Week_6_HW

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- What purpose to Makefile serve?
 Data clean up, data gathering, or files merging
- 2. What is the function to download a URL? import() or read.table if easily accessible
- 3. What is a .zip file?

Compressed files

- 4. What is the process to download and decompress a .zip file? Give an example in a R code chunk.
 - a. Specify the URL of the .zip file and the destination folder
 - b. Create a temporary file called 'temp'
 - c. Download the compressed file into the temporary file
 - d. Decompress the file and convert it into a data frame
 - e. Delete the temporary file

unlink(temp)

```
#specify the URL
URL <- paste0("http://www.unified-democracy-scores.org/", "files/20140312/z/uds_summary.cs
#create temporary file
temp <- tempfile()
download.file(URL, temp)
##Decompress the file
uds_data <- read.csv(gzfile(temp, "uds_summary.csv"))
##Delete the temp</pre>
```

5. What are APIs?

Application Programming Interfaces

6. Use WDI package to download a new dataset other than AG.CON.FERT.ZS

	indicator
1070	AG.CON.FERT.MT
1071	AG.CON.FERT.PT.ZS
1072	AG.CON.FERT.ZS

name

1070		Fertilizer	consumption	(metric tons)
1071	Fertilizer	consumption (%	of fertilize	er production)
1072	Fertilizer consumpti	on (kilograms p	er hectare of	arable land)

country iso2c iso3c year AG.CON.FERT.PT.ZS

				J			J		
1	${\tt Africa}$	Eastern	and	Southern	ZH	AFE	2022	NA	
2	Africa	Eastern	and	Southern	ZH	AFE	2021	929.4799	
3	Africa	Eastern	and	Southern	ZH	AFE	2020	944.1741	
4	Africa	Eastern	and	Southern	ZH	AFE	2019	860.9742	
5	Africa	Eastern	and	Southern	ZH	AFE	2018	714.9938	
6	Africa	Eastern	and	Southern	ZH	AFE	2017	752.7104	

- 7. Indicate 3 new things you learned from this week.
- a. I learned to extract data from public website
- b. I learned API and related package—WDI
- c. I leanred to download zip files with URLs