

# SENDGRID INTEGRATION WITH PYTHON CODE

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## Steps For sendgrid Integration With Python Code

1. Sign up for a SendGrid account.
2. Enable Two-factor authentication.
3. Create and store a SendGrid API Key with Mail Send > Full Access permissions.
4. Complete Domain Authentication.
5. Install Python.

### Step 1 : Sign up for a SendGrid account.

```
1 | export SENDGRID_API_KEY=<Your API Key>
```

### Step 2 : Enable Two-Factor Authentication

```
1 | python --version
```

If you have Python installed, the terminal should print something like the following output.

```
1 | Python 3.8.5
```

## Step 3 : Create and Store a Sendgrid API Key

### Starting the project

Using a [Twilio SendGrid helper library](#) is the fastest way to deliver your first email.

Start by creating a project folder for this app. You can name the project anything you like. We use `sg_quickstart` in the following examples.

```
1 | mkdir sg_quickstart
```

Next, navigate into the `sg_quickstart` directory where you will complete the rest of the tutorial.

```
1 | cd sg_quickstart
```

## Step 4: Initialize Your Project

### Initialize your project

The [pip](#) package manager was included when you installed Python. You can use pip to install the Twilio SendGrid helper library and save it as a project dependency. If you want to verify that pip is installed, you can type the following into the terminal.

```
1 | pip --version
```

The terminal should print something like the following output.

```
1 | pip 20.1.1 from /usr/local/lib/python3.8/site-packages/pip (python 3.8)
```

## Step 5 : Install the Helper library

### Install the helper library

To install the Twilio SendGrid helper library, type the following command into the terminal.

```
1 | pip install sendgrid
```

The terminal should print something like.

```
1 | Collecting sendgrid
2 |   Using cached sendgrid-6.4.6-py3-none-any.whl (73 kB)
3 |   Requirement already satisfied: python-http-client>=3.2.1 in /usr/local/lib/python3
4 |   Requirement already satisfied: starkbank-ecdsa>=1.0.0 in /usr/local/lib/python3.8/
5 |   Installing collected packages: sendgrid
6 |   Successfully installed sendgrid-6.4.6
```

## Step 6 : SENDGRID INTEGRATION WITH PYTHON CODE

```
1 | import sendgrid
2 | import os
3 | from sendgrid.helpers.mail import Mail, Email, To, Content
4 |
5 | sg = sendgrid.SendGridAPIClient(api_key=os.environ.get('SENDGRID_API_KEY'))
6 | from_email = Email("test@example.com") # Change to your verified sender
7 | to_email = To("test@example.com") # Change to your recipient
8 | subject = "Sending with SendGrid is Fun"
9 | content = Content("text/plain", "and easy to do anywhere, even with Python")
10 | mail = Mail(from_email, to_email, subject, content)
11 |
12 | # Get a JSON-ready representation of the Mail object
13 | mail_json = mail.get()
14 |
15 | # Send an HTTP POST request to /mail/send
16 | response = sg.client.mail.send.post(request_body=mail_json)
17 | print(response.status_code)
18 | print(response.headers)
```

