

COMP140: Creative Computing — Hacking **Twitter bots**







Account set up

- ▶ Go to https://www.twitter.com and either
 - Create an account, or
 - Sign in to your existing account
- NB: Twitter requires app developers to add a mobile phone number to their accounts (don't ask me why...)

Application set up

- ► Go to https://apps.twitter.com
- Click on Create New App
- Fill in the required details and agree to the license agreement

Project set up

- Open PyCharm and create a new project
- ▶ Go to File \rightarrow Settings \rightarrow Project \rightarrow Project Interpreter
- Click the + button next to the list of packages
- Search for and install the tweepy package

Your first bot

► Enter the following code, but don't run it yet

```
import tweepy
CONSUMER_KEY = '...'
CONSUMER SECRET = '...'
ACCESS KEY = '...'
ACCESS_SECRET = '...'
auth = tweepy.OAuthHandler(CONSUMER_KEY, ←
   CONSUMER SECRET)
auth.set_access_token(ACCESS_KEY, ACCESS_SECRET)
api = tweepy.API(auth)
api.update_status("Hello, world!")
```

Adding your API keys

- ► Go to https://apps.twitter.com and click on your app
- Click on Keys and Access Tokens
- Copy and paste the Consumer Key and Consumer Secret into the code, replacing the . . .
 - Do this carefully ensure there are no extraneous spaces or other characters between the / quotes
- Click on Create my access token
- Copy and paste the Access Token and Access Token Secret into the code, replacing the . . .

API keys: best practices

- Many web APIs require an API key
- This is like a password and should be kept secret
- Code in a world-readable GitHub repository is not secret!
- Easy solution: put your API keys in a separate source / header / configuration file, and use .gitignore to keep that file out of the repository
 - ► NB: For assignment submissions via LearningSpace, please do include your API keys so that we can test your code!
- ► Other solutions: http: //programmers.stackexchange.com/q/205606

Fin

- Run the code
- Open the twitter app or website and admire your bot's first tweet!
- You now know how to tweet any text string integrate this into your Python code as you see fit
- Refer to the docs on http://www.tweepy.org for how to do more interesting things, e.g. reading and replying to other people's tweets

Further reading

- ➤ Twitter, "Automation rules and best practices".

 https://support.twitter.com/articles/76915
- ► Darius Kazemi, "Basic Twitter bot etiquette". http://tinysubversions.com/2013/03/basic-twitter-bot-etiquette/