

**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, green, yellow, red, and purple, set against a light gray gradient.

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

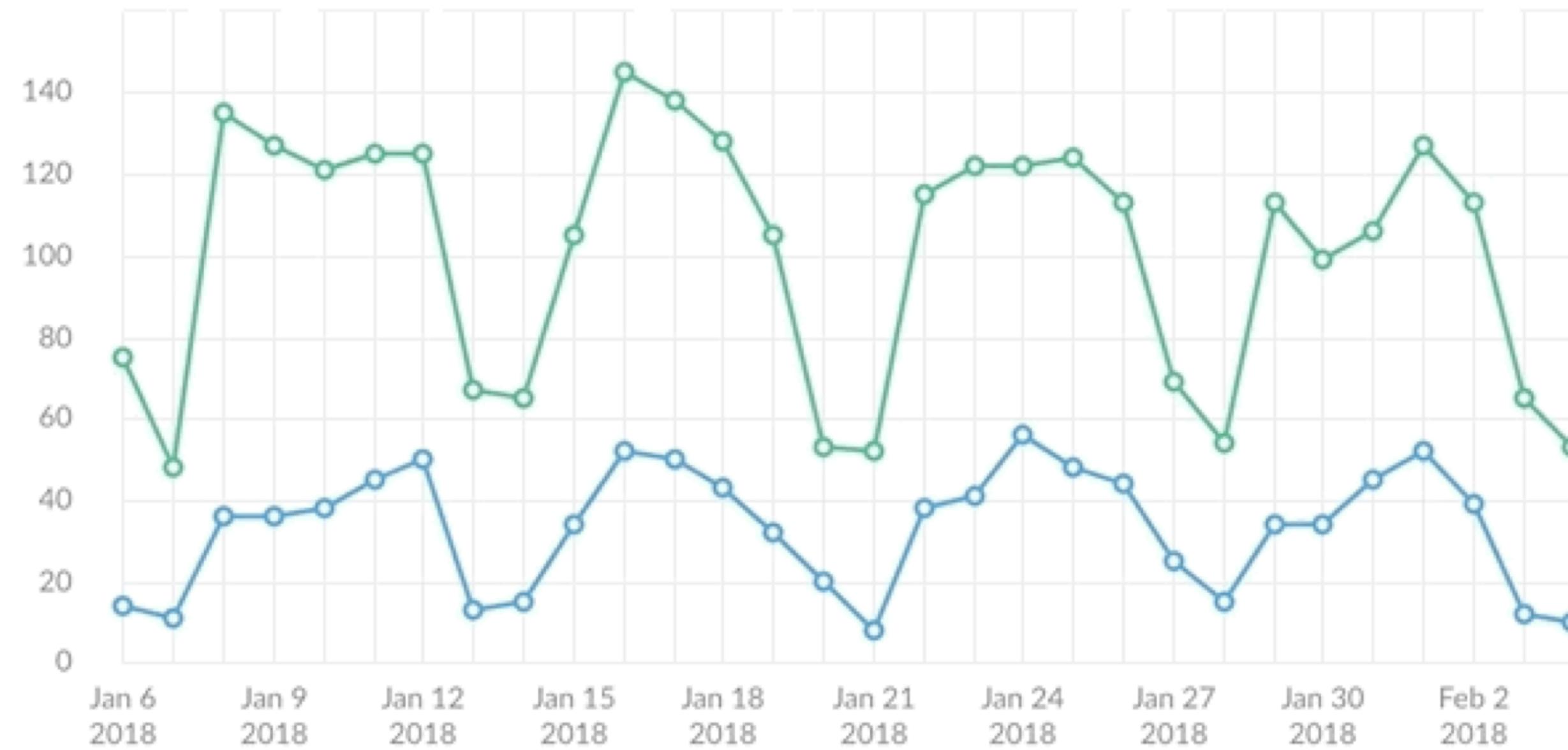
out of 10 [apps and integrations](#)



👤 Active Users

Weekly active users

Daily active users

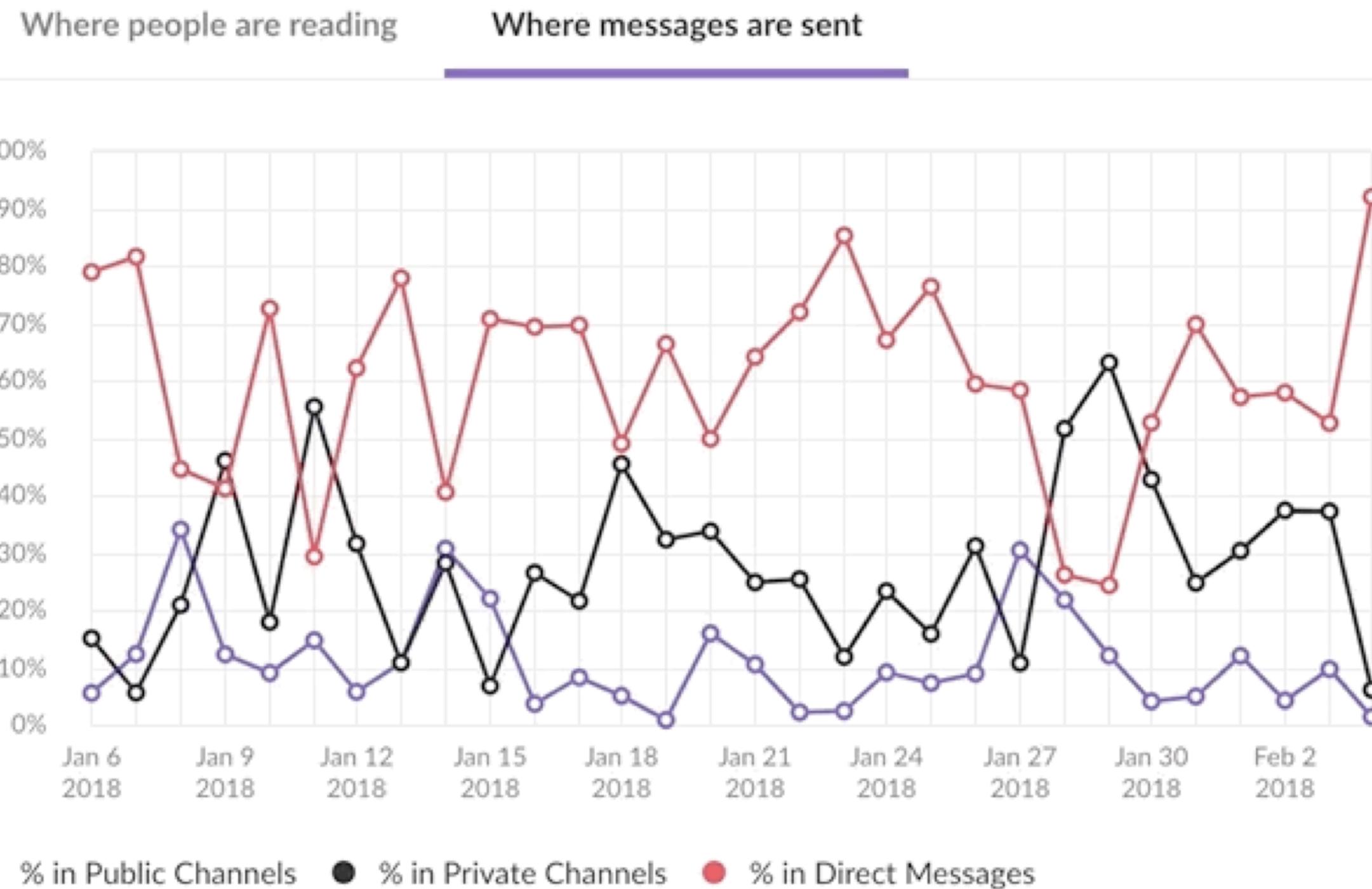


● Daily Active Users

● 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

All Threads

URUG

jason

Channels

pushups-channel-demo

Direct Messages

Apps

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?**



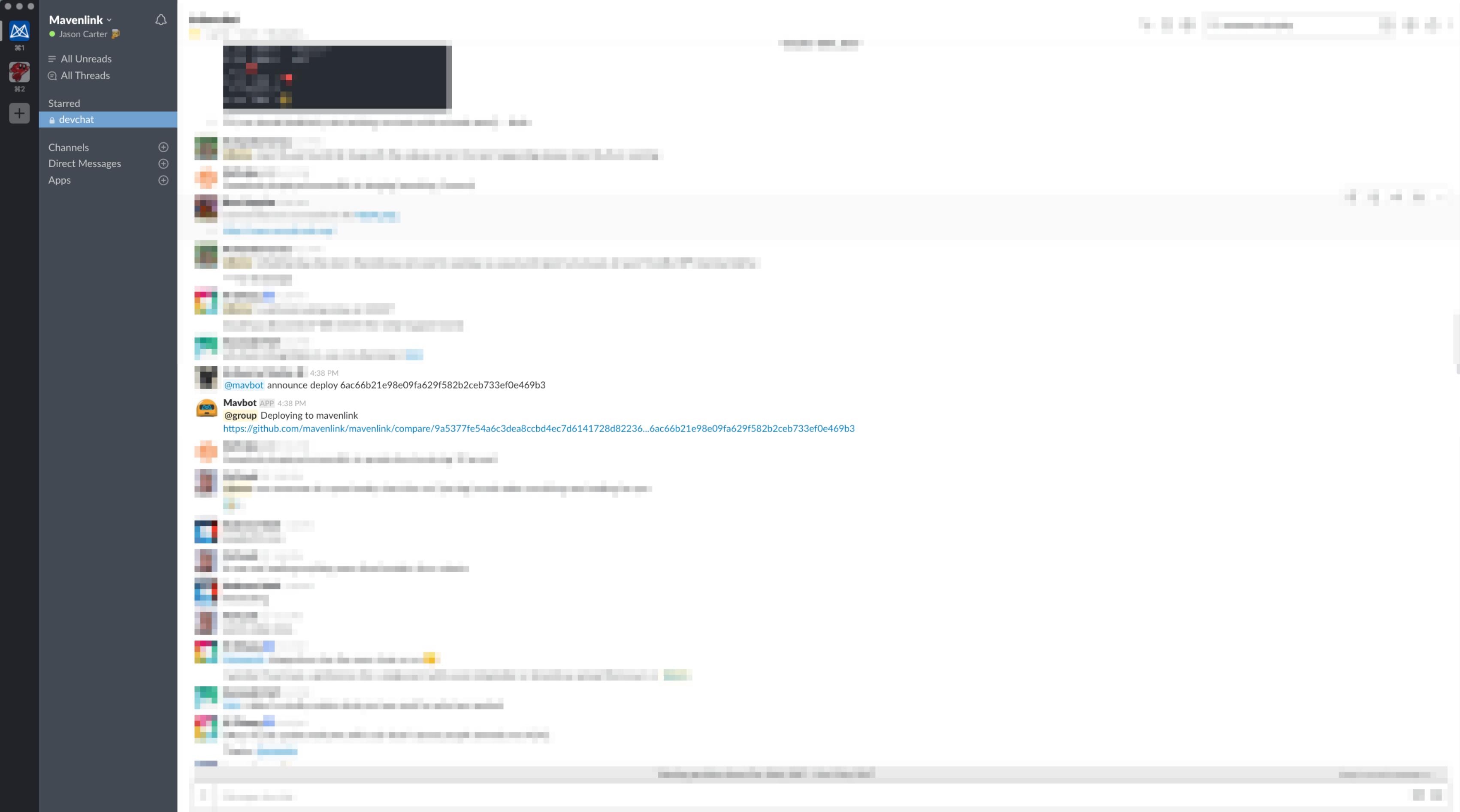
IT'S HARD TO
KNOW...

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



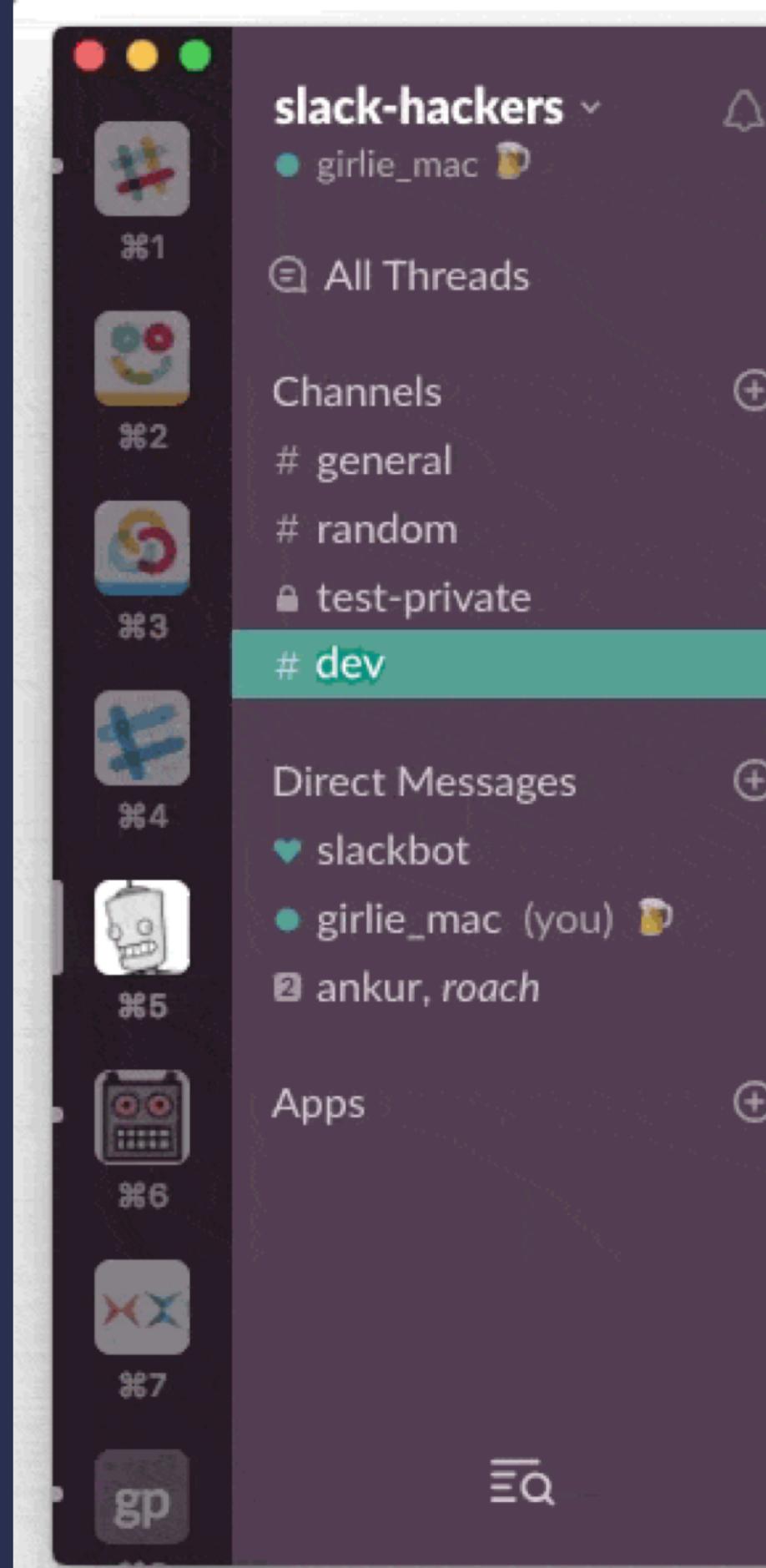


(edited)



Message @coffeebot





#dev

☆ | 1 | 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 @ 😊

**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 Conversations with Walkie

REFERENCES

- ▶ [Slack API](#)
- ▶ [sample-message-menus-app](#)
- ▶ [sample-onboarding-app](#)