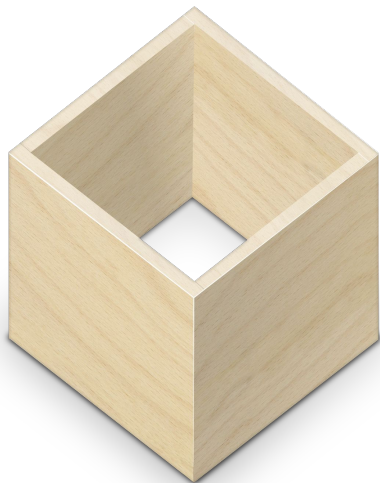




**Automate your Flatpak manifest
updates today!**

Will Thompson
wjt@endlessos.org

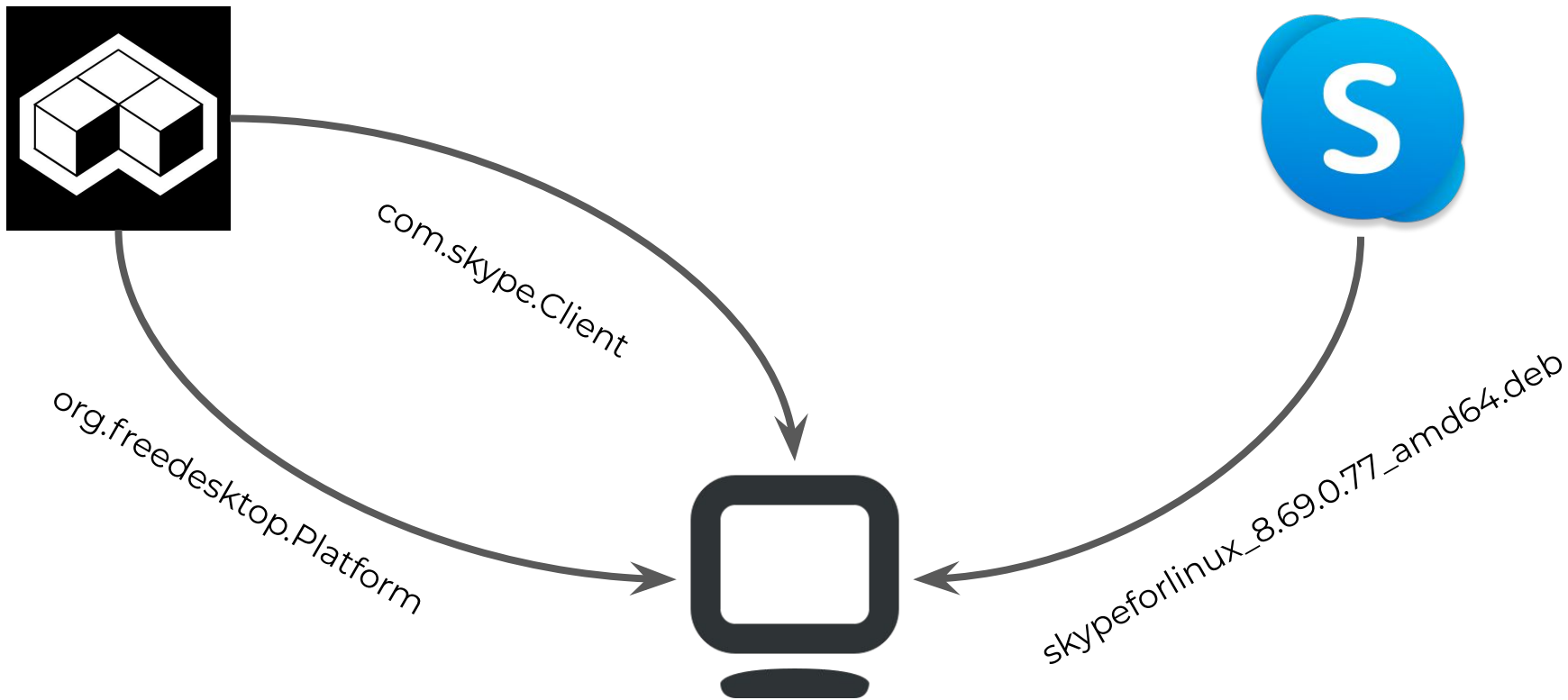
What is Flatpak? What is Flathub?



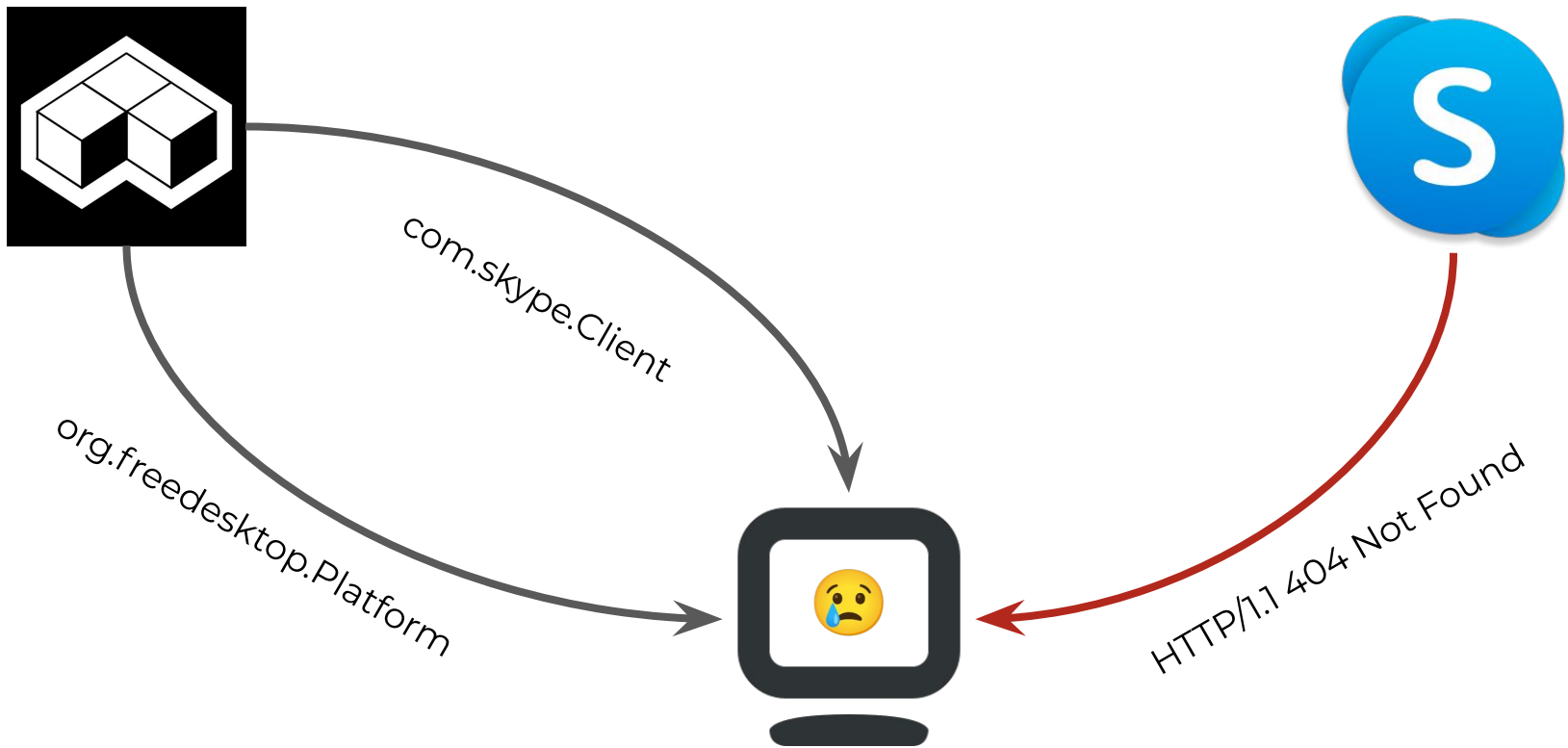
FLATPAK



Extra Data

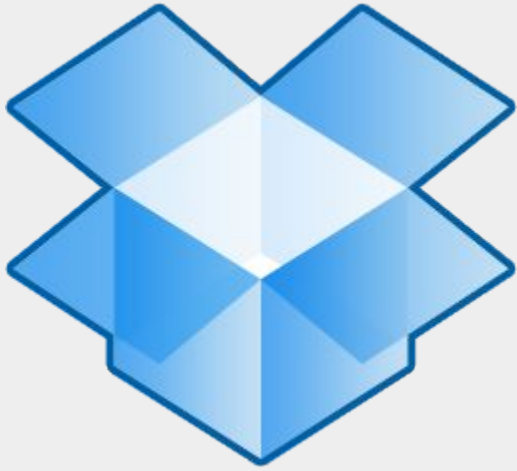


Extra Data gone bad



Endless OS adopts Flatpak (2016)





Bootstrapping the App Center

commit 9c628e051620e1f845eaf5953354414cc1a0d00e
Author: Nick Richards <nick@endlessm.com>
Date: Thu Jul 19 16:05:44 2018 +0100

Check extra-data for most flathub repos

diff --git a/ci-integration/jenkins-check-flatpak-external-apps b/ci-integration/jenkins-check-flatpak-external-apps

index 4a0d9e63..cb59c5ed 100755

--- a/ci-integration/jenkins-check-flatpak-external-apps

+++ b/ci-integration/jenkins-check-flatpak-external-apps

@@ -21,6 +21,22 @@ done

```
EXTERNAL_MANIFESTS=(  
    "https://raw.githubusercontent.com/endlessm/eos-google-chrome-app/master/com.google.Chrome.json"  
    "https://raw.githubusercontent.com/endlessm/firefox-flatpak/master/org.mozilla.Firefox.json.in"  
    "https://raw.githubusercontent.com/endlessm/vlc-flatpak/master/org.videolan.VLC.json"  
+    "https://raw.githubusercontent.com/flathub/com.anydesk.Anydesk/master/com.anydesk.Anydesk.json"  
+    "https://raw.githubusercontent.com/flathub/com.axosoft.GitKraken/master/com.axosoft.GitKraken.json"  
+    "https://raw.githubusercontent.com/flathub/com.discordapp.Discord/master/com.discordapp.Discord.json"  
+    "https://raw.githubusercontent.com/flathub/com.dropbox.Client/master/com.dropbox.Client.json"  
+    "https://raw.githubusercontent.com/flathub/com.google.AndroidStudio/master/com.google.AndroidStudio.json"  
+    "https://raw.githubusercontent.com/flathub/com.jagex.RuneScape/master/com.jagex.RuneScape.json"  
+    "https://raw.githubusercontent.com/flathub/com.remarkable.reMarkable/master/com.remarkable.reMarkable.json"  
+    "https://raw.githubusercontent.com/flathub/com.skype.Client/master/com.skype.Client.json"  
+    "https://raw.githubusercontent.com/flathub/com.slack.Slack/master/com.slack.Slack.json"  
+    "https://raw.githubusercontent.com/flathub/com.spotify.Client/master/com.spotify.Client.json"  
+    "https://raw.githubusercontent.com/flathub/com.sublimetext.three/master/com.sublimetext.three.json"  
+    "https://raw.githubusercontent.com/flathub/com.viber.Viber/master/com.viber.Viber.json"  
+    "https://raw.githubusercontent.com/flathub/com.visualstudio.code/master/com.visualstudio.code.json"  
+    "https://raw.githubusercontent.com/flathub/io.exodus.Exodus/master/io.exodus.Exodus.json"  
+    "https://raw.githubusercontent.com/flathub/org.geogebra.GeoGebra/master/org.geogebra.GeoGebra.json"  
+    "https://raw.githubusercontent.com/flathub/us.zoom.Zoom/master/us.zoom.Zoom.json"  
)
```

Update dropbox.tar.gz #35

[Edit](#)[Open with ▾](#)

Closed

eos-shell-build wants to merge 1 commit into [flathub:master](#) from [eos-shell-build:update-1ee8659](#) 

Conversation 3



Commits 1



Checks 0



Files changed 1

+3 -3

Changes from all commits ▾ File filter ▾ Jump to ▾

0 / 1 files viewed

[Review changes ▾](#)

▼ 6 com.dropbox.Client.json

☐ Viewed ...

@@ -96,9 +96,9 @@

96	96	"only-arches": [
97	97	"x86_64"
98	98	],
99	-	"url": "https://clientupdates.dropboxstatic.com/dbx-releng/client/dropbox-lnx.x86_64-74.4.115.tar.gz",
100	+	"sha256": "ecaecd8e3a6f398f2715392495711552a589ded46f6e516a69875da291ba9ae7",
101	-	"size": 92314519,
	99 +	"url": "https://clientupdates.dropboxstatic.com/dbx-releng/client/dropbox-lnx.x86_64-75.4.141.tar.gz",
	100 +	"sha256": "d5bf81eb56b7b005a186b1b19d5aff44dc88a0b617433e0ff232f810ac0f0b70",
	101 +	"size": 92513126,
102	102	"x-checker-data": {
103	103	"type": "rotating-url",
104	104	"url": "https://www.dropbox.com/download?plat=lnx.x86_64"



Update zoom.tar.xz to 3.0.309708.1027 #44

[Open with](#)

Closed

flathubbot wants to merge 1 commit into [master](#) from [update-341eb01](#) Conversation **2** Commits **1** Checks **0** Files changed **2****+4 -3** Changes from **all commits** File filter Jump to

0 / 2 files viewed

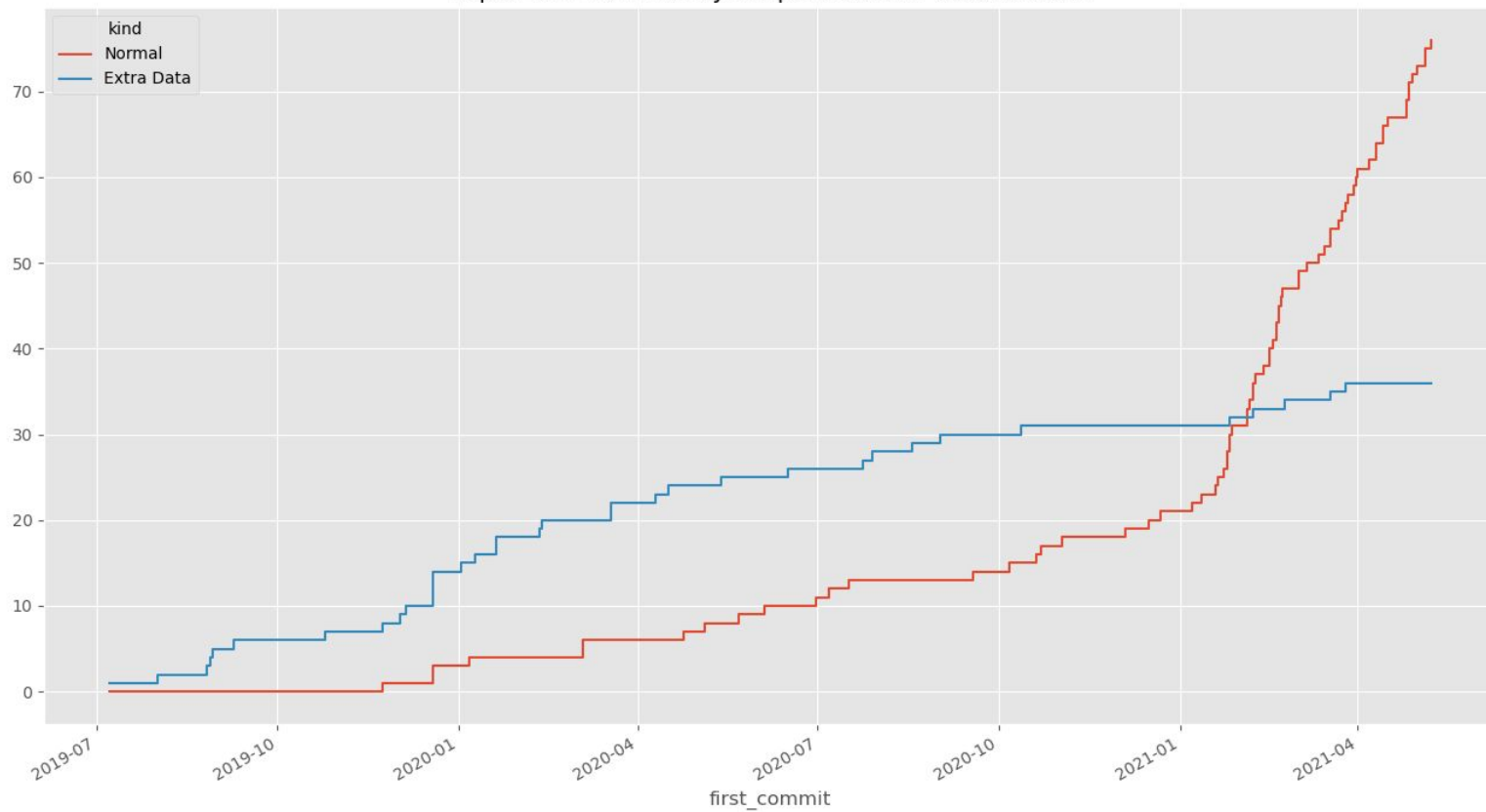
[Review changes](#) **1** us.zoom.Zoom.appdata.xml ☐ Viewed

		@@ -24,6 +24,7 @@
24	24	</screenshot>
25	25	</screenshots>
26	26	<releases>
27	+	<release version="3.0.309708.1027" date="2019-10-28"/>
27	28	<release version="3.0.306796.1020" date="2019-10-21"/>
28	29	<release version="3.0.303290.1010" date="2019-10-11"/>
29	30	<release version="3.0.301026.0930" date="2019-10-01"/>

6 us.zoom.Zoom.json ☐ Viewed

		@@ -73,9 +73,9 @@
73	73	"only-arches": [
74	74	"x86_64"
75	75	],
76	-	"url": "https://d11yldzmag5yn.cloudfront.net/prod/3.0.306796.1020/zoom_x86_64.tar.xz",
77	-	"sha256": "bedf4ef545a15036fb803c356e4522ce013baa079af4f247af8e331bfd1d095a",
78	-	"size": 70668088,
76	+	"url": "https://d11yldzmag5yn.cloudfront.net/prod/3.0.309708.1027/zoom_x86_64.tar.xz",
77	+	"sha256": "8696cdabbdad5b65954c80d2d59f580c71063f0da74867db0e63e8cb16ad163c",
78	+	"size": 70665364,
79	79	"x-checker-data": {
80	80	"type": "rotating-url",
81	81	"url": "https://zoom.us/client/latest/zoom_x86_64.tar.xz",

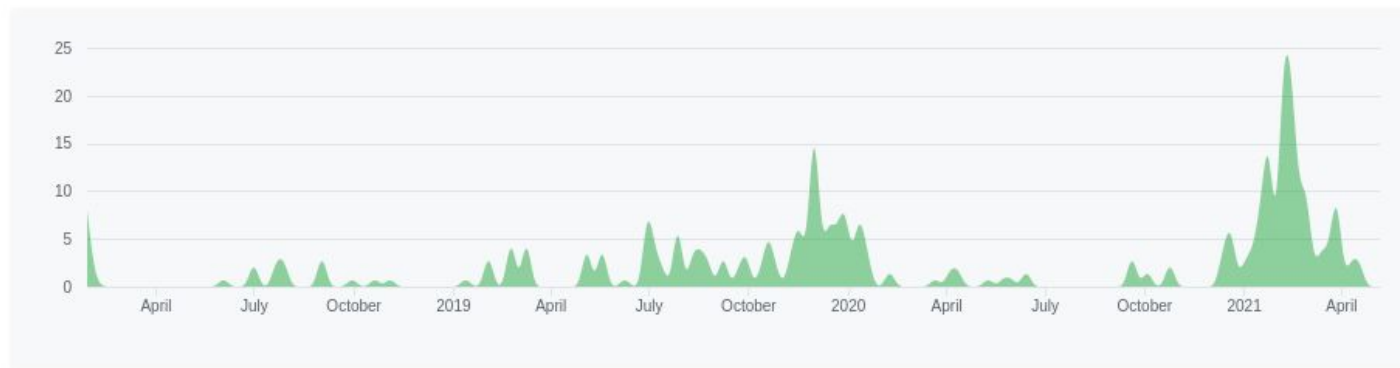
Repos with Commits by Flatpak External Data Checker



Jan 28, 2018 – May 7, 2021

Contributions: Commits ▾

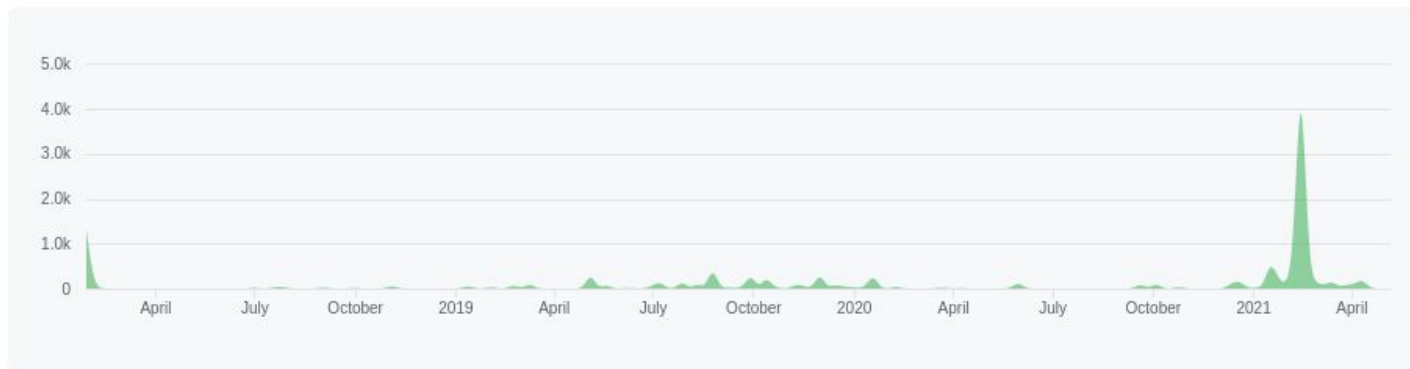
Contributions to master, excluding merge commits and bot accounts



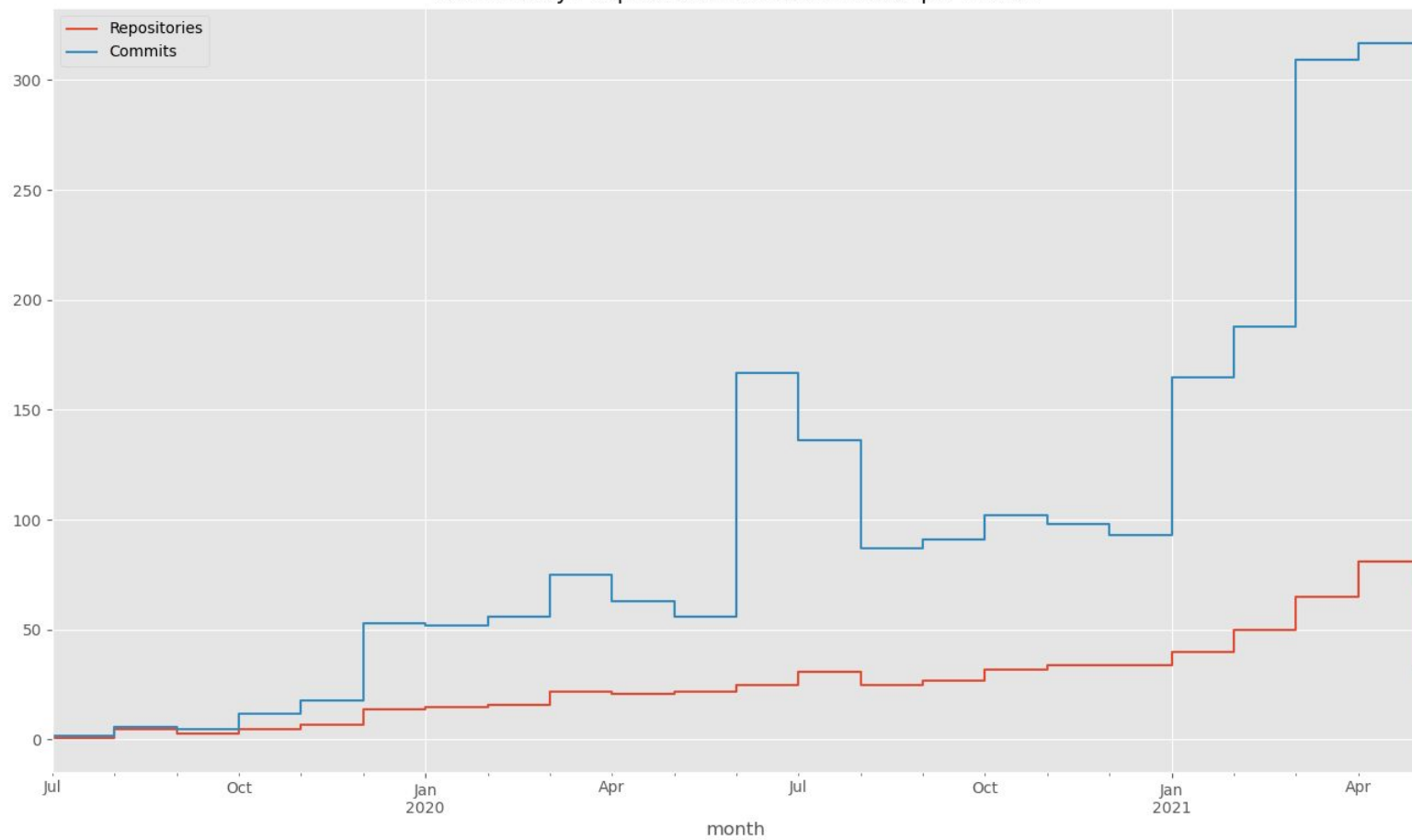
Jan 28, 2018 – May 7, 2021

Contributions: Additions ▾

Contributions to master, excluding merge commits and bot accounts

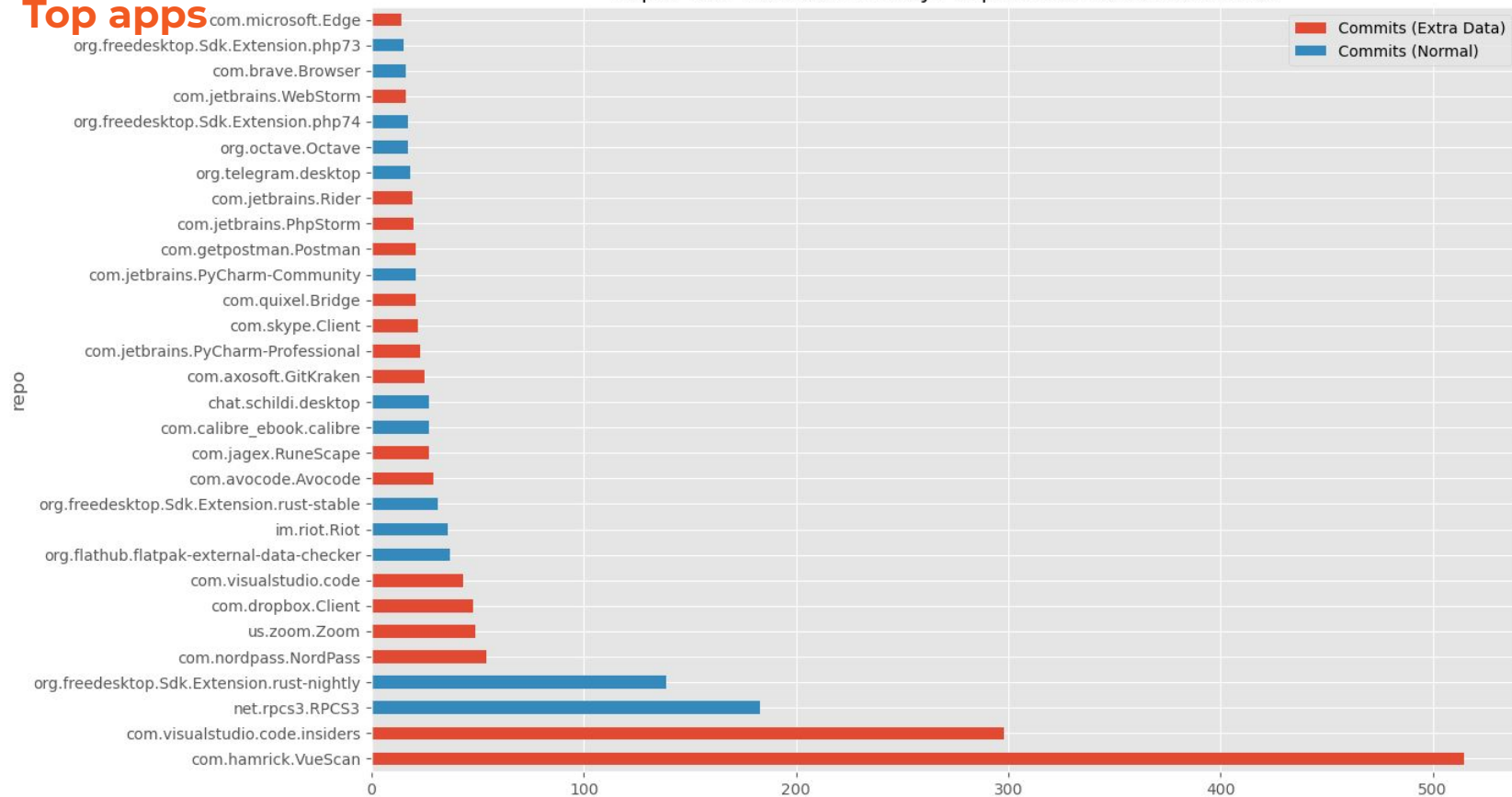


Commits by Flatpak External Data Checker per month

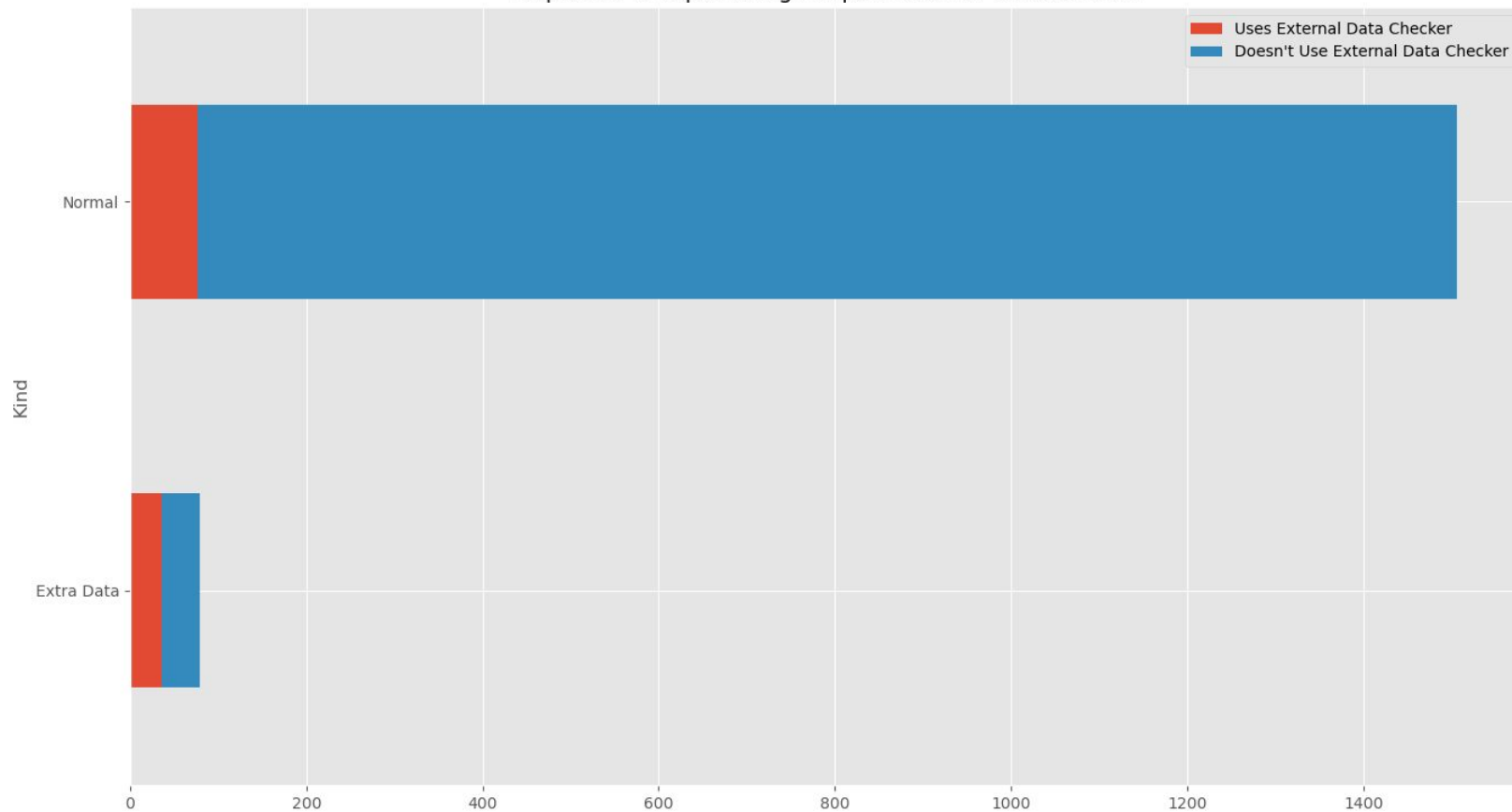


Top apps

Repos with most commits by Flatpak External Data Checker



Proportion of repos using Flatpak External Data Checker



Update chromium-90.0.4430.85.tar.xz to 90.0.4430.93 #101

[Edit](#)[Open with ▾](#)

 Merged **refi64** merged 1 commit into `master` from `update-482f744`  12 days ago

[Conversation](#) 4[Commits](#) 1[Checks](#) 0[Files changed](#) 2**+3 -2** 

Changes from **all commits** ▾ **File filter** ▾ **Jump to** ▾ 

0 / 2 files viewed [Review changes ▾](#)

  1  **org.chromium.Chromium.metainfo.xml** 

☐ Viewed 

		 -26,6 +26,7 @@
26	26	</screenshot>
27	27	</screenshots>
28	28	<releases>
29	+	<release version="90.0.4430.93" date="2021-04-27"/>
29	30	<release version="90.0.4430.85" date="2021-04-20"/>
30	31	<release version="90.0.4430.72" date="2021-04-14"><url>https://chromereleases.googleblog.com/2021/04/stable-channel-update-for-desktop_14.html</url>
31	32	<release version="89.0.4389.128" date="2021-04-14"/>

  4  **org.chromium.Chromium.yaml** 

☐ Viewed 

		 -176,8 +176,8 @@ modules:
176	176	- ./install.sh
177	177	sources:
178	178	- type: archive
179	-	url: https://commondatastorage.googleapis.com/chromium-browser-official/chromium-90.0.4430.85.tar.xz
180	-	sha256: 01c5594d4b7eaa67e00b4fa16ae0c9d35ec5917467abd387ba1b5cc332d44922
179	+	url: https://commondatastorage.googleapis.com/chromium-browser-official/chromium-90.0.4430.93.tar.xz
180	+	sha256: 532ec75f4e08384fe2fb17b69af9210103379ee212dbf0bf081bdc5d4eca357e
181	181	x-checker-data:
182	182	type: anitya
183	183	project-id: 13344

How do you use it?

Rotating URL

```
{
  "type": "extra-data",
  "filename": "zoom.tar.xz",
  "only-arches": [
    "x86_64"
  ],
  "url": "https://cdn.zoom.us/prod/5.6.16888.0424/zoom_x86_64.tar.xz" ,
  "sha256": "7705fc77017cc638ecbc94e30682ec884ea0d2a5fe2ff74a35e5592ab73efef9" ,
  "size": 51534688,
  "x-checker-data": {
    "type": "rotating-url",
    "url": "https://zoom.us/client/latest/zoom_x86_64.tar.xz" ,
    "pattern": "https://.*?/prod/([^\s]+)/zoom_x86_64.tar.xz"
  }
}
```

AppImage

```
sources:
```

```
- type: extra-data
```

```
filename: UnityHubSetup.AppImage
```

```
url: https://public-cdn.cloud.unity3d.com/hub/prod/UnityHub.AppImage
```

```
sha256: 3a28930395f135834294f8fdeb70dbe86515d7092eed5695ce973c143f6cf948
```

```
size: 80621214
```

Anitya

```
- type: archive
url: https://commondatastorage.googleapis.com/chromium-browser-official/chromium-90.0.4430.72.tar.xz
sha256: a5cc88ca8fffac21ec4d1646980f698dfb6f388a225dd7a2c5a3d252a4098943
x-checker-data:
  type: anitya
  project-id: 13344
  stable-only: true
  url-template: https://commondatastorage.googleapis.com/chromium-browser-official/chromium-$version.tar.xz
```

JSON

```
{
  "type": "git",
  "url": "https://github.com/telegramdesktop/tdesktop.git" ,
  "tag": "v2.7.5",
  "commit": "f1a9884011ca3684afd36469ba0c439b17fc0927" ,
  "x-checker-data": {
    "type": "json",
    "url": "https://api.github.com/repos/telegramdesktop/tdesktop/releases" ,
    "tag-query": "first | .tag_name" ,
    "timestamp-query": "first | .published_at" ,
    "version-query": "$tag | sub(\"^[vV]\"; \"\")"
  }
}
```

Git

```
{  
  "type": "git",  
  "url": "https://github.com/LudovicRousseau/PCSC.git" ,  
  "tag": "pcsc-1.9.0",  
  "commit": "e796a0f12fbefa459bff0d25e27089615fa91f21" ,  
  "x-checker-data": {  
    "type": "git",  
    "tag-pattern": "^pcsc-([\\d.]+)$"  
  }  
}
```

Automerge

```
# flathub.json  
{  
  "automerge-flathubbot-prs" : true  
}
```

Run it yourself (with Flatpak)

```
$ flatpak install flathub org.flathub.flatpak-external-data-checker
$ cd src/flathub/com.example.Foo
$ flatpak run --filesystem=`pwd` \
    org.flathub.flatpak-external-data-checker \
    --edit-only \
    com.example.Foo.json
```

Run it yourself (with Podman or Docker)

```
$ cd src/flathub/com.example.Foo
$ podman run --rm -it -v `pwd`:`pwd` \
    ghcr.io/flathub/flatpak-external-data-checker:latest \
    --edit-only \
    com.example.Foo.yaml
```

<https://github.com/flathub/flatpak-external-data-checker>

