

# **API Keys**

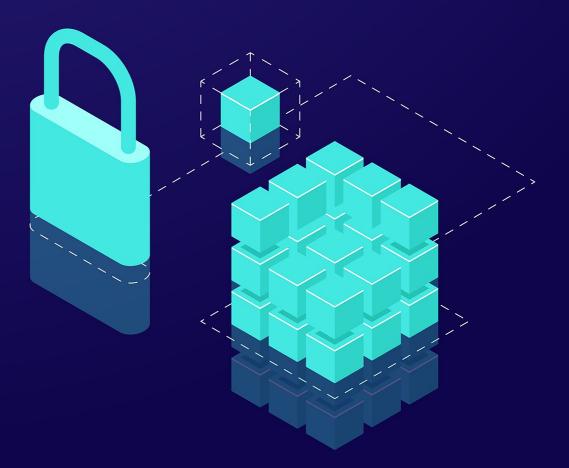
API keys are like keys to a house or car: they're used to get access to resources.

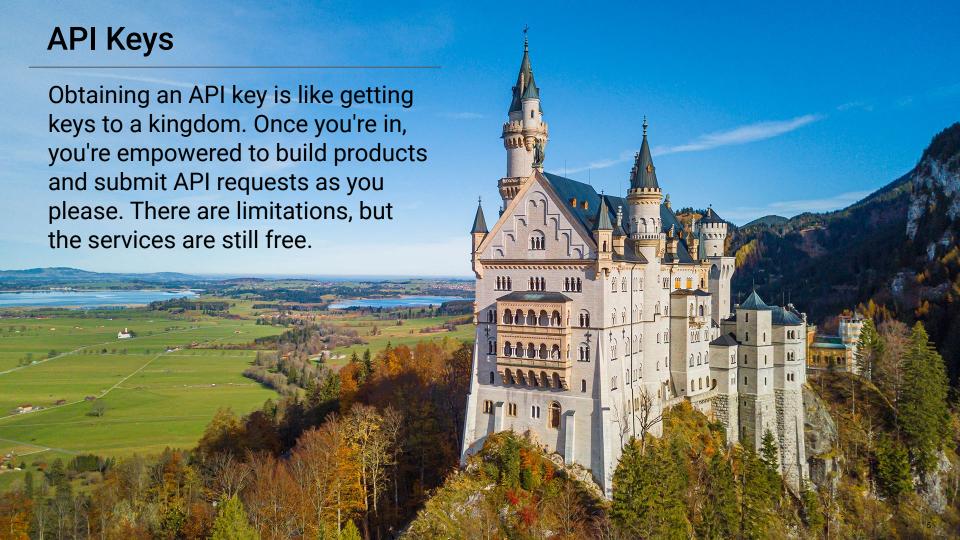
A key must be provided with every request for APIs that require keys.



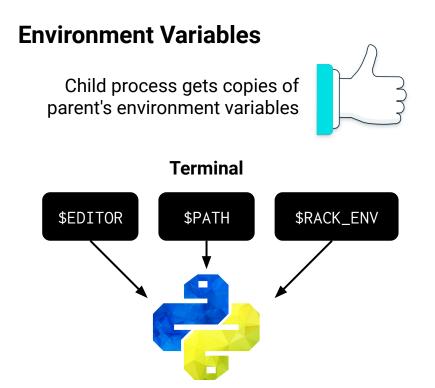
# **API Keys**

Companies use API keys as a means to secure data, as well as monitor traffic. Using keys in this manner allows companies to limit and block requests as needed.

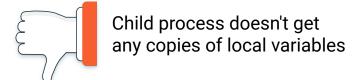




API keys are accessed when stored as environment variables.



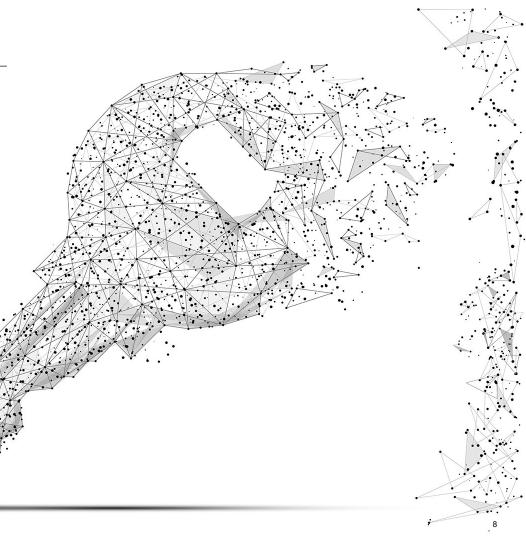
### **Local Variables**



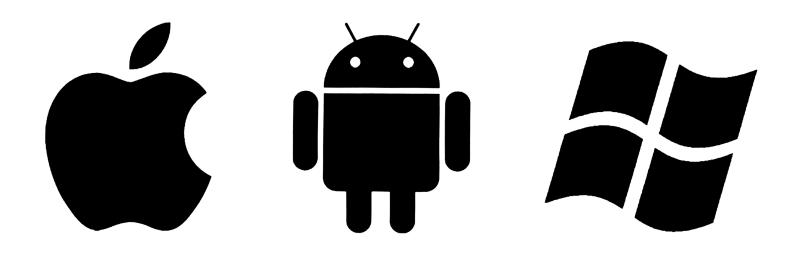


A keys.sh file can be used to put API keys into environment variables.

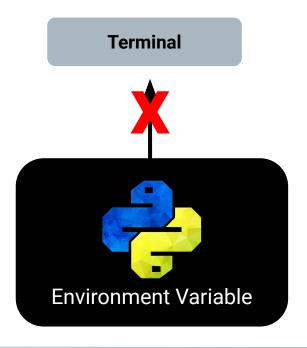
The keys.sh file would create the environment variable, and make it accessible by child processes.



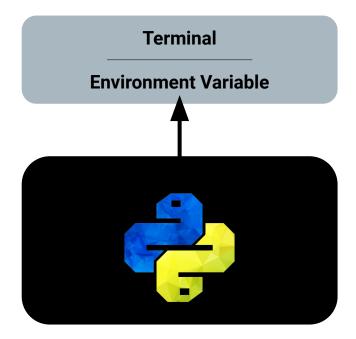
Because environment variables are at the operating system level, variables can be passed down from parent processes to child processes.



An environment variable created in Python cannot be accessed by a terminal



An environment variable created in a terminal can be accessed by Python.



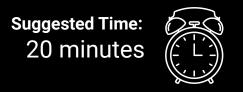
In order to make environment variables inheritable, they have to be exported and sourced.



Instructor Demonstration Calling Environment Variables



# Activity: Under Lock and Key



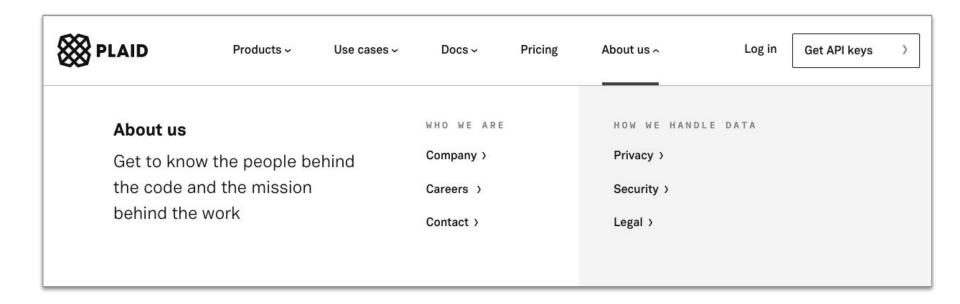


Time's Up! Let's Review.



### **SDKs**

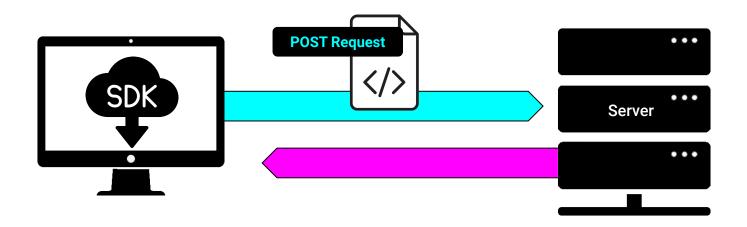
Some companies, like Plaid, offer Software Development Kits as a mean to submit requests to their APIs.



plaid.com 16

### **SDKs**

SDKs work in the same fashion as the Python requests library: they provide functions to submit GET and POST API requests.



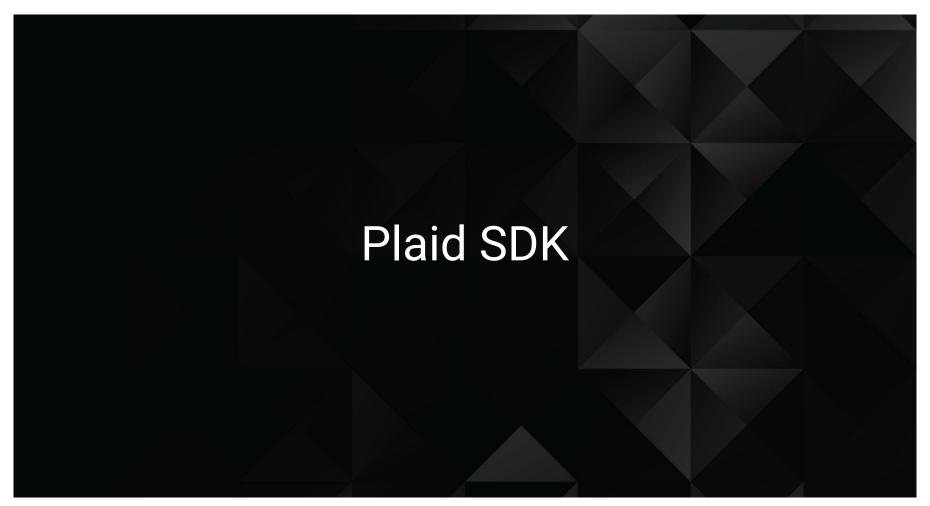
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### **SDKs**

In addition to the generic GET and POST functions though, SDKs offer functions that are specific to their services/API. For example, the Plaid SDK lets you execute a function that returns bank transactions.

```
response = client.Transactions.get(
    access_token,
    start_date="2018-01-01",
    end_date="2018-02-01"
transactions = response["transactions"]
```





### Plaid SDK

Plaid, an API that unifies financial information across bank accounts and offers a platform for data extraction and analysis, comes with a Python SDK called plaid-python that streamlines financial analysis.

The SDK can be downloaded using pip-install. Pip install plaid-python



### Plaid SDK

Plaid is an API made by developers for developers.

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Plaid is democratizing financial analysis

02

Plaid allows developers to create applications that provide consumers with access to FinTech tools.

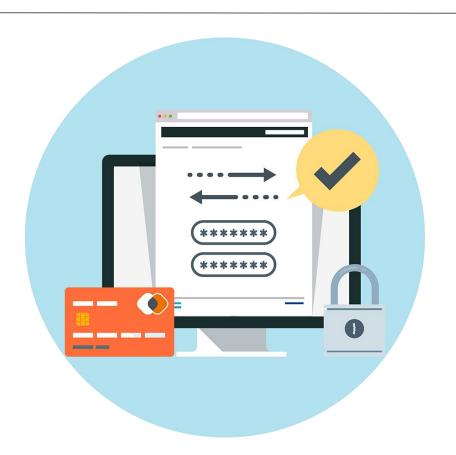
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The Plaid SDK is intended to give developers access to financial functions and data that have up until now been mostly reserved only for financial advisors.

### **Plaid SDK**

### The Plaid API allows users to:

- Connect multiple bank accounts to Plaid platform
- Get account balances
- Extract data from Plaid at the institution and account level
- Create an asset report





Instructor Demonstration
Plaid Demo



# **Activity:** Sporting Plaid Part 1





# Challenge: Sporting Plaid Part 2

Suggested Time: 25 minutes



Time's Up! Let's Review.

