



# Python Discord Bot

DAY 08







Learn about API

# Contents

Exercise 01: \$ip	3
Exercise 02: \$iploc	5
Exercise 03: \$quote	6



## Exercise 01: \$ip

	Difficulty:	★ ★
	Objectives:	Create the command \$ip which returns your Bot's unique IP address.
	Skills required:	<ul style="list-style-type: none"><li>➤ Sending HTTP requests</li><li>➤ Consuming a RESTful API</li><li>➤ Parsing JSON</li></ul>
	Resources:	<ul style="list-style-type: none"><li>➤ <a href="#">GET IPv4 Address</a></li><li>➤ <a href="#">Requests - JSON Response Content</a></li><li>➤ <a href="#">Requests - Response Status Codes</a></li></ul>
	Search keywords:	<ul style="list-style-type: none"><li>➤ Requests</li><li>➤ Json</li><li>➤ API</li><li>➤ Python</li></ul>
	Command required:	<b>\$ip</b>



#### Code snippet:

```
import requests

def ip():
    url = <your-url-here>
    r = requests.get(url, timeout=10)

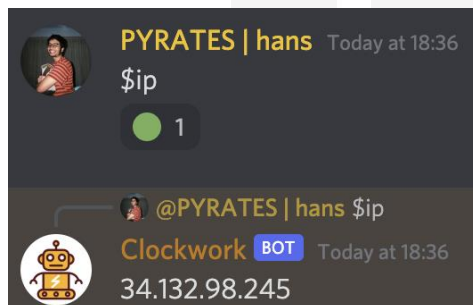
    if r.status_code != requests.codes.ok:
        r.raise_for_status()

    data = r.json()







    return data.get(<json-key>)
```



#### Output example:



## Exercise 02: \$iploc

	Difficulty:	★ ★ ★
	Objectives:	Create the command \$iploc which returns the geographical location to your Bot's unique IP address.
	Skills required:	<ul style="list-style-type: none"> <li>➤ String interpolation</li> <li>➤ IP geolocation</li> </ul>
	Resources:	<ul style="list-style-type: none"> <li>➤ <a href="https://ipinfo.io/&lt;your-ip-address&gt;/geo">https://ipinfo.io/&lt;your-ip-address&gt;/geo</a> *Replace IP address with your Bot's unique IP address.</li> <li>➤ <a href="#">Requests - JSON Response Content</a></li> <li>➤ <a href="#">Requests - Response Status Codes</a></li> </ul>
	Search keywords:	<ul style="list-style-type: none"> <li>➤ Requests</li> <li>➤ Json</li> <li>➤ API</li> <li>➤ Python</li> </ul>
	Command required:	<b>\$iploc</b>

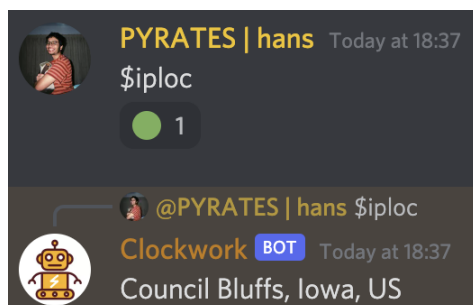


**Code snippet:**







```
import requests
```



**Output example:**



## Exercise 03: \$quote

	Difficulty:	★ ★ ★
	Objectives:	Create the command \$quote which returns a random quote.
	Skills required:	<ul style="list-style-type: none"> <li>➤ Sending HTTP requests</li> <li>➤ Consuming a RESTful API</li> <li>➤ Parsing JSON</li> <li>➤ Reading API documentation</li> </ul>
	Resources:	<ul style="list-style-type: none"> <li>➤ <a href="#">Zen Quotes API</a></li> <li>➤ <a href="#">Requests - JSON Response Content</a></li> <li>➤ <a href="#">Requests - Response Status Codes</a></li> </ul>
	Search keywords:	<ul style="list-style-type: none"> <li>➤ Requests</li> <li>➤ Json</li> <li>➤ API</li> <li>➤ Python</li> </ul>
	Command required:	<b>\$quote</b>



**Code snippet:**

```
import requests
```



**Output example:**

