June 2022

Scaling your app's release process

Neil Kimmett

classpass

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classpass

@neilkimmett



from Southampton live in NYC

	Director	of Eng (② ClassPass
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Write code

classpass

Ship code



Write code



return(rc);

rgchSubKey> != 0> { strcpy(rgchSubKey, "3D Movie Maker"); Ъ

'', rgchSubKey);

DeleteRegKeyValue32</hr>
"HomeDirectory">>

DeleteRegKeyValue32<HKEY_CURRENT_USER, rgchKey, "SwitchResolution">

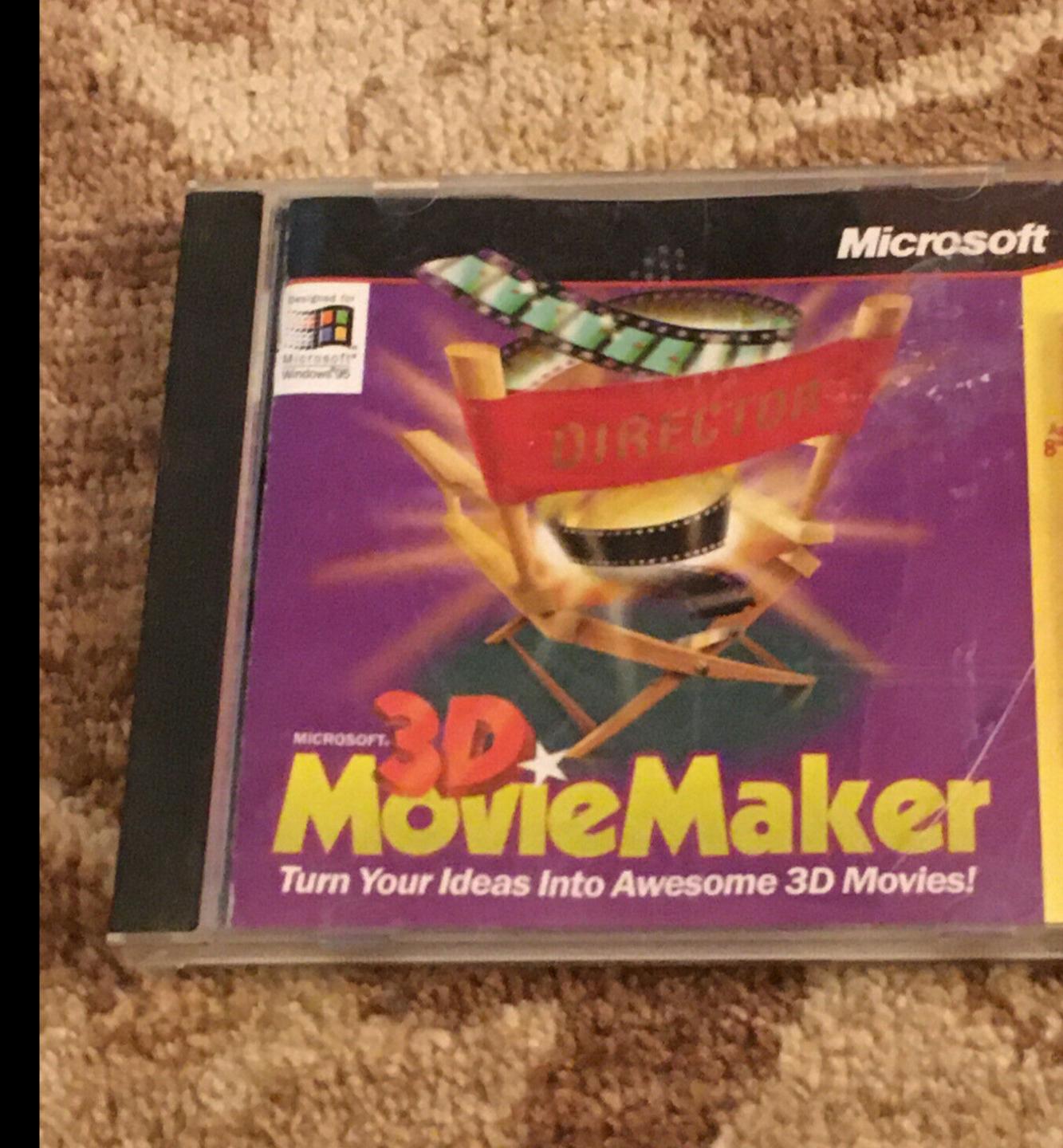
DeleteRegKeyValue32</href="https://www.bernitting.com">DeleteRegKeyValue32</href="https://www.bernitting.com">Https://www.bernitting.com

DeleteRegKeyValue32<HKEY_CURRENT_USER, rgchKey, "GreaterThan8bppMsg");

- if (!LoadString(hinst, IDS_REGKEY, rgchSubKey, sizeof)
- wsprintf(rgchKey, "SOFTWARE\\Microsoft\\Microsoft Kids\\







TTENTION. Use of the software program on the uclosed disks and/or installed on the computer is















What it means to ship an app



How ClassPass has evolved our process



How you can design your process



What it means to ship an app

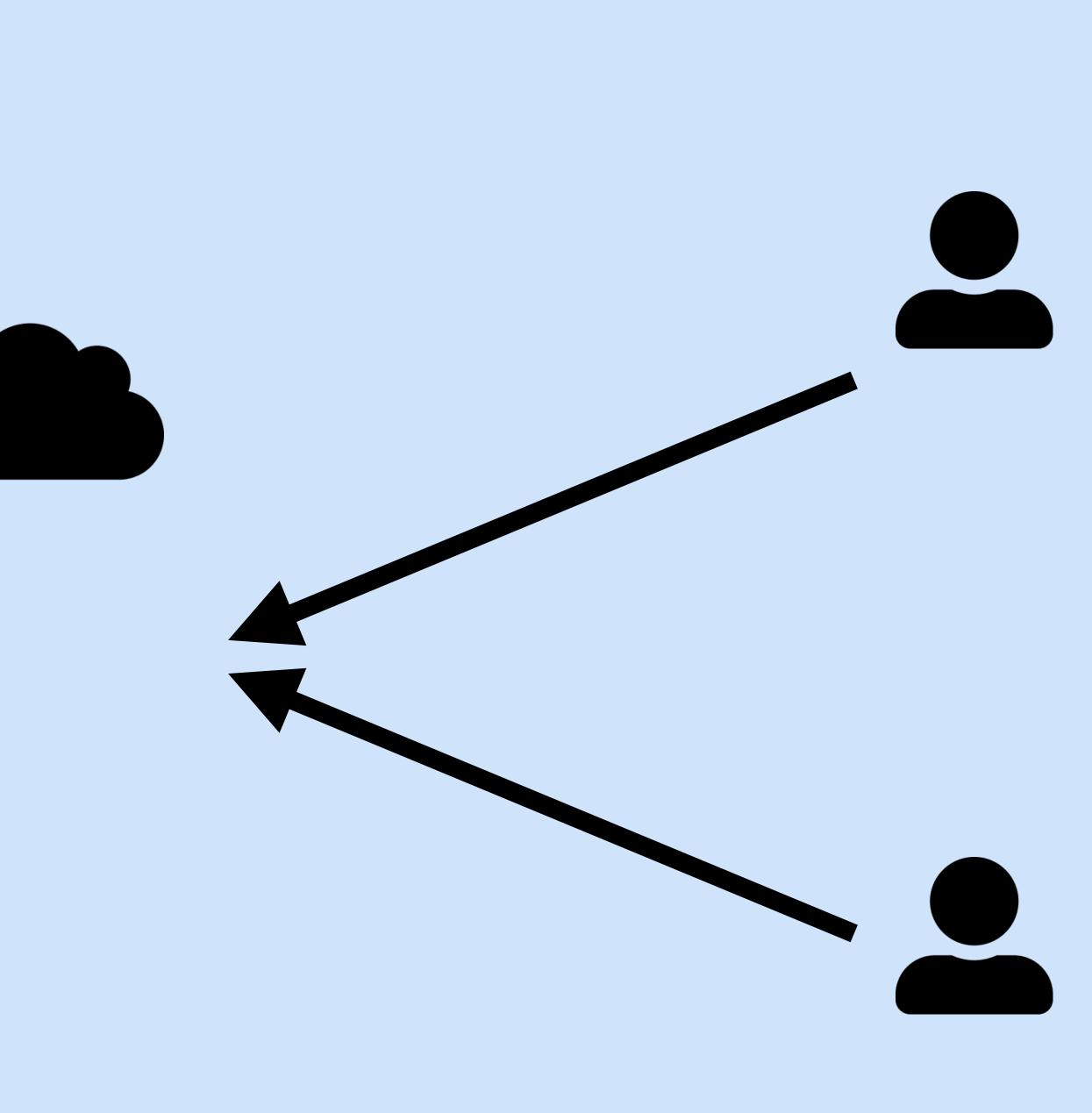


Deploying web code





classpass



Deploying app code



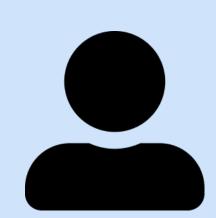














Their Businesses Went Virtual. Then Apple Wanted a Cut. After Airbnb and ClassPass began selling virtual classes because of the pandemic, Apple tried to collect its commission on the

sales.

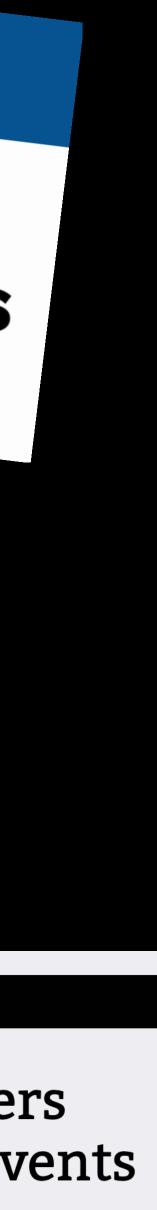


Apple removes police-tracking app used in Hong Kong protests from its

S TECHNICA

Apple won't let Facebook tell users about 30-percent Apple tax on events

Facebook says "small businesses will keep 100% of the revenue" on Android.





userwithhighexpectations, 08/01/2019

Would be 5 stars

...if it weren't for that one pesky bug that only affects me!

classpass

What can we do about it?



Start small

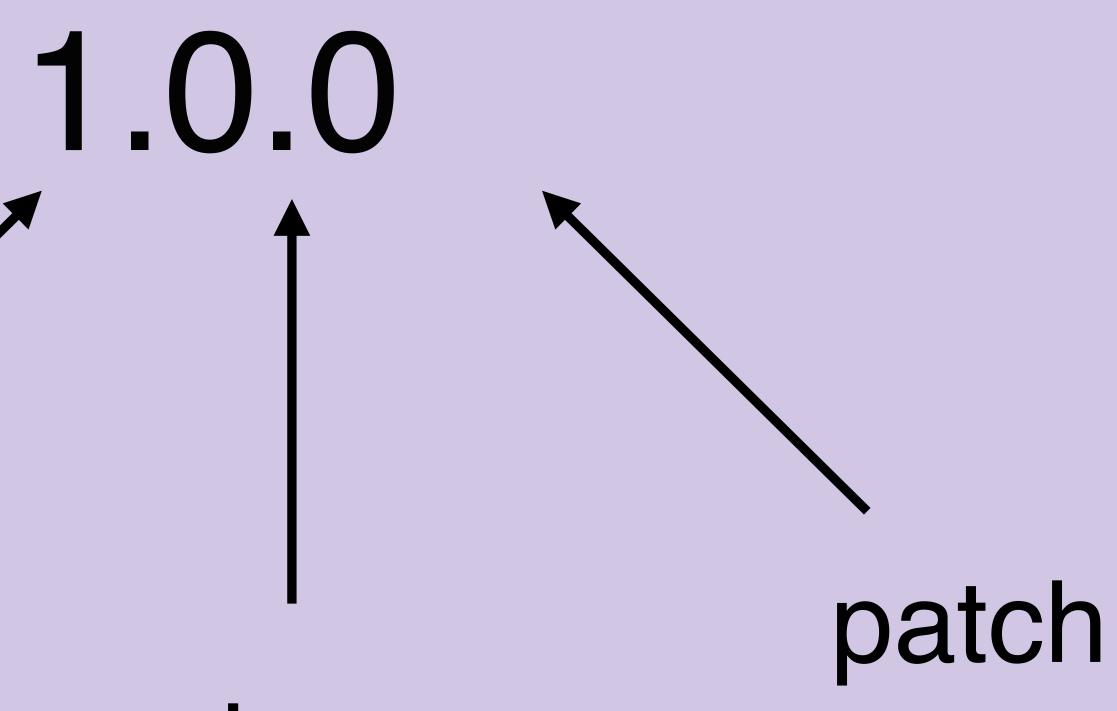


1.0.0









minor

2	0	:3	9	4
	-	-	-	

I than ever m Done ار join by PIN or QR



0

This up

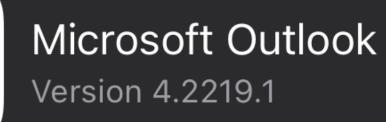
and bug

NYC

311

LinkedIn: Network & Job Finder Version 9.1.269

you're in a conversation, sp The Link a conversanow When you're in ne LinkedIn app is no matter. The L



odate includes performance fixes to make Outlook b

* Improved app performance

more



New Relic Version 3.87.0

UPDATE

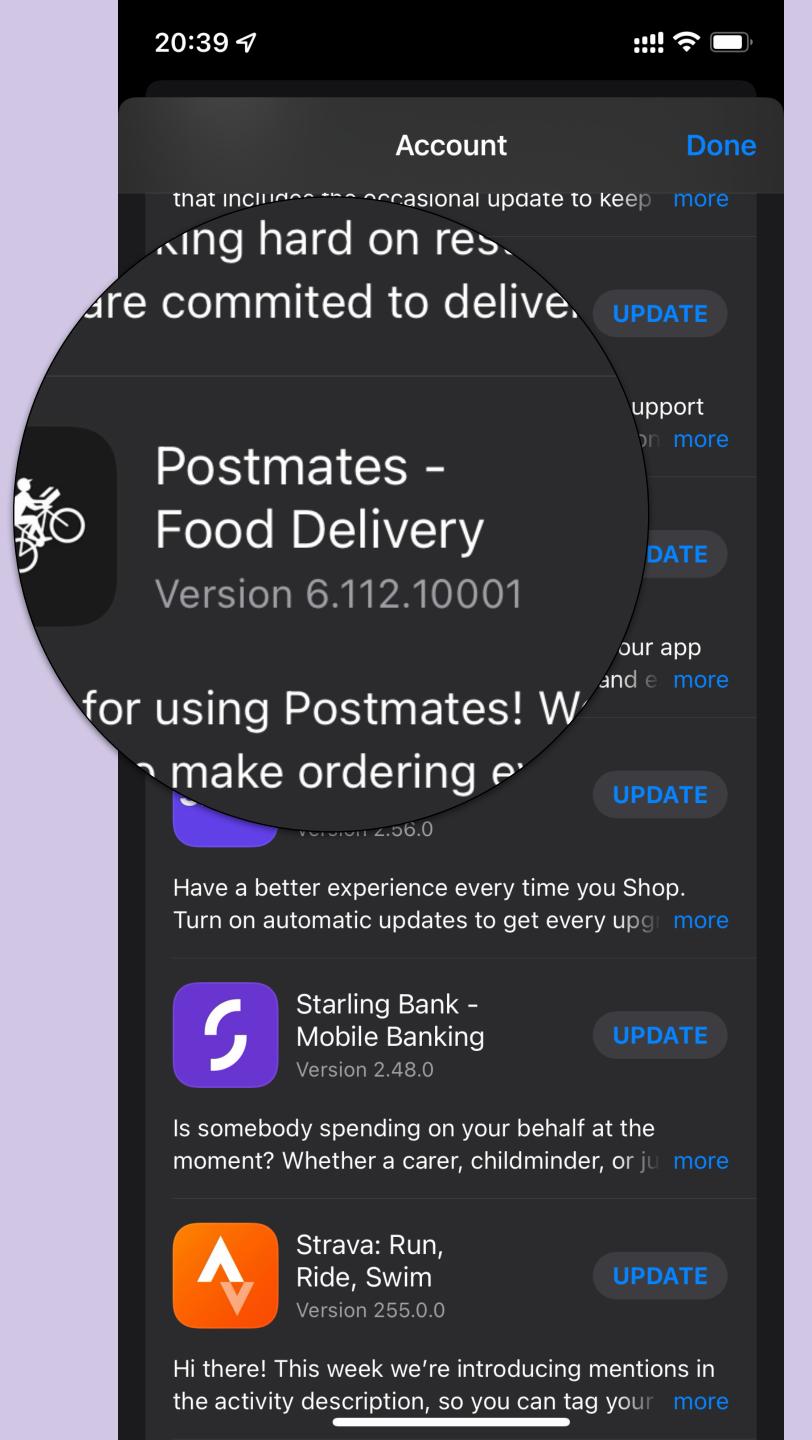
New sections in the Explorer tab, favorite, last viewed and all entities!

C		S	S
	6	15	

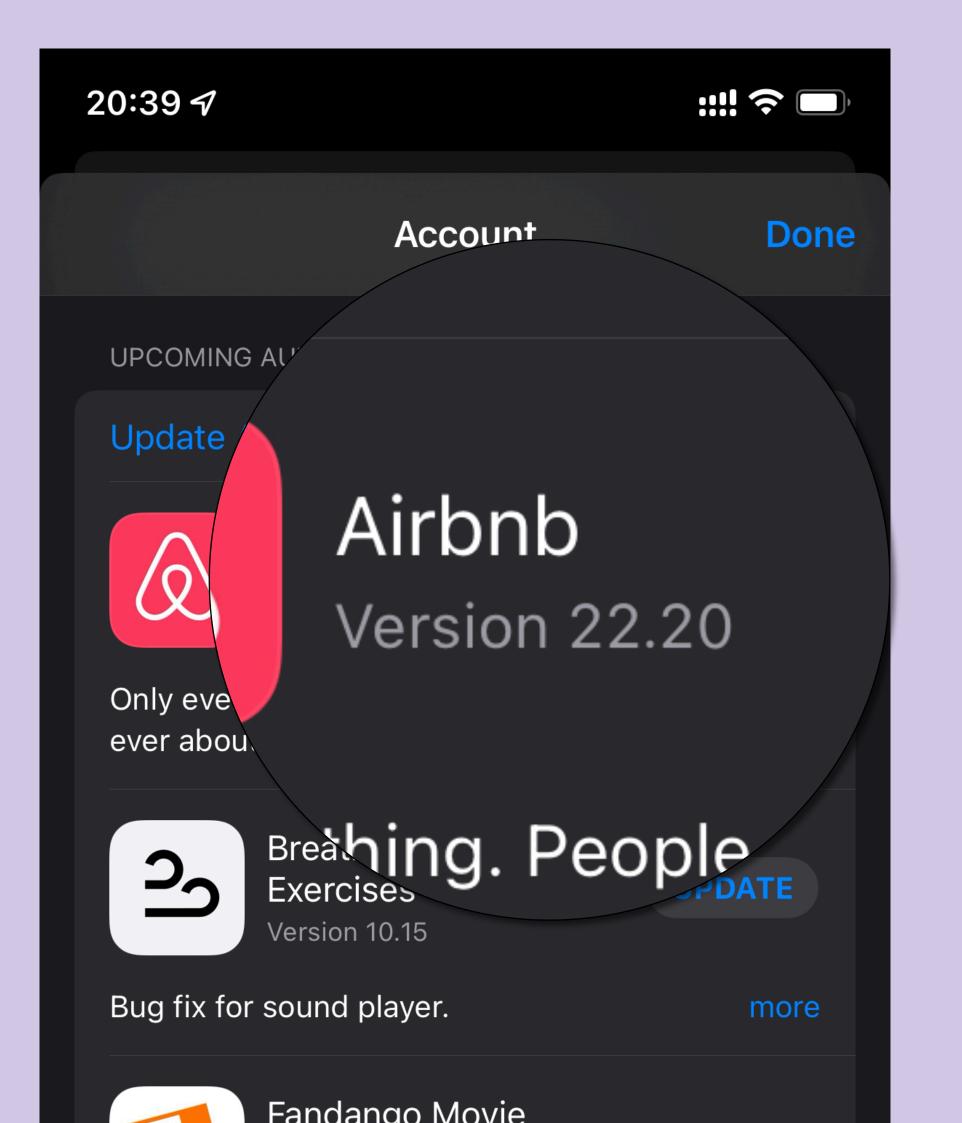
Nike

more

UPDATE



Versioning strategy





::!! 穼 🗖 Overcast Podract Ann ſĴ $\star \star \star \star \star$

What's New

Version 2022.4

0=

- Play Next is now av Previsather minor fixe

fun

Queue

Bridge to a New Mag MAR 17 • 42:14 LEFT

Unicorn Blaster

20:40 🗸

🕻 Back

Version History

2022.4

- Play Next is now available under more conditions - Other minor fixes

2022.3

Minor fixes and performance improvements following the previous version's major redesign.

2022.2

- Redesigned home screen, fonts, and many other elements throughout the app (other areas, such as the now-playing screen, will be redesigned soon more

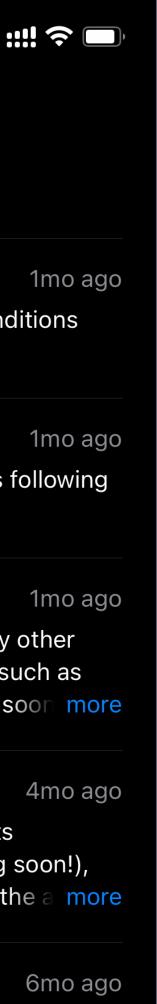
2022.1

- Fixed playback of Anchor-hosted podcasts

- Minor design tweaks (MUCH more coming soon!), including many improved icons throughout the a more

2021.11

- New consolidated Privacy screens showing domains, trackers, etc. used across all of your



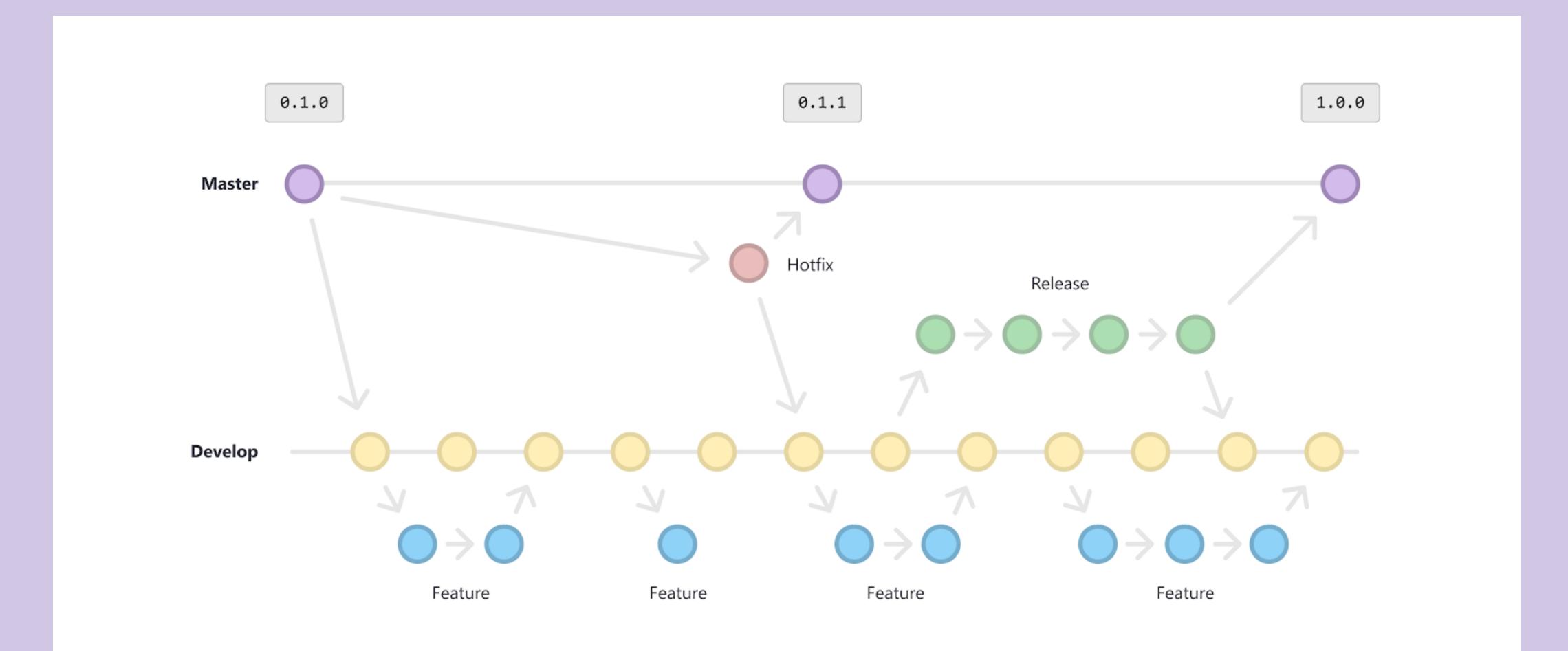
Branching strategy





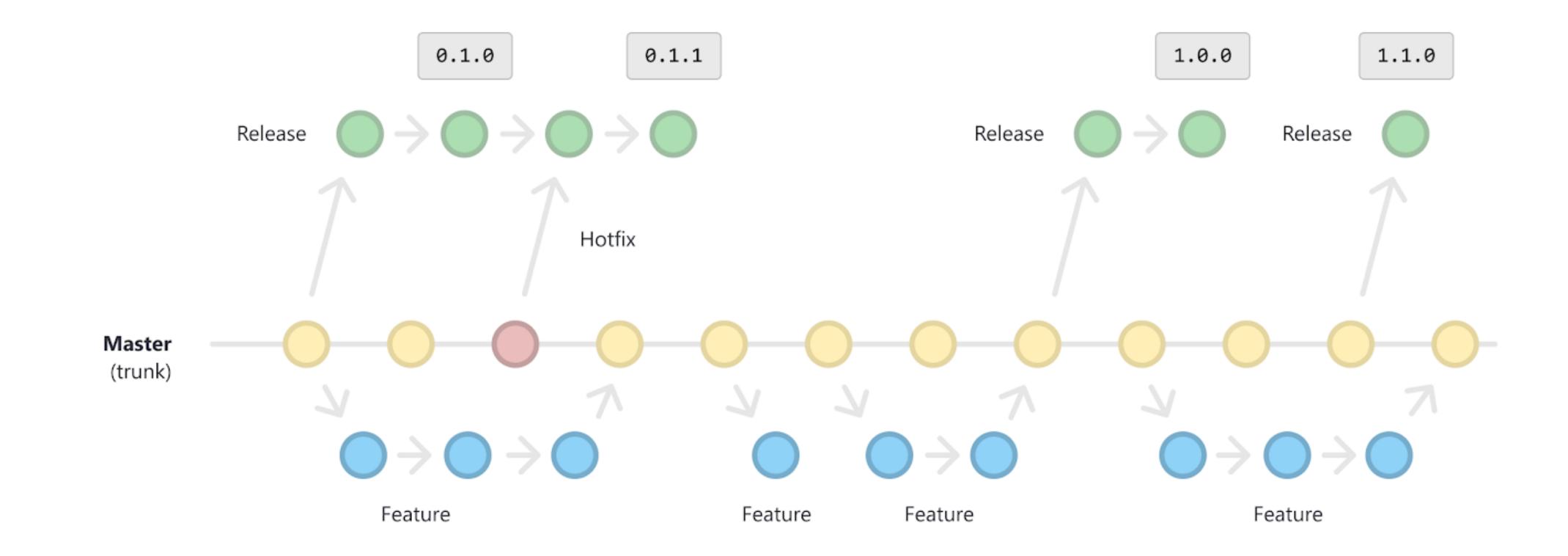
Branching strategy

GitFlow



Branching strategy

Trunk



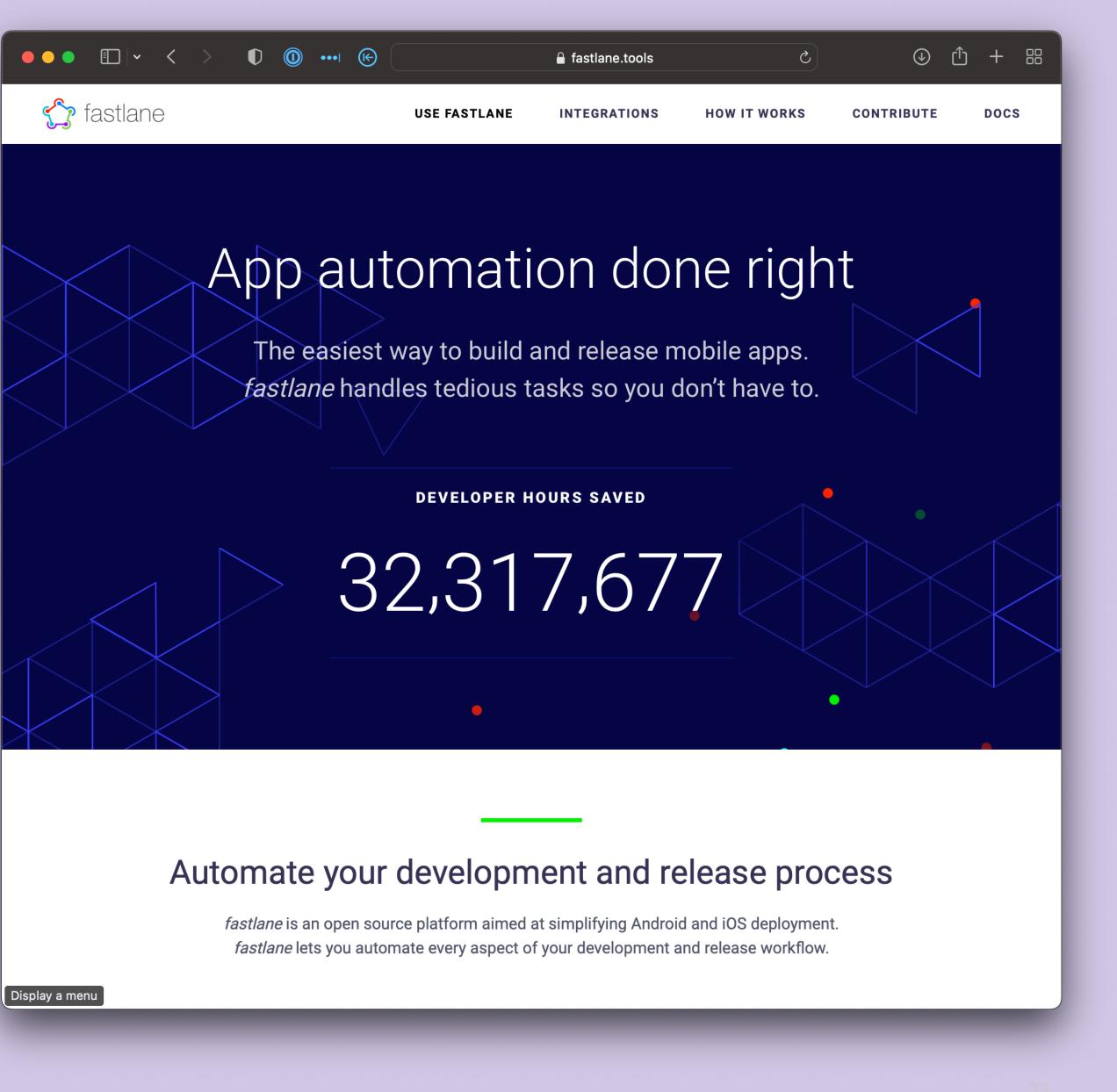
Automate some stuff





fastlane.tools





Introduce process as you go



Create a release checklist





Create a release checklist 🔽

Release Checklist

Blue text indicates an iOS specific task. Green text indicates an Android specific task.

{platform} - {version} - {engineer name}

Pre-Release Checklist

Ensure you have a task in your sprint with 5 story points.

□ Pin this into **#topic-release-[ios|android]** and remove old release pins.

□ Ensure you communicate in **#guild-mobile** the Release Branch creation date a couple days before you create the Release Branch. A release is great news and the entire team loves to hear about it.

□ Sync with your PM if we need to update the app Description. If needed, your PM will own the English copy and translations.

Ensure <u>Pull Requests</u> for your version are merged into **develop**.

Ensure no JIRA tickets with this fix version are in Needs QA or Dev Complete

□ <u>Create the release branch using the release script.</u>

Ensure version bump PR has been merged into **develop**

□ Slack folks who contributed <u>features</u> to this release to test their feature on the RC

Release TestFlight build for QA through AppStore Connect, this is required to test ApplePay at the moment.

□ For questions related to "Does your app use encryption?" select 'Yes'.

□ For questions related to "Does your app qualify..." select 'Yes'.

□ For questions related to "Have you added or..." select 'No'.

Post-Release Checklist

- ☑ Update Mobile Release Planning doc with release date
- □ Send email to <u>engineering@classpass.com</u> and <u>mnakano@classpass.com</u> once we've rolled out to 100% with the release notes, see <u>this template</u>.
- □ Check metrics in <u>Firebase Crashlytics</u> for performance and adoption
- □ Check metrics in Firebase Crashlytics for performance and adoption
- Create tickets for crashes that have been introduced in this version and update the release channel to indicate crash free users from Firebase for the next 3 days. For example: 5.5.0 - Rolled out to 10% (98.1% crash free users)-Owner: Neil
 - □ Day 1 after release
 - Day 2 after release
 - □ Day 3 after release
- □ Ensure user no-crash rate is higher than 99%
 - □ If user no-crash rate is lower than 99% create hotfix
 - □ Create JIRA tickets in the appropriate boards for any new crashes
- □ Inform **#guild-mobile** of the good news/bad news
- □ If this release is time sensitive, you can release fully after at LEAST 1 day of no crashes. If not time sensitive, coordinate with Product to determine how much longer to wait until full release.
- □ Updated Checklist document (this document) with possible improvements



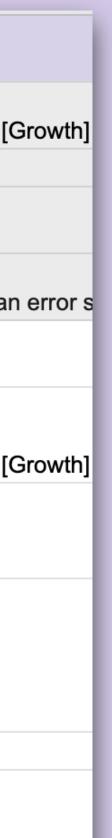
Create a planning sheet "





Create a planning sheet

Platform	Version	Release Manager	Code Complete	Branch Cut	Regression Testing	Target Submit	Target Release	ACTUAL Submit	ACTUAL Release	Type/Time Sensitive?	Description
iOS	7.8.0	Bassel / Jess	Fri 4/15/22	Wed 4/20/22	Wed 4/20/22	Mon 4/25/22	Tue 4/26/22	Wed 4/27/22	Mon 5/2/22		- Home SwiftUI Polish [Activation] - Native Immediate Trial Upgrade Add Credits Tab [G
iOS	7.8.1	Zach						Wed 5/11/22	Thu 5/12/22		- MiniCardViewModel Crash Hotfix
Android	5.32.0	Clayton lead / Lillian Stephen supporting	Fri 4/22/22	Tue 4/26/22	Wed 4/27/22	Fri 4/29/22	Mon 5/2/22		Fri 5/6/22	Rollout paused	- Some Home Analytics [Activation]
Android	5.32.1	Stephen									 Home List Fragment Crash App Freezes on Keyword Search when it enters an
iOS	7.9.0	Jorge / Lillian	Fri 5/6/22	Tue 5/10/22	Wed 5/11/22	Fri 5/13/22	Mon 5/16/22	Mon 5/16/22	Fri 5/20/22		 New Profile Screen [Activation] Accessibility [N+1]
Android	5.33.0	Richard / Dan	Fri 5/13/22	Tue 5/17/22	Wed 5/18/22	Fri 5/20/22	Mon 5/23/22				 Some Home Analytics [Activation] Search spot filter [N+1] Native Immediate Trial Upgrade Add Credits Tab [Gill
iOS	7.10.0	Luis / Lillian	Fri 5/27/22	Tue 5/31/22	Wed 6/1/22	Fri 6/3/22	Mon 6/6/22				 Post-attendance [Activation][TBD] Cancellation flow improvements [Growth][TBD] Search spot filter [N+1][TBD]
Android	5.34.0	Rich / Madhu lead Lillian supporting	Fri 6/3/22	Tue 6/7/22	Wed 6/8/22	Fri 6/10/22	Mon 6/13/22				 Subset of post-attendance scope [Activation] Quickbook modal [N+1][TBD] New Profile Screen [Activation][TBD] Cancellation flow improvements [Growth][TBD] Spot filter modal [N+1]
Android	5.34.1	Richard									- Android 12 [TBD]
iOS	7.11.0	Irvin / Dan	Fri 6/17/22	Tue 6/21/22	Wed 6/22/22	Fri 6/24/22	Mon 6/27/22				- New sign up flow [Growth][TBD] - Availability in Search [N+1][TBD] - Quickbook modal [N+1][TBD] - Phase 1



Run regular retrospectives







- Talk about your **feelings**
- Discuss what's working and what isn't
- Continuously **improve** your process
- Check out <u>retrospectivewiki.org</u> for format ideas

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Release strategies







- Feature based releases 👉
 - Keep developing features, release when ready
- Release train 🚂
 - Regular release cadence
 - If feature isn't ready in time, it misses the train and catches the next one

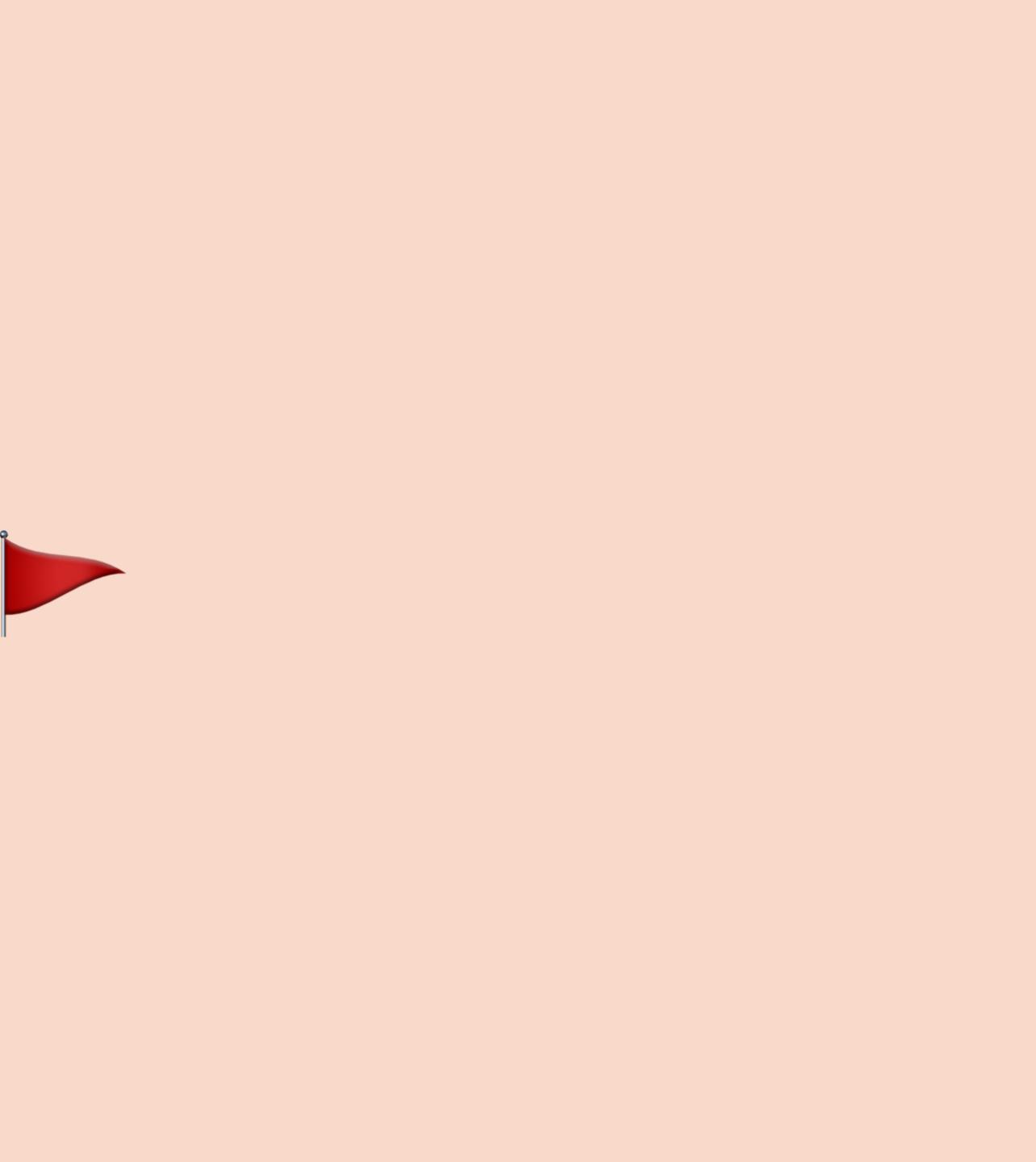
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Tools to join the big leagues

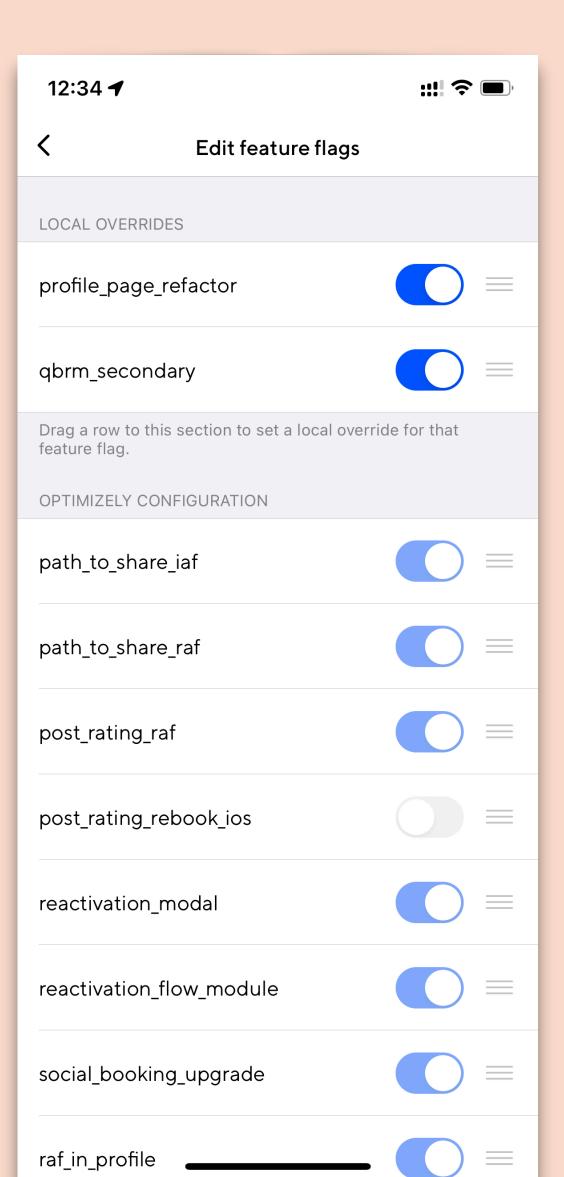


Feature flags





Feature flags



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Admin Settings ОX eigen v6.7.7, build 2019.05.24.09 (c77772ee1) Go to old Admin menu Go to Storybook Staging > Environment Feature Flags No > Enable Google authentication Yes > Enable Split.io A/B testing Show example Unleash No > experiments Enable query prefetching Yes > Enable New Artwork Submission Yes 🔿 Flow with Accordion Yes > Show linked social accounts Allow linking of social accounts on Yes > sign up No > Enable search with image Enable collector profile Yes > Enable My Collection search bar No > Show consignments in My No > Collection Enable new my collection artwork No >

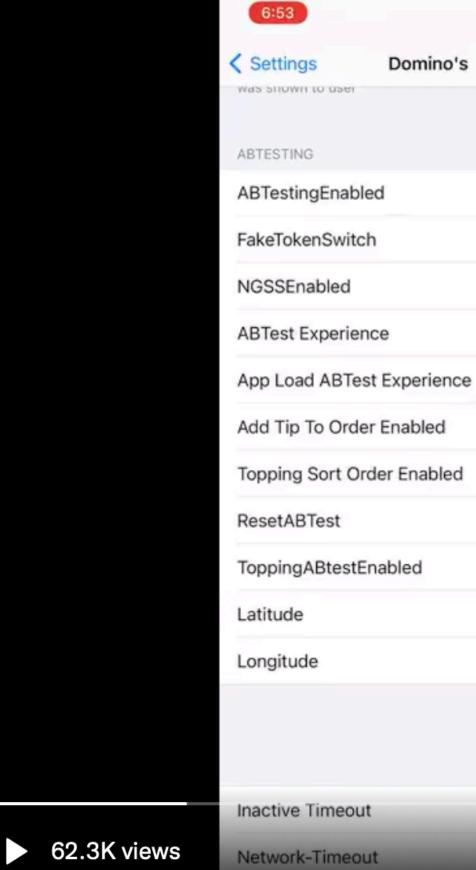
Feature flags



@cabel

the many wonders accidentally left in there

(Thx @danmessing)

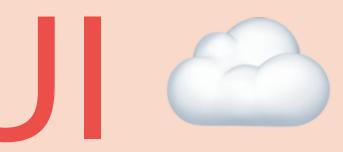




hmm let's take a little peek at Settings > Domino's and 🖬 5G 🔳 Domino's Remote > Remote > \bigcirc 5 minutes > 0:07 / 0:30 🗇 🧹 default

Server driven UI





Server driven UI



Published in The Airbnb Tech Blog



Ryan Brooks Jun 29, 2021 · 11 min read · • Listen

A Deep Dive into Airbnb's Server-Driven Ul System

How Airbnb ships features faster across web, iOS, and Android using a serverdriven UI system named Ghost Platform **X**.

By <u>Ryan Brooks</u>



ClassPass cancel flow

11:33 🕇	:::: \$ ()	{
(×	"subheader" : "For \$15/mo. you "ctas" : [
	~	{
Just Need a	Break?	"message" : "Switch to Cla "type" : "button",
For \$15 /ma you car	switch to ClassPass	"step_id" : "confirm-lite-
Lite and:	I SWITCH TO ClassF ass	<pre> "spacing" : "spacing-large },</pre>
		{
✓ Get 6 credits/mo. to b	ook classes	"message" : "Cancel my mer "type" : "link",
Pollovor up to 10 cros	ita ao whan you ara busy	"step_id" : "view-members
you can take more cla	its, so when you are busy, sses next month	<pre> "spacing" : "spacing-reguing" }</pre>
🗸 Book classes in any of	our 2.500+ cities	1,
▼ J		"items": [
		<pre>{ "message" : "Get 6 credits "spacing" : "spacing-regu "type" : "checkmark" },</pre>
		{
		"message" : "Roll over up "spacing" : "spacing-regu"
		<pre> 'type' : 'checkmark'' },</pre>
		{
		"message" : "Book classes
Switch to C	lassPass Lite	"spacing" : "spacing-regu" "type" : "checkmark"
Cancel my	membership	J, "header" : "Just Need a Break"
		<pre> "step_id" : "offer-lite-plan" }</pre>

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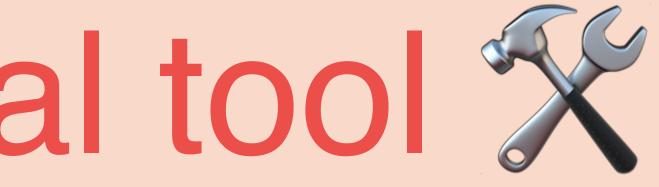
```
der" : "For $15/mo. you can switch to ClassPass Lite and:",
 L
ssage" : "Switch to ClassPass Lite",
pe" : "button",
ep_id" : "confirm-lite-plan",
acing" : "spacing-large"
ssage" : "Cancel my membership",
pe" : "link",
ep_id" : "view-membership-benefits",
acing" : "spacing-regular"
: [
ssage" : "Get 6 credits/mo. to book classes",
acing" : "spacing-regular",
be" : "checkmark"
ssage" : "Roll over up to 10 credits, so when you are busy, you can take more classes next month",
acing" : "spacing-regular",
be" : "checkmark"
ssage" : "Book classes in any of our 2,500+ cities",
acing" : "spacing-regular",
>e" : "checkmark"
```

: "Just Need a Break?",



Build an internal tool X





Build an internal tool

Ship	
Etsy Buy on Etsy	
iOS	TESTING 4.65.0 Branch: Today Release: in 7 days
Android	TESTING 4.65.0 Branch: Today Release: in 7 days



Sasha Friedenberg 👻

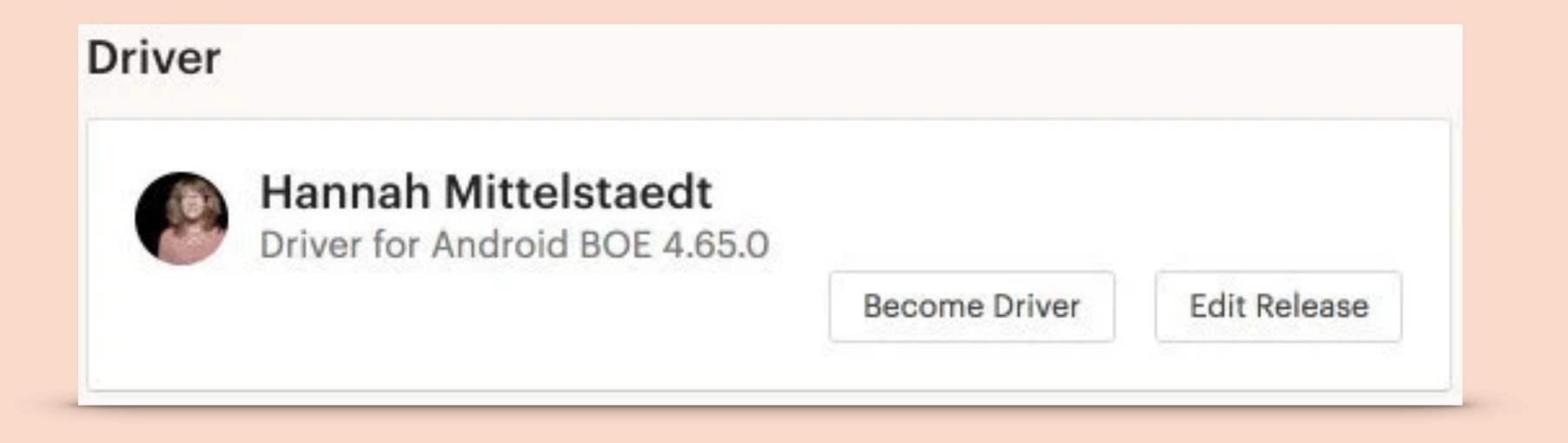
RELEASED

Branch: Apr 18 Released: 7 days ago

RELEASED

Branch: Apr 18 Released: 7 days ago

Build an internal tool





Ahoy! You've been assigned driver for Android SOE 2.62.0. You need to confirm you're available or find a replacement

Android SOE 2.62.0

branch date May 23, 2017, at 5pm ET release date May 30, 2017

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Buy a tool

runway.team

RUNWAY PRODUCT CUSTOMERS BLOG

Air traffic control for your mobile releases

Runway puts your releases on autopilot and keeps the whole team in sync throughout.

REQUEST A DEMO

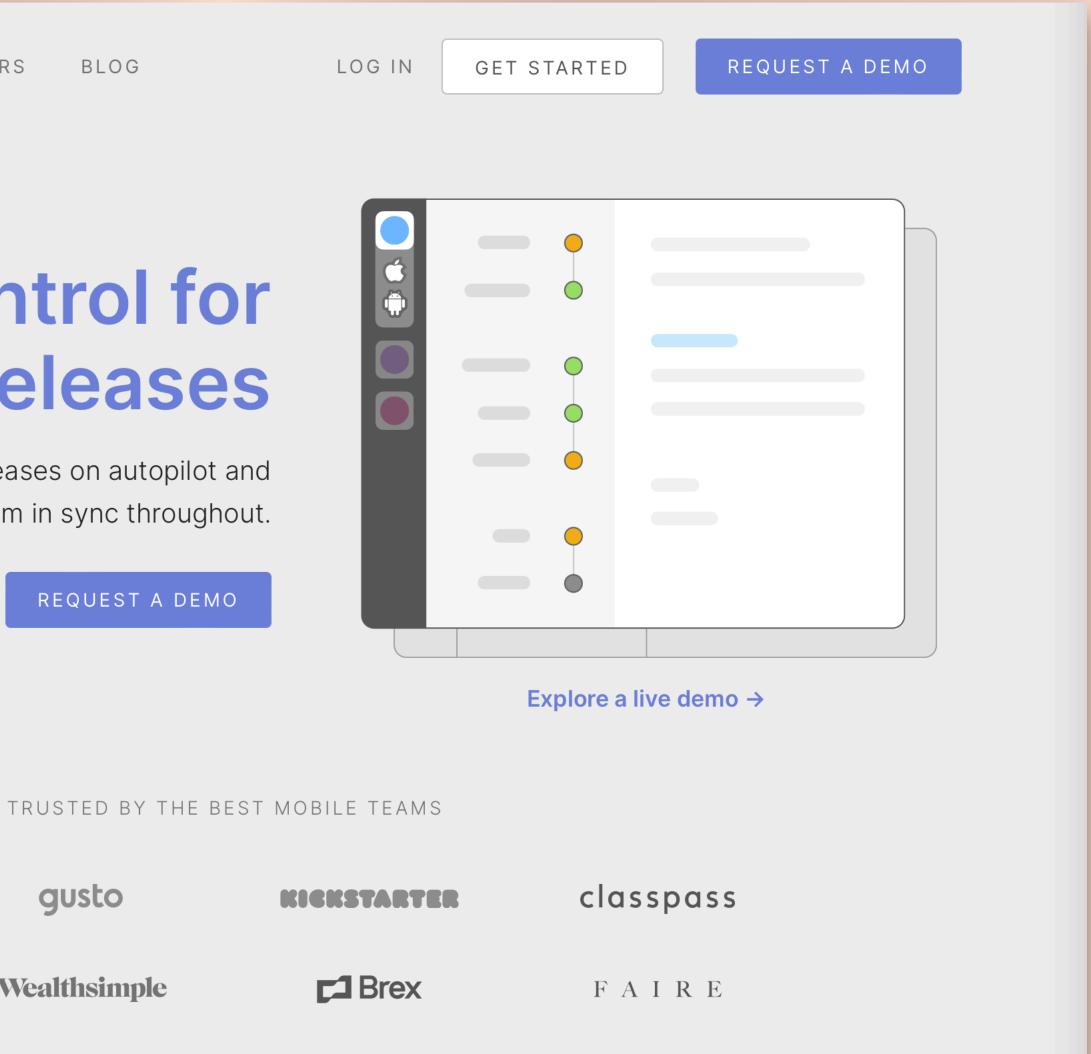
CAPSULE

gusto

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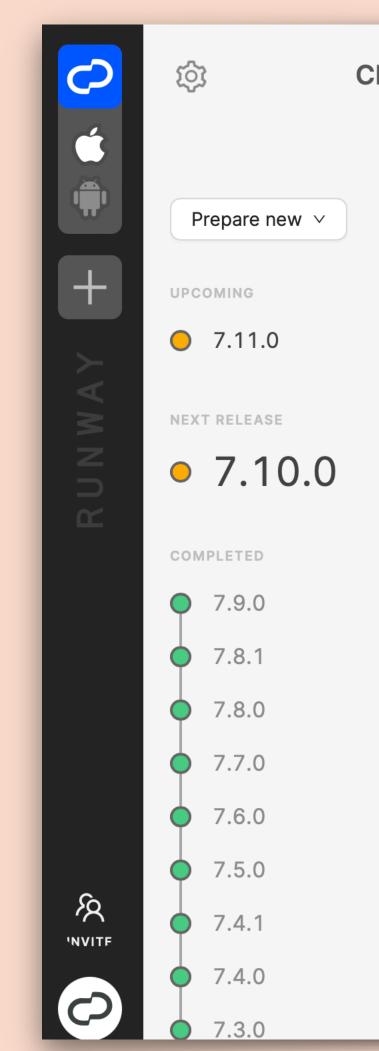
ROUTE

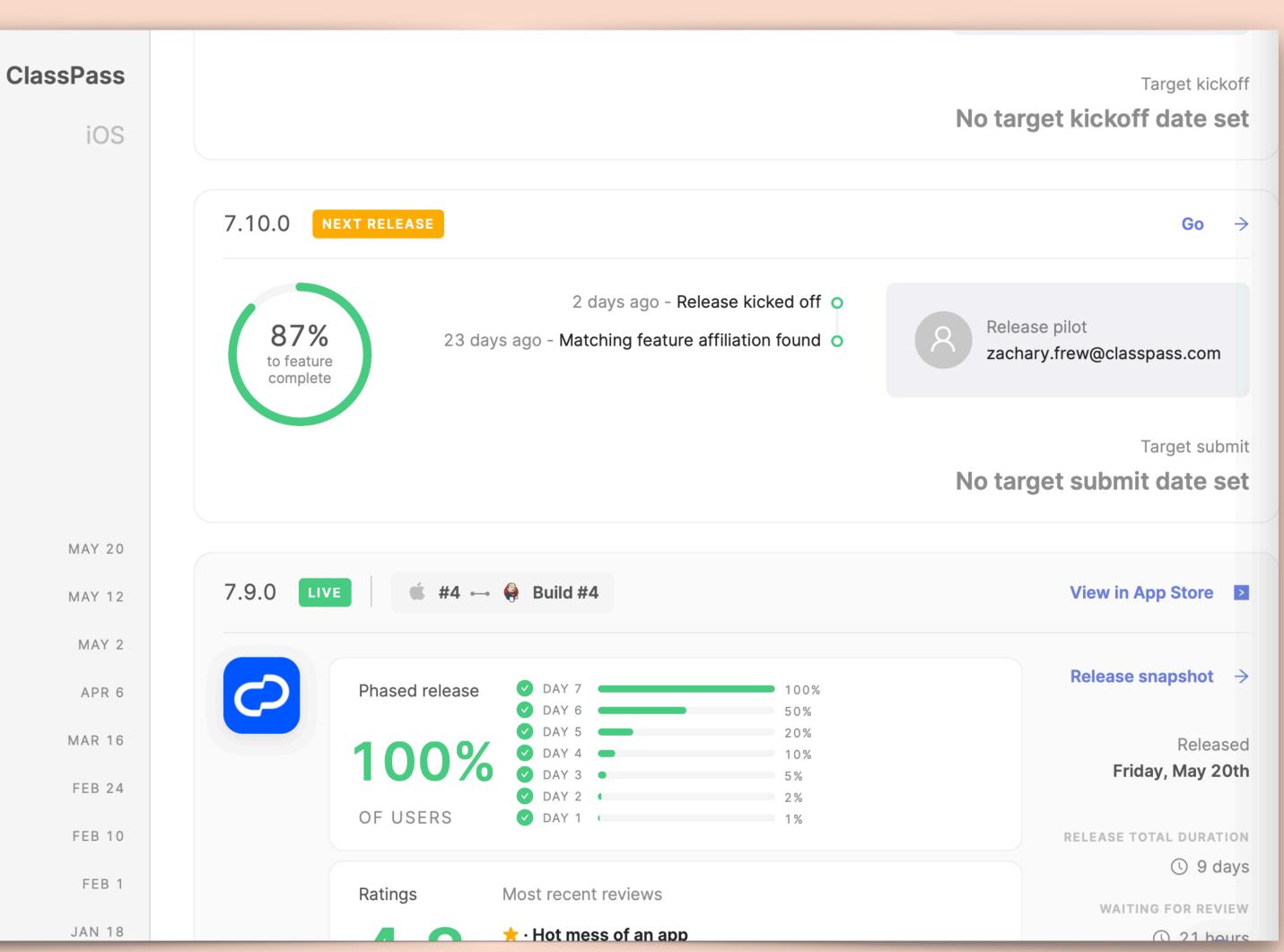
Wealthsimple



Buy a tool

runway.team



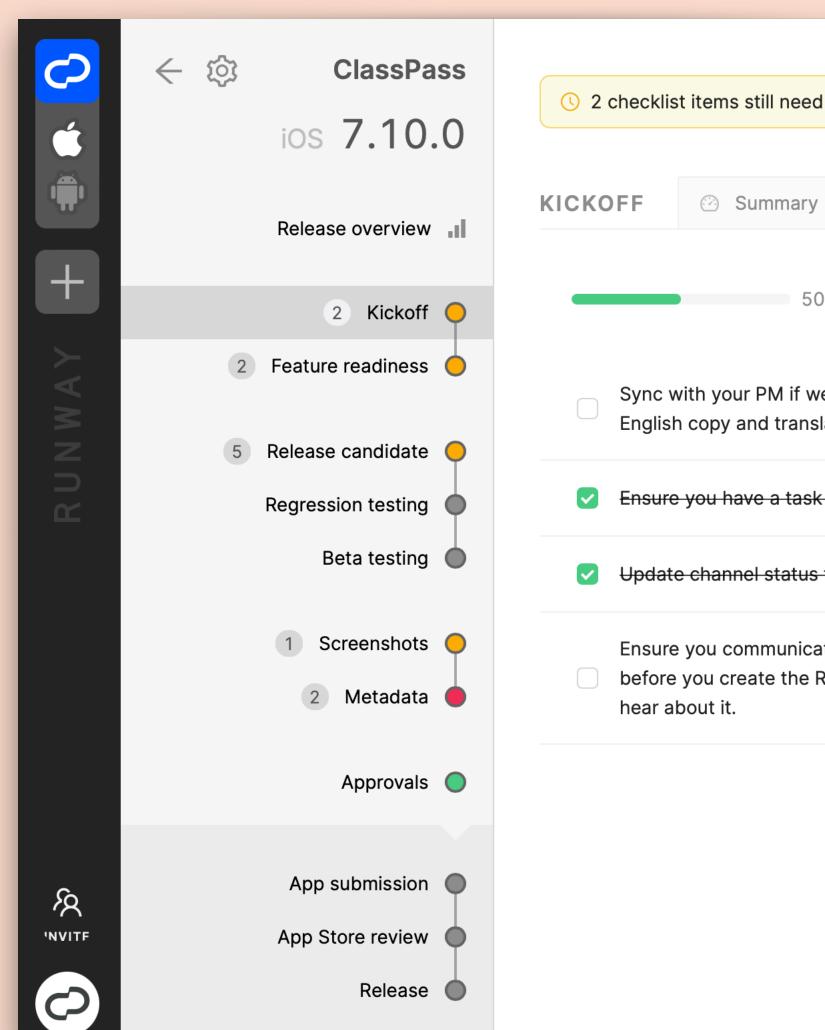


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Buy a tool

runway.team

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	🛱 Schedule 🔻
ed to be completed for this step.	
ry	
50% complete (2 / 4) + A	Add 🖉 Edit
we need to update the app Description. If needed, your PM will own the owne	ed by Release pilot
sk in your sprint with 5 story points. Completed - 05	5/31, 1:45 PM 🕒
us for #topic-release-ios or #topic-release-android. Info Completed - 05	5/31, 1:45 PM 🕒
cate in #guild-mobile the Release Branch creation date a couple days Release Branch. A release is great news and the entire team loves to owne	ed by Release pilot

Start small

Introduce process as you go Add tooling where needed