

# Template for .Rmd

## Contents

/home/jim/code/pkg\_yt\_api/exclude/011\_playlists.Rmd

— PURPOSE — given a channel\_id , return list of all playlists and save to data/

---

```
if (!exists("api")) api <- get_api_codes()
if (!exists("l")) l <- get_typical_values()
base_url <- "https://www.googleapis.com/youtube/v3/playlists"
```

## Auth\_code (should not be NULL)

Need to test

```
auth.code <- getOption("auth.code")
auth.code
## <Token>
## <oauth_endpoint>
## authorize: https://accounts.google.com/o/oauth2/auth
## access: https://accounts.google.com/o/oauth2/token
## validate: https://www.googleapis.com/oauth2/v1/tokeninfo
## revoke: https://accounts.google.com/o/oauth2/revoke
## <oauth_app> google
## key: 465675654792-3j12en81utfhor0a1q96bkpmeesenr2f.apps.googleusercontent.com
## secret: <hidden>
## <credentials> access_token, expires_in, refresh_token, scope, token_type, id_token
## ---
```

## Build query

```
query <- NULL
query <- list(
  part="snippet",
  channelId = l$channelId,
  maxResults = l$maxResults,
  fields=paste(sep=",",
    "nextPageToken",
    "items(id,snippet(title,description,publishedAt))"
  ),
  key = api$api_key,
  pageToken = NULL)
query
## $part
## [1] "snippet"
##
## $channelId
## [1] "UC1B5qWyXejlAwwkDAzJis-Q"
##
```

```
## $maxResults
## [1] 50
##
## $fields
## [1] "nextPageToken,items(id,snippet(title,description,publishedAt))"
##
## $key
## [1] "AIzaSyBIpR4Wee8ZvAiofh41leZvCj7ReVuXRXE"
##
## $pageToken
## NULL
```

## check

```
r <- httr::HEAD(base_url,
  query = query,
  config = httr::config( token = auth.code))
r
## Response [https://www.googleapis.com/youtube/v3/playlists?part=snippet&channelId=UC1B5qWyXejlAwwkDAzJis]
##   Date: 2021-06-18 21:11
##   Status: 404
##   Content-Type: text/html
## <EMPTY BODY>
```

## HELPER:

More batches? \* Helper function: \* Get next page token \* Run GET again, return next r

```
get_batch <- function() {
  r <- httr::GET(base_url,
    query = query,
    config = httr::config(token = auth.code))  %>%
  httr::stop_for_status()
}
```

From r, process playlists \* Helper function \* Process comments into tibble \* Rbind with prior batches, return

```
process_playlists <- function(r, playlists = tibble::tibble()) {
  json_content <- get_json(r)
  next_playlists <- cbind(playlistId = json_content$items$id,
    json_content$items$snippet)
  next_playlists <- tibble::as_tibble(next_playlists)
  playlists <- rbind(playlists, next_playlists)
}
```

## get\_batch()

SCOPE? auth\_token? Something fails with auth token # expect > 100 playlists

## Obtain first batch (~50) and put into tibble playlists

```
r <- get_batch()
## Error in httr::GET(base_url, query = query, config = httr::config(token = auth.code)) %>% : Forbidden (HTTP/1.1 403)
playlists <- process_playlists(r)
## No encoding supplied: defaulting to UTF-8.
```

```
## Error: parse error: premature EOF
##
##          (right here) -----^
playlists
## # A tibble: 157 x 4
##   playlistId      title      description date
##   <chr>          <chr>      <chr>      <date>
## 1 PLbcglKxZP5PP2-CwYdZmD0sl5yerwqSqB toDownload    ""      2021-06-12
## 2 PLbcglKxZP5PMNFDAiLLZAJPPBuHyazDOM Rpi            ""      2021-02-03
## 3 PLbcglKxZP5PNZeyJkATu1fsqLOGpVotH0 Judy_Stone     ""      2021-01-18
## 4 PLbcglKxZP5P0bp4l9MuHZ4yBEqJ648SFK Marijohn       ""      2021-01-18
## 5 PLbcglKxZP5PN3RCRdidmIxRrB8luufWIW Gloria_DeHaven ""      2020-12-26
## 6 PLbcglKxZP5PMNitr0CS2P2fcjD-UFAFTL Molly_Bee      ""      2020-12-13
## 7 PLbcglKxZP5PMOpZmwRP6VoIoPhSZCJnev Goldie_Hill    ""      2020-12-11
## 8 PLbcglKxZP5PP1R0qGq7RXZjN7_gWCfzyM Rose_Maddox    ""      2020-08-31
## 9 PLbcglKxZP5POA_36EJEkR3yBpr_UtYqdK Betsy_Everett ""      2020-08-28
## 10 PLbcglKxZP5PP2IKPK5f1B1dduhdGL_rc4 Norma_Jean   ""      2020-08-27
## # ... with 147 more rows
```

if more batches ...

```
httr::content(r)$nextPageToken
## NULL

while ( !is.null(httr::content(r)$nextPageToken )) {
  query$pageToken <- httr::content(r)$nextPageToken
  r <- get_batch()
  playlists <- process_playlists(r, playlists)
} # end loop
playlists
## # A tibble: 157 x 4
##   playlistId      title      description date
##   <chr>          <chr>      <chr>      <date>
## 1 PLbcglKxZP5PP2-CwYdZmD0sl5yerwqSqB toDownload    ""      2021-06-12
## 2 PLbcglKxZP5PMNFDAiLLZAJPPBuHyazDOM Rpi            ""      2021-02-03
## 3 PLbcglKxZP5PNZeyJkATu1fsqLOGpVotH0 Judy_Stone     ""      2021-01-18
## 4 PLbcglKxZP5P0bp4l9MuHZ4yBEqJ648SFK Marijohn       ""      2021-01-18
## 5 PLbcglKxZP5PN3RCRdidmIxRrB8luufWIW Gloria_DeHaven ""      2020-12-26
## 6 PLbcglKxZP5PMNitr0CS2P2fcjD-UFAFTL Molly_Bee      ""      2020-12-13
## 7 PLbcglKxZP5PMOpZmwRP6VoIoPhSZCJnev Goldie_Hill    ""      2020-12-11
## 8 PLbcglKxZP5PP1R0qGq7RXZjN7_gWCfzyM Rose_Maddox    ""      2020-08-31
## 9 PLbcglKxZP5POA_36EJEkR3yBpr_UtYqdK Betsy_Everett ""      2020-08-28
## 10 PLbcglKxZP5PP2IKPK5f1B1dduhdGL_rc4 Norma_Jean   ""      2020-08-27
## # ... with 147 more rows
```

save playlists

BE SURE data/ exists!

```
saveRDS(playlists, file=here("data", "playlists.RDS"))
```

read playlists

```
x <- readRDS(here("data", "playlists.RDS"))
x
```

	playlistId	title	description	date
	<chr>	<chr>	<chr>	<date>
## 1	PLbcglKxZP5PP2-CwYdZmD0sl5yerwqSqB	toDownload	""	2021-06-12
## 2	PLbcglKxZP5PMNFDAiLLZAJPPBuHyazDOM	Rpi	""	2021-02-03
## 3	PLbcglKxZP5PNZeyJkATu1fsqLOGpVotH0	Judy_Stone	""	2021-01-18
## 4	PLbcglKxZP5P0bp4l9MuHZ4yBEqJ648SFK	Marijohn	""	2021-01-18
## 5	PLbcglKxZP5PN3RCRdidmIxRrB8luufWIW	Gloria_DeHaven	""	2020-12-26
## 6	PLbcglKxZP5PMNitr0CS2P2fcjD-UFAFTL	Molly_Bee	""	2020-12-13
## 7	PLbcglKxZP5PMOpZmwrP6VoIoPhSZCJnev	Goldie_Hill	""	2020-12-11
## 8	PLbcglKxZP5PP1R0qGq7RXZjN7_gWCfzyM	Rose_Maddox	""	2020-08-31
## 9	PLbcglKxZP5P0A_36EJEkR3yBpr-UtYqdK	Betsy_Everett	""	2020-08-28
## 10	PLbcglKxZP5PP2IKPK5f1B1dduhdGL_rc4	Norma_Jean	""	2020-08-27

## # ... with 147 more rows

pretty the date.

```
# google stores dates as ISO 8601, as string
# why need TWO lubridate commands to retrieve simple date?
playlists <- playlists %>%
  dplyr::mutate(date= lubridate::as_date(
    lubridate::as_datetime(publishedAt))) %>%
  dplyr::select(-c(publishedAt))
## Error: Problem with `mutate()` column `date`.
## i `date = lubridate::as_date(lubridate::as_datetime(publishedAt))`.
## x error in evaluating the argument 'x' in selecting a method for function 'as_date': error in evaluating
```

```
playlists
```

	playlistId	title	description	date
	<chr>	<chr>	<chr>	<date>
## 1	PLbcglKxZP5PP2-CwYdZmD0sl5yerwqSqB	toDownload	""	2021-06-12
## 2	PLbcglKxZP5PMNFDAiLLZAJPPBuHyazDOM	Rpi	""	2021-02-03
## 3	PLbcglKxZP5PNZeyJkATu1fsqLOGpVotH0	Judy_Stone	""	2021-01-18
## 4	PLbcglKxZP5P0bp4l9MuHZ4yBEqJ648SFK	Marijohn	""	2021-01-18
## 5	PLbcglKxZP5PN3RCRdidmIxRrB8luufWIW	Gloria_DeHaven	""	2020-12-26
## 6	PLbcglKxZP5PMNitr0CS2P2fcjD-UFAFTL	Molly_Bee	""	2020-12-13
## 7	PLbcglKxZP5PMOpZmwrP6VoIoPhSZCJnev	Goldie_Hill	""	2020-12-11
## 8	PLbcglKxZP5PP1R0qGq7RXZjN7_gWCfzyM	Rose_Maddox	""	2020-08-31
## 9	PLbcglKxZP5P0A_36EJEkR3yBpr-UtYqdK	Betsy_Everett	""	2020-08-28
## 10	PLbcglKxZP5PP2IKPK5f1B1dduhdGL_rc4	Norma_Jean	""	2020-08-27

## # ... with 147 more rows

```
# example playlistId
playlists$playlistId[[2]]
## [1] "PLbcglKxZP5PMNFDAiLLZAJPPBuHyazDOM"
```

```
print(playlists[,2:4], n=200)
```

```
## # A tibble: 157 x 3
##   title                description      date
##   <chr>                <chr>      <date>
## 1 toDownload          ""        2021-06-12
## 2 Rpi                 ""        2021-02-03
## 3 Judy_Stone          ""        2021-01-18
## 4 Marijohn            ""        2021-01-18
## 5 Gloria_DeHaven      ""        2020-12-26
## 6 Molly_Bee           ""        2020-12-13
## 7 Goldie_Hill         ""        2020-12-11
## 8 Rose_Maddox         ""        2020-08-31
## 9 Betsy_Everett       ""        2020-08-28
## 10 Norma_Jean         ""        2020-08-27
## 11 Jody_Miller        ""        2020-08-27
## 12 Buddy_Johnson      ""        2020-08-26
## 13 teresa_brewer      ""        2020-08-14
## 14 starlets_angels    ""        2020-08-11
## 15 Dionne_Warwick     ""        2020-08-11
## 16 Lonnie_Donegan     ""        2020-08-10
## 17 hillbilly_rockabilly_country ""        2020-08-10
## 18 Jay_Black_and_the_Americans ""        2020-08-09
## 19 Teresa_Brewer      ""        2020-08-07
## 20 ronettes           ""        2020-08-07
## 21 joni_james         ""        2020-07-30
## 22 elivis             ""        2020-07-25
## 23 lana_cantell       ""        2020-07-25
## 24 Ernest_tubbs       ""        2020-07-25
## 25 Evie_Sands         ""        2020-07-25
## 26 Loretta_Lynn       ""        2020-07-23
## 27 Teresa_Brewer      ""        2020-07-19
## 28 Jackie_DeShannon   ""        2020-07-19
## 29 Connie_Smith       ""        2020-07-16
## 30 Ottilie_Patterson_plus__Chris_Barber ""        2020-07-11
## 31 Mavis_Rivers       ""        2020-07-09
## 32 Sue_Raney          ""        2020-07-09
## 33 Annette_Funicello  ""        2020-07-09
## 34 Jacky_Robin_Ward   ""        2020-06-27
## 35 Donna_Loren        ""        2020-06-22
## 36 crosh              ""        2020-06-16
## 37 Sandy_Stewart      ""        2020-06-03
## 38 Skeeter_Davis      ""        2020-05-21
## 39 muppets            ""        2020-05-10
## 40 aussie             ""        2020-05-09
## 41 toSpeech           ""        2020-04-14
## 42 connie_francis     ""        2020-03-21
## 43 music_longer_pieces ""        2020-01-09
## 44 LOOK_at_audience  ""        2020-01-01
## 45 Gordon_MacRae      ""        2019-12-01
## 46 doris_day          ""        2019-11-17
## 47 Eydie_Gorme        ""        2019-11-16
## 48 r_next             ""        2019-11-08
## 49 50s-early          ""        2019-11-04
## 50 50s-rock or duo wop ""        2019-10-26
## 51 sayaka             ""        2019-10-26
## 52 Liberace           ""        2019-10-17
## 53 dinah_shore        ""        2019-10-15
## 54 1940s - female     ""        2019-10-12
## 55 gospel             ""        2019-10-03
## 56 SPEECH_toDownload  ""        2019-07-21
## 57 move_clips         ""        2019-07-12
```

## 58	betty hutton	""	2019-07-09
## 59	markus haider	""	2019-06-18
## 60	Koreader	""	2019-06-17
## 61	Calibre	""	2019-05-15
## 62	ava_gardner	""	2019-04-29
## 63	teeth	""	2019-04-22
## 64	alma_cogan	""	2019-04-19
## 65	brenda_lee	""	2019-04-17
## 66	bash_zsh	""	2019-04-13
## 67	dodie_stevens	""	2019-04-13
## 68	collins_kids	""	2019-04-13
## 69	Rockabilly	""	2019-04-02
## 70	classical	""	2019-03-26
## 71	haskell	""	2019-03-02
## 72	Vera Lynn	""	2018-12-21
## 73	zotero	""	2018-10-17
## 74	Motog	""	2018-07-23
## 75	paul whiteman orchestra	""	2018-07-17
## 76	Honda	""	2018-02-16
## 77	Dick and dee dee	""	2017-12-08
## 78	voip	""	2017-11-03
## 79	honda	""	2017-07-18
## 80	d4d	""	2017-07-12
## 81	git	""	2017-06-25
## 82	emacs	""	2017-02-07
## 83	great_performance	""	2017-01-20
## 84	eReader	""	2017-01-05
## 85	debbie reynolds	""	2016-12-29
## 86	Peggy_Lee	""	2016-11-15
## 87	stats_prob	""	2016-10-25
## 88	reno	""	2016-10-10
## 89	tech_carHacking	""	2016-10-05
## 90	linux	""	2016-09-25
## 91	tech_c	""	2016-09-15
## 92	tech_tutorials_misc	""	2016-09-13
## 93	tech_python	""	2016-08-26
## 94	tech_g-drive	""	2016-08-26
## 95	Food_make_from_scratch	""	2016-08-24
## 96	music_linda_scott	""	2016-08-24
## 97	android_bloat	""	2016-08-18
## 98	cooking_vinegar	""	2016-08-12
## 99	micro_ARM	""	2016-08-02
## 100	microcontroller	""	2016-08-01
## 101	tech_python_youtube_api	""	2016-07-28
## 102	o-ring	""	2016-07-27
## 103	Detroit	""	2016-07-26
## 104	vim	""	2016-07-23
## 105	Windows_remove	""	2016-07-22
## 106	python + bash	""	2016-07-21
## 107	Android_Root	""	2016-07-18
## 108	tech_github	""	2016-07-17
## 109	Tablet	""	2016-07-16
## 110	Exercise-row	""	2016-07-05
## 111	Js-intermed	""	2016-07-04
## 112	js-Nodejs	""	2016-06-29
## 113	alan freed	""	2016-06-28
## 114	Documentary	""	2016-06-27
## 115	patti page	""	2016-05-15
## 116	tech_android	""	2016-04-22
## 117	urine	""	2016-04-19
## 118	Biology	""	2016-04-16

## 119	Mystuff	""	2016-04-15
## 120	music_film_scores	""	2016-03-27
## 121	anita bryant	""	2016-03-24
## 122	Random walk	""	2016-03-14
## 123	Copy_my_other_playlists_into_1_giant_list	""	2016-03-01
## 124	50s - late - female	""	2016-02-28
## 125	music_chris clark	""	2016-02-28
## 126	Lulu	""	2016-02-06
## 127	bernie	""	2016-02-05
## 128	Photon IoT	""	2016-01-19
## 129	New christy	""	2016-01-04
## 130	Classical	""	2015-12-27
## 131	60s - early - femaleVoices	""	2015-12-23
## 132	eReader	""	2015-11-23
## 133	history	""	2015-08-08
## 134	dusty-bbc	""	2015-04-03
## 135	cooking	""	2015-01-17
## 136	dusty	""	2015-01-08
## 137	french	""	2014-04-20
## 138	Helen Schapiro	""	2014-03-15
## 139	Digestion_Health_Nutrition	""	2014-03-09
## 140	exercise	""	2013-11-23
## 141	Misc -	""	2013-10-21
## 142	pop - 60s	""	2013-10-19
## 143	GaleGarnett	""	2011-09-08
## 144	Calm Down!	""	2011-08-03
## 145	china	""	2010-01-03
## 146	The Seekers	""	2008-08-20
## 147	phil ochs	"phil ochs"	2008-05-04
## 148	politics	"politics"	2008-05-02
## 149	all music	"music"	2008-04-30
## 150	music_kingston trio	"kingston trio"	2008-04-30
## 151	joan baez	"joan baez"	2007-12-31
## 152	music_ppm	"ppm"	2007-07-22
## 153	sam cooke	"sam cooke"	2007-06-23
## 154	all	"all"	2007-06-20
## 155	M_petula	"petula"	2007-04-09
## 156	Favorites	""	2006-12-03
## 157	soul	"afdsa"	2006-12-03