

Bots Mastery: Getting Started with Bot Development (Python)



About Me

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Python and Golang Developer

Technical Writer

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A central white robot with a blue screen on its chest is surrounded by various communication-related icons. These include speech bubbles with ellipses, a megaphone, question marks, and a blue envelope icon. The entire scene is set against a light blue circular background.

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Some Facts About Bots



61%

of consumers feel that having Chatbots in customer service is the way of the future.



NEARLY 50%

of consumers already engage in automated conversations with Chatbots.

Chatbots currently account for business cost savings of

\$20 MILLION GLOBALLY

But are expected to trim business costs by more than

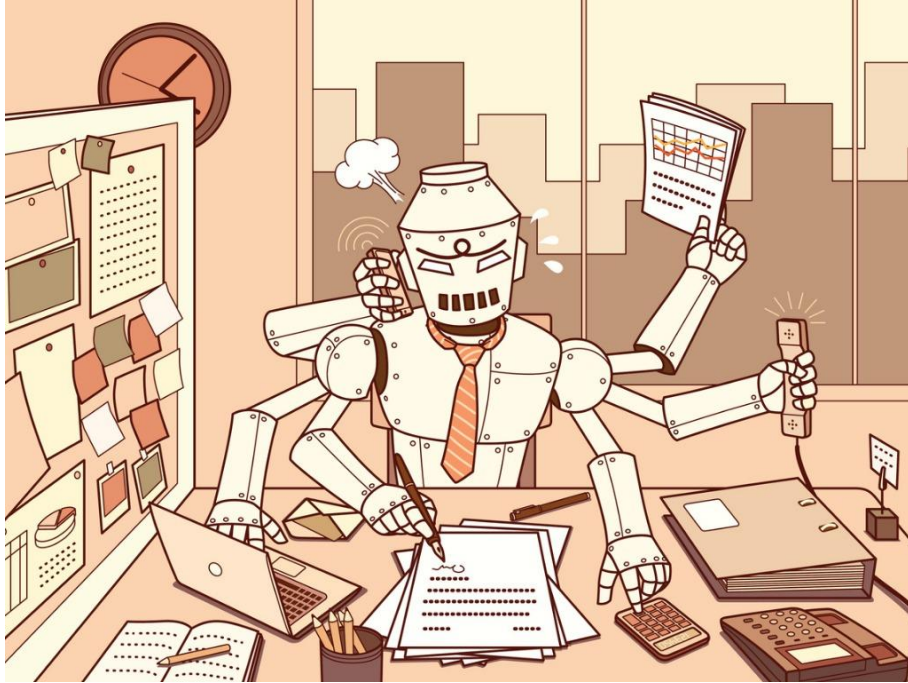
\$8 BILLION PER YEAR BY 2022

That's an increase of

40,000% IN JUST 4 YEARS!

Bots Drive Almost 40% of Internet Traffic

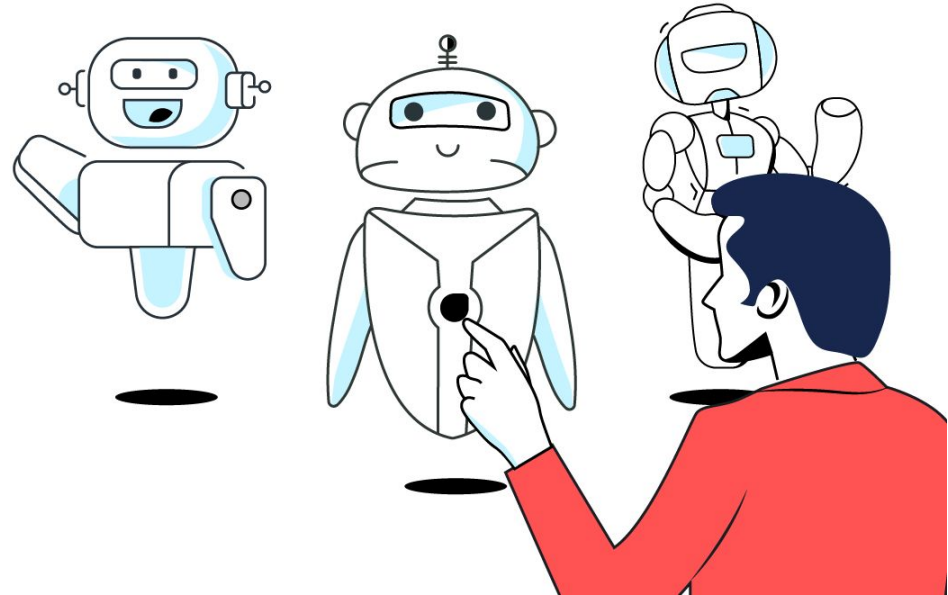
What Can Bots Do?



- **Serve as customer support to resolve user queries.**
- **Scrape the web for information.**
- **Act as virtual assistants.**
- **Healthcare aid in diagnosing ailments.**
- **Book reservations.**
- **Serve as sources of entertainment.**
- **Automate our daily routines.**
- **Help monitor activities.**
- **Scan for vulnerabilities and carry out DDOS attacks.**

Categories of Bots

- Chat Bots
- Web Scrapers & Crawlers
- Social Media Bots
- Informational Bots
- Entertainment Bots
- Virtual Assistants
- Spam Bots
- Malicious Bots



How are Bots Created?

- Python
- Golang
- Java
- JavaScript
- Ruby
- Clojure



Exercise One: Write a Bot to Generate Dog Images

```
import webbrowser
import requests

def generate_dog_image():
    r = requests.get("https://random.dog/woof.json")
    if r.status_code == 200:
        image_url = r.json()["url"]
        return image_url
    else:
        return "an error occured while generating dog image!"

if __name__ == "__main__":
    dog_image = generate_dog_image()
    webbrowser.open(dog_image)
```


Exercise Two: Write a Bot to Fetch Crypto Prices

```
import requests

def fetch_crypto_price(ticker):
    ticker = ticker.upper()
    r = requests.get(
        f"https://min-api.cryptocompare.com/data/price?fsym={ticker}&tsyms=USD")
    if r.status_code == 200:
        response = r.json()
        if response.get("Response") == "Error":
            return "the specified ticker does not exist!"
        else:
            return f"1 {ticker} ~ ${response['USD']:,}"
    else:
        return "an error occured while fetching price info!"

if __name__ == "__main__":
    while True:
        ticker = input("Enter a ticker: ")
        print(fetch_crypto_price(ticker), "\n")
```

Exercise Three: Write a Word Meaning Finder Bot

```
import requests
from bs4 import BeautifulSoup

def find_word_meaning(word):
    r = requests.get(f"https://www.dictionary.com/browse/{word}")
    if r.status_code == 200:
        page = BeautifulSoup(r.text, "html.parser")
        luna_pos = page.find("span", {"class": "luna-pos"}).text
        word_meaning = f"{word} - {luna_pos}\n\n"
        meanings = page.find(
            "div", {"class": "css-1uqerbd e1hk9ate0"}).find_all("div",
            {"class": "e1q3nk1v2"})
        for i, meaning in enumerate(meanings):
            word_meaning += f"{i + 1} - {meaning.find('span').text}\n\n"
        return word_meaning.strip()
    elif r.status_code == 404:
        return "the specified word does not exist!"
    else:
        return "an error ocured while finding word meaning!"

if __name__ == "__main__":
    print(find_word_meaning("intense"))
```

Live Coding Session: Let's Build a Telegram Bot



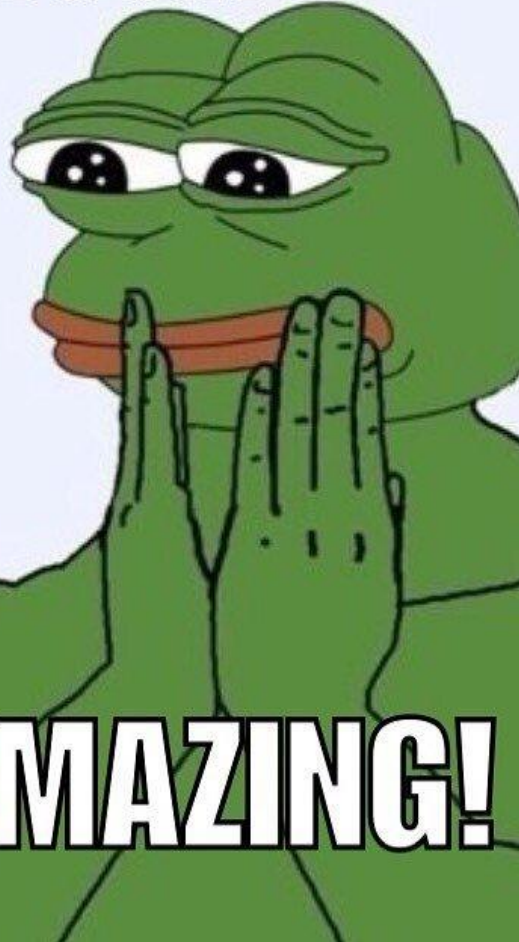
Social Media Bot Platforms

- [Telegram](#)
- [Slack](#)
- [Discord](#)
- [Twitter](#)
- [Facebook Messenger](#)
- [Reddit](#)

Learning Resources

- <https://github.com/LordGhostX/ECXBotsMastery>
- <https://github.com/python-telegram-bot/python-telegram-bot>
- <https://www.section.io/engineering-education/cryptocurrency-tracking-telegram-bot/>
- <https://github.com/public-apis/public-apis>

THANK YOU...



YOU'RE AMAZING!

Link to Slides:

<https://bit.ly/ECXBotsMastery>

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