Opioid

Ali Al-Ghaithi, Derek P, Matthew Pelz, Xuan-Ha Vandenberg

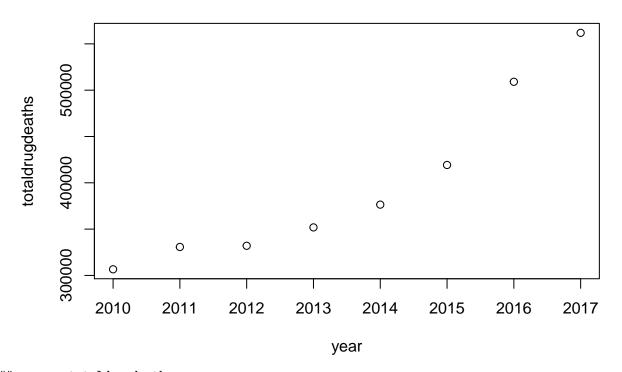
Introduction to Data Science University of Nebraska Omaha

Spring 2019

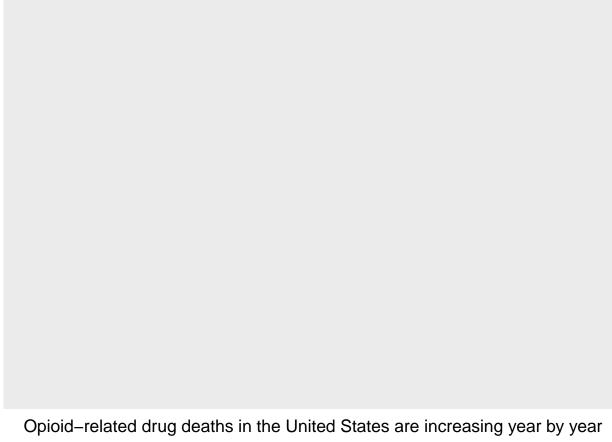
```
## Warning: Expected 2 pieces. Additional pieces discarded in 1976 rows [1, 2, ## 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, ...].
## Warning: Expected 2 pieces. Missing pieces filled with `NA` in 52 rows ## [3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, ## 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, ...].
## Warning in function_list[[k]](value): NAs introduced by coercion
## Warning: NAs introduced by coercion
```

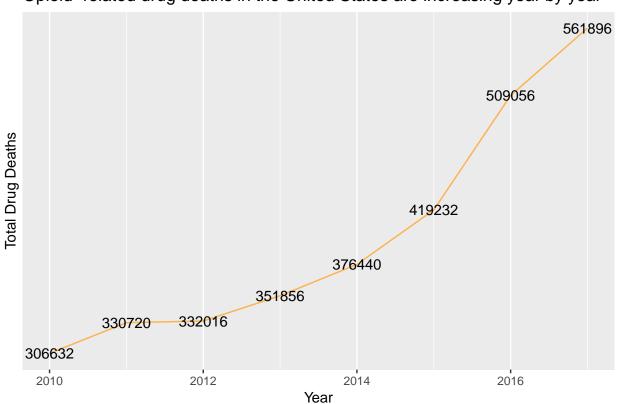
stateDat over the year-totaldrugdeaths plot

##		state	year	drug	drugs	pecificoverdoses	overalldeat	thsper100k
##	2	${\tt alabama}$	1999	Natural		10		NA
##	54	${\tt alabama}$	1999	Synthetic		10		NA
##	106	${\tt alabama}$	1999	${\tt Methadone}$		16		NA
##	158	${\tt alabama}$	1999	Heroin		NA		NA
##	210	${\tt alabama}$	2000	Natural		26		NA
##	262	${\tt alabama}$	2000	Synthetic		11		NA
##		totaldrı	ıgdeat	ths rxratep	per100	percentprabusers	s12andolder	population
##	2			NA	NA		NA	NA
##	54			NA	NA		NA	NA
##	106			NA	NA		NA	NA
##	158			NA	NA		NA	NA
##	210			NA	NA		NA	NA
##	262			NA	NA		NA	NA



##		year	totaldrugdeaths
##	1	2010	306632
##	2	2011	330720
##	3	2012	332016
##	4	2013	351856
##	5	2014	376440
##	6	2015	419232
##		year	totaldrugdeaths
		year 2012	totaldrugdeaths
##	3		0
## ##	3 4	2012	332016
## ## ##	3 4 5	2012 2013	332016 351856
## ## ## ##	3 4 5 6	2012 2013 2014	332016 351856 376440

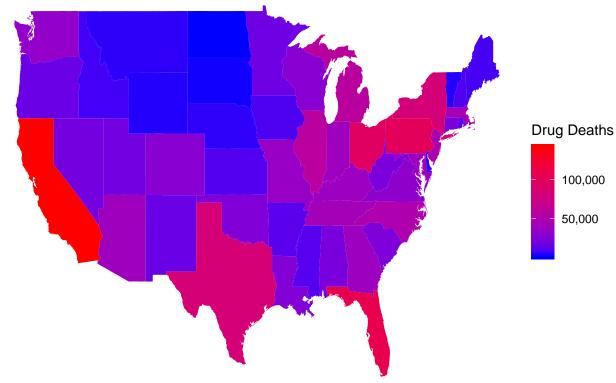




Us Map each states:

Warning: Ignoring unknown aesthetics: State

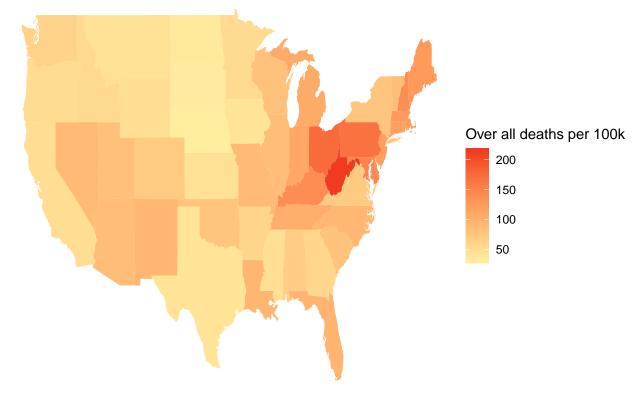
Total Drug Deaths 2010–2017



##		state ove	eralldeathsper100k
##	1	alabama	17.1
##	2	alabama	17.1
##	3	alabama	17.1
##	4	alabama	17.1
##	5	alaska	19.9
##	6	alaska	19.9
##		state	overalldeathsper100k
##	1	alabama	68.4
##	2	alaska	79.6
##	3	arizona	87.2
##	4	arkansas	59.2
##	5	california	49.2
##	6	colorado	72.4
##		state	overalldeathsper100k
##	1	alabama	68.4
##	2	alaska	79.6
##	3	arizona	87.2
##	4	arkansas	59.2
##	5	${\tt california}$	49.2
##	6	colorado	72.4

Warning: Ignoring unknown aesthetics: State

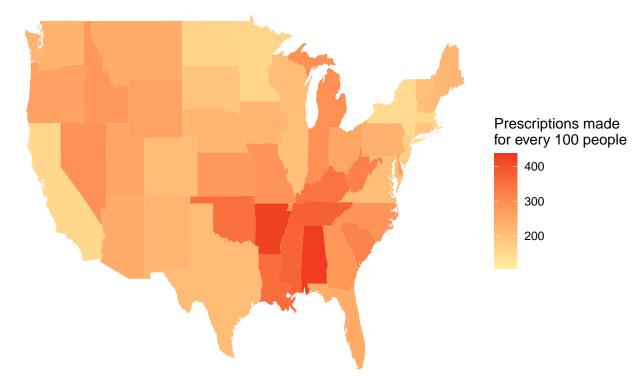
Opioid-related drug deaths in the United States in 2017



##		state	year	drug	drugs	pecificoverdoses	overalldeat	thsper100k
##	1	${\tt alabama}$	2017	Natural		141		17.1
##	2	${\tt alabama}$	2017	Synthetic		198		17.1
##	3	${\tt alabama}$	2017	${\tt Methadone}$		30		17.1
##	4	${\tt alabama}$	2017	Heroin		125		17.1
##	5	alaska	2017	Natural		47		19.9
##	6	alaska	2017	Synthetic		37		19.9
##		totaldrı	ıgdeat	ths rxrate	per100	percentprabusers	s12andolder	population
##	1		8	335	107.2		NA	4874747
##	2		8	335	107.2		NA	4874747
##	3		8	335	107.2		NA	4874747
##	4		8	335	107.2		NA	4874747
##	5		:	147	52.0		NA	739795
##	6		:	147	52.0		NA	739795

Warning: Ignoring unknown aesthetics: State

Opioid-related drug prescriptions made for every 100 people in the United States



- ## Warning in region == c("alabama", "mississippi", "arkansas", "louisiana", :
 ## longer object length is not a multiple of shorter object length
- ## Warning: Ignoring unknown aesthetics: State

Alabama and Arkansas have the highest rates of opioid prescriptions in the United States in 2017

