

# Workspace Automation For PgMs/PjMs

04/10

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# Objectives of this Session

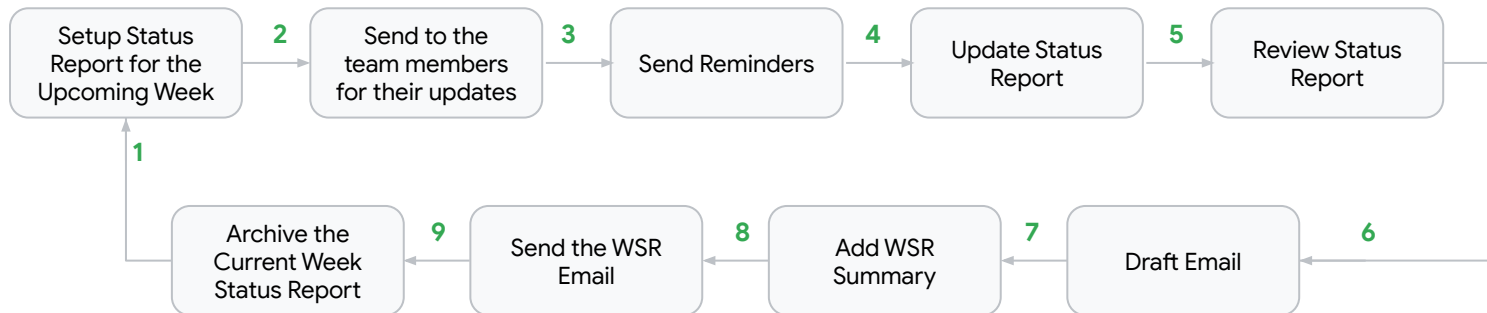
# Objectives

At the end of the session, you should be able to

- Explore **use cases** that can be automated in your job function
- Architect **Apps Script** to automate your workflows
- Understand **basics of GenAI**, it's Input parameters
- Use **GenAI programmatically** in your job function

# Weekly Status Reporting Workflow

*We will use this workflow as an example for automation with App Script (and GenAI)*



## Survey Results:

- **85.7%** of the respondents **use Slides** to send Customer Weekly Status Reports and **send them in email**
- **71.4%** spend up to 1 hour **drafting the status report email** and **setting up the status report for the following week**
- **28.6%** spend more than 2 hours for the same task
- **40%** spend up to 2 hours **sending reminders to the team**, in addition to thinking about sending the reminders
- **60%** spend up to 1 hour for the same task

# **Automate Workspace with Apps Script**

# Apps Script

- Google Apps Script is a cloud-based development platform that extends the functionality of Google Workspace applications using JavaScript.
- With Apps Script, you can automate tasks, create custom functions, and even build add-ons and web apps, all designed to streamline your work within the Google Workspace environment.

## Key Capabilities

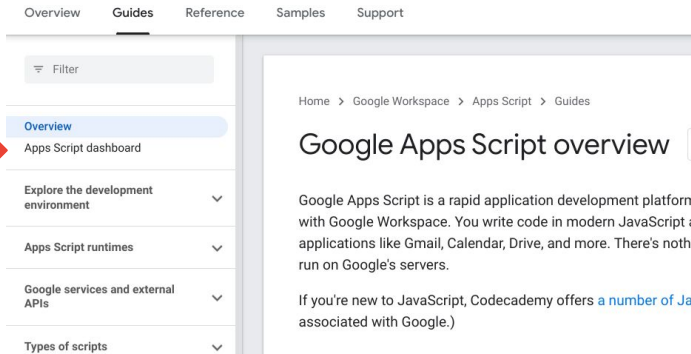
- Automate tasks across Google products (Gmail, Sheets, etc.)
- Create custom Google Sheets functions
- Build add-ons for Docs, Sheets, Slides, Forms
- Develop basic web applications
- Integrate with other Google services

# Hands On



# Apps Script

- Visit [go/appsscript](https://go/appsscript)



Home > Google Workspace > Apps Script > Guides

## The Apps Script Dashboard

The [Apps Script dashboard](#) lets you manage and monitor your Apps Script projects. You can use the dashboard

- View and search for your existing Apps Script projects, including [bound](#) scripts attached to Google Works
- Create new projects.
- View details about your projects, such as the [OAuth scopes](#) it uses.
- Monitor the health and usage of your script projects.

# Apps Script

Let us **Send an email to yourself** through Apps Script

## Steps:

1. Click on New Project and you will see code.gs
2. Name your Project
3. Click on the + button next to “Files” and choose “Script” and name the file scriptOne
4. **Visit:** go/appscriptforpgms
5. Copy Script 1, go back to the Editor, select all and paste
6. Save the file (Floppy disk icon)
7. Now click Run
8. Go check your inbox

# Apps Script

Let us **Send an email to yourself along with a link to your file** using Apps Script

## Steps:

1. Click on the + button next to “Files” and choose “Script” and name the file scriptTwo
2. **Visit:** [go/appscriptforpgms](https://script.google.com/macros/u/0/exec)
3. Copy Script 2, go back to the Editor, select all and paste
4. Save the file (Floppy disk icon)
5. Now click Run
6. Go check your inbox

# Apps Script

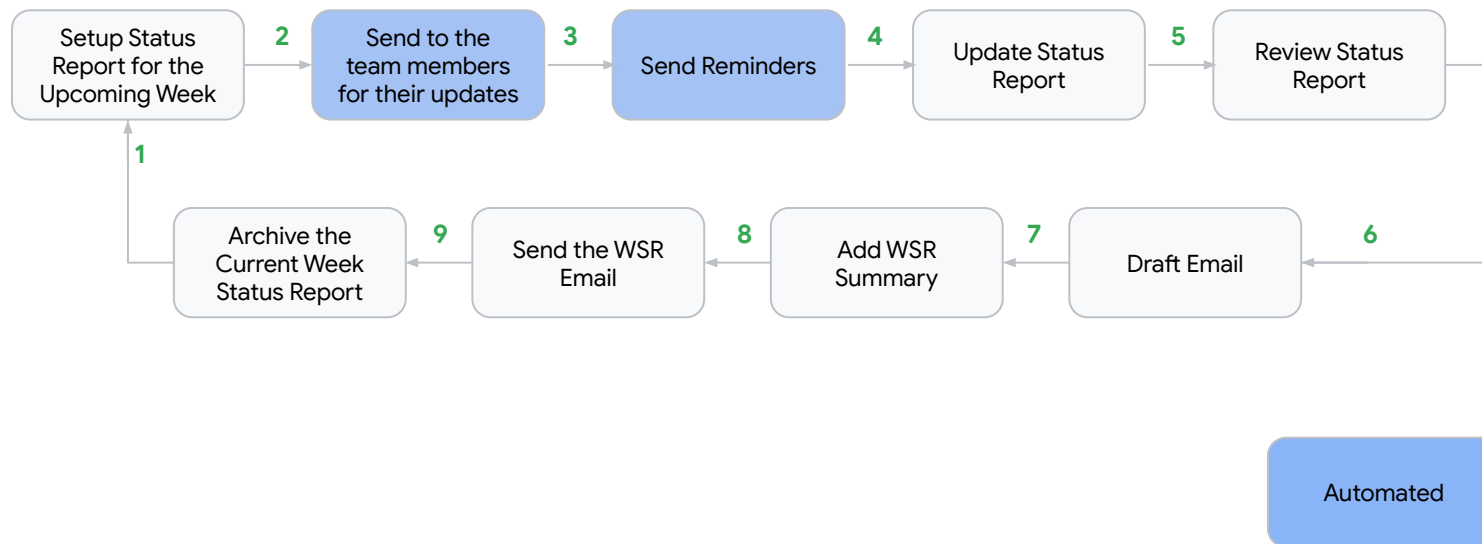
## Setup a trigger to send recurring email

### Steps:

1. On the left side of the Apps Script window
2. Click on “Triggers”
3. On the bottom right corner, click on “Add Trigger”
4. Choose the function within the current Project you want to run
5. Select event type as Week timer
6. Select day of week and time of day as per your need
7. Create as many triggers as you want

# Weekly Status Reporting Workflow

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# Introduction to GenAI Programming

## The world's smallest LLM (XXXXXS)

Let us say, the only data that you trained your model with is this ...

The cat sat on a mat

The cat sat on a chair

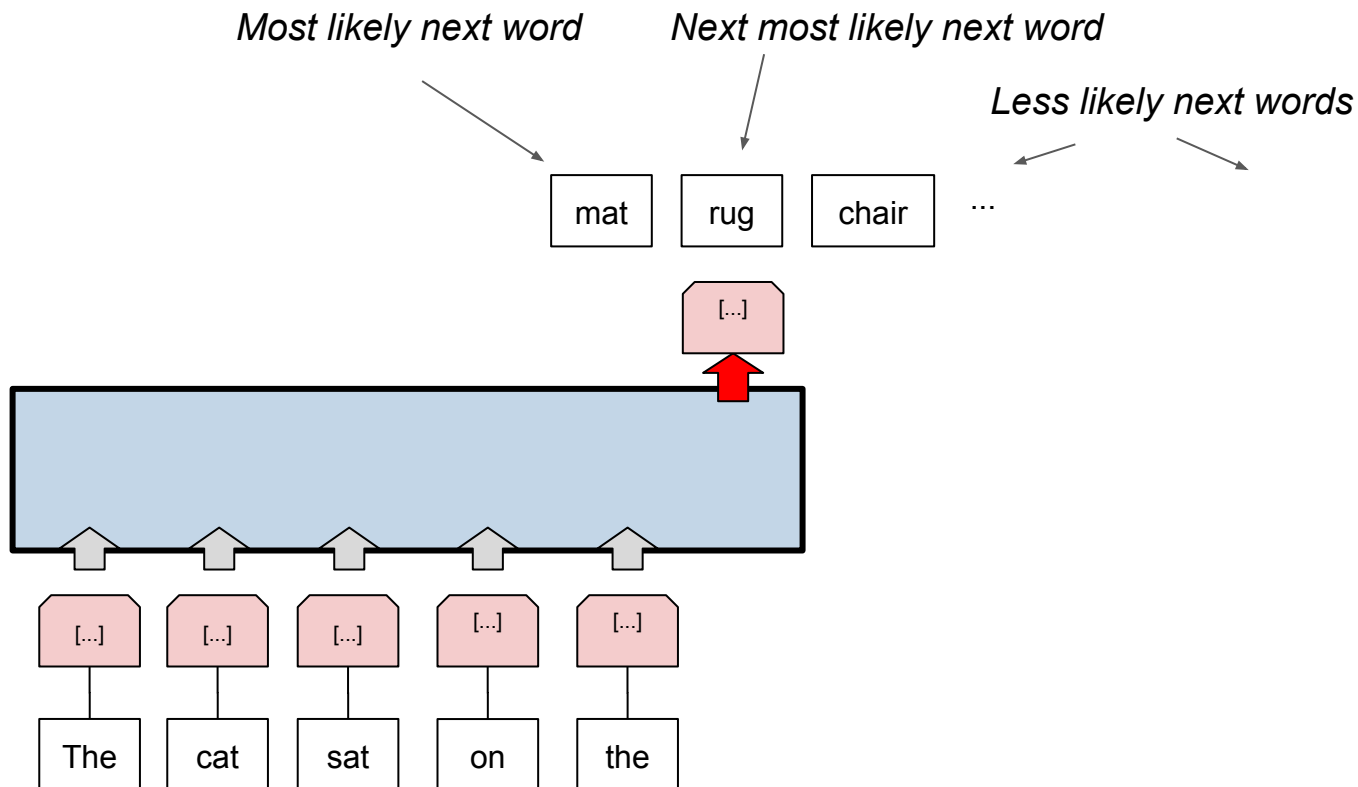
The cat sat on a rug

The cat sat on a mat

The cat sat on a rug

The cat sat on a mat

# When asked to predict the next word ...





# Decoding Strategies

**INPUT**

The garden was full of beautiful ....

**OUTPUT**

[*flowers* (0.5), *trees* (0.23), *herbs* (0.05) ... *bugs* (0.03)]



Which word do we return? 🤖

# Greedy Decoding

INPUT

The garden was full of beautiful ....

OUTPUT

**[flowers (0.5)** trees (0.23), herbs (0.05) ... bugs (0.03)]

Select word with highest probability

# Random Sampling

**INPUT**      The garden was full of beautiful ....

**OUTPUT**      [*flowers (0.5), trees (0.23), herbs (0.05) ... bugs (0.03)*]

Randomly sample over the distribution

# Temperature

Temperature is a number used to tune the degree of randomness.

Lower temperature → less randomness

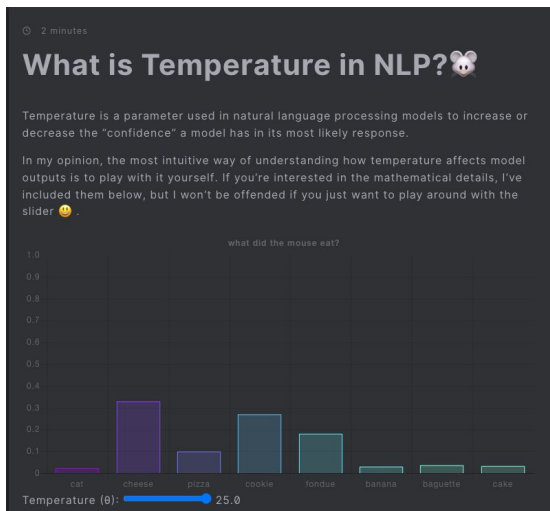
- Temperature of 0 is deterministic (greedy decoding)
- Generally better for tasks like q&a and summarization where you expect a more “correct” answer
- If you notice the model repeating itself, the temp is probably too low

High temperature → more randomness

- Can result in more unusual (you might even say creative) response
- If you notice the model going off topic or being nonsensical, the temp is likely too high

**Temperature is a configurable input in most LLM APIs**

# Temperature



A nice visualization of temperature:

<https://lukesalamone.github.io/posts/what-is-temperature/>

# Top K

*[flowers (0.5), trees (0.23) herbs (0.05) ... bugs (0.03)]*

Only sample from top K tokens

$K = 2$

# Top P

[flowers (0.5), trees (0.23), herbs (0.05) ... bugs (0.03)]

Only sample from top P tokens

P = 0.73

# Zero-shot Prompting vs Few-shot prompting

[https://aistudio.google.com/app/prompts/new\\_chat](https://aistudio.google.com/app/prompts/new_chat)



# Apps Script

Let us **Send an email to yourself with a GenAI joke** to your file using Appscript

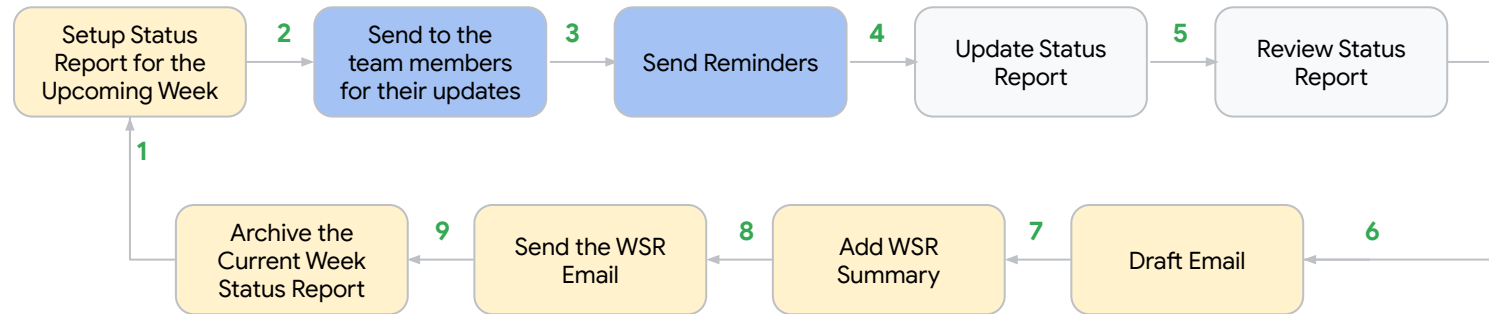
## Steps:

1. Click on the + button next to “Files” and choose “Script” and name the file scriptThree
2. **Visit:** [go/appscriptforpgms](https://script.google.com/macros/create)
3. Copy Script 3, go back to the Editor, select all and paste
4. Save the file (Floppy disk icon)
5. Now click Run
6. Go check your inbox

# Weekly Status Report Automation

# Weekly Status Reporting Workflow

*We will use this workflow as an example for automation with App Script (and GenAI)*



1) Read the status updates  
2) Use GenAI to create a summary for the body of the email

1) Draft the message  
2) Add email ids  
3) Attach the status report in pdf format

# Apps Script

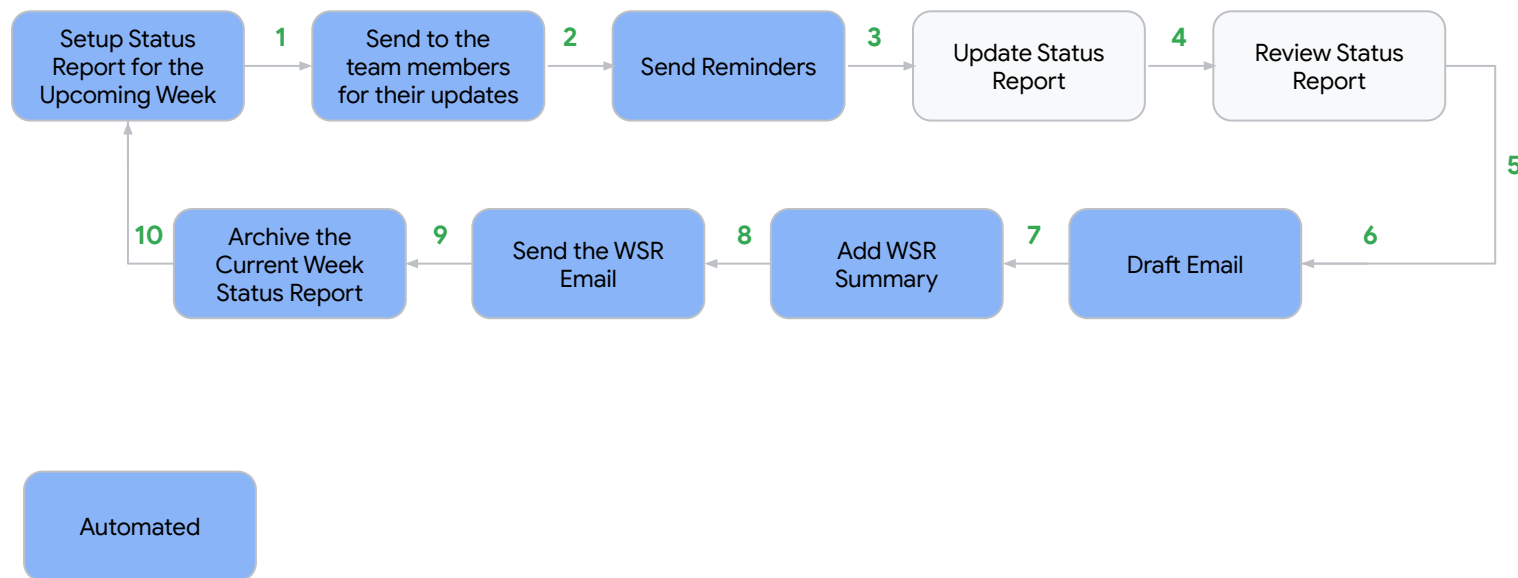
## Steps:

1. Click on the + button next to “Files” and choose “Script” and name the file scriptFour
2. **Visit:** [go/appscriptforpgms](#)
3. Copy Script 4, go back to the Editor, select all and paste
4. Save the file (Floppy disk icon)
5. Now click Run
6. Go check your inbox

# Code Walkthrough

# Weekly Status Reporting Workflow

*We will use this workflow as an example for automation with App Script (and GenAI)*



# Explore Possibilities

go/[iamhere](#)

Join [workspace-wizards@google.com](mailto:workspace-wizards@google.com)  
[Google Group]