**Documentation for Scraping an eCommerce website and visualizing it:**

1. Purpose:

This script is designed to scrape book information from the website '<https://books.toscrape.com/>', process the data, and visualize the price distribution of the books.

2. Dependencies:

* **pandas**: A Python library for data manipulation and analysis.
* **requests**: A Python library for making HTTP requests.
* **BeautifulSoup**: A Python library for web scraping.
* **seaborn**: A statistical data visualization library based on Matplotlib.
* **matplotlib**: A plotting library for Python.

3. Web Scraping:

The code begins by sending an HTTP GET request to the target URL, then it parses the HTML content of the response using BeautifulSoup. It then proceeds to extract product information such as name, price, and availability from the HTML.

4. Data Processing:

The extracted information is stored in a list of dictionaries (**product\_list**). This list is then used to create a Pandas DataFrame (**df**), facilitating data manipulation and analysis.

5. Data Cleaning:

The 'price' column in the DataFrame is cleaned by extracting the numerical values and converting them to float for numerical analysis.

6. Data Visualization:

The price distribution of the books is visualized using a histogram plot generated with Seaborn and Matplotlib. This plot shows the frequency (y-axis) of books within specific price ranges (x-axis).

7. Optional Data Export:

There's an optional line of code provided to save the DataFrame as a CSV file.

8. Running the Code:

Ensure all required libraries are installed, then run the script in a Python environment with internet access to fetch data from the provided URL.

9. Output:

The script generates a histogram plot displaying the price distribution of the books from the specified website.