ChatOps:
Getting started with Errbot!
Overview

- ChatOps
- Setup
- Extend it
- Social aspect
Chat + DevOps
w00t! let's roll!

Build #423 started...

This is getting exciting! The press release is ready.

Build #423 finished. Triggering tests on image avengers-v2-423.

avengers-v2-423: all tests are green.
This is a big change and we will roll it out progressively.

!deploy avengers-v2-423 split 5% us-west-3

Deploying avengers-v2-423 needs !approve 629 from gbin@, ifigotin@ or zoni@.

!approve 629

avengers-v2-423 ready on preprod.  
http://preprod.avengers.com

LGTM!
Setup
Chat system
$ mkvirtualenv -p `which python3` errbotenv
(errbotenv) $ pip install errbot
[...]
BACKEND = 'Slack'

BOT_IDENTITY = {
    'token': 'xoxb-5537834321-aFM7ay7GXrnF8ar3Pk1nmbET',
}

BOT_ADMINS = ('@gbin', '@zoni')
Manage your bot by talking!

!repos install errbotio/err-codebot

Installing errbotio/err-codebot...
Extend it
Core

User plugins

Storage plugins

Backends

Architecture
User Plugins
Simple user plugin

```
from errbot import botcmd, BotPlugin

class SimonSays(BotPlugin):
    @botcmd
    def make(self, msg, args):
        return "NO! I won't make you %s." % args
```

```
[Core]
Name = Simon
Module = simon.py
```
Simple user plugin

What will it do?

!make a sandwich

No I won't make you a sandwich.
from errbot import botcmd, BotPlugin

class SimonSays(BotPlugin):
    """Simon says commands."""
    @botcmd
def make(self, msg, args):
        """Ask me to do something."""
        return "NO! I won't make you %s." % args
Auto-documented

Simon

Simon says commands.

- !make ask me to do something.
Tons of features

- Markdown
- Templates
- Subcommands
- Arg Parsing
- Matching
- Storage
- Callbacks
- Webhooks
- Filters
- Flows
Simple parsing

```python
@botcmd(split_args_with="","")
def command(self, msg, args):
    !make one, two

    args == ('one', 'two')
```
@arg_botcmd('first_name', type=str)
@arg_botcmd('--last-name', dest='last_name', type='str')
@arg_botcmd('-f', '--favorite', dest='favorite_number', type=int, default=42)
def hello(self, msg, first_name=None, last_name=None, favorite_number=None):

!hello John -f 42 --last-name Doe

first_name == 'John'
last_name == 'Doe'
favorite_number == 42
Regexp Matching

Simple matching

@botmatch(r'^cookie (.*)$')
def cookie_finder(self, msg, match):
  cookie monster
  match.group(1) == 'monster'
```python
@botcmd
def go(self, msg, args):
    yield "Processing 10% done..."
    yield "Processing 20% done..."
```

```
!go
Processing: 10% done...
Processing: 20% done...
```
@webhook
def echo(self, incoming_request):
    """
    Will setup a webhook on /echo
    """
def callback_message(self, msg):
    [...]

def callback_presence(self, presence):
    [...]

def callback_mention(self, msg, people):
    [...]

Conversational Flows

!tryme

!guess

predicate

END
@botflow
def guess(self, flow: FlowRoot):
    """ This is a flow that can set a guessing game."""
    game_created = flow.connect('tryme', auto_trigger=True)
    one_guess = game_created.connect('guessing')
    one_guess.connect(one_guess)  # loop on itself
    one_guess.connect(FLOW_END, predicate=lambda ctx: ctx['ended'])
Social aspect
Team & Social aspect

Keep it fun!

!facepalm
Make it your own!

Python is for everyone!

![Image of a person flying with the text: "YOU'RE FLYING! HOW?"]
More info

http://errbot.io

https://gitter.im/errbotio/errbot

Special thanks to:

Google
@ifigotin
@seriesoftubes
@dufton

zoni
sijiis
diit

... and all the community!
Graveyard
@botcmd(admin_only=True)
def sudo_make(self, msg, args):
    return "OK!"
What will it do?

!sudo make a sandwich

OK!
@cmdfilter
def otpfilter(self, msg, cmd, args, dry_run):
    if [...]:
        self.send(msg.frm, "Access denied !")
        return None, None, None
    return msg, cmd, args
@botcmd
def command(self, msg, args):
    self['key'] = 'value'
    return self['other_key']
Existing Plugins

300+ public plugins