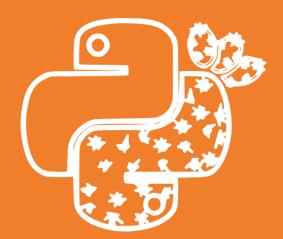


ChatOps:Getting started with Errbot!



Guillaume Binet • 2016.05.03

Overview

- ChatOps
- Setup
- Extend it
- Social aspect

Chat + DevOps



gbin/err/warroom a



Q Search... **PEOPLE**

We haven't seen by activity yet. Configure your ir egrations →

ACTIVITY



ok, I just pushed the latest touches on branch avengers-v2 w00t! let's roll!



!build avengers-v2



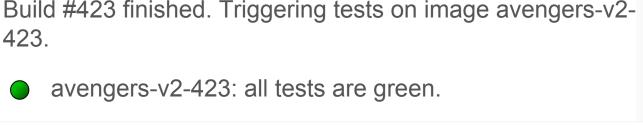
Build #423 started... This is getting exciting! The press release is ready.



423.



avengers-v2-423: all tests are green.

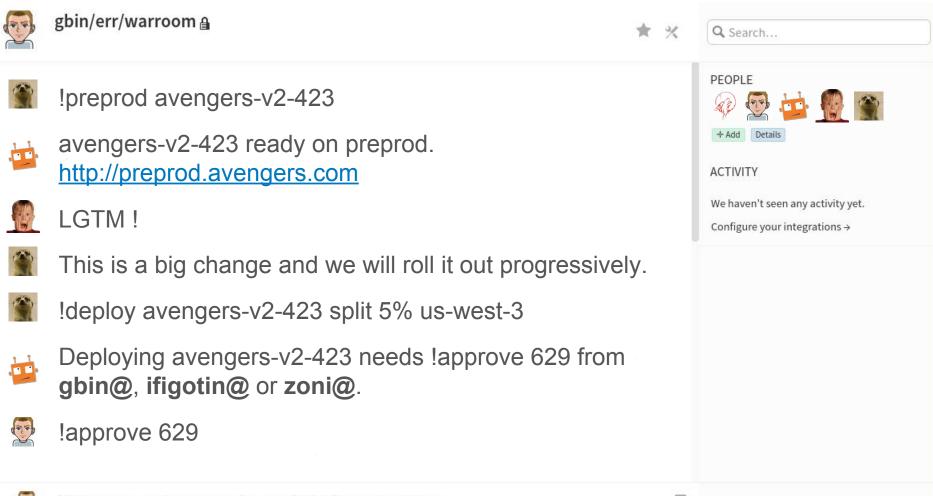














Gitter Support

Chat system













```
$ mkvirtualenv -p `which python3` errbotenv
(errbotenv) $ pip install errbot
[...]
```

config.py

```
BACKEND = 'Slack'

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

BOT_ADMINS = ('@gbin', '@zoni')
```

Manage your bot by talking!



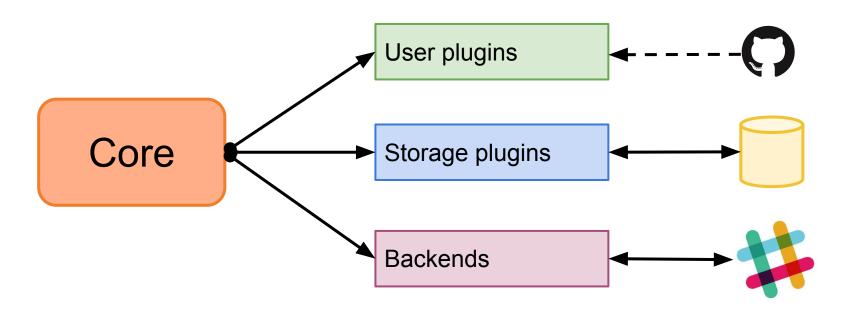
!repos install errbotio/err-codebot



Installing errbotio/err-codebot...

Extend it

Architecture



User Plugins

Simple user plugin

simon.plug

```
[Core]
Name = Simon
Module = simon.py
```

simon.py

```
from errbot import botcmd, BotPlugin

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

Simple user plugin

What will it do?





No I won't make you a sandwich.



Documentation

simon.py

```
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
```

Documentation

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

Args Parsing

Simple parsing

```
@botcmd(split_args_with=",")
def command(self, msg, args):
```

!make one, two

```
args == ('one', 'two')
```

Args Parsing

```
@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):
```



```
match.group(1) == 'monster'
```

Yield

```
@botcmd
def go(self, msg, args):
   yield "Processing 10% done..."
  yield "Processing 20% done..."
```



!go



Processing: 10% done...



Processing: 20% done...



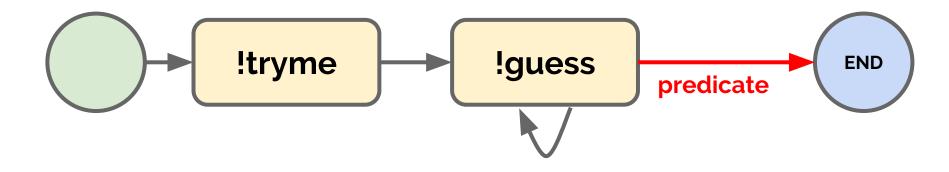
Webhooks

```
@webhook
def echo(self, incoming_request):
    """
    Will setup a webhook on /echo
    """
```

Callbacks

```
def callback message(self, msg):
def callback presence(self, presence):
def callback mention(self, msg, people):
```

Conversational Flows



Conversational Flow

```
@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!

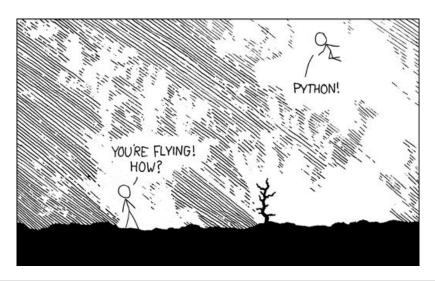
!facepalm



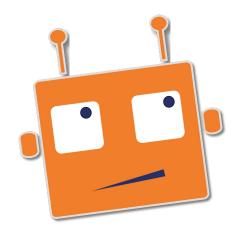


Make it your own!

Python is for everyone!



More info



Special thanks to:



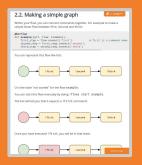
@ifigotin

@seriesoftubes

@dufton



http://errbot.io



https://gitter.im/errbotio/errbot



Graveyard

Args Parsing

Subcommands

```
@botcmd(admin_only=True)
def sudo_make(self, msg, args):
    return "OK!"
```

Args Parsing

What will it do?



!sudo make a sandwich



Command Filters

Implement custom security

```
@cmdfilter
def otpfilter(self, msg, cmd, args, dry_run):
    if [...]:
        self.send(msg.frm, "Access denied !")
        return None, None, None
    return msg, cmd, args
```

Storage

```
@botcmd
def command(self, msg, args):
    self['key'] = 'value'
    return self['other_key']
```

Existing Plugins

300+ public plugins

