

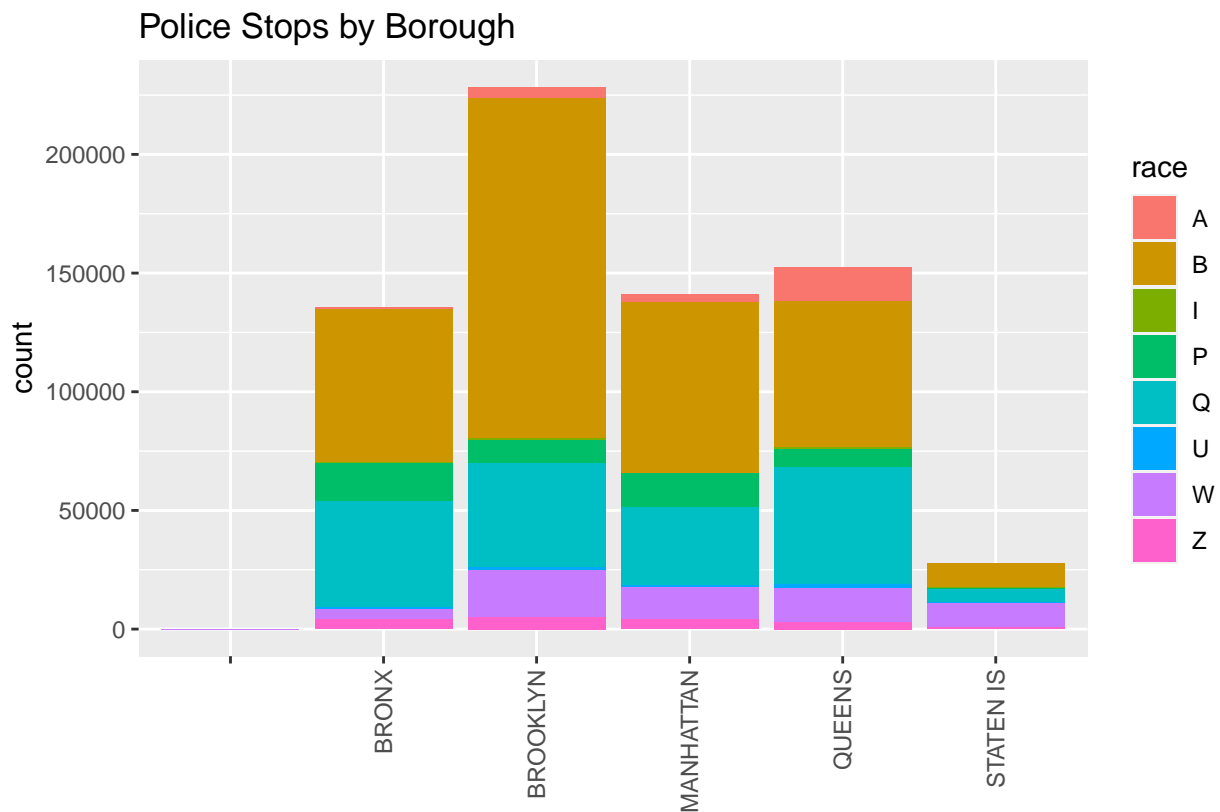
NYPD Use of Physical Force

Aaron Kohn

```
nypd <- read.csv('nypd.csv')
```

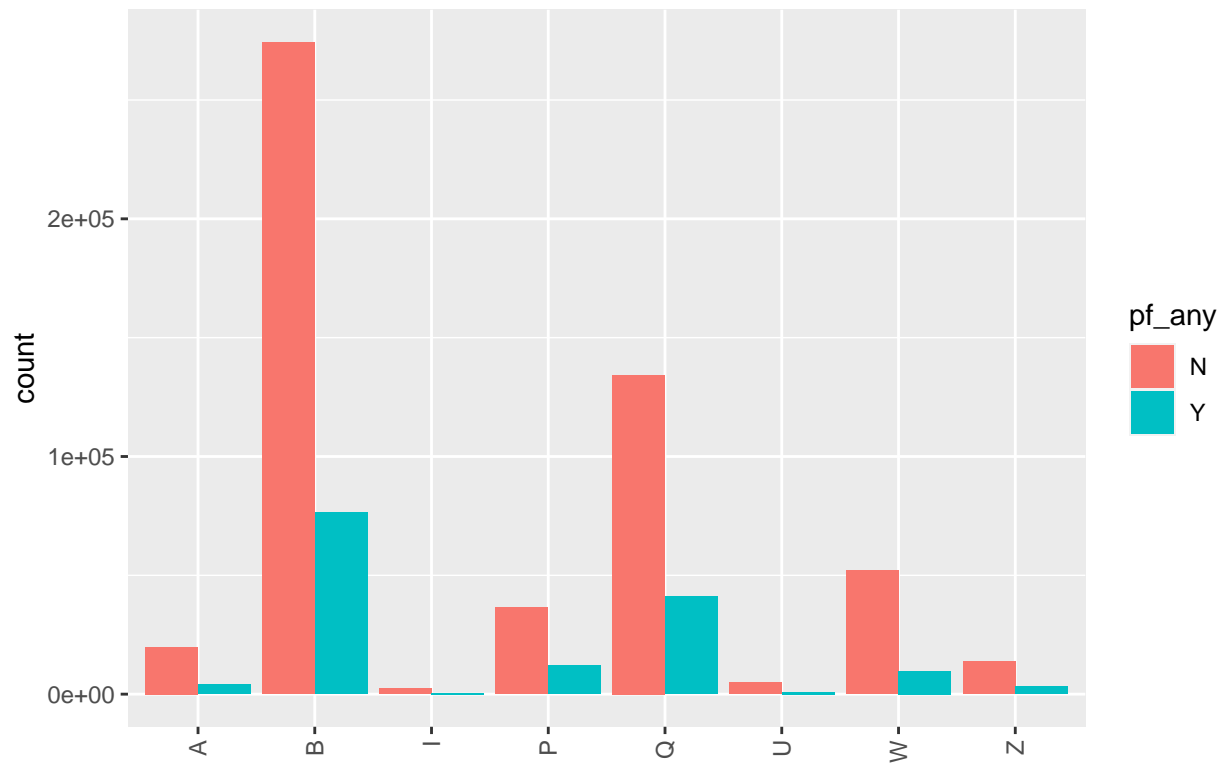
```
library(ggplot2)
```

```
ggplot(nypd, aes(factor(city), fill=race)) + geom_bar() +  
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1)) +  
  labs(title = 'Police Stops by Borough', x = '')
```



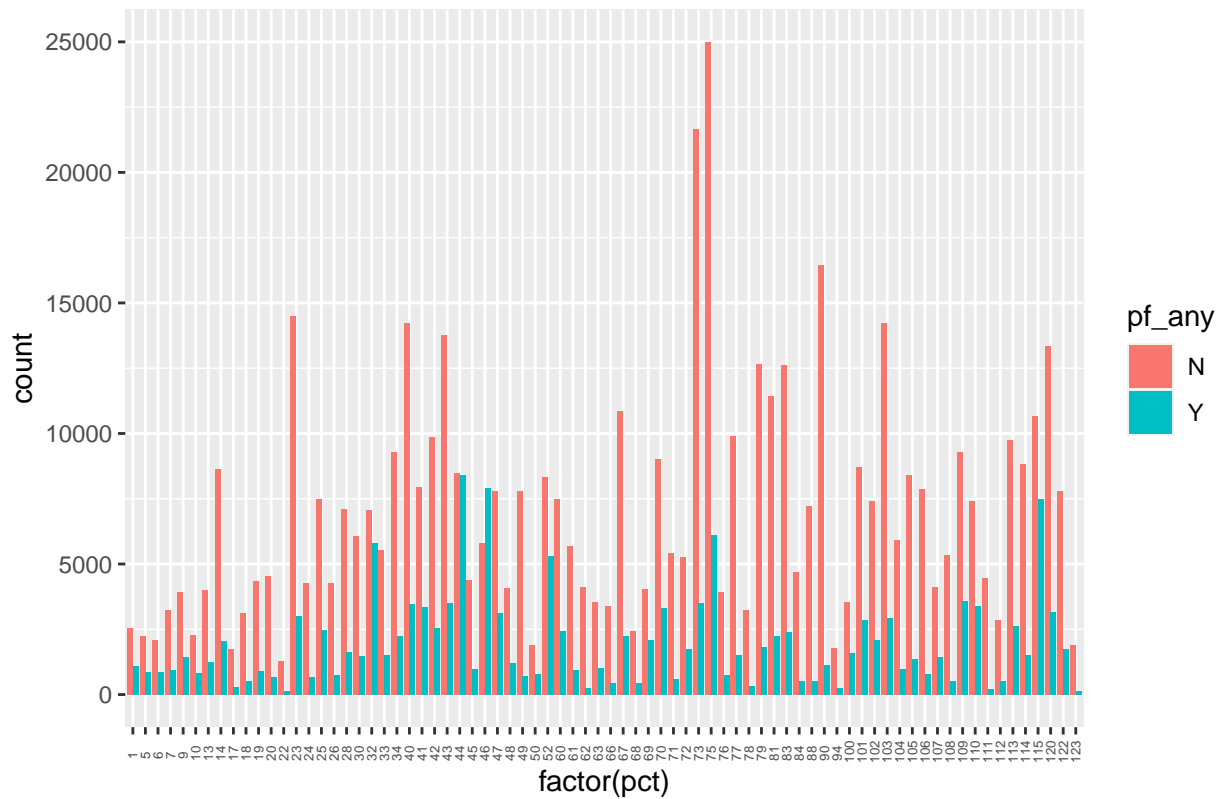
```
ggplot(nypd, aes(factor(race), fill=pf_any)) + geom_bar(position = 'dodge') +  
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1)) +  
  labs(title = 'Police Stops by Borough', x = '')
```

Police Stops by Borough



```
ggplot(nypd, aes(factor(pct), fill=pf_any)) + geom_bar(position = 'dodge') +  
theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=.25, size = 4.5)) +  
ggtitle('distribution of stops by pct')
```

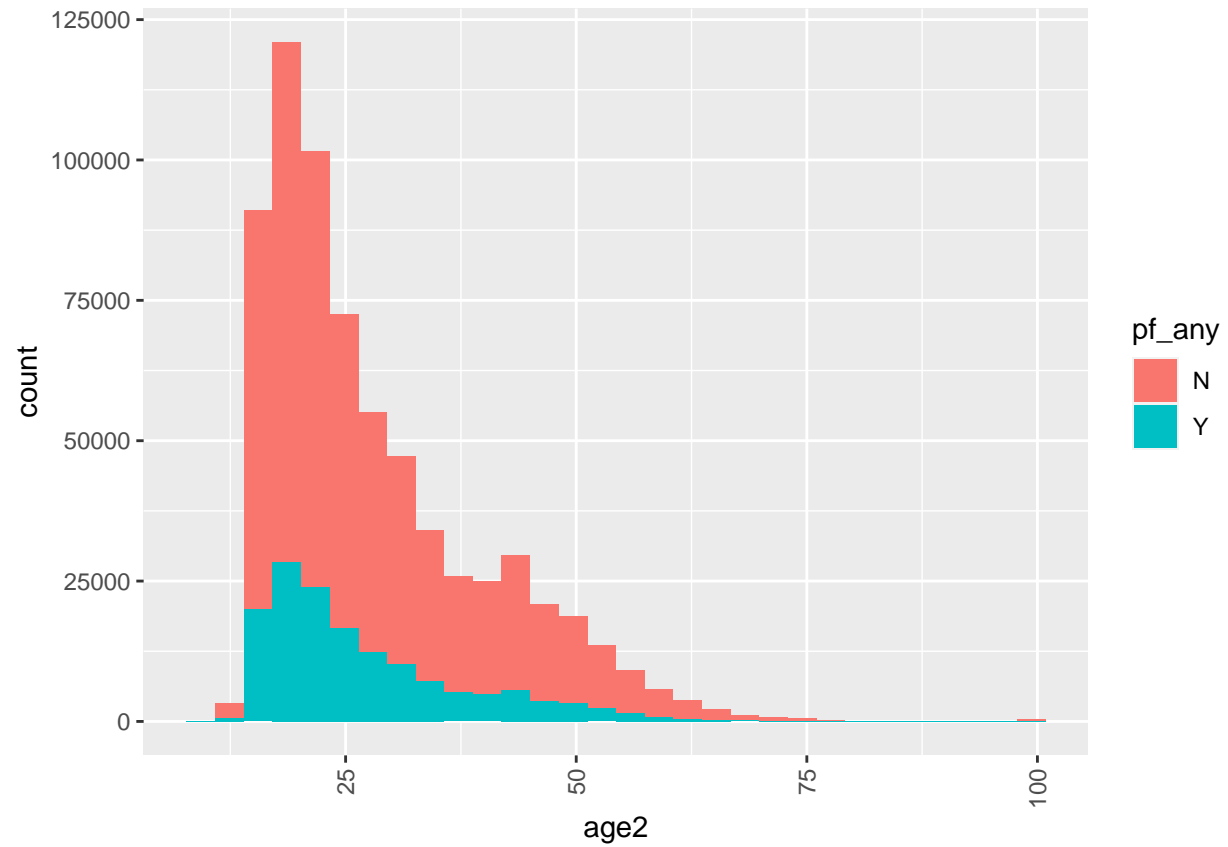
distribution of stops by pct



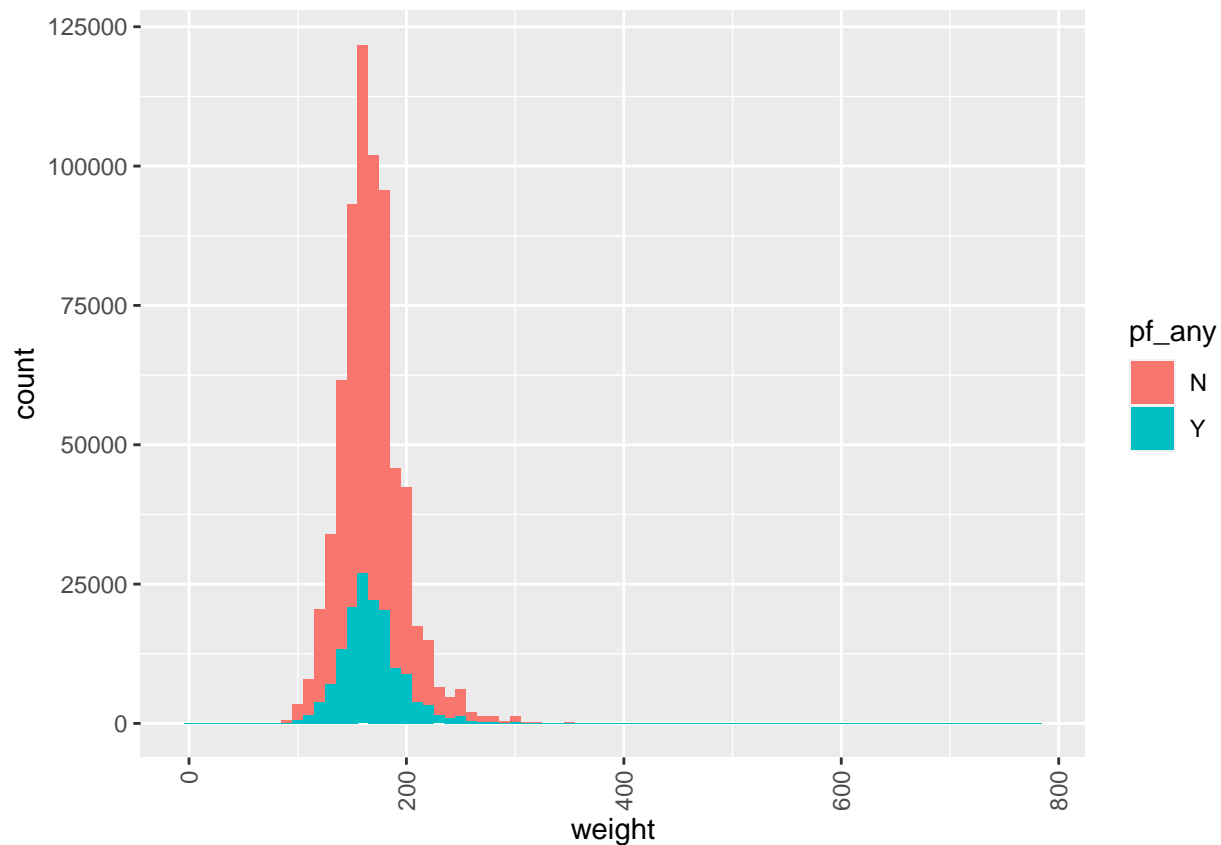
```
ggplot(nypd, aes(age2, fill=pf_any)) + geom_histogram() +
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1))
```

```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

```
## Warning: Removed 2296 rows containing non-finite values (stat_bin).
```



```
ggplot(nypd, aes(weight, fill=pf_any)) + geom_histogram(binwidth = 10) +  
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1))
```



##		V1	V2	V3
## X1	pct	47497.6981532625		0
## X2	timestop	5498.86461313763		0
## X3	inout	330.611953345481	7.07136852700545e-74	
## X4	trhsloc	2299.28876681725		0
## X5	perobs	1959.5047104162		0
## X6	crimsusp	33945.6183000056		0
## X7	perstop	6151.26513413035		0
## X8	othpers	602.745826714861	4.2321604739914e-133	
## X9	offunif	2383.92445032536		0
## X10	officrid	191.803232423336	1.28449933604009e-43	
## X11	pf_hands	562672.900195147		0
## X12	pf_wall	78086.7878890151		0
## X13	pf_grnd	8681.37508633609		0
## X14	pf_drwep	4469.26910286315		0
## X15	pf_ptwep	6358.2136100564		0
## X16	pf_baton	311.305132739749	1.13478139196341e-69	
## X17	pf_hcuff	86673.8820432227		0
## X18	pf_pepsp	383.938342176874	1.72796020052559e-85	
## X19	pf_other	13946.3624690066		0
## X20	rf_vcrim	16157.215672531		0
## X21	rf_othsw	8368.17665225962		0
## X22	ac_proxm	640.134853153089	3.12328282285286e-141	
## X23	rf_attir	6191.01526273929		0
## X24	cs_objcs	7.11224627742668	0.00765591157783905	
## X25	cs_descr	1530.9079805798		0

## X26	cs_casng	1811.6979073007	0
## X27	cs_lkout	639.526152804759	4.23637947648972e-141
## X28	rf_vcact	11692.1376059242	0
## X29	cs_cloth	775.679388801834	1.04689155938308e-170
## X30	cs_drgtr	4.93900489394274	0.0262571492073138
## X31	ac_evasv	3176.59548480188	0
## X32	ac_assoc	349.874158722282	4.51381068594009e-78
## X33	cs_furtv	4837.92069004475	0
## X34	rf_rfcmp	13257.8220141522	0
## X35	ac_cgdir	1840.3821999291	0
## X36	rf_verbl	1280.60603750107	1.85278927091643e-280
## X37	cs_vcrim	3918.28518849916	0
## X38	cs_bulge	8845.63713928444	0
## X39	cs_other	798.577081362014	1.10009348368937e-175
## X40	ac_incid	384.146986584224	1.55635910854547e-85
## X41	ac_time	196.866898602118	1.00825678014528e-44
## X42	rf_knowl	1934.66972585337	0
## X43	ac_stsnd	176.060122689363	3.51323355096724e-40
## X44	ac_other	238.713102669345	7.5042909602471e-54
## X45	rf_furt	50348.5188282665	0
## X46	rf_bulg	10132.1863436312	0
## X47	offverb	2700.87488132569	0
## X48	offshld	2243.67581743539	0
## X49	sex	1353.8077262446	1.05776079686014e-294
## X50	race	2372.73889277885	0
## X51	weight	686.749924090884	3.33745824950733e-29
## X52	haircolr	439.82785410175	3.08553050393792e-88
## X53	eyecolor	286.408735381411	3.33469325727934e-54
## X54	build	120.573595432374	4.02849983281034e-25
## X55	othfeatr	120.573595432374	4.02849983281034e-25
## X56	premname	29480.9636800516	0
## X57	addrnum	28841.707104239	0
## X58	stname	26231.7691610004	0
## X59	stinter	51447.3798099907	0
## X60	crossst	49945.9273949462	0
## X61	aptnum	49945.9273949462	0
## X62	city	10722.4048617113	0
## X63	addrpct	47499.0684987391	0
## X64	sector	923.165067973165	1.30260670407292e-183
## X65	beat	2298.38559927996	0
## X66	post	1393.80445909054	5.60390454644962e-228
## X67	detailcm	28014.0007751851	0
## X68	dob2	26008.6922916149	1.21081289403989e-120
## X69	datestop2	4609.68172907236	0
## X70	age2	2157.56739228751	0
## X71	full_height	371.10108228828	1.28738157173556e-47
## X72	pf_any	685718.093792778	0
## X73	pf_type	685724	0
## X74	pf_total	685724	0