# **Jupyter Notebook - Missing Library**

CSI 4106 - Fall 2025

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## Learning objective

• Illustrate the process of identifying and resolving missing library issues in Google Colab.

Important

This example is meant to be executed in Google Colab.

### **Import**

In this notebook, we use the language of given text samples.

First, let's import langdetect.

from langdetect import detect

Executing the code cell above will result in an error, as the langdetect library is not installed by default in Google Colab.

ModuleNotFoundError Traceback (most recent call last)

/tmp/ipython-input-193950075.py in <cell line: 0>()

---> 1 from langdetect import detect

ModuleNotFoundError: No module named 'langdetect'

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NOTE: If your import is failing due to a missing package, you can manually install dependencies using either !pip or !apt.

To view examples of installing some common dependencies, click the "Open Examples" button below.

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This issue can be resolved by adding the following line of code before the first import statement. Try it!

```
! pip install langdetect
```

Once this issue has been solved, we can call detect. Try it!

```
detect("Bonjour tout le monde!")
```

#### **Best Practice**

You could have predicted this scenario. If the langdetect library is not installed, captured the resulting exception, and proceeded to install the library.

```
from langdetect import detect
except ImportError:
   print("langdetect not found, installing...")
   import sys
   ! pip install langdetect
   from langdetect import detect # retry after install
```

## **Exploration**

- ! allows to run Unix/Linux shell commands in IPython. Create a code cell and try these commands.
  - ! uname -a displays information about the system.
  - ! 1s displays the content of the current directory.
  - ! ls / displays the content of the root directory.
  - ! pwd returns working directory name.

These commands are useful for debugging code, as they provide information about the computing environment, such as the operating system version and the contents of the local directory.