

SLACKBOTS IN RUBY

WELCOMING OUR NEW ROBOT
OVERLORDS

JASON CARTER
SOFTWARE ENGINEER AT
MAVENLINK

The background of the image features a collection of overlapping circles in various colors, including teal, blue, brown, pink, and grey, creating a dynamic and layered effect.

SLACK

**UTAH RUBY
USERS GROUP**

All-Time Usage

Upgrade to a paid plan to access your workspace's entire message history – plus extra file storage and unlimited app installations.

Messages Sent

458,971

out of 10,000 messages



↑ 10,905 messages (+2.4%) over the last 30 days.

File Storage Used

5.9 GB

out of 5.0 GB of [file storage](#)



↑ 134.8 MB (+2.3%) over the last 30 days.

Apps and Integrations Installed

9

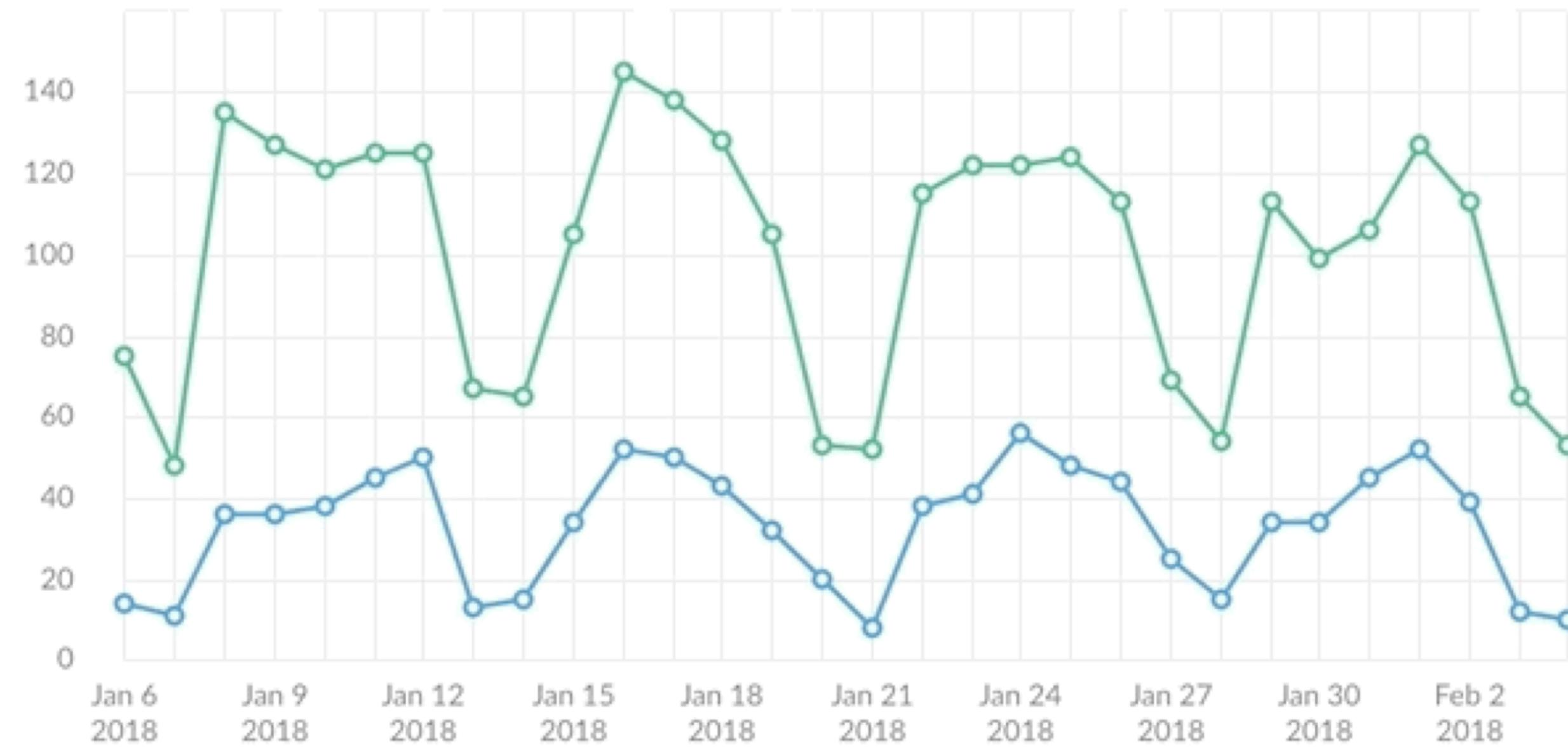
out of 10 [apps and integrations](#)



Active Users

Weekly active users

Daily active users

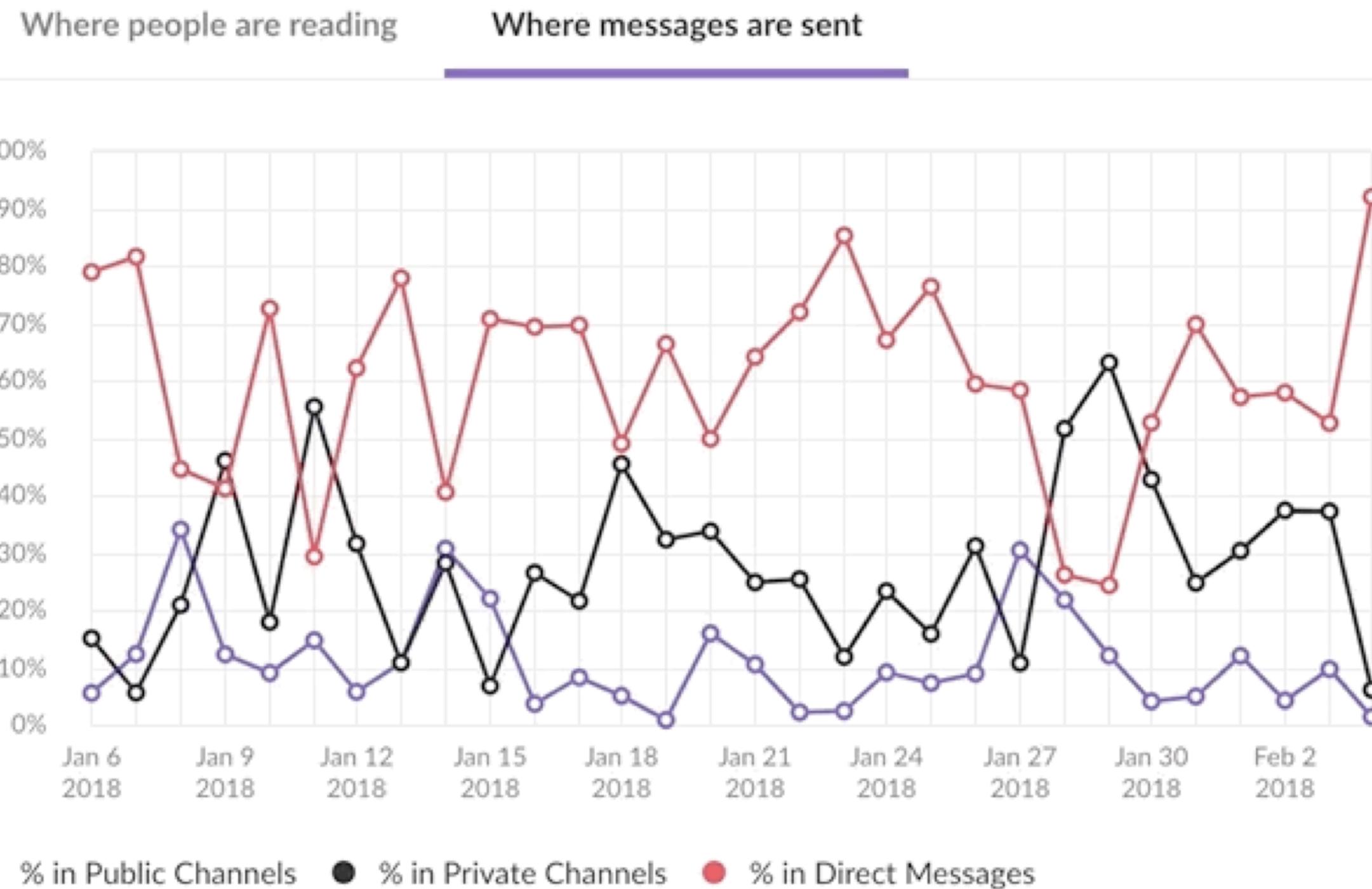


 Daily Active Users

 Daily Users Posting Messages

6.3 Public and Private

Understand where your members have conversations, and where messages are most commonly read. Most messages will have multiple readers.



**HOW CAN WE BUILD
BETTER TOOLS TO
SUPPORT THIS
COMMUNITY?**

WE'LL DISCUSS:

- > HOW I GOT INTO BUILDING SLACKBOTS
- > BUILDING A SLACKBOT IN RUBY
- > ADVANCED POSSIBILITIES

AFTERWARDS, WE'LL HAVE
TIME TO HACK ON OUR
OWN BOTS!

HOW I GOT INTO
BUILDING
SLACKBOTS

AT ITS CORE, SOFTWARE
DEVELOPMENT IS ABOUT
SOLVING PROBLEMS FOR
USERS WITH code

SOME PROBLEMS ARE A
LITTLE PETTY

**PHIL KEEPS GETTING
INVITED BACK TO THE
#PUSHUPS CHANNEL**



#pushups-channel-demo
1 | 0 | For demoing kicker bot to URUG

URUG v Jason

All Threads

Channels +

pushups-channel-demo

Direct Messages +

Apps +

pushups-channel-demo

You created this channel today. This is the very beginning of the # pushups-channel-demo channel.

[Set a purpose](#) [+ Add an app](#) [Invite others to this channel](#)

Today

jason 3:40 PM joined #pushups-channel-demo.

jason 3:40 PM set the channel topic: For demoing kicker bot to URUG

kicker-bot APP 3:40 PM joined #pushups-channel-demo by invitation from jason.

jason 3:40 PM Hey guys I don't really want to do pushups anymore

jason 3:41 PM left and rejoined #pushups-channel-demo.

Slack API Tester APP 3:41 PM I don't think @jason wants to do pushups anymore.
Kicking him in:
3
2
1

jason 3:41 PM left #pushups-channel-demo.

You are viewing #pushups-channel-demo

Created by you on February 3, 2018

[Join Channel](#)

[See More Details](#)

**AND THUS A LOVE OF
SLACKBOTS WAS BORN...**

**DELETER BOT - DELETE ALL MY
MESSAGES IN A CHANNEL**

**NOTIFIER BOT - @CHANNEL IN SLACK
WHEN @CHANNEL HAS BEEN DISABLED
BY AN ADMIN**

**WHAT OTHER
PROBLEMS CAN
WE SOLVE?**



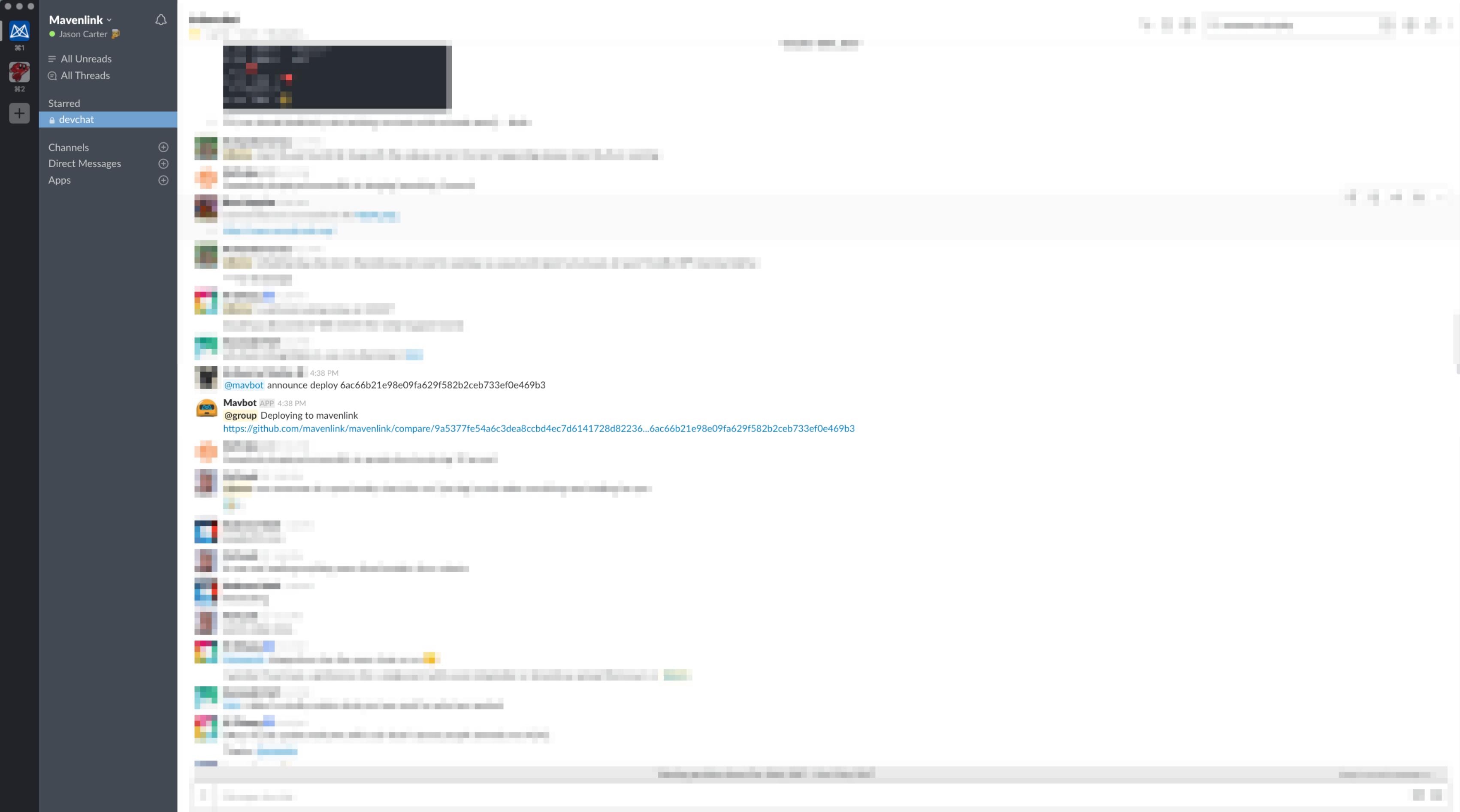
**IT'S HARD TO
KNOW...**

WHEN SOMEONE
HAS DEPLOYED
TO PRODUCTION

**WHAT SOMEONE
HAS DEPLOYED
TO PRODUCTION**

INTRODUCING...

MAVBOT



**WRITING DEPLOY EMAILS
IS PAINFUL!**

Mavenlink Jason Carter

All Unreads All Threads Starred devchat

Channels Direct Messages Apps

@Mavbot announce deploy cd0bebbe6ff731ffae65375a83b2e28e19a34571

Mavbot APP 5:16 PM @channel Deploying to mavenlink!

cd0bebbe6ff731ffae65375a83b2e28e19a34571

Pull Requests:

[sno-bugfix-workspace-creator-participation] Ensure workspace creator is given admin permission

USP Schedule (it_really_tied_the_room_together) - Add a percentage bar to the project status

Adds basic Button, BlankButton, and Cancel to our styleguidist guide

Styleguide colors

Add bootsnap

master planning: distribute hours dropdown shows correct week options

Replace each with map to avoid returning all dumper

Pend an intermittent failure

Fix Editing Projects while Pro that were Created in Teams

Deploy Email:

Hello Mavens,

We just deployed the following user-facing changes to production:

Bugfix: workspaces created via the API will now correctly assign admin permissions to the workspace creator.

<https://www.pivotaltracker.com/story/show/154781630>

When viewing future weeks in master planning, show the correct date choices in the distribute hours dropdowns.

<https://www.pivotaltracker.com/story/show/152129670>

User who created a project while on "Teams" plan can update to the "Professional" plan and successfully edit that project, including financials (if permitted):

<https://www.pivotaltracker.com/story/show/154511149>

[Suitable Farewell],
[Human Name]
[Show less...](#)

AT MAVENLINK, I'M WORKING ON SOLVING A FEW MORE PROBLEMS

- ASYNCHRONOUSLY PLANNING RETROS AND HOSTING STANDUPS
- NOTIFYING THE WIDER DEV ORGANIZATION WHEN MASTER IS RED
- ALLOWING DEVS TO ASK MAVBOT WHAT CODE REVIEWS THEY'VE BEEN ASSIGNED TO

HOWEVER DID YOU DO IT!?

BUILDING A SLACKBOT IN RUBY

RUBY TOOLS

- › [SLACK-RUBY-CLIENT](#)
- › [SLACK-RUBY-BOT](#)
- › [SLACK-RUBY-SERVER](#)

**WE'RE GOING TO FOCUS
ON SLACK RUBY BOT**

**LET'S SOLVE
ANOTHER
PROBLEM!**



reddit

@reddit-bot reddit politics rising

- LISTEN FOR A COMMAND
- PARSE OUT TWO ARGS : subreddit AND :filter
 - MAKE AN API CALL
- RETURN PRETTY OUTPUT
- HANDLE SERVER ERRORS

DEMO TIME!

WHAT ELSE IS POSSIBLE?

- API
- RESPOND TO EVENTS
- WEBHOOKS
- MESSAGE MENUS
- DIALOGS

Mavenlink

Jason Carter

361

All Unreads

All Threads

Channels

+ mavbot-int-testing

Direct Messages

Apps

mavbot-int-testing

Search

362

Set a purpose + Add an app Invite others to this private channel

Today

Jason Carter 1:35 AM joined mavbot-int-testing along with mavbot-local.

+ Message mavbot-int-testing @ 😊



onboarding BOT 2:49 PM ☆

Welcome to Slack! We're so glad you're here.

Get started by completing the steps below.



I

Learn How to Use Emoji Reactions

Add an emoji reaction to this message

You can quickly respond to any message on Slack with an emoji reaction.

Reactions can be used for any purpose: voting, checking off to-do items, showing excitement.

Learn How to Pin a Message

Pin this message

Important messages and files can be pinned to the details pane in any channel or direct message, including group messages, for easy reference.

Learn How to Share a Message in Slack

Share this Message

Sharing messages in Slack can help keep conversations on your team organized.

And, it's easy to do!



Message @onboarding





mavbot-local APP 9:31 PM

CircleCi

[mavbot2.0/webhooks#2e86785101903edba2807bfbb614d62c782c915d](#)

Trigger a failing build.

Job

rspec

Jan 24th

Status

Failed



Jason Carter 🎉 9:31 PM



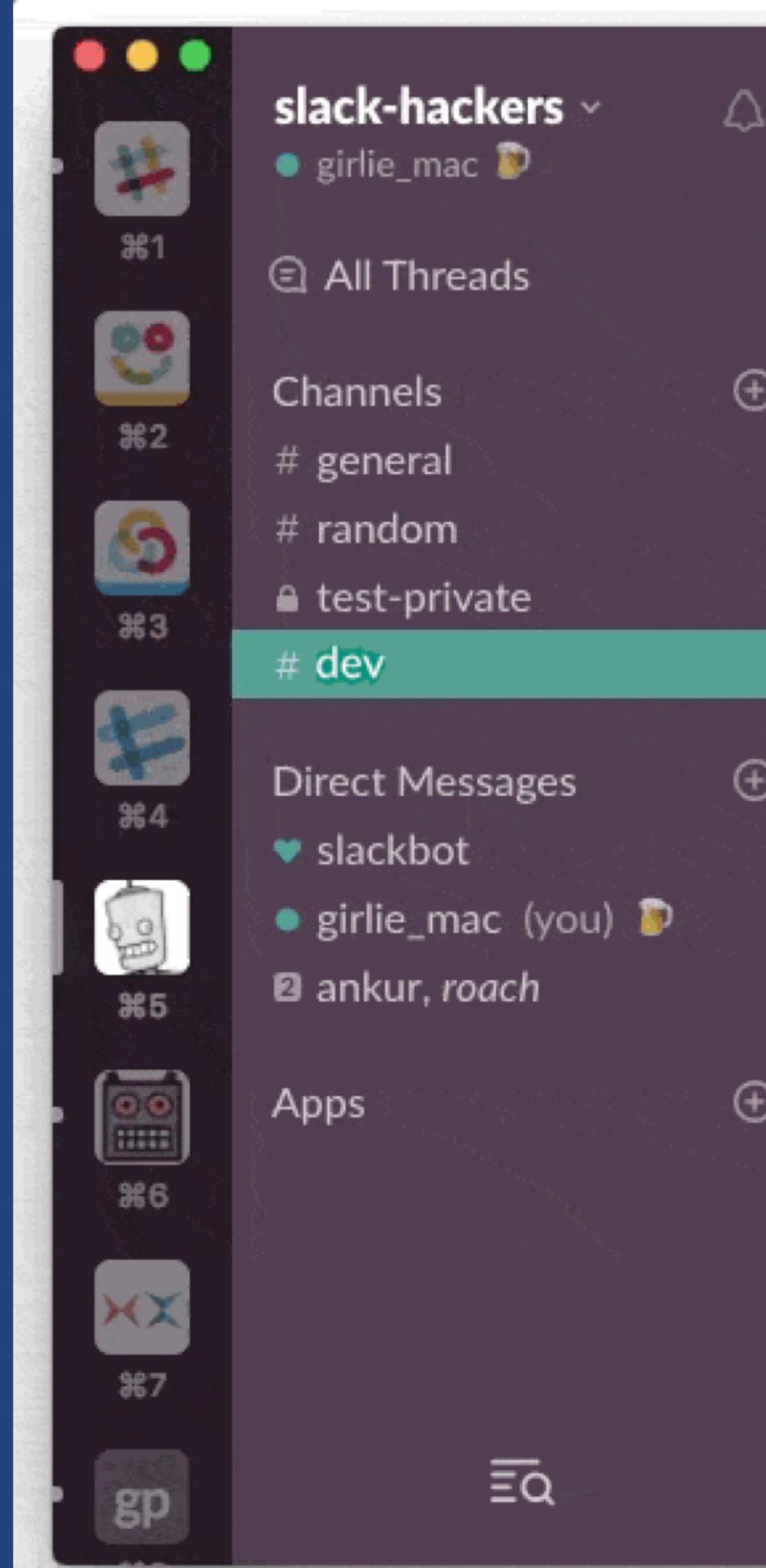


(edited)



Message @coffeebot





#dev

☆ | 81 | 0 | Add a topic

Search

Today

girlie_mac 10:53 AM

https://api.slack.com/changelog

api.slack.com

Recent changes to the Slack platform

New features, recent happenstance, and happenings across the Slack platform

This

https://api.slack.com/changelog/2017-09-locale-locale-locale

api.slack.com

Detecting the locale of users, channels, and other conversations

New features, recent happenstance, and happenings across the Slack platform

We just added the new locale/language section, so start practicing your Klingon! 🤖

+

Message #tomomi

@ 😊

A screenshot of the Slack web interface for the '#dev' channel. The header includes the channel name, a star icon, a '1' notification, a gear icon, and a search bar with the placeholder 'Search'. Below the header is a 'Today' section. The first message is from 'girlie_mac' at 10:53 AM, containing a link to the Slack changelog. This is followed by two messages from 'api.slack.com' about recent changes and locale detection. The final message is a bot message announcing the addition of a locale/language section. At the bottom is a message input field with a '+' icon and the placeholder 'Message #tomomi', along with an '@' icon and a smiley face icon.

**WHAT PROBLEMS DO WE
HAVE AS A COMMUNITY.
AND COULD A BOT HELP?**

FIN

ARTICLES

- [TOP BOTS ON SLACK](#)
- [USING MESSAGE MENUS IN A PRODUCTION BOT](#)
- [INTRODUCTION TO DIALOGUES](#)

TOOLS

- > PROTOTYPE CONVERSTATIONS WITH WALKIE

REFERENCES

- [SLACK API](#)
- [SAMPLE-MESSAGE-MENUS-APP](#)
- [SAMPLE-ONBOARDING-APP](#)