

# Chat Bots

TODO something cute vaguely related to chat bots

# Telegram Is Not Secure But it's Awesome for Writing Chat Bots

- Telegram is an instant message service
- It has desktop and mobile clients
- Uses a non-standard encryption protocol MTProto

- Talk with the @BotFather
- Register / commands



# The Botfather



python-telegram-bot.org

```
from telegram.ext import Updater, CommandHandler

def start(bot, update):
    bot.sendMessage(update.message.chat_id, text='Hello World!')

def hello(bot, update):
    bot.sendMessage(update.message.chat_id,
                    text='Hello {}'.format(update.message.from_user.first_name))

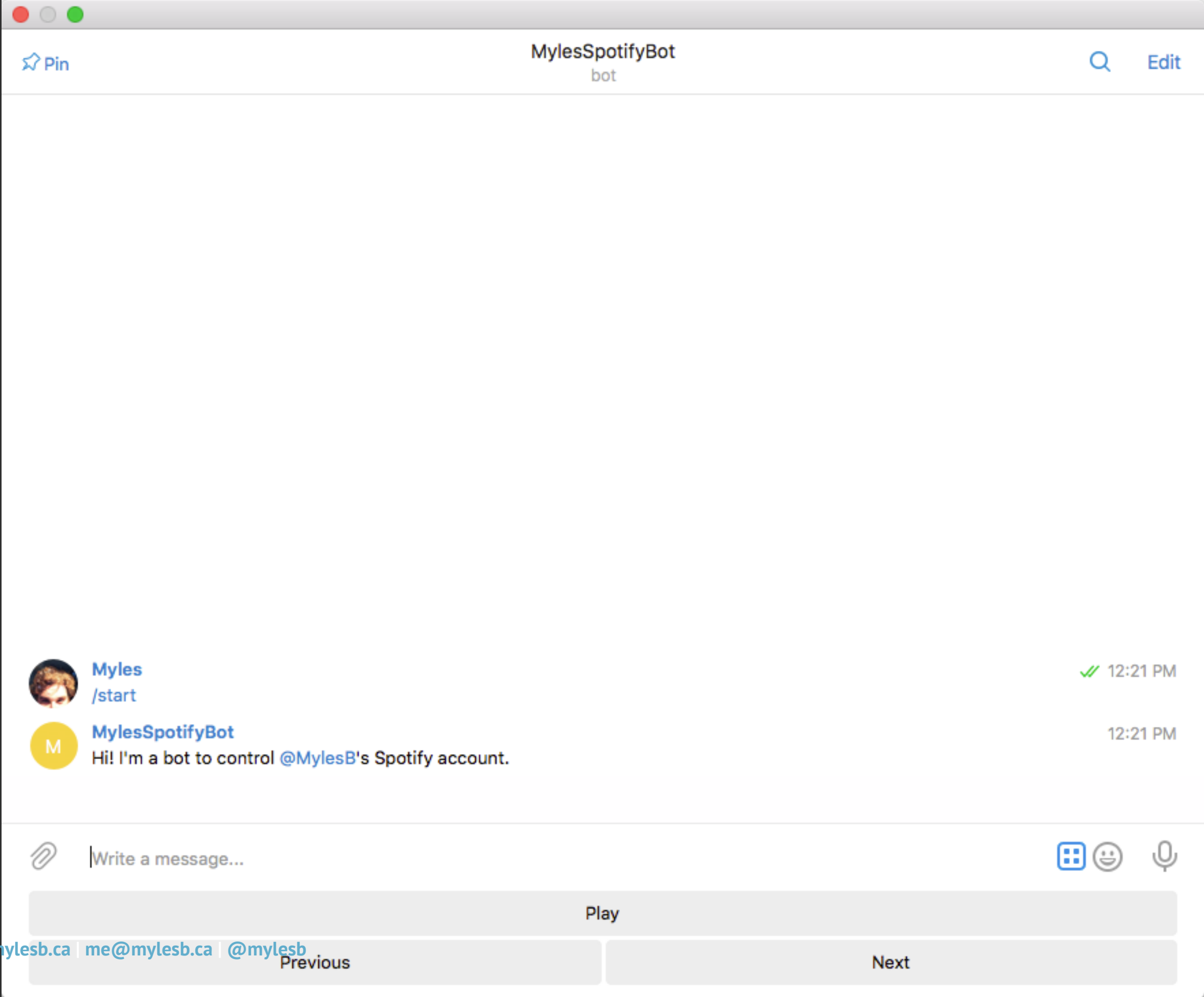
updater = Updater('YOUR TOKEN HERE')

updater.dispatcher.add_handler(CommandHandler('start', start))
updater.dispatcher.add_handler(CommandHandler('hello', hello))

updater.start_polling()
updater.idle()
```

# Let's Control *Spotify* with Telegram

<https://github.com/myles/telegram-spotify-bot>






```
def command_start(self, bot, update):  
    msg = ("Hi! I'm a bot to control @MylesB's"  
          "Spotify account.")  
  
    self.send_message(bot, update, msg)
```

☆ Pin

MylesSpotifyBot  
bot

🔍 Edit




Myles

/start

✓✓


12:21 PM



MylesSpotifyBot

12:21 PM

Hi! I'm a bot to control @MylesB's Spotify account.




Myles

/status

✓✓


12:22 PM






MylesSpotifyBot

12:22 PM

Spotify is paused  
**Swizz Beatz** by Young Thug from JEFFERY.

Write a message...



Play

Previous

Next

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```
def command_status(self, bot, update):
    # Check to see if Spotify is currently running.
    if not self.control.is_running():
        return self.send_message(bot, update, 'Spotify is not running.')

    # Get the current Player State and Track
    player_state = self.control.player_state()
    current_track = self.control.current_track()

    if player_state == 'stopped':
        return self.send_message(bot, update, 'Spotify is stopped.')

    msg_line_one = 'Spotify is {0}\n'.format(player_state)
    msg_line_two = ('*{name}* by {artist} from '
                    '{album}').format(**current_track)
```

Swizz Beatz by Young Thug from JEFFERY.



Myles

Pause

✓ 12:22 PM



MylesSpotifyBot

Spotify is paused

Swizz Beatz by Young Thug from JEFFERY.

12:23 PM



Write a message...



Play

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```
def send_message(self, bot, update, msg, disable_link_preview=True,
                 **kwargs):
    return bot.sendMessage(update.message.chat_id, msg,
                           reply_markup=ReplyKeyboardMarkup(self.keyboard),
                           resize_keyboard=True,
                           parse_mode=ParseMode.MARKDOWN,
                           disable_web_page_preview=disable_link_preview,
                           **kwargs)
```

< Chats

Connecting...



Spotify is playing  
Angels (feat. Saba) by Chance  
The Rapper from Angels (feat.  
Saba).  
12:24 PM

Pause 12:24 PM ✓✓

Spotify is paused  
Angels (feat. Saba) by Chance  
The Rapper from Angels (feat.  
Saba).  
12:24 PM



Play

Previous

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```
@property
def keyboard(self):
    if self.control.player_state() == 'playing':
        play_pause_button = KeyboardButton('Pause')
    else:
        play_pause_button = KeyboardButton('Play')

    return [[play_pause_button],
            [KeyboardButton('Previous'), KeyboardButton('Next')]]
```



Pin

MylesSpotifyBot  
bot

Edit

M

MylesSpotifyBot

Spotify is paused  
Angels (feat. Saba) by Chance The Rapper from Angels (feat. Saba).

4:04 PM

Myles

/search windowshades

/search window shades

✓✓

4:05 PM

M

MylesSpotifyBot

Window Shades by U.S. Girls [/play](#) spotify:track:78xKlqAi5F3syCVEyZoqvO

Window Shades by U.S. Girls [/play](#) spotify:track:31xG9jGaVkiBoQpmFMpOO0

At the Window - Cinematic Shades Edit by Booka Shade [/play](#) spotify:track:4P6HirfEb0KF24HB5jG44e

Window Shades by Adi Goldstein [/play](#) spotify:track:5KAwst9rRrlyX5sxqVxo75

Come To The Window by Shades Of Gray [/play](#) spotify:track:0YFnx692uSY5tl517azq1G

Pass My Shades by D.B. [/play](#) spotify:track:4ewl3SO7ZzFsYQdrlgF6pY

Pass My Shades by D.B. [/play](#) spotify:track:7IPSGoqtP9LPht3kNNHKJ4

Opened Window in the City of Fools by Joe from Sicilia [/play](#) spotify:track:2Stp9n3HixCDtp16lzl5IN

Through the Window by Blacklight [/play](#) spotify:track:4ozUlrkcPklsUtlceKgJS6

Open Window by Clifford Eric Haywood [/play](#) spotify:track:0p32P039ruzFCGSI9YGy3B

4:05 PM

4:05 PM

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4:05 PM

4:05 PM

Write a message...

Play

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```
def command_search(self, bot, update, args):
    results = self.spotify.search(q=' '.join(args))

    msgs = []

    result_msg = '*{0}* by {1} /play {2}'

    for r in results['tracks']['items']:
        msgs.append(result_msg.format(r['name'], r['artists'][0]['name'],
                                     r['uri']))

    self.send_messages(bot, update, msgs)
```

Presentation: <https://github.com/myles/2016-09-21-chat-bots>

Telegram SpotifyBot: <https://github.com/myles/telegram-spotify-bot>

# Questions