

### Variables ©Simplilearn. All rights reserved. simpl<sub>i</sub>learn

### A Day in the Life of an Automation Testing Engineer

John is assigned the task of making the API testing dynamic.

As part of his assignment, he will create variables and use them to provide different values in the API requests.

After completing this session, John will be able to create, refer, get, and set variables in Postman.



### **Learning Objectives**

By the end of this lesson, you will be able to:

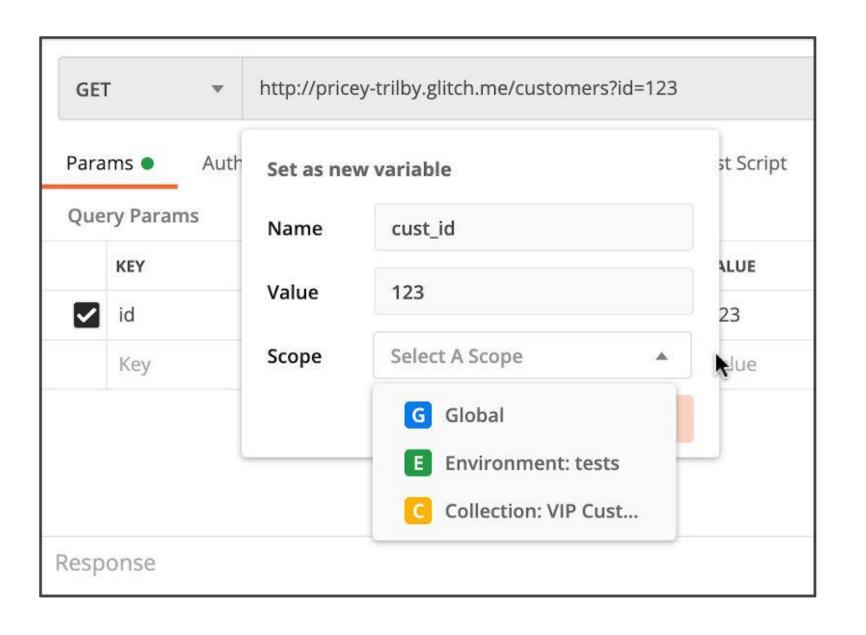
- Identify variables in Postman
- Explain the variable scope in Postman
- List the steps to create and refer a variable
- Explain how to get and set a variable in Postman



# Variables In Postman

### **Variables In Postman**

In Postman, variables allow users to save and reuse values. Users can refer to a value stored as a variable throughout their Collections, Environments, requests, and test scripts.





### **Benefits of Using Variables In Postman**

A variable saves time by eliminating the need to duplicate requests.

It stores values used in requests, Environments, Collections, and test scripts.

It reduces errors and boosts the efficiency of Postman.

## **How to Create a Variable in Postman?** ©Simplilearn. All rights reserved.

### **Types of Variables**

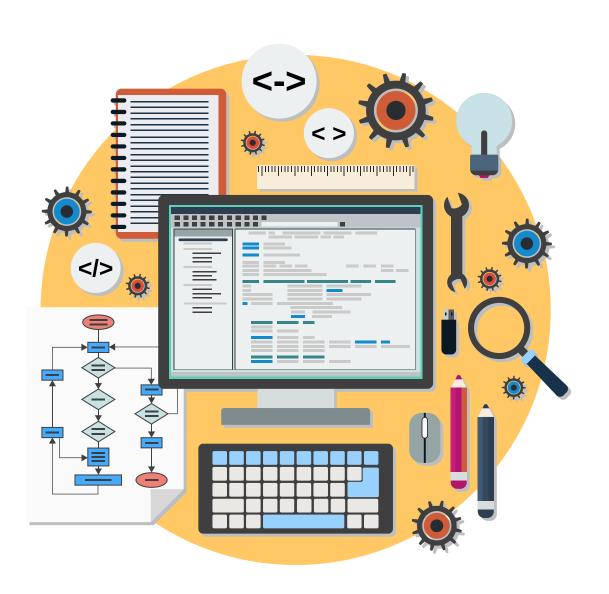
The two types of variables in the global Environment that users can configure are:

Type	Description
Default	This type of variable is assigned by default and used as plain text with no additional properties.
Secret	This type of variable masks the values and prevents undesirable exposure of sensitive data.

## Variable Scope in Postman ©Simplilearn. All rights reserved.

### **Variable Scopes**

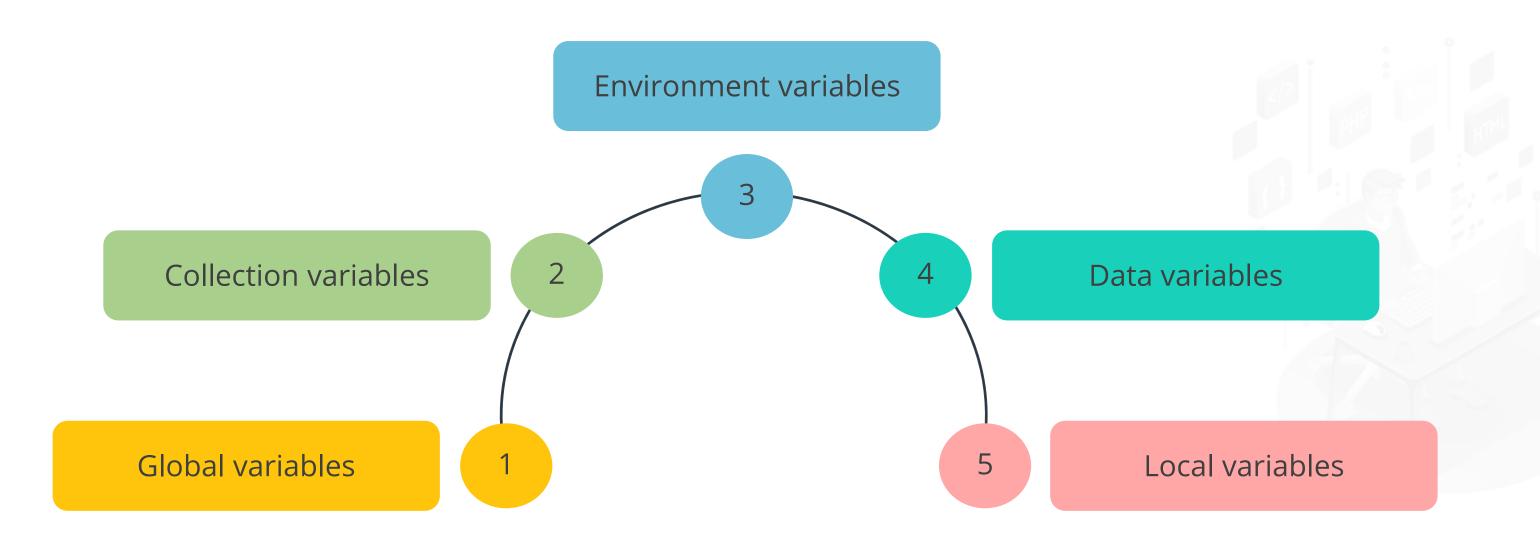
Variables at various scopes in Postman allow users to customize their processing to a range of tasks related to development, testing, and collaboration. Scopes in Postman relate to the different contexts in which their requests run.





### **Variable Scopes**

There are five types of variable scopes in Postman.



### **Variable Scopes: Global**

### **An Overview**

Users can retrieve data from different Collections, requests, test scripts, and settings using Global variables.

### **Features**

A Global variable of a workplace is accessible from anywhere in the workspace. Global variables are ideal for testing and prototyping because they have the largest reach in Postman.



### **Variable Scopes: Collection**

### **An Overview**

These are available throughout a Collection's request and are not affected by the Environment.

### **Features**

The Collection variables do not change depending on the Environment. These variables are the way to go if users are working in a single Environment.



### **Variable Scopes: Environment**

### **An Overview**

Users can scope their work to different contexts using Environment variables, such as local development versus testing or production. At any given time, only one Environment can be active.

### **Features**

Collection variables in a single
Environment can be more
economical. However,
Environments allow users to
establish role-based access
permissions.



### **Variable Scopes: Data**

### **An Overview**

These are defined by the external CSV and JSON files and used to define data sets that may be used by Newman or the Collection Runner when running Collections.

### **Features**

The data variables values are temporary and do not remain beyond request or Collection runs.



### **Variable Scopes: Local**

### **An Overview**

These are temporary variables that the request scripts can access.

Local variable values are only available for a single request, or Collections run and are gone once the run is over.

### **Features**

Users can use local variables if they require a value to override all other variable scopes but don't want the value to persist after execution.



## **How to Refer a Variable in Postman?** ©Simplilearn. All rights reserved.

### Referring a Variable in Postman

If users have the same URL in more than one request, but the URL can change later, they can keep the URL in a variable base URL and reference it in their requests using {{base url}}.

If the URL changes, the users can update the variable value, which will be updated wherever the variable name has been used in the Collection.

The same rule applies for any request, provided repetitive data is used. When the requests are executed, whatever value is kept in the variable will be present wherever it has been referred to.

Postman will send the request to the https://postman-echo.com/get link if the base URL value is set to the https://postman-echo.com link and specified in the request URL using the base URL/get.

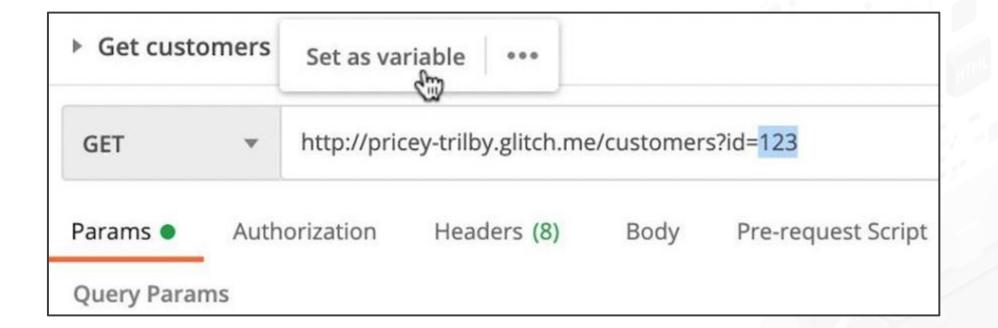


## **How to Get and Set a Variable in Postman?** ©Simplilearn. All rights reserved.

### **Get Variable in Postman**

### **Get Variable:**

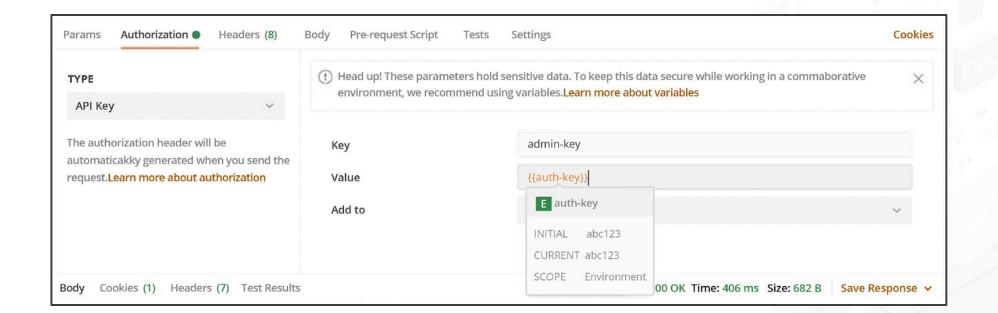
Users can get the current value of a variable in their scripts by using the object representing the scope level and the .get method.



### **Set Variable in Postman**

### **Set Variable:**

Users can set the values for the existing variables to the values from a request's response body.





### **Key Takeaways**

- Variables allow users to store and reuse values in Postman.
- Variables support users to work efficiently, connect with their teammates, and organize dynamic workflows.
- Postman allows variables at different scopes, which enables users to streamline their processing to several tasks related to development, testing, and collaboration.
- There are five types of variable scopes: global, Collection, Environment, data, and local.
- Users can get and set Variables at different scopes.

