

# Maubot Workshop

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Beeper

# Follow along!

Slides are available here



<https://bit.ly/3PhqMk4>

# What is Maubot?

Maubot is a **plugin-based** Matrix bot system built on top of the **Mautrix** library. Both libraries were created by Tulir (one of my coworkers).

Because it's plugin-based, you run a single maubot instance, and then use an *admin panel* to upload and instantiate plugins.

It is built on top of mautrix-python, which is a powerful Python Matrix library that underpins all of the mautrix bridges including the Telegram, Facebook, and Instagram bridges.

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I have set up a maubot instance here:

`https://matrixbotworkshop.com/\_matrix/maubot/`

Username: `demo`

Password: `matrixiscool`

# General bot-writing workflow

## Documentation:

<https://docs.mau.fi/maubot/dev/getting-started.html>

**Install maubot** on your local machine:

```
pip3 install --user maubot
```

## Writing your bot:

- Run `mbc init` for interactive plugin creation.
- Run `mbc login` to connect to the maubot instance.
- After you write your code, upload it to the server with:  
`mbc build --upload`
- Create a user for a client:  
`mbc auth --register --homeserver  
matrixbotworkshop.com --server argon`
- Create a client and instance on the Maubot Manager.

# Example: Echobot



# Example: Firefighter bot

**Now it's your turn!** I recommend you start with something small (an existing bot for example), then build up from there.

- Try writing a cooler echobot or a better reaction bot.
- A bot that sends back ASCII-art of the given word or phrase.
- A bot that applies a filter to images sent in a room.
- A 20 questions bot.
- A dice roll bot
- Welcome bot that says hi to new users.
- Upvote/downvote tracker bot that tracks the number of thumbs up and thumbs down emojis that each user gets.
- Any other ideas?