

Ops in the age of Chat

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CTO @ Appsmith

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What is ChatOps?

First there was Dev, then Ops, then DevOps & now *ChatOps*

C'mon! Stop the madness!

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Wait, but why?

- Single Interface that's familiar & easy to use
- Allows for a shared terminal concept (Think: tmux & screen)
- No custom logins
- Multiple Integrations
- Context sharing is simpler
- More fun?

Example Screenshots



Arpit Mohan 7:08 AM

hello



forger-bot APP 7:08 AM

Howdy there! How can I help?



Arpit Mohan 7:08 AM

hello



forger-bot APP 7:08 AM

Howdy there! How can I help?



Arpit Mohan 7:08 AM

hello



forger-bot APP 7:08 AM

Stop it already!

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Example Screenshots



Arpit Mohan 9:07 AM

ship it



forger-bot APP 9:07 AM

http://d2f8dzk2mhcqts.cloudfront.net/0772_PEW_Roundup/09_Squirrel.jpg (110 kB) ▼



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Example Screenshots



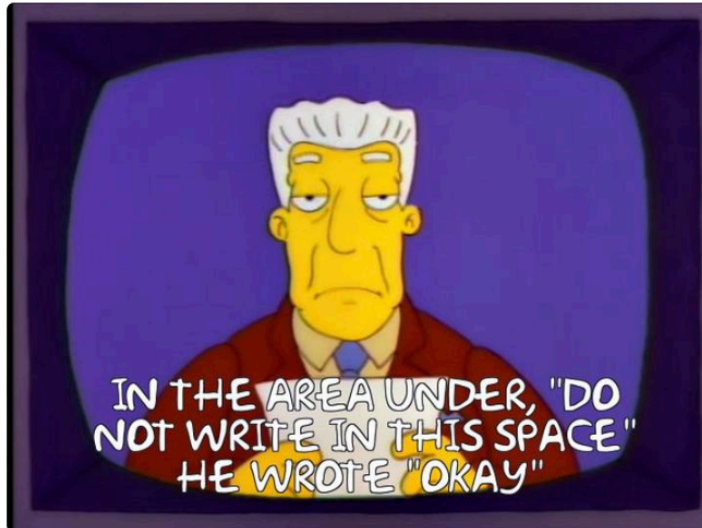
Arpit Mohan 8:52 AM

simpsons image me



forger-bot APP 8:52 AM

<https://i.imgur.com/O300amV.jpg> (47 kB) ▾



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Example Screenshots

```
forgerbot autoscaling schedule delete --schedule_name=[policy_name] - Delete the AutoScaling Scheduled Action
forgerbot autoscaling schedule ls - Displays all AutoScaling Scheduled Actions
forgerbot autoscaling schedule ls --group_name=[group_name] - Details an Autoscaling Scheduled Actions
forgerbot autoscaling schedule put - Put an AutoScaling Scheduled Action
forgerbot autoscaling update --json=[json] - Update the AutoScaling Group
forgerbot autoscaling update --json=[json] --dry-run - Try updating the AutoScaling Group
forgerbot autoscaling update --name=[name] --desired=[desired] - Update DesiredCapacity the AutoScaling Group
forgerbot autoscaling update --name=[name] --desired=[desired] --dry-run - Try updating DesiredCapacity the AutoScaling Group
forgerbot autoscaling update --name=[name] --max=[max] - Update MaxSize of the AutoScaling Group
forgerbot autoscaling update --name=[name] --max=[max] --dry-run - Try updating MaxSize of the AutoScaling Group
forgerbot autoscaling update --name=[name] --min=[min] - Update MinSize of the AutoScaling Group
forgerbot autoscaling update --name=[name] --min=[min] --dry-run - Try updating MinSize of the AutoScaling Group
forgerbot cloudwatch alarm delete --name=[alarm_name] - Delete the Alarm
forgerbot cloudwatch alarm ls - Displays all Alarms
forgerbot cloudwatch alarm ls --name=[alarm_name] - Details an Alarm
forgerbot ec2 ami create --instance_id=*** - Create an ami.
forgerbot ec2 ami deregister --ami_id=[ami_id] - Deregisters the specified AMI
forgerbot ec2 ami ls - Displays all AMI/Images
forgerbot ec2 ls - Displays Instances
forgerbot ec2 run - Run an Instance
forgerbot ec2 sg create --group_name=[group_name] --desc=[desc] --vpc_id=[vpc_id] - Create a SecurityGroup
forgerbot ec2 sg delete --group_id=[group_id] - Delete the SecurityGroup
forgerbot ec2 sg ls - Displays all SecurityGroups
forgerbot ec2 spot ls - Displays all SpotInstances
forgerbot ec2 tag create --resource_id=*** --tag_key=*** --tag_value=*** - Create a tag.
forgerbot ec2 tag delete --resource_id=*** - Deletes the specified set of tags
forgerbot ec2 tag ls - Displays all tags
forgerbot ec2 terminate --instance_id=[instance_id] - Terminate the Instance
```

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Tools used

- Hubot
- Slack
- Coffee Script
- Creativity :D

Show me the code

<https://github.com/mohanarpit/hubot-gitlab-ci>

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Sample Code for the hello command

```
robot.hear /hello|hi$/i, (res) ->
response = ""
helloResponses = robot.brain.get('helloResponses') * 1 or 0
if helloResponses > 1
  res.reply "Stop it already!"
  #Resetting the count here. Ideally, this key should be reset every hour or so.
  robot.brain.set 'helloResponses', 0
else
  res.reply "Howdy there! How can I help?"
robot.brain.set 'helloResponses', helloResponses+1
```

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Areas of Improvement

```
@forger-bot Please deploy the master branch to the staging environment
```

NLP Parsers

- wit.ai
- Dialogflow

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Other Alternatives

- Lita (Ruby)
- Errbot (Python)

Thank You

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