

Exam3

Thomas Boswell

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#Exam 3

Questions

1. Clear Environment

```
#clear environment  
rm(list = ls(all=TRUE))
```

2. Download data on female labor force using WDI Package

```
#call WDI library  
library(WDI)  
  
## Warning: package 'WDI' was built under R version 4.0.4  
  
#download female labor force part, save dataframe as female_lfp  
female_lfp <- WDI(country = "all", indicator = c("SL.TLF.CACT.FE.ZS"),  
                  start = 2010,  
                  end = 2015,  
                  extra = FALSE,  
                  cache = NULL)
```

3. Rename variable

```
#rename the female labor force variable to flfp using setnames in data.table package  
library(data.table)  
setnames(female_lfp, "SL.TLF.CACT.FE.ZS", "flfp" )
```

4. Collapse the female_lfp data by mean value of flfp for each country

```
#load tidyverse  
library(tidyverse)  
  
## Warning: package 'tidyverse' was built under R version 4.0.5  
  
## -- Attaching packages ----- tidyverse  
1.3.1 --  
  
## v ggplot2 3.3.3      v purrr  0.3.4  
## v tibble  3.1.2      v dplyr  1.0.7  
## v tidyr   1.1.3      v stringr 1.4.0  
## v readr   1.4.0      v forcats 0.5.1  
  
## Warning: package 'tibble' was built under R version 4.0.5
```

```
## Warning: package 'tidyr' was built under R version 4.0.5
## Warning: package 'dplyr' was built under R version 4.0.5
## Warning: package 'forcats' was built under R version 4.0.5

## -- Conflicts -----
tidyverse_conflicts() --
## x dplyr::between() masks data.table::between()
## x dplyr::filter() masks stats::filter()
## x dplyr::first() masks data.table::first()
## x dplyr::lag() masks stats::lag()
## x dplyr::last() masks data.table::last()
## x purrr::transpose() masks data.table::transpose()

#collapse data by mean of flfp for each country, keep ISO-2 and country name variables
collapsed_flfp <- female_lfp %>%
  group_by(country, iso2c)%>%
  summarise(mean_flfp = mean(flfp, na.rm=TRUE))

## `summarise()` has grouped output by 'country'. You can override using the
## `.groups` argument.
```

5. Use R to show countries with mean_flfp below 15%

#use filter to find countries with mean below 15%. Figure represents percentage

```
collapsed_flfp %>%
  filter(mean_flfp < 15)

## # A tibble: 5 x 3
## # Groups:   country [5]
##   country          iso2c mean_flfp
##   <chr>            <chr>    <dbl>
## 1 Iran, Islamic Rep. IR      14.5
## 2 Iraq             IQ      12.7
## 3 Jordan           JO      14.5
## 4 Syrian Arab Republic SY     13.7
## 5 Yemen, Rep.      YE       7.61
```

6. Present a map of polygon data using the world borders shape file and the collapsed_flfp (several steps)

#Load necessary mapping libraries

```
library(rio)
library(tidyverse)
library(rlang)

## Warning: package 'rlang' was built under R version 4.0.5

##
## Attaching package: 'rlang'
```

```
## The following objects are masked from 'package:purrr':
##
##   %@%, as_function, flatten, flatten_chr, flatten_dbl, flatten_int,
##   flatten_lgl, flatten_raw, invoke, list_along, modify, prepend,
##   splice

## The following object is masked from 'package:data.table':
##
##   :=

library(google sheets4)

## Warning: package 'google sheets4' was built under R version 4.0.5

library(labelled)

## Warning: package 'labelled' was built under R version 4.0.5

library(data.table)
library(varhandle)
library(ggrepel)

## Warning: package 'ggrepel' was built under R version 4.0.5

library(geosphere)

## Warning: package 'geosphere' was built under R version 4.0.5

library(rgeos)

## Loading required package: sp

## rgeos version: 0.5-5, (SVN revision 640)
## GEOS runtime version: 3.8.0-CAPI-1.13.1
## Linking to sp version: 1.4-5
## Polygon checking: TRUE

library(viridis)

## Warning: package 'viridis' was built under R version 4.0.5

## Loading required package: viridisLite

## Warning: package 'viridisLite' was built under R version 4.0.5

library(mapview)

## Warning: package 'mapview' was built under R version 4.0.5

library(rnaturalearth)

## Warning: package 'rnaturalearth' was built under R version 4.0.5

library(rnaturalearthdata)
```

```
## Warning: package 'rnaturalearthdata' was built under R version 4.0.5

library(devtools)

## Loading required package: usethis

library(remotes)

##
## Attaching package: 'remotes'

## The following objects are masked from 'package:devtools':
##
##   dev_package_deps, install_bioc, install_bitbucket, install_cran,
##   install_deps, install_dev, install_git, install_github,
##   install_gitlab, install_local, install_svn, install_url,
##   install_version, update_packages

## The following object is masked from 'package:usethis':
##
##   git_credentials

library(raster)

##
## Attaching package: 'raster'

## The following object is masked from 'package:dplyr':
##
##   select

## The following object is masked from 'package:tidyr':
##
##   extract

## The following object is masked from 'package:data.table':
##
##   shift

library(sp)
library(sf)

## Linking to GEOS 3.8.0, GDAL 3.0.4, PROJ 6.3.1

library(rnaturalearthhires) #from github
library(ggsflabel) # from github

##
## Attaching package: 'ggsflabel'

## The following objects are masked from 'package:ggplot2':
##
##   geom_sf_label, geom_sf_text, StatSfCoordinates
```

```

library(Imap)

##
## Attaching package: 'Imap'

## The following object is masked from 'package:purrr':
##
##      imap

#import world borders shape file
world_borders <- st_read("C:/Users/thoma/OneDrive/Desktop/World Shape Files")

## Reading layer `World_Borders' from data source
`C:\Users\thoma\OneDrive\Desktop\World Shape Files' using driver `ESRI
Shapefile'
## Simple feature collection with 246 features and 11 fields
## geometry type:  MULTIPOLYGON
## dimension:      XY
## bbox:           xmin: -180 ymin: -90 xmax: 180 ymax: 83.6236
## geographic CRS: WGS 84

#transform borders
border_transform <- st_transform(world_borders, "+proj=latlong +ellps=WGS84
+datum=WGS84")

#remove world_borders
rm(world_borders)

#add ISO3 code to the collapsed_flfp to prep for merge with border_transform
library(countrycode)

collapsed_flfp$ISO3 <- countrycode(sourcevar = collapsed_flfp$country,
                                   origin = "country.name",
                                   destination = "iso3c",
                                   warn = TRUE)

## Warning in countrycode(sourcevar = collapsed_flfp$country, origin =
"country.name", : Some values were not matched unambiguously: Africa Eastern
and Southern, Africa Western and Central, Arab World, Caribbean small states,
Central Europe and the Baltics, Channel Islands, Early-demographic dividend,
East Asia & Pacific, East Asia & Pacific (excluding high income), East Asia &
Pacific (IDA & IBRD countries), Euro area, Europe & Central Asia, Europe &
Central Asia (excluding high income), Europe & Central Asia (IDA & IBRD
countries), European Union, Fragile and conflict affected situations, Heavily
indebted poor countries (HIPC), High income, IBRD only, IDA & IBRD total, IDA
blend, IDA only, IDA total, Kosovo, Late-demographic dividend, Latin America
& Caribbean, Latin America & Caribbean (excluding high income), Latin America
& the Caribbean (IDA & IBRD countries), Least developed countries: UN
classification, Low & middle income, Low income, Lower middle income, Middle
East & North Africa, Middle East & North Africa (excluding high income),
Middle East & North Africa (IDA & IBRD countries), Middle income, North

```

America, Not classified, OECD members, Other small states, Pacific island small states, Post-demographic dividend, Pre-demographic dividend, Small states, South Asia, South Asia (IDA & IBRD), Sub-Saharan Africa, Sub-Saharan Africa (excluding high income), Sub-Saharan Africa (IDA & IBRD countries), Upper middle income, World

#remove the regional designations to retain only countries. Do this by filtering IS03 = NA

```
collapsed_flfp <-  
  collapsed_flfp %>%  
  dplyr::filter(!(IS03 == "NA"))
```

#subset the collapsed data to remove na where mean_flfp is not available

```
collapsed_flfp2 <- na.omit(subset(collapsed_flfp, select = c("country",  
"mean_flfp", "IS03")))
```

#merge the two datasets by IS03

```
merged_data <- left_join(border_transform, collapsed_flfp2, by = "IS03")
```

#messed up so download new map since I only wanted polygon data from the border transform map download new map with ne_countries

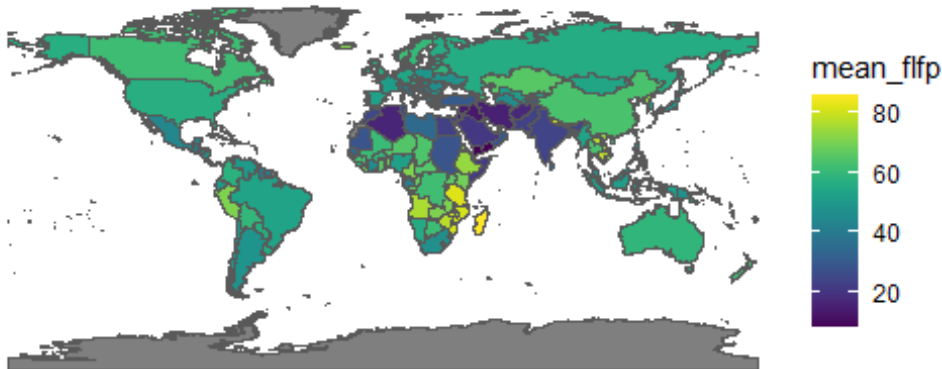
```
world <- ne_countries(scale = "large", returnclass = "sf")
```

#create filled map

```
mean_flfp_map <- ggplot()+  
  geom_sf(data = world )+  
  geom_sf(data = merged_data, aes(fill = mean_flfp))+  
  scale_fill_viridis(option = "viridis")+  
  ggtitle("World Average Female Labor Force Participation Rate by Country,  
2010-2015")+  
  theme_void()
```

```
print(mean_flfp_map)
```

World Average Female Labor Force Participation Rate by Cc



7. Based on the map, it's somewhat surprising to see a cluster of yellow colored avg labor force participation (high) in Madagascar and the southeast coast of Africa. Also after tabling, this was a good exercise and I would wonder if it has to do with high mortality rates of men in these countries and so female labor participation is higher. Could also be cultural where men and women provide at high rates. Could also be an economic necessity. But interest to study. Good exercise.
8. Use r to show the cluster of states mentioned above in the previous question.

```
#filter the countries with high mean_flfp, call df high_mean_flfp
high_mean_flfp <- collapsed_flfp2 %>%
  filter(mean_flfp > 75)
```

```
#table the results to show the countries written out
table(high_mean_flfp$country)
```

```
##
##          Angola          Burundi          Cambodia          Lao PDR
Madagascar
##              1              1              1              1
1
##      Mozambique          Nepal          Rwanda Solomon Islands
Tanzania
##              1              1              1              1
1
```

```
##      Zimbabwe
##      1
```

9. In a shiny app there are three components.

- UI <- fluidPage()
- server <- function(input,output)
- shinyApp(ui, server)

10. Pull Mike D and Mike F report

```
#Load Libraries
```

```
library(tidyverse)
```

```
library(tidytext)
```

```
## Warning: package 'tidytext' was built under R version 4.0.5
```

```
library(knitr)
```

```
library(janeaustenr)
```

```
## Warning: package 'janeaustenr' was built under R version 4.0.5
```

```
library(stringr)
```

```
library(ggplot2)
```

```
library(pdftools)
```

```
## Warning: package 'pdftools' was built under R version 4.0.5
```

```
## Using poppler version 21.04.0
```

```
library(topicmodels)
```

```
## Warning: package 'topicmodels' was built under R version 4.0.5
```

```
library(wordcloud)
```

```
## Warning: package 'wordcloud' was built under R version 4.0.5
```

```
## Loading required package: RColorBrewer
```

```
library(reshape2)
```

```
## Warning: package 'reshape2' was built under R version 4.0.5
```

```
##
```

```
## Attaching package: 'reshape2'
```

```
## The following object is masked from 'package:tidyr':
```

```
##
```

```
##      smiths
```

```
## The following objects are masked from 'package:data.table':
```

```
##
```

```
##      dcast, melt
```

```
library(lubridate, warn.conflicts = FALSE)
```



```
## Warning: package 'lubridate' was built under R version 4.0.5
```

```
library(readr)
```

```
#pull Mike D and Mike F report using pdf_text
```

```
report <- pdf_text(pdf = "https://pdf.usaid.gov/pdf_docs/PA00TNMJ.pdf")
```

11. Convert report to armeniatext

```
#use as.data.frame to create a dataframe, stingsAsFactors = FALSE
```

```
armeniareport <- as.data.frame(report, stringsAsFactors = FALSE)
```

12. Tokenize armenia report, remove stop words

```
#call the stop words data
```

```
data("stop_words")
```

```
#tokenize with unnest_tokens
```

```
tidy_armeniatext <- armeniareport %>%
```

```
  unnest_tokens(word, report)%>%
```

```
  anti_join(stop_words)
```

```
## Joining, by = "word"
```

13. Figure top 5 most used words

```
#use count to figure the top words and sort = TRUE
```

```
tidy_armeniatext %>%
```

```
  count(word, sort=TRUE)
```

```
##           word      n
## 1          law    276
## 2    corruption    242
## 3          rule    206
## 4        armenia    195
## 5     european    105
## 6    political    102
## 7        review     94
## 8      evidence     90
## 9         2018     86
## 10        reform     79
## 11    integrity     77
## 12        systems     76
## 13    countries     73
## 14         2014     71
## 15         2016     70
## 16    judicial     70
## 17         union     67
## 18        reforms     66
## 19             1     61
## 20         legal     60
## 21    journal     58
## 22        civil     57
```

## 23	2015	56
## 24	government	56
## 25	usaid.gov	56
## 26	anti	55
## 27	public	55
## 28	society	55
## 29	institutions	49
## 30	world	48
## 31	europe	47
## 32	2	46
## 33	audit	45
## 34	post	45
## 35	2017	44
## 36	3	44
## 37	capture	43
## 38	governance	43
## 39	2012	42
## 40	democracy	40
## 41	independence	40
## 42	university	40
## 43	audits	39
## 44	2008	38
## 45	press	37
## 46	international	36
## 47	4	35
## 48	eastern	35
## 49	2007	32
## 50	bank	32
## 51	level	32
## 52	report	32
## 53	transition	32
## 54	action	31
## 55	2009	30
## 56	development	30
## 57	including	30
## 58	mendelski	30
## 59	politics	30
## 60	url	30
## 61	bulgaria	29
## 62	2010	28
## 63	2013	28
## 64	actors	28
## 65	communist	28
## 66	romania	28
## 67	commission	27
## 68	process	27
## 69	system	27
## 70	2011	26
## 71	country	26
## 72	georgia	26

## 73	information	26
## 74	figure	25
## 75	accountability	24
## 76	https	24
## 77	social	24
## 78	2005	23
## 79	citizens	23
## 80	2002	22
## 81	2006	22
## 82	5	22
## 83	economic	22
## 84	education	22
## 85	financial	22
## 86	measures	22
## 87	power	22
## 88	specific	22
## 89	2019	21
## 90	agencies	21
## 91	associations	21
## 92	based	21
## 93	central	21
## 94	eu	21
## 95	judiciary	21
## 96	legislation	21
## 97	monitoring	21
## 98	successful	21
## 99	terms	21
## 100	effective	20
## 101	private	20
## 102	progress	20
## 103	transparency	20
## 104	york	20
## 105	al	19
## 106	american	19
## 107	cambridge	19
## 108	chamber	19
## 109	clientelism	19
## 110	judges	19
## 111	pp	19
## 112	procurement	19
## 113	rights	19
## 114	soviet	19
## 115	collective	18
## 116	context	18
## 117	court	18
## 118	economics	18
## 119	ed	18
## 120	enforcement	18
## 121	ensure	18
## 122	success	18

## 123	usaid	18
## 124	2003	17
## 125	6	17
## 126	control	17
## 127	council	17
## 128	firms	17
## 129	institutional	17
## 130	money	17
## 131	note	17
## 132	practices	17
## 133	randomized	17
## 134	sector	17
## 135	studies	17
## 136	ukraine	17
## 137	accession	16
## 138	beneficial	16
## 139	buying	16
## 140	change	16
## 141	corrupt	16
## 142	courts	16
## 143	de	16
## 144	domestic	16
## 145	organizations	16
## 146	science	16
## 147	approaches	15
## 148	benefits	15
## 149	ethics	15
## 150	external	15
## 151	impact	15
## 152	local	15
## 153	politicians	15
## 154	program	15
## 155	region	15
## 156	support	15
## 157	bar	14
## 158	chapter	14
## 159	democratization	14
## 160	elites	14
## 161	extent	14
## 162	finan	14
## 163	focus	14
## 164	human	14
## 165	include	14
## 166	influence	14
## 167	literature	14
## 168	measure	14
## 169	norms	14
## 170	policy	14
## 171	recent	14
## 172	relevant	14

## 173	tax	14
## 174	activity	13
## 175	approach	13
## 176	bottom	13
## 177	comparative	13
## 178	compliance	13
## 179	democratic	13
## 180	efforts	13
## 181	office	13
## 182	ownership	13
## 183	party	13
## 184	period	13
## 185	police	13
## 186	priorities	13
## 187	sequencing	13
## 188	technical	13
## 189	time	13
## 190	united	13
## 191	18	12
## 192	2004	12
## 193	administration	12
## 194	behavior	12
## 195	benchmarks	12
## 196	bribery	12
## 197	bugaric	12
## 198	business	12
## 199	codes	12
## 200	contracts	12
## 201	disclosure	12
## 202	economy	12
## 203	ferraz	12
## 204	fukuyama	12
## 205	indicators	12
## 206	laws	12
## 207	movement	12
## 208	national	12
## 209	patronage	12
## 210	petty	12
## 211	scores	12
## 212	set	12
## 213	significant	12
## 214	sme	12
## 215	top	12
## 216	10	11
## 217	1990	11
## 218	2000	11
## 219	25	11
## 220	brazil	11
## 221	building	11
## 222	capacity	11

## 223	e.g	11
## 224	entails	11
## 225	evaluation	11
## 226	experience	11
## 227	fisman	11
## 228	http	11
## 229	improvement	11
## 230	key	11
## 231	martin	11
## 232	moldova	11
## 233	munghiu	11
## 234	oligarchs	11
## 235	pippidi	11
## 236	professional	11
## 237	role	11
## 238	rothstein	11
## 239	similar	11
## 240	standards	11
## 241	table	11
## 242	venice	11
## 243	28	10
## 244	8	10
## 245	actions	10
## 246	address	10
## 247	addressing	10
## 248	advocates	10
## 249	armenian	10
## 250	code	10
## 251	companies	10
## 252	data	10
## 253	eap	10
## 254	election	10
## 255	en	10
## 256	engagement	10
## 257	enlargement	10
## 258	freedom	10
## 259	goals	10
## 260	horizontal	10
## 261	kyrgyzstan	10
## 262	laundering	10
## 263	lawyers	10
## 264	michael	10
## 265	nichter	10
## 266	observers	10
## 267	officials	10
## 268	outcomes	10
## 269	partnership	10
## 270	people	10
## 271	potential	10
## 272	processes	10

## 273	providing	10
## 274	regard	10
## 275	respect	10
## 276	staff	10
## 277	start	10
## 278	23	9
## 279	9	9
## 280	armenia's	9
## 281	attention	9
## 282	challenges	9
## 283	contract	9
## 284	crime	9
## 285	daniel	9
## 286	efficiency	9
## 287	electoral	9
## 288	exchange	9
## 289	executive	9
## 290	fight	9
## 291	financing	9
## 292	form	9
## 293	funds	9
## 294	illicit	9
## 295	implementation	9
## 296	john	9
## 297	osce	9
## 298	oxford	9
## 299	performance	9
## 300	popular	9
## 301	provide	9
## 302	research	9
## 303	service	9
## 304	societies	9
## 305	space	9
## 306	specifically	9
## 307	strong	9
## 308	term	9
## 309	13	8
## 310	14	8
## 311	15	8
## 312	20	8
## 313	abroad	8
## 314	agency	8
## 315	assets	8
## 316	bureaucrats	8
## 317	coman	8
## 318	concerns	8
## 319	contrast	8
## 320	definition	8
## 321	dem	8
## 322	dixit	8

## 323	east	8
## 324	employment	8
## 325	enp	8
## 326	experiences	8
## 327	focused	8
## 328	fraud	8
## 329	governmental	8
## 330	grand	8
## 331	highlight	8
## 332	ii	8
## 333	improved	8
## 334	improving	8
## 335	individuals	8
## 336	internal	8
## 337	investigations	8
## 338	morse	8
## 339	oecd	8
## 340	organization	8
## 341	parties	8
## 342	players	8
## 343	programs	8
## 344	quality	8
## 345	remains	8
## 346	reports	8
## 347	requirements	8
## 348	resources	8
## 349	rules	8
## 350	schemes	8
## 351	services	8
## 352	settings	8
## 353	stokes	8
## 354	strategies	8
## 355	susan	8
## 356	taking	8
## 357	tasking	8
## 358	teorell	8
## 359	training	8
## 360	undp	8
## 361	veto	8
## 362	vote	8
## 363	12	7
## 364	1990s	7
## 365	1999	7
## 366	2000s	7
## 367	2015a	7
## 368	22	7
## 369	26	7
## 370	29	7
## 371	30	7
## 372	32	7

## 373	7	7
## 374	adr	7
## 375	alkon	7
## 376	assistance	7
## 377	basu	7
## 378	benefit	7
## 379	bid	7
## 380	campaign	7
## 381	collusion	7
## 382	common	7
## 383	company	7
## 384	conflicts	7
## 385	constitutional	7
## 386	continue	7
## 387	cooperation	7
## 388	criminal	7
## 389	david	7
## 390	dc	7
## 391	dedicated	7
## 392	developed	7
## 393	difficult	7
## 394	donor	7
## 395	effort	7
## 396	elbasani	7
## 397	forces	7
## 398	formal	7
## 399	golden	7
## 400	hidalgo	7
## 401	history	7
## 402	improvements	7
## 403	includes	7
## 404	increasing	7
## 405	independent	7
## 406	individual	7
## 407	intermediaries	7
## 408	led	7
## 409	legitimacy	7
## 410	lower	7
## 411	magen	7
## 412	means	7
## 413	notable	7
## 414	notably	7
## 415	overview	7
## 416	perceptions	7
## 417	promising	7
## 418	promotion	7
## 419	refer	7
## 420	reformers	7
## 421	related	7
## 422	risk	7

## 423	risks	7
## 424	routledge	7
## 425	short	7
## 426	supreme	7
## 427	transparent	7
## 428	war	7
## 429	washington	7
## 430	weak	7
## 431	17	6
## 432	19	6
## 433	21	6
## 434	27	6
## 435	31	6
## 436	35	6
## 437	38	6
## 438	39	6
## 439	50	6
## 440	ability	6
## 441	access	6
## 442	act	6
## 443	activities	6
## 444	alina	6
## 445	analysis	6
## 446	arrangements	6
## 447	bauhr	6
## 448	broader	6
## 449	california	6
## 450	changed	6
## 451	conditionality	6
## 452	considerable	6
## 453	content	6
## 454	corporate	6
## 455	discussed	6
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## 3750	star	1
## 3751	star.worldbank.org	1
## 3752	stark	1
## 3753	starting	1
## 3754	statements	1
## 3755	stations	1
## 3756	stature	1
## 3757	steadily	1
## 3758	stemming	1
## 3759	stephan	1
## 3760	stephen	1
## 3761	sticking	1
## 3762	sticks	1
## 3763	sticky	1
## 3764	stiftung's	1
## 3765	stock	1
## 3766	stolen	1
## 3767	stood	1
## 3768	stopped	1
## 3769	storage	1
## 3770	stories	1
## 3771	stoychev	1
## 3772	stoycho	1

## 3773	straightforward	1
## 3774	strategic	1
## 3775	strength	1
## 3776	strengthening	1
## 3777	stressed	1
## 3778	strike	1
## 3779	strokes	1
## 3780	structural	1
## 3781	structure	1
## 3782	students	1
## 3783	style	1
## 3784	stymied	1
## 3785	subcontracted	1
## 3786	subcontracting	1
## 3787	subnational	1
## 3788	subordinates	1
## 3789	subordination	1
## 3790	substitutes	1
## 3791	substitution	1
## 3792	successfully	1
## 3793	südosteuropa	1
## 3794	suffer	1
## 3795	sufficient	1
## 3796	suggestions	1
## 3797	summarizes	1
## 3798	summary	1
## 3799	summary1	1
## 3800	supermarket	1
## 3801	supervising	1
## 3802	supervisor	1
## 3803	supervisors	1
## 3804	supplement	1
## 3805	supplemental	1
## 3806	supportive	1
## 3807	supposed	1
## 3808	supra	1
## 3809	surely	1
## 3810	surprising	1
## 3811	surveillance	1
## 3812	suspect	1
## 3813	suspected	1
## 3814	suspend	1
## 3815	suspended	1
## 3816	sydney	1
## 3817	synergies	1
## 3818	systemic	1
## 3819	tactics	1
## 3820	taiwan	1
## 3821	tampering	1
## 3822	tangible	1

## 3823	tanja	1
## 3824	tank	1
## 3825	tantravahi	1
## 3826	tape	1
## 3827	taras	1
## 3828	tarek	1
## 3829	target	1
## 3830	targeted	1
## 3831	targeting	1
## 3832	tasked	1
## 3833	taylor	1
## 3834	teaching	1
## 3835	technology	1
## 3836	tel	1
## 3837	televised	1
## 3838	telling	1
## 3839	tenison	1
## 3840	tension	1
## 3841	tensions	1
## 3842	text	1
## 3843	thad	1
## 3844	thatcher	1
## 3845	theodor	1
## 3846	theoretic	1
## 3847	theoretical	1
## 3848	theresa	1
## 3849	thierry	1
## 3850	thread	1
## 3851	threatening	1
## 3852	ti_plain_language_guide	1
## 3853	ties	1
## 3854	time_continue	1
## 3855	timeframe	1
## 3856	times	1
## 3857	timing	1
## 3858	tkxnjktztcxmjm2ndbmy2uy	1
## 3859	todd	1
## 3860	token	1
## 3861	told	1
## 3862	tolerated	1
## 3863	tomilayo	1
## 3864	tommasi	1
## 3865	tool	1
## 3866	tools	1
## 3867	topic	1
## 3868	topics	1
## 3869	toronto	1
## 3870	tors	1
## 3871	totally	1
## 3872	towarzystwo	1

## 3873	traced	1
## 3874	trackable	1
## 3875	tracked	1
## 3876	tradeoffs	1
## 3877	tradition	1
## 3878	traditions	1
## 3879	trajectories	1
## 3880	trajectory	1
## 3881	trans	1
## 3882	transatlantic	1
## 3883	transforming	1
## 3884	transparency.am	1
## 3885	transparently	1
## 3886	trends	1
## 3887	trubek	1
## 3888	truth	1
## 3889	turnover	1
## 3890	tyler	1
## 3891	typical	1
## 3892	u.s	1
## 3893	uk	1
## 3894	unable	1
## 3895	unaccountable	1
## 3896	unbiased	1
## 3897	unclear	1
## 3898	uncommon	1
## 3899	uncontroversial	1
## 3900	underdeveloped	1
## 3901	undergoes	1
## 3902	undergone	1
## 3903	underlying	1
## 3904	undermines	1
## 3905	underpin	1
## 3906	underscores	1
## 3907	understood	1
## 3908	undesirable	1
## 3909	undivided	1
## 3910	undue	1
## 3911	unearned	1
## 3912	unequal	1
## 3913	uniao	1
## 3914	unification	1
## 3915	unions	1
## 3916	universalism	1
## 3917	unsettled	1
## 3918	unsuccessful	1
## 3919	unwilling	1
## 3920	upcoming	1
## 3921	update	1
## 3922	updates	1

## 3923	updating	1
## 3924	uption1awareness.pdf	1
## 3925	uruguay	1
## 3926	usd1	1
## 3927	usual	1
## 3928	vadis	1
## 3929	valeria	1
## 3930	valts	1
## 3931	valuable	1
## 3932	van	1
## 3933	varieties	1
## 3934	varstvoslovje	1
## 3935	varuzhan	1
## 3936	varying	1
## 3937	vehicles	1
## 3938	venegoni	1
## 3939	venezuelan	1
## 3940	vepa	1
## 3941	verifying	1
## 3942	versions	1
## 3943	versus	1
## 3944	vice	1
## 3945	vicious	1
## 3946	victim	1
## 3947	victims	1
## 3948	victor	1
## 3949	vid	1
## 3950	vikrant	1
## 3951	vineeta	1
## 3952	violation	1
## 3953	virtuous	1
## 3954	vishny	1
## 3955	visible	1
## 3956	vivien	1
## 3957	vladimir	1
## 3958	voice	1
## 3959	voices	1
## 3960	vol	1
## 3961	volition	1
## 3962	volume	1
## 3963	voting	1
## 3964	vulnerable	1
## 3965	wade	1
## 3966	waele	1
## 3967	wage	1
## 3968	wages	1
## 3969	wales	1
## 3970	wall	1
## 3971	watch	1
## 3972	waves	1

## 3973	weakness	1
## 3974	webforms	1
## 3975	wef	1
## 3976	welfare	1
## 3977	wellhausen	1
## 3978	what's	1
## 3979	whims	1
## 3980	whistle	1
## 3981	whistleblowers	1
## 3982	whistleblowing	1
## 3983	wider	1
## 3984	widespread	1
## 3985	wilkins	1
## 3986	willingness	1
## 3987	window	1
## 3988	windsor	1
## 3989	winning	1
## 3990	winter	1
## 3991	witness	1
## 3992	wolfgang	1
## 3993	worker	1
## 3994	worker's	1
## 3995	worried	1
## 3996	worthy	1
## 3997	www.apnews.com	1
## 3998	www.doingbusiness.org	1
## 3999	www.fatf	1
## 4000	www.kg.undp.org	1
## 4001	www.knowyourcountry.com	1
## 4002	www.nyulawglobal.org	1
## 4003	www.oecd.org	1
## 4004	www.ohchr.org	1
## 4005	www.pf	1
## 4006	www.state.gov	1
## 4007	www.tert.am	1
## 4008	www.undp.org	1
## 4009	www.venice.coe.int	1
## 4010	www.youtube.com	1
## 4011	xv	1
## 4012	yana	1
## 4013	yasemin	1
## 4014	yevgenya	1
## 4015	yields	1
## 4016	yugoslavia	1
## 4017	yves	1
## 4018	yzstan	1
## 4019	zhang	1
## 4020	zoltán	1

13.cont Top 5 words are law, corruption, rule, armenia, and european in that order

14. Load the Billboard Hot 100 and call hot100exam

```
#Load libraries
library(rvest)

## Warning: package 'rvest' was built under R version 4.0.5

##
## Attaching package: 'rvest'

## The following object is masked from 'package:readr':
##
##   guess_encoding

library(dplyr)
library(xml2)

##
## Attaching package: 'xml2'

## The following object is masked from 'package:rlang':
##
##   as_list

#call billboard url
hot100url <- "https://www.billboard.com/charts/hot-100"

#read the url using read_html call it hot100exam
hot100exam <- read_html(hot100url)

#start pulling data (taken from modules)
# create a rank list
rank <- hot100exam %>%
  # pull the body nodes with html_node
  rvest::html_node('body') %>%
  # use xml_find_all to get all rankings, not just single artist/song
whatever
  xml2::xml_find_all("//span[contains(@class,
                                'chart-element__rank__number')]") %>%
  #use rvest and html_text to pull the data out of this
  rvest::html_text()

# create artist list
artist <- hot100exam %>%
  html_node("body")%>%
  xml_find_all("//span[contains(@class,
                                'chart-element__information__artist')]") %>%
  html_text()

# create song list
title <- hot100exam %>%
  html_node("body")%>%
```

```
xml_find_all("//span[contains(@class,  
                'chart-element__information__song')]")%>%  
html_text()
```

create a week list (this is how I would have done it but I can't figure out how to get a last week vector that isn't empty. I am applying another method I learned while practicing this module for the exam)

```
#last_week2 <- hot100exam%>%  
# html_nodes("body")%>%  
# xml_find_all("//div [contains(@class,  
#                 chart-element__meta text--center color--secondary text--  
last'])]")%>%  
# html_text()
```

```
#alternative method using a selector gadget  
last_week_code <- html_nodes(hot100exam, '.text--last')
```

```
#turn list into a vector of data  
last_week <- html_text(last_week_code)
```

#way above didn't work either, I got double the values.

#create billboard list

```
hot100examfinal <- data.frame(rank,artist,title,last_week)
```

```
#print hot100examfinal  
hot100examfinal
```

```
##      rank  
## 1      1  
## 2      2  
## 3      3  
## 4      4  
## 5      5  
## 6      6  
## 7      7  
## 8      8  
## 9      9  
## 10     10  
## 11     11  
## 12     12  
## 13     13  
## 14     14  
## 15     15  
## 16     16  
## 17     17  
## 18     18
```

## 19	19
## 20	20
## 21	21
## 22	22
## 23	23
## 24	24
## 25	25
## 26	26
## 27	27
## 28	28
## 29	29
## 30	30
## 31	31
## 32	32
## 33	33
## 34	34
## 35	35
## 36	36
## 37	37
## 38	38
## 39	39
## 40	40
## 41	41
## 42	42
## 43	43
## 44	44
## 45	45
## 46	46
## 47	47
## 48	48
## 49	49
## 50	50
## 51	51
## 52	52
## 53	53
## 54	54
## 55	55
## 56	56
## 57	57
## 58	58
## 59	59
## 60	60
## 61	61
## 62	62
## 63	63
## 64	64
## 65	65
## 66	66
## 67	67
## 68	68

## 69	69
## 70	70
## 71	71
## 72	72
## 73	73
## 74	74
## 75	75
## 76	76
## 77	77
## 78	78
## 79	79
## 80	80
## 81	81
## 82	82
## 83	83
## 84	84
## 85	85
## 86	86
## 87	87
## 88	88
## 89	89
## 90	90
## 91	91
## 92	92
## 93	93
## 94	94
## 95	95
## 96	96
## 97	97
## 98	98
## 99	99
## 100	100
## 101	1
## 102	2
## 103	3
## 104	4
## 105	5
## 106	6
## 107	7
## 108	8
## 109	9
## 110	10
## 111	11
## 112	12
## 113	13
## 114	14
## 115	15
## 116	16
## 117	17
## 118	18

## 119	19
## 120	20
## 121	21
## 122	22
## 123	23
## 124	24
## 125	25
## 126	26
## 127	27
## 128	28
## 129	29
## 130	30
## 131	31
## 132	32
## 133	33
## 134	34
## 135	35
## 136	36
## 137	37
## 138	38
## 139	39
## 140	40
## 141	41
## 142	42
## 143	43
## 144	44
## 145	45
## 146	46
## 147	47
## 148	48
## 149	49
## 150	50
## 151	51
## 152	52
## 153	53
## 154	54
## 155	55
## 156	56
## 157	57
## 158	58
## 159	59
## 160	60
## 161	61
## 162	62
## 163	63
## 164	64
## 165	65
## 166	66
## 167	67
## 168	68

169 69
170 70
171 71
172 72
173 73
174 74
175 75
176 76
177 77
178 78
179 79
180 80
181 81
182 82
183 83
184 84
185 85
186 86
187 87
188 88
189 89
190 90
191 91
192 92
193 93
194 94
195 95
196 96
197 97
198 98
199 99
200 100

##

artist

1

BTS

2

Rodrigo

3

SZA

4

DaBaby

5

Sheeran

6

.Paak)

7

Giveon

8

X

Olivia

Doja Cat Featuring

Dua Lipa Featuring

Ed

Silk Sonic (Bruno Mars & Anderson

Justin Bieber Featuring Daniel Caesar &

Lil Nas

## 9	The Weeknd & Ariana
Grande	
## 10	Olivia
Rodrigo	
## 11	Doja Cat & The
Weeknd	
## 12	Masked
Wolf	
## 13	Polo
G	
## 14	Tyler, The Creator Featuring YoungBoy Never Broke Again & Ty Dolla
\$ign	
## 15	The Kid
LAROI	
## 16	Megan Thee
Stallion	
## 17	Maroon 5 Featuring Megan Thee
Stallion	
## 18	The
Weeknd	
## 19	Luke
Combs	
## 20	
Giveon	
## 21	Chris Young + Kane
Brown	
## 22	Saweetie Featuring Doja
Cat	
## 23	Nelly & Florida Georgia
Line	
## 24	Doja
Cat	
## 25	Glass
Animals	
## 26	Drake Featuring Lil
Baby	
## 27	Bad
Bunny	
## 28	DJ Khaled Featuring Lil Baby & Lil
Durk	
## 29	Olivia
Rodrigo	
## 30	Kali
Uchis	
## 31	Marshmello X Jonas
Brothers	
## 32	Rauw
Alejandro	
## 33	Roddy
Ricch	

## 34	Walker
Hayes	
## 35	Jason
Aldean	
## 36	Ariana
Grande	
## 37	24kGoldn Featuring iann
dior	
## 38	Dierks
Bentley	
## 39	Olivia
Rodrigo	
## 40	Tyler, The Creator Featuring Lil Uzi Vert & Pharrell
Williams	
## 41	Nio Garcia X J Balvin X Bad
Bunny	
## 42	Tyler, The Creator Featuring 42
Dugg	
## 43	Machine Gun Kelly X
blackbear	
## 44	Moneybagg
Yo	
## 45	Tyler, The
Creator	
## 46	Lil Tjay Featuring
6LACK	
## 47	Jordan
Davis	
## 48	Tyler, The Creator Featuring Lil
Wayne	
## 49	Doja
Cat	
## 50	Chase Rice Featuring Florida Georgia
Line	
## 51	
DaBaby	
## 52	Miranda
Lambert	
## 53	Cole
Swindell	
## 54	Dan +
Shay	
## 55	Tyler, The
Creator	
## 56	
DaBaby	
## 57	Doja Cat Featuring Ariana
Grande	
## 58	Olivia
Rodrigo	

## 59	Tyler, The Creator Featuring DJ
Drama	
## 60	Tyler, The Creator Featuring Brent Faiyaz & Fana
Hues	
## 61	
Migos	
## 62	Olivia
Rodrigo	
## 63	Young Thug &
Gunna	
## 64	
AJR	
## 65	J. Cole, 21 Savage &
Morray	
## 66	Tyler, The
Creator	
## 67	Bella
Poarch	
## 68	Tyler, The Creator Featuring Teezo
Touchdown	
## 69	Duncan
Laurence	
## 70	Lainey
Wilson	
## 71	
Mooski	
## 72	Lil Baby, Lil Durk & Travis
Scott	
## 73	Olivia
Rodrigo	
## 74	Keith Urban Duet With
P!nk	
## 75	Regard x Troye Sivan x Tate
McRae	
## 76	Elle King & Miranda
Lambert	
## 77	Ryan Hurd With Maren
Morris	
## 78	
Maneskin	
## 79	Sam
Hunt	
## 80	Blake
Shelton	
## 81	Los Legendarios, Wisin & Jhay
Cortez	
## 82	Migos Featuring
Drake	
## 83	Jake
Owen	

## 84	Tyler, The Creator Featuring Domo
Genesis	
## 85	Willow Featuring Travis
Barker	
## 86	Thomas
Rhett	
## 87	Justin
Moore	
## 88	Doja
Cat	
## 89	Olivia
Rodrigo	
## 90	Imagine
Dragons	
## 91	H.E.R. Featuring Chris
Brown	
## 92	42 Dugg & Roddy
Ricch	
## 93	Doja
Cat	
## 94	Luke
Bryan	
## 95	Tyler, The
Creator	
## 96	City
Girls	
## 97	Rod
Wave	
## 98	Trippie Redd & Playboi
Carti	
## 99	Tyler, The Creator Featuring Daisy
World	
## 100	Tate McRae X
Khalid	
## 101	
BTS	
## 102	Olivia
Rodrigo	
## 103	Doja Cat Featuring
SZA	
## 104	Dua Lipa Featuring
DaBaby	
## 105	Ed
Sheeran	
## 106	Silk Sonic (Bruno Mars & Anderson
.Paak)	
## 107	Justin Bieber Featuring Daniel Caesar &
Giveon	
## 108	Lil Nas
X	

## 109	The Weeknd & Ariana
Grande	
## 110	Olivia
Rodrigo	
## 111	Doja Cat & The
Weeknd	
## 112	Masked
Wolf	
## 113	Polo
G	
## 114	Tyler, The Creator Featuring YoungBoy Never Broke Again & Ty Dolla
\$ign	
## 115	The Kid
LAROI	
## 116	Megan Thee
Stallion	
## 117	Maroon 5 Featuring Megan Thee
Stallion	
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Weeknd	
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## 120	
Giveon	
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## 123	Nelly & Florida Georgia
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## 124	Doja
Cat	
## 125	Glass
Animals	
## 126	Drake Featuring Lil
Baby	
## 127	Bad
Bunny	
## 128	DJ Khaled Featuring Lil Baby & Lil
Durk	
## 129	Olivia
Rodrigo	
## 130	Kali
Uchis	
## 131	Marshmello X Jonas
Brothers	
## 132	Rauw
Alejandro	
## 133	Roddy
Ricch	

## 134	Walker
Hayes	
## 135	Jason
Aldean	
## 136	Ariana
Grande	
## 137	24kGoldn Featuring iann
dior	
## 138	Dierks
Bentley	
## 139	Olivia
Rodrigo	
## 140	Tyler, The Creator Featuring Lil Uzi Vert & Pharrell
Williams	
## 141	Nio Garcia X J Balvin X Bad
Bunny	
## 142	Tyler, The Creator Featuring 42
Dugg	
## 143	Machine Gun Kelly X
blackbear	
## 144	Moneybagg
Yo	
## 145	Tyler, The
Creator	
## 146	Lil Tjay Featuring
6LACK	
## 147	Jordan
Davis	
## 148	Tyler, The Creator Featuring Lil
Wayne	
## 149	Doja
Cat	
## 150	Chase Rice Featuring Florida Georgia
Line	
## 151	
DaBaby	
## 152	Miranda
Lambert	
## 153	Cole
Swindell	
## 154	Dan +
Shay	
## 155	Tyler, The
Creator	
## 156	
DaBaby	
## 157	Doja Cat Featuring Ariana
Grande	
## 158	Olivia
Rodrigo	

## 159	Tyler, The Creator Featuring DJ
Drama	
## 160	Tyler, The Creator Featuring Brent Faiyaz & Fana
Hues	
## 161	
Migos	
## 162	Olivia
Rodrigo	
## 163	Young Thug &
Gunna	
## 164	
AJR	
## 165	J. Cole, 21 Savage &
Morray	
## 166	Tyler, The
Creator	
## 167	Bella
Poarch	
## 168	Tyler, The Creator Featuring Teezo
Touchdown	
## 169	Duncan
Laurence	
## 170	Lainey
Wilson	
## 171	
Mooski	
## 172	Lil Baby, Lil Durk & Travis
Scott	
## 173	Olivia
Rodrigo	
## 174	Keith Urban Duet With
P!nk	
## 175	Regard x Troye Sivan x Tate
McRae	
## 176	Elle King & Miranda
Lambert	
## 177	Ryan Hurd With Maren
Morris	
## 178	
Maneskin	
## 179	Sam
Hunt	
## 180	Blake
Shelton	
## 181	Los Legendarios, Wisin & Jhay
Cortez	
## 182	Migos Featuring
Drake	
## 183	Jake
Owen	

## 184	Genesis	Tyler, The Creator Featuring Domo
## 185	Barker	Willow Featuring Travis
## 186	Rhett	Thomas
## 187	Moore	Justin
## 188	Cat	Doja
## 189	Rodrigo	Olivia
## 190	Dragons	Imagine
## 191	Brown	H.E.R. Featuring Chris
## 192	Ricch	42 Dugg & Roddy
## 193	Cat	Doja
## 194	Bryan	Luke
## 195	Creator	Tyler, The
## 196	Girls	City
## 197	Wave	Rod
## 198	Carti	Trippie Redd & Playboi
## 199	World	Tyler, The Creator Featuring Daisy
## 200	Khalid	Tate McRae X

##		title	last_week
## 1		Butter	1 Last Week
## 2		Good 4 U	1
## 3		Kiss Me More	2 Last Week
## 4		Levitating	2
## 5		Bad Habits	4 Last Week
## 6		Leave The Door Open	4
## 7		Peaches	3 Last Week
## 8	Montero (Call Me By Your Name)		3
## 9		Save Your Tears	- Last Week
## 10		Deja Vu	-
## 11		You Right	6 Last Week
## 12	Astronaut In The Ocean		6
## 13		Rapstar	5 Last Week
## 14		WUSYANAME	5
## 15		Without You	8 Last Week

## 16	Thot Shit	8
## 17	Beautiful Mistakes	7 Last Week
## 18	Blinding Lights	7
## 19	Forever After All	9 Last Week
## 20	Heartbreak Anniversary	9
## 21	Famous Friends	- Last Week
## 22	Best Friend	-
## 23	Lil Bit	10 Last Week
## 24	Ain't Shit	10
## 25	Heat Waves	11 Last Week
## 26	Wants And Needs	11
## 27	Yonaguni	- Last Week
## 28	Every Chance I Get	-
## 29	Drivers License	14 Last Week
## 30	Telepatia	14
## 31	Leave Before You Love Me	17 Last Week
## 32	Todo de Ti	17
## 33	Late At Night	13 Last Week
## 34	Fancy Like	13
## 35	Blame It On You	15 Last Week
## 36	pov	15
## 37	Mood	12 Last Week
## 38	Gone	12
## 39	Traitor	16 Last Week
## 40	Juggernaut	16
## 41	AM	21 Last Week
## 42	Lemonhead	21
## 43	My Ex's Best Friend	18 Last Week
## 44	Wockesha	18
## 45	Lumberjack	24 Last Week
## 46	Calling My Phone	24
## 47	Almost Maybes	- Last Week
## 48	Hot Wind Blows	-
## 49	Need To Know	19 Last Week
## 50	Drinkin' Beer. Talkin' God. Amen.	19
## 51	Red Light Green Light	20 Last Week
## 52	Settling Down	20
## 53	Single Saturday Night	22 Last Week
## 54	Glad You Exist	22
## 55	Corso	30 Last Week
## 56	Ball If I Want To	30
## 57	I Don't Do Drugs	23 Last Week
## 58	Happier	23
## 59	Sir Baudelaire	25 Last Week
## 60	Sweet / I Thought You Wanted To Dance	25
## 61	Straightenin	37 Last Week
## 62	Favorite Crime	37
## 63	Ski	36 Last Week
## 64	Way Less Sad	36
## 65	my.life	32 Last Week

## 66	Massa	32
## 67	Build A Bitch	51 Last Week
## 68	RunItUp	51
## 69	Arcade	34 Last Week
## 70	Things A Man Oughta Know	34
## 71	Track Star	27 Last Week
## 72	Hats Off	27
## 73	Brutal	29 Last Week
## 74	One Too Many	29
## 75	You	26 Last Week
## 76	Drunk (And I Don't Wanna Go Home)	26
## 77	Chasing After You	28 Last Week
## 78	Beggin'	28
## 79	Breaking Up Was Easy In The 90's	- Last Week
## 80	Minimum Wage	-
## 81	Fiel	- Last Week
## 82	Having Our Way	-
## 83	Made For You	- Last Week
## 84	Manifesto	-
## 85	transparent soul	33 Last Week
## 86	Country Again	33
## 87	We Didn't Have Much	35 Last Week
## 88	Woman	35
## 89	Jealousy, Jealousy	93 Last Week
## 90	Follow You	93
## 91	Come Through	31 Last Week
## 92	4 Da Gang	31
## 93	Get Into It (Yuh)	43 Last Week
## 94	Waves	43
## 95	Wilshire	- Last Week
## 96	Twerkulator	-
## 97	Tombstone	66 Last Week
## 98	Miss The Rage	66
## 99	Rise!	64 Last Week
## 100	Working	64
## 101	Butter	- Last Week
## 102	Good 4 U	-
## 103	Kiss Me More	41 Last Week
## 104	Levitating	41
## 105	Bad Habits	50 Last Week
## 106	Leave The Door Open	50
## 107	Peaches	48 Last Week
## 108	Montero (Call Me By Your Name)	48
## 109	Save Your Tears	- Last Week
## 110	Deja Vu	-
## 111	You Right	39 Last Week
## 112	Astronaut In The Ocean	39
## 113	Rapstar	- Last Week
## 114	WUSYANAME	-
## 115	Without You	42 Last Week

## 116	Thot Shit	42
## 117	Beautiful Mistakes	- Last Week
## 118	Blinding Lights	-
## 119	Forever After All	- Last Week
## 120	Heartbreak Anniversary	-
## 121	Famous Friends	45 Last Week
## 122	Best Friend	45
## 123	Lil Bit	47 Last Week
## 124	Ain't Shit	47
## 125	Heat Waves	56 Last Week
## 126	Wants And Needs	56
## 127	Yonaguni	59 Last Week
## 128	Every Chance I Get	59
## 129	Drivers License	52 Last Week
## 130	Telepatia	52
## 131	Leave Before You Love Me	- Last Week
## 132	Todo de Ti	-
## 133	Late At Night	57 Last Week
## 134	Fancy Like	57
## 135	Blame It On You	- Last Week
## 136	pov	-
## 137	Mood	61 Last Week
## 138	Gone	61
## 139	Traitor	58 Last Week
## 140	Juggernaut	58
## 141	AM	53 Last Week
## 142	Lemonhead	53
## 143	My Ex's Best Friend	55 Last Week
## 144	Wockesha	55
## 145	Lumberjack	54 Last Week
## 146	Calling My Phone	54
## 147	Almost Maybes	63 Last Week
## 148	Hot Wind Blows	63
## 149	Need To Know	71 Last Week
## 150	Drinkin' Beer. Talkin' God. Amen.	71
## 151	Red Light Green Light	73 Last Week
## 152	Settling Down	73
## 153	Single Saturday Night	78 Last Week
## 154	Glad You Exist	78
## 155	Corso	- Last Week
## 156	Ball If I Want To	-
## 157	I Don't Do Drugs	60 Last Week
## 158	Happier	60
## 159	Sir Baudelaire	67 Last Week
## 160	Sweet / I Thought You Wanted To Dance	67
## 161	Straightenin	62 Last Week
## 162	Favorite Crime	62
## 163	Ski	49 Last Week
## 164	Way Less Sad	49
## 165	my.life	65 Last Week

## 166	Massa	65
## 167	Build A Bitch - Last Week	
## 168	RunItUp	-
## 169	Arcade	76 Last Week
## 170	Things A Man Oughta Know	76
## 171	Track Star	75 Last Week
## 172	Hats Off	75
## 173	Brutal	85 Last Week
## 174	One Too Many	85
## 175	You - Last Week	
## 176	Drunk (And I Don't Wanna Go Home)	-
## 177	Chasing After You	68 Last Week
## 178	Beggin'	68
## 179	Breaking Up Was Easy In The 90's	81 Last Week
## 180	Minimum Wage	81
## 181	Fiel	70 Last Week
## 182	Having Our Way	70
## 183	Made For You	89 Last Week
## 184	Manifesto	89
## 185	transparent soul - Last Week	
## 186	Country Again	-
## 187	We Didn't Have Much	90 Last Week
## 188	Woman	90
## 189	Jealousy, Jealousy - Last Week	
## 190	Follow You	-
## 191	Come Through	96 Last Week
## 192	4 Da Gang	96
## 193	Get Into It (Yuh)	83 Last Week
## 194	Waves	83
## 195	Wilshire	82 Last Week
## 196	Twerkulator	82
## 197	Tombstone - Last Week	
## 198	Miss The Rage	-
## 199	Rise!	94 Last Week
## 200	Working	94

17. Export some of the files

```
#export tidy_armenia, hot100examfinal, collapsedflfp2, mean_flfp_map
```

```
export(tidy_armeniatext, "tidy_armenia.csv")
export(collapsed_flfp2, "collapsed_flfp2.csv")
export(hot100examfinal, "hot100examfinal.csv")
```