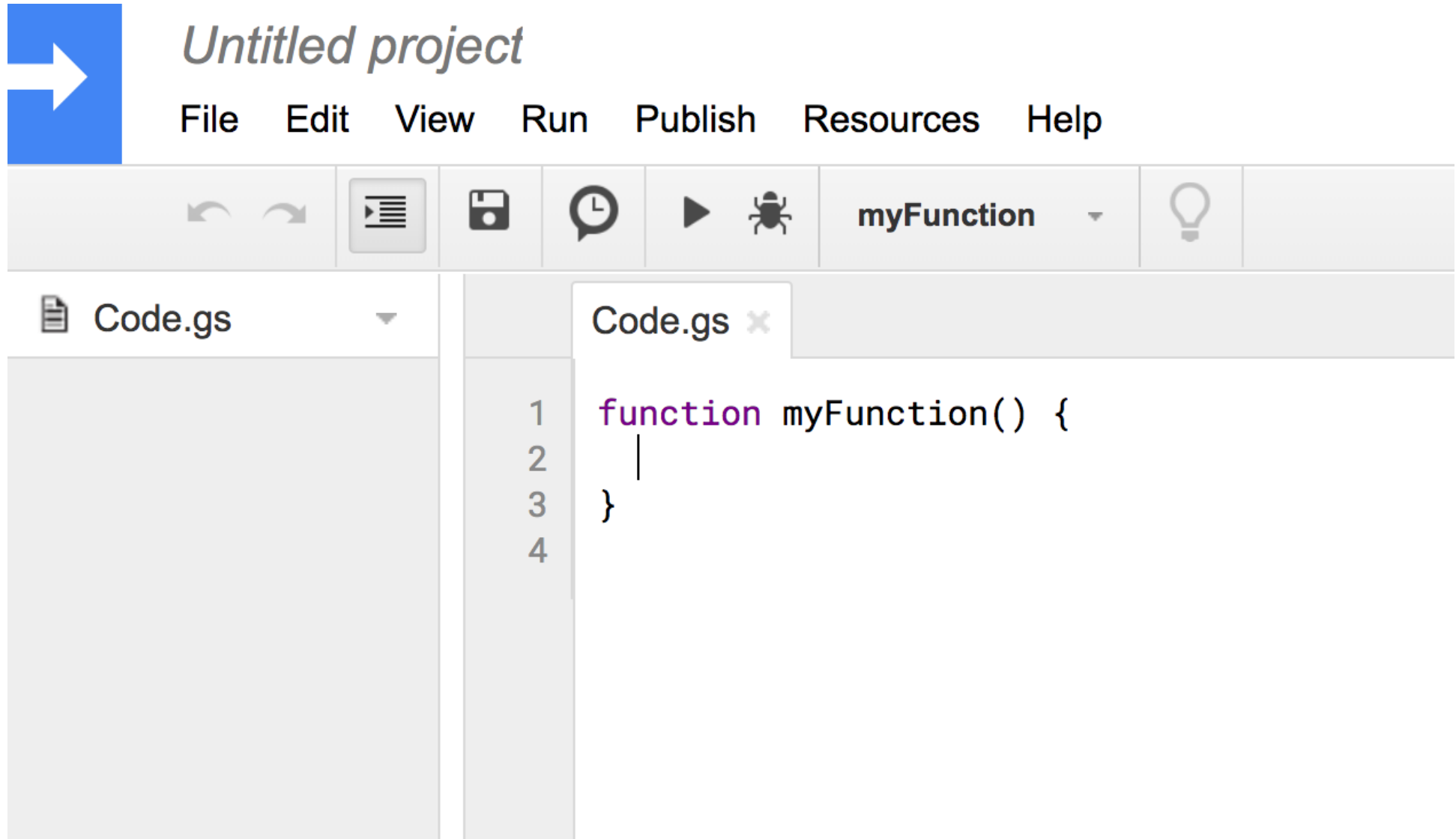
# Let's start with Script Editor



## Tools -> Script editor



# Layout



## Try "Hello Apps Script!"

```
function sayhello(){  
    return "Hello Apps Script!"  
}
```

## Make vatCalculator

- 세전가격: 10000, 부가세율: 10% -> 소비자가격: 11000
- 소비자가격: 11000, 부가세율 10% -> 세전가격: 10000

# vatCalculator

```
function vatCalculator(price, flag){  
    taxRate = 0.1;  
  
    if (flag===true){  
        // if flag is true, return value with vat  
        return price*(1+taxRate);  
  
    } else if (flag===false){  
        // if flag is false, return value original price without vat  
        return price/(1+taxRate);  
    }  
}
```

# Send email with MailApp

## Send email with MailApp





```
function sendMail() {  
    var mailAddress = 'your email address';  
    var mailContents = 'test mail success?';  
    MailApp.sendEmail(mailAddress, 'Test mail', mailContents);  
}
```

# Send email with MailApp

**GASfunctions** wants to access  
your Google Account

 ulgoon89@gmail.com

This will allow **GASfunctions** to:

-  View and manage your spreadsheets in Google Drive 
-  Send email as you 

## Make sure you trust GASfunctions

You may be sharing sensitive info with this site or app.  
Learn about how GASfunctions will handle your data by  
reviewing its terms of service and privacy policies. You can  
always see or remove access in your [Google Account](#).

[Learn about the risks](#)

[Cancel](#)

[Allow](#)



# Send Repetitive mails

```
function sendSuggestion() {  
    var sheet = SpreadsheetApp.openById('sheet id')  
        .getSheetByName('MailPractice');  
    var dataRange = sheet.getRange(2, 2, 2, 3);  
    var data = dataRange.getValues();  
  
    for (var i=0; i<data.length; i++) {  
        var message = sheet.getRange("A2").getValue();  
        var mailAddress = data[i][0];  
        var name = data[i][1];  
        var greeting = '안녕하세요 ' + name + '님\n';  
        var content = greeting + message;  
        Logger.log(name);  
        Logger.log(mailAddress);  
        Logger.log(content);  
  
        var progress = data[i][2];  
        if (progress != "Sent") {  
            MailApp.sendEmail(mailAddress, greeting, content);  
            sheet.getRange(2+i, 2+2).setValue("Sent");  
            SpreadsheetApp.flush();  
        }  
    }  
}
```

**Did it work?**

## Get values from sheets

```
var dashboard = SpreadsheetApp.openById('sheet id')
    .getSheetByName('sheet name');
var nameRange = dashboard.getRange(2, 1, 22, 1);
var dataRange = dashboard.getRange(2, 10, 22, 1);
var names = nameRange.getValues();
var data = dataRange.getValues();
for (i=0;i<names.length;i++){
    Logger.log(names[i][0], data[i][0]);
}
```

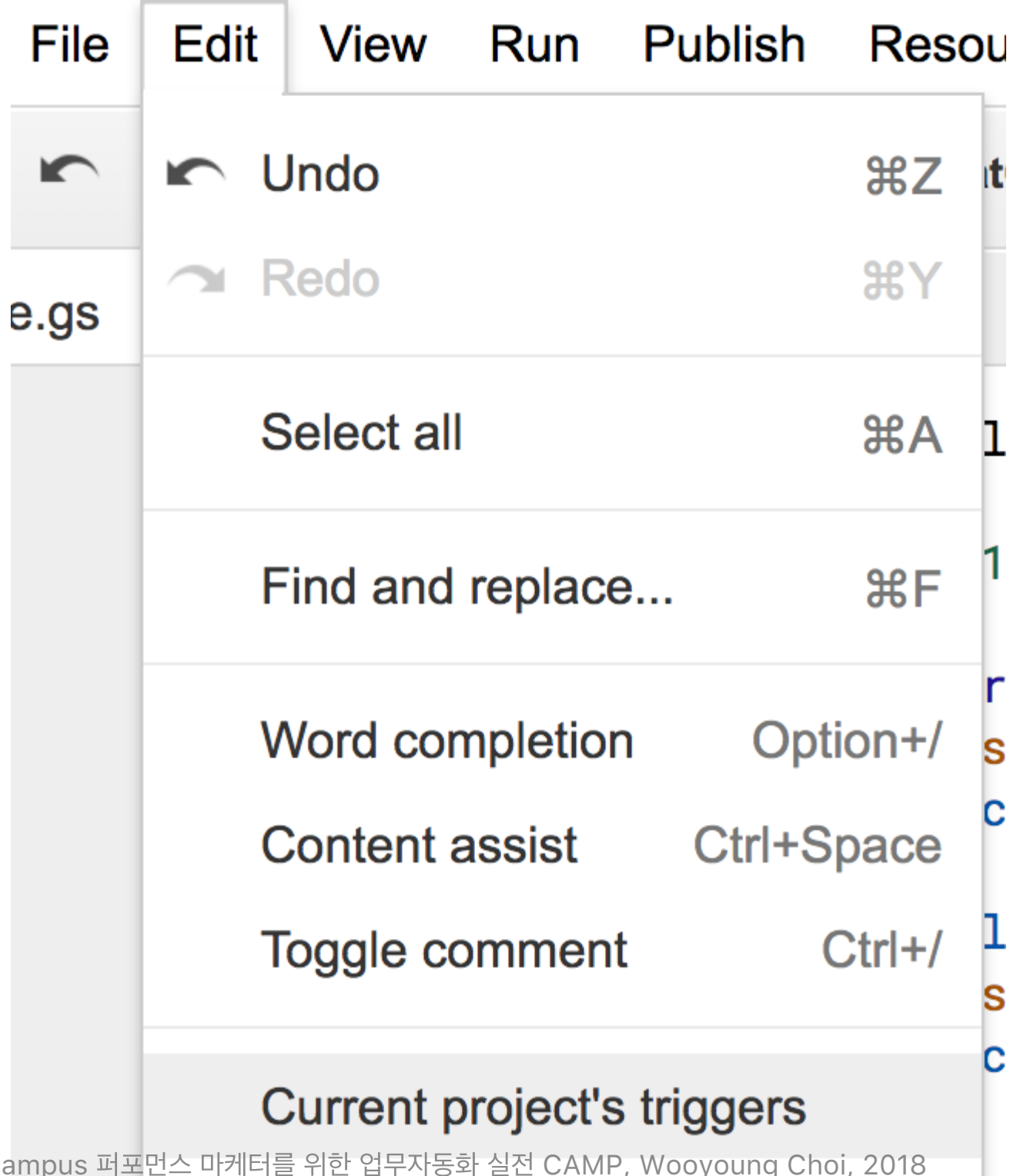
## **mail daily report**

- Send email with MailApp + Get Values from shees

# Answer

```
function dailyReport( ){  
    var mailAddress = 'mail address';  
  
    var dashboard = SpreadsheetApp.openById('sheet id')  
        .getSheetByName('sheet name');  
    var nameRange = dashboard.getRange(2, 1, 22, 1);  
    var dataRange = dashboard.getRange(2, 10, 22, 1);  
    var names = nameRange.getValues();  
    var data = dataRange.getValues();  
  
    var mailContents = 'Daily Report\n 섹터별 daily CPA\n';  
  
    for (i=0;i<names.length;i++){  
        mailContents = mailContents +  
            names[i][0] +  
            ": " +  
            data[i][0] + "\n";  
        Logger.log(mailContents);  
    }  
    MailApp.sendEmail(mailAddress, 'Daily Report', mailContents);  
}
```

# Add Scheduler in Google Apps Script



# Add Scheduler in Google Apps Script

Current project's triggers

No triggers set up. [Click here to add one now.](#)

**Save**

**Cancel**



# Add Scheduler in Google Apps Script



Current project's triggers

| Run   |                 | Events        |             |              |
|---|-----------------|---------------|-------------|--------------|
|  | vatCalculator ▾ | Time-driven ▾ | Day timer ▾ | 6am to 7am ▾ |
| <a href="#">notifications</a>   |                 |               |             |              |

[Add a new trigger](#)

# Add Scheduler in Google Apps Script

Current project's triggers

| Run   | Events           |           |               |
|---|------------------|-----------|---------------|
|  vatCalculator | Time-driven      | Day timer | 6am to 7am    |
|   | notifications    |           |               |
|  fastcampus    | From spreadsheet | On change | notifications |

[Add a new trigger](#)

# Ads Customize

# Google Adwords to Google Ads

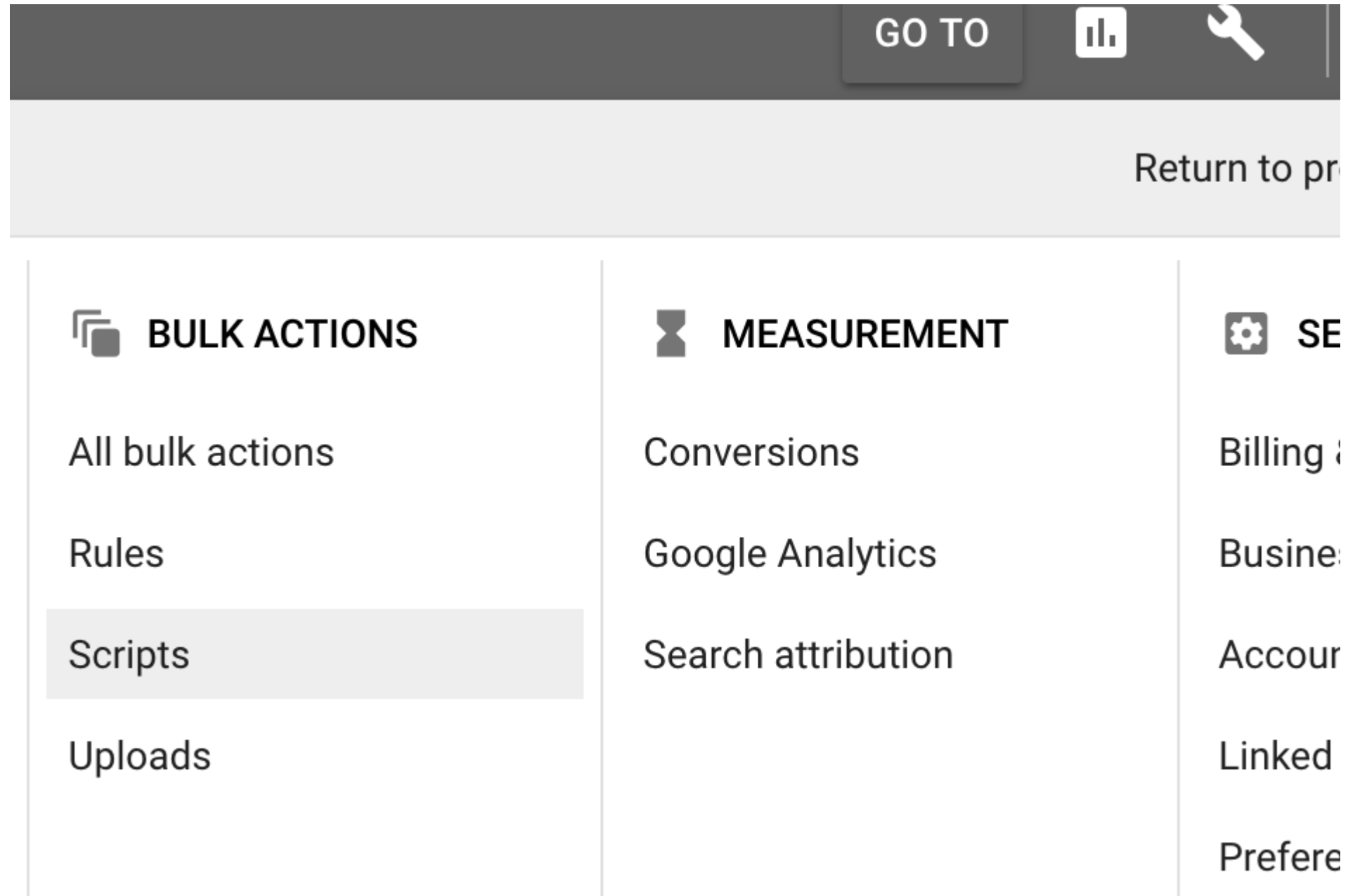


Google AdWords



Google Ads

# Start Ads Script



# Start Ads Script

All bulk actions

Rules

Scripts

Uploads

SCRIPTS

SCRIPT HISTORY

+

Script

↑

Created by

# Start Ads Script

Scripts > New script

Script name: \* Unnamed script

⚠ Scripts make changes on a user's behalf. You must authorize scripts before they can make any changes. [Learn more](#)

```
1 function main() {  
2  
3 }
```



# Hi Clifford



ulgoon89@gmail.com

**Unnamed script** wants to



Manage your AdWords campaigns



## Allow Unnamed script to do this?

By clicking Allow, you allow this app to use your information in accordance to their terms of service and privacy policies. You can remove this or any other app with access to your account in

[My Account](#)



# Start Ads Script

## Scripts > New script

Script name: \* Unnamed script

```
1 function main() {  
2  
3 }
```

## 10 keywords with most impressions yesterday

```
function main() {  
    var keywords = AdWordsApp.keywords()  
        .orderBy("Impressions DESC")  
        .forDateRange("YESTERDAY")  
        .withLimit(10)  
        .get();  
  
    Logger.log("10 keywords with most impressions yesterday");  
    while (keywords.hasNext()) {  
        var keyword = keywords.next();  
        Logger.log(keyword.getText() + ": " +  
            keyword.getStatsFor("YESTERDAY").getImpressions());  
    }  
}
```

# See result!

| CHANGES | LOGS |
|---------|------|
|---------|------|

10 keywords with most impressions yesterday  
python tutorial: 0  
codecademy python: 0  
python class: 0

## Pause Keywords

```
var TO_NOTIFY = "your@email.com";  
function main() {  
  
    var kwIter = AdWordsApp.keywords()  
        .withCondition("Impressions = 0")  
        .forDateRange("ALL_TIME")  
        .withCondition("Status = ENABLED")  
        .withCondition("CampaignStatus = ENABLED")  
        .withCondition("AdGroupStatus = ENABLED")  
        .get();  
  
    var toPause = [];
```

## Pause Keywords

```
while (kwIter.hasNext()) {  
    var kw = kwIter.next();  
    toPause.push(kw);  
  
    if (AdWordsApp.getExecutionInfo().isPreview() &&  
        AdWordsApp.getExecutionInfo().getRemainingTime() < 10) {  
        break;  
    }  
}  
  
for (var i in toPause) {  
    toPause[i].pause();  
}
```

## Pause Keywords

```
MailApp.sendEmail(TO_NOTIFY,  
                  "AdWords Script Paused "  
                  +toPause.length  
                  +" Keywords.",  
                  "Your AdWords Script paused "  
                  +toPause.length  
                  +" keywords.");  
}
```