

Final Project Donors Choose

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Load Libraries

```

options(warn = -1)
options(scipen = 999) # turns off scientific notation
library(tidyverse)
library(tidymodels)
library(dplyr)
library(janitor)
library(skimr)
library(modelr)
library(GGally)
library(kableExtra) # make nice looking results when we knit
library(fastshap) # shapley values for variable importance
library(MASS)
library(tree)
library(ggplot2)
library(corrplot)
library(factoextra)
library(rpart.plot) # plotting decision trees
library(lubridate)
library(vip)
library(NeuralNetTools) # visualization of neural networks
library(reshape2)
library(PerformanceAnalytics)

```

Load Data

```

donormerge <- read_csv("DonorMerge_Final.csv") %>% clean_names() %>% mutate(days_from_now = as.numeric(Sys.Date() - mdy(date_posted))) %>% dply
r:::select(-date_posted)

head(donormerge)

```

projectid	teacher_acctid	schoolid
<chr>	<chr>	<chr>
1a3aaeffc56dd2a421e37d8298024c0a	f4c9ed095b85458dcf858e25f203af00	9310d3eb447a4e46bc5fc31ed007ceac
33aa19ee4da4c5adf47d0dfb84fab5ef	17768031eb40de8d4497dbb54df48742	9ac70da58322783f82152eecc140a812
e31c0ea8b68f404699dfb0d39e9bc99b	0f1bc5b4700fd33383be104442660178	cb9f688cf59e3ee22a087d616ca8f5d7
c685c844476d7ed75bf87699eeafdf682	4b19500fb087a635c98061505f1e6c6f	34c650f9f6d5c3e42b8e2169c280ecb7
a4b234feb2b72921ed59850d5c873d62	620982375045fa11d872702f26ab98bb	da1985df161ba5c3842fc99579b6e4b1
0ff5dec32bf793243a8b0b2c023a81f0	ec5b110df87bd511b508961676d08b6c	72e2b0cb2eecfdc37e67e0eaf10da07b

6 rows | 1-3 of 40 columns

```
skim(donormerge)
```

Data summary

Name	donormerge
Number of rows	328018
Number of columns	40

Column type frequency:

character	16
logical	12
numeric	12

Group variables	None
-----------------	------

Variable type: character

skim_variable	n_missing	complete_rate	min	max	empty_n	unique	whitespace
projectid	0	1.00	32	32	0	328018	0
teacher_acctid	0	1.00	32	32	0	160300	0
schoolid	0	1.00	32	32	0	46190	0
school_city	0	1.00	2	19	0	7820	0
school_state	0	1.00	2	2	0	52	0
school_metro	40019	0.88	5	8	0	3	0
school_district	501	1.00	5	74	0	7960	0
school_county	8	1.00	3	24	0	1625	0
teacher_prefix	0	1.00	3	4	0	4	0
primary_focus_subject	23	1.00	3	21	0	27	0
primary_focus_area	23	1.00	13	19	0	7	0
secondary_focus_subject	103265	0.69	3	21	0	27	0
secondary_focus_area	103265	0.69	13	19	0	7	0
resource_type	26	1.00	5	10	0	6	0
poverty_level	0	1.00	11	16	0	4	0
grade_level	3	1.00	10	13	0	4	0

Variable type: logical

skim_variable	n_missing	complete_rate	meancount
is_exciting	0	1.00	0.11FAL: 291308, TRU: 36710
one_non_teacher_referred_donor_g	47338	0.86	0.72TRU: 202773, FAL: 77907
school_charter	0	1.00	0.09FAL: 298820, TRU: 29198
school_magnet	0	1.00	0.09FAL: 297022, TRU: 30996
school_year_round	0	1.00	0.05FAL: 311592, TRU: 16426
school_nlns	0	1.00	0.02FAL: 322847, TRU: 5171
school_kipp	0	1.00	0.01FAL: 325684, TRU: 2334
school_charter_ready_promise	0	1.00	0.01FAL: 326282, TRU: 1736
teacher_teach_for_america	0	1.00	0.06FAL: 308069, TRU: 19949
teacher_ny_teaching_fellow	0	1.00	0.02FAL: 322150, TRU: 5868
eligible_double_your_impact_matc	0	1.00	0.28FAL: 237135, TRU: 90883
eligible_almost_home_match	0	1.00	0.06FAL: 308053, TRU: 19965

Variable type: numeric

skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75
school_ncesid	21067	0.94260675170815.25159052207728.4310000500870.0090495001040.50261000000000.00370000000000.006100						
school_latitude	0	1.00	37.24	4.66	18.25	34.04	37.67	40.76
school_longitude	0	1.00	-93.44	17.81	-171.69	-112.05	-87.69	-79.15
school_zip	2	1.00	53102.86	31232.05	410.00	27589.00	53089.00	85225.00
great_messages_proportion	89712	0.73	54.82	35.07	0.00	33.00	57.00	84.00
teacher_referred_count	47338	0.86	0.93	2.35	0.00	0.00	0.00	1.00
non_teacher_referred_count	47338	0.86	4.58	5.91	0.00	1.00	3.00	5.00
fulfillment_labor_materials	17492	0.95	27.62	8.81	9.00	17.00	30.00	35.00
total_price_excluding_optional_s	0	1.00	551.09	18019.38	0.00	268.17	410.58	579.10
total_price_including_optional_s	0	1.00	656.19	21973.64	0.00	319.02	487.50	688.16
students_reached	82	1.00	99.60	2733.94	0.00	22.00	30.00	100.00
days_from_now	0	1.00	4314.46	799.21	3263.00	3686.00	4152.00	4811.00

```
donations <- read_csv("Donations.csv") %>% clean_names()
head(donations)
```

donationid	projectid	donor_acctid
<chr>	<chr>	<chr>
431d720bc3dfd75ae445a5eaa0b0638d	fffffac55ee02a49d1abc87ba6fc61135	22cbc920c9b5fa08dfb331422f5926b5
fcfedba1c8a0ba77d280cace80a909f6	fffffac55ee02a49d1abc87ba6fc61135	521f1830a77c9dbbf8119d99c6206a16
3fa95d29986aa6f401c6719ced3a3ce7	fffffac55ee02a49d1abc87ba6fc61135	1e0a63fc8141c7ba26b8b44ca0871b90
020ad6bd5e88a35741d23b5e08f8b8e8	fffffac55ee02a49d1abc87ba6fc61135	1d4acb508df29d5f1cc6d382969576cb
4b44b03f304d6425ae94446686f93cd6	fffffac55ee02a49d1abc87ba6fc61135	59c3c3cfcccc53ae855f7eee911c478b
9be4b22432cae4c9ad0a8f8b45e23549	fffffac55ee02a49d1abc87ba6fc61135	2215e4e3f54e8834284906fedca89383

6 rows | 1-3 of 21 columns

```
skim(donations)
```

Data summary

Name	donations
Number of rows	1048575
Number of columns	21

Column type frequency:

character	9
logical	8
numeric	4

Group variables None

Variable type: character

skim_variable	n_missing	complete_rate	min	max	empty	n_unique	whitespace
donationid	4	1.00	3	32	0	1048567	0
projectid	12	1.00	32	32	0	177220	0
donor_acctid	12	1.00	32	32	0	535332	0
donor_city	680117	0.35	1	49	0	13989	0
donor_state	221527	0.79	2	2	0	59	0
donation_timestamp	12	1.00	7	16	0	53536	0
dollar_amount	12	1.00	8	10	0	3	0
payment_method	12	1.00	5	24	0	8	0
donation_message	270829	0.74	11756	0	356169		0

Variable type: logical

skim_variable	n_missing	complete_rate	mean	count
is_teacher_acct	12	1	0.12	FAL: 927311, TRU: 121252
donation_included_optional_support	12	1	0.90	TRU: 943033, FAL: 105530
payment_included_acct_credit	12	1	0.11	FAL: 937357, TRU: 111206
payment_included_campaign_gift_card	12	1	0.33	FAL: 698151, TRU: 350412
payment_included_web_purchased_gift_card	12	1	0.05	FAL: 991614, TRU: 56949
payment_was_promo_matched	12	1	0.08	FAL: 961894, TRU: 86669
via_giving_page	12	1	0.33	FAL: 702057, TRU: 346506
for_honoree	12	1	0.02	FAL: 1027045, TRU: 21518

Variable type: numeric

skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
donor_zip	580556	0.4550667	1733285.39	0.0020003	0.046902	0.0089135.00	99999	99999	99999	
donation_to_project	12	1.00	65.75	215.43	-11.80	10.0	21.25	50.00	85.00	
donation_optional_support	12	1.00	10.70	32.97	-0.02	1.5	3.75	7.50	15.00	
donation_total	12	1.00	76.45	243.75	-11.80	10.0	25.00	56.47	100.00	

drop columns: drop secondary_focus_subject, secondary_focus_area (>20% missing values)

Explantory Data Analysis (EDA)

Explore Target (donormerge)

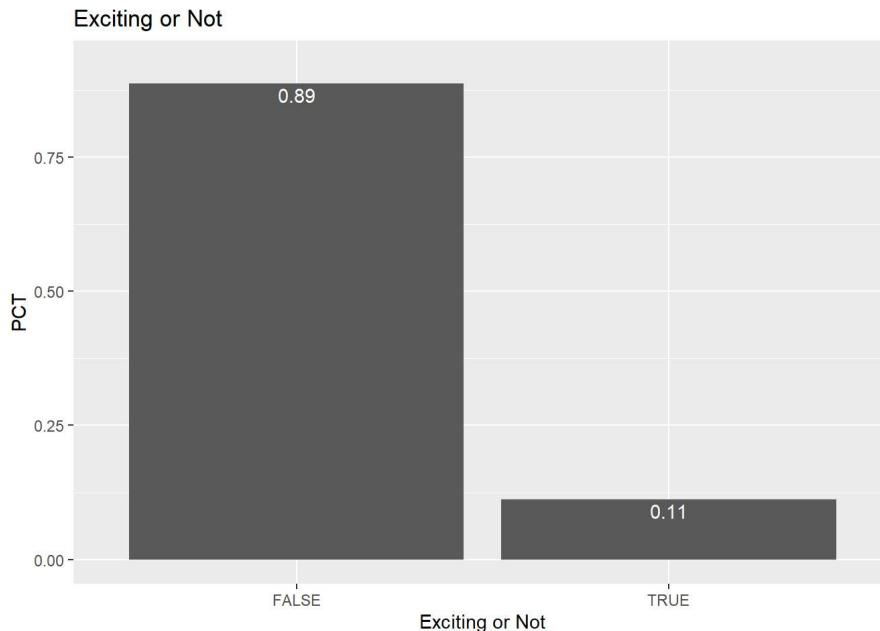
```
donormerge_summary <- donormerge %>%
  count(is_exciting) %>%
  mutate(pct = n/sum(n))

donormerge_summary
```

is_exciting	n	pct
<lg>	<int>	<dbl>
FALSE	291308	0.8880854
TRUE	36710	0.1119146

2 rows

```
donormerge_summary %>%
  ggplot(aes(x=factor(is_exciting),y=pct)) +
  geom_col() +
  geom_text(aes(x=factor(is_exciting), y=pct+0.034, label=round(pct,2)), vjust=2.5, colour="white") +
  labs(title="Exciting or Not", x="Exciting or Not", y="PCT")
```



Explore Numerics (donormerge)

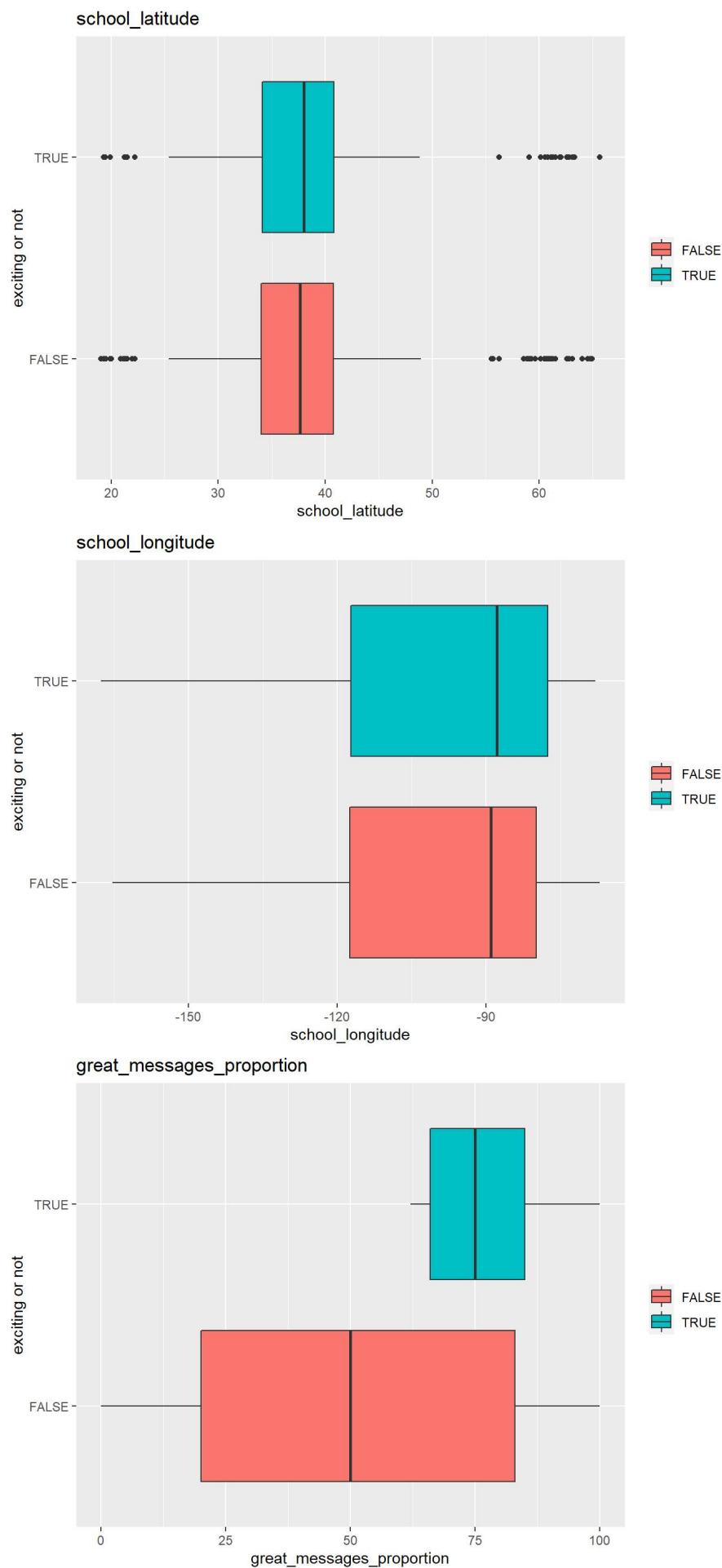
numeric variables: school_latitude, school_longitude, great_messages_proportion, total_price_excluding_optional_s, total_price_including_optional_s, students_reached, days_from_now

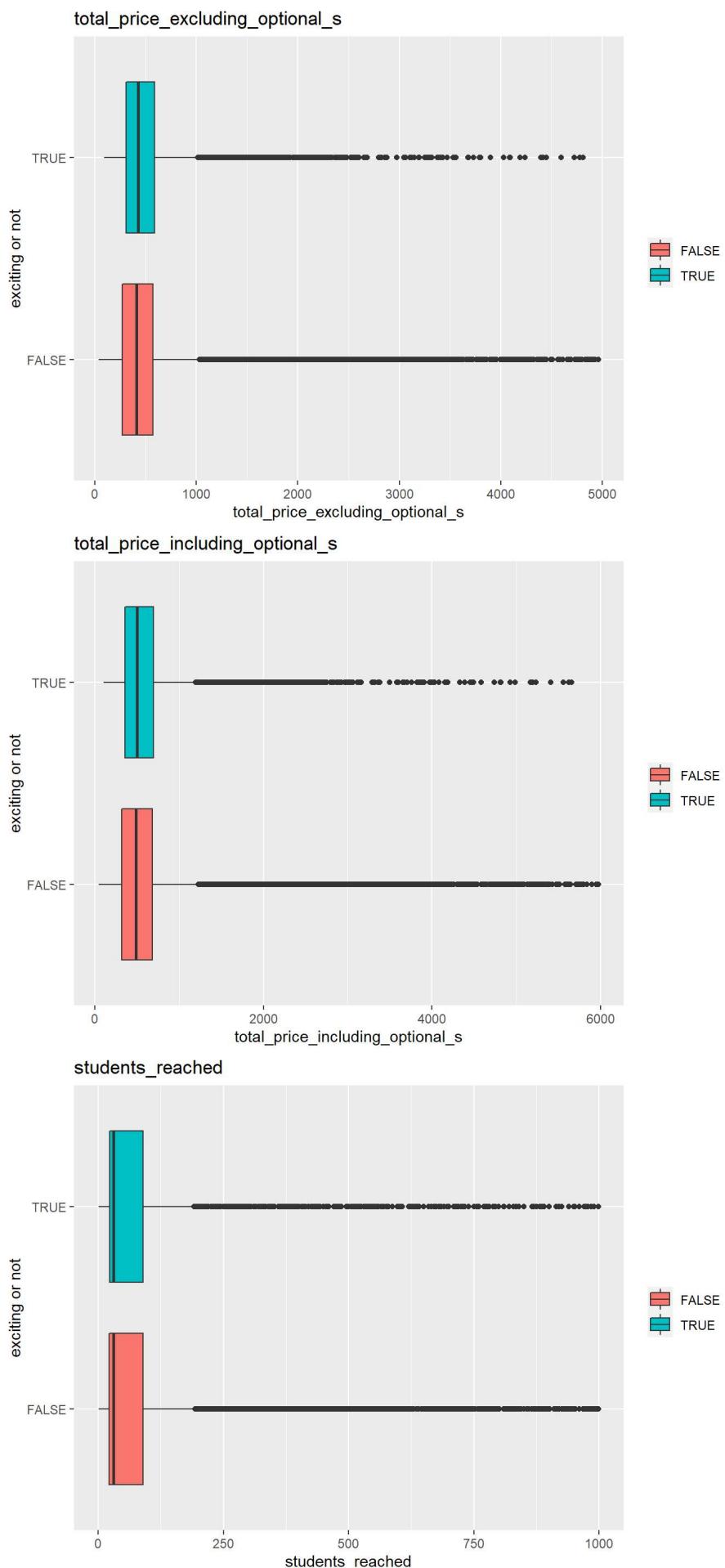
```
# -- comparative boxplots

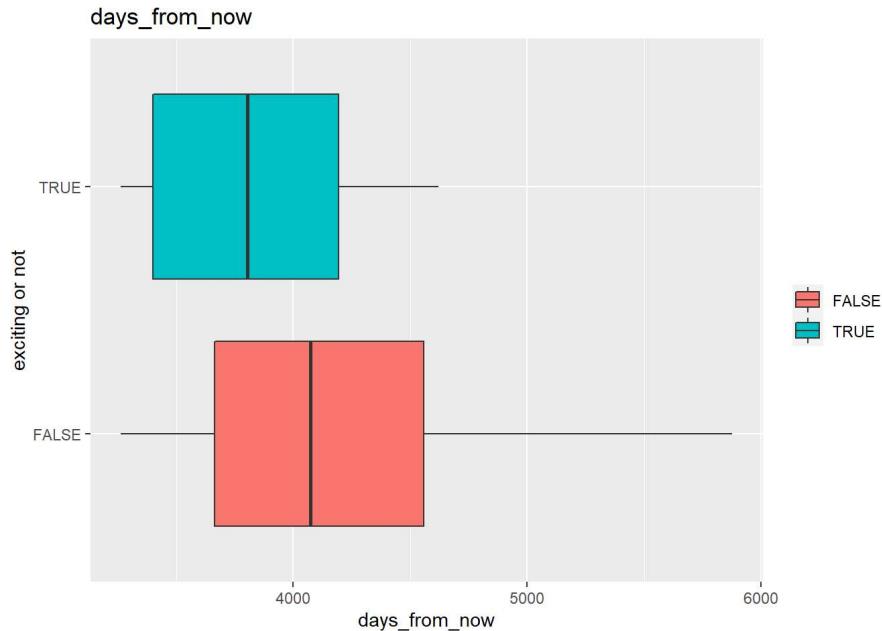
boxplot <- function(m){
  donormerge %>%
    na.omit() %>%
    filter(total_price_excluding_optional_s < 5000 & students_reached < 1000) %>%
    ggplot(aes(x=!!as.name(m), y=as.factor(is_exciting), fill=as.factor(is_exciting))) +
    geom_boxplot() +
    labs(title = as.character(m), y = 'exciting or not') +
    theme(legend.title = element_blank())
}

numerics <- c('school_latitude', 'school_longitude', 'great_messages_proportion', 'total_price_excluding_optional_s', 'total_price_including_optional_s', 'students_reached', 'days_from_now')

for (c in numerics){
  print(boxplot(c))
}
```







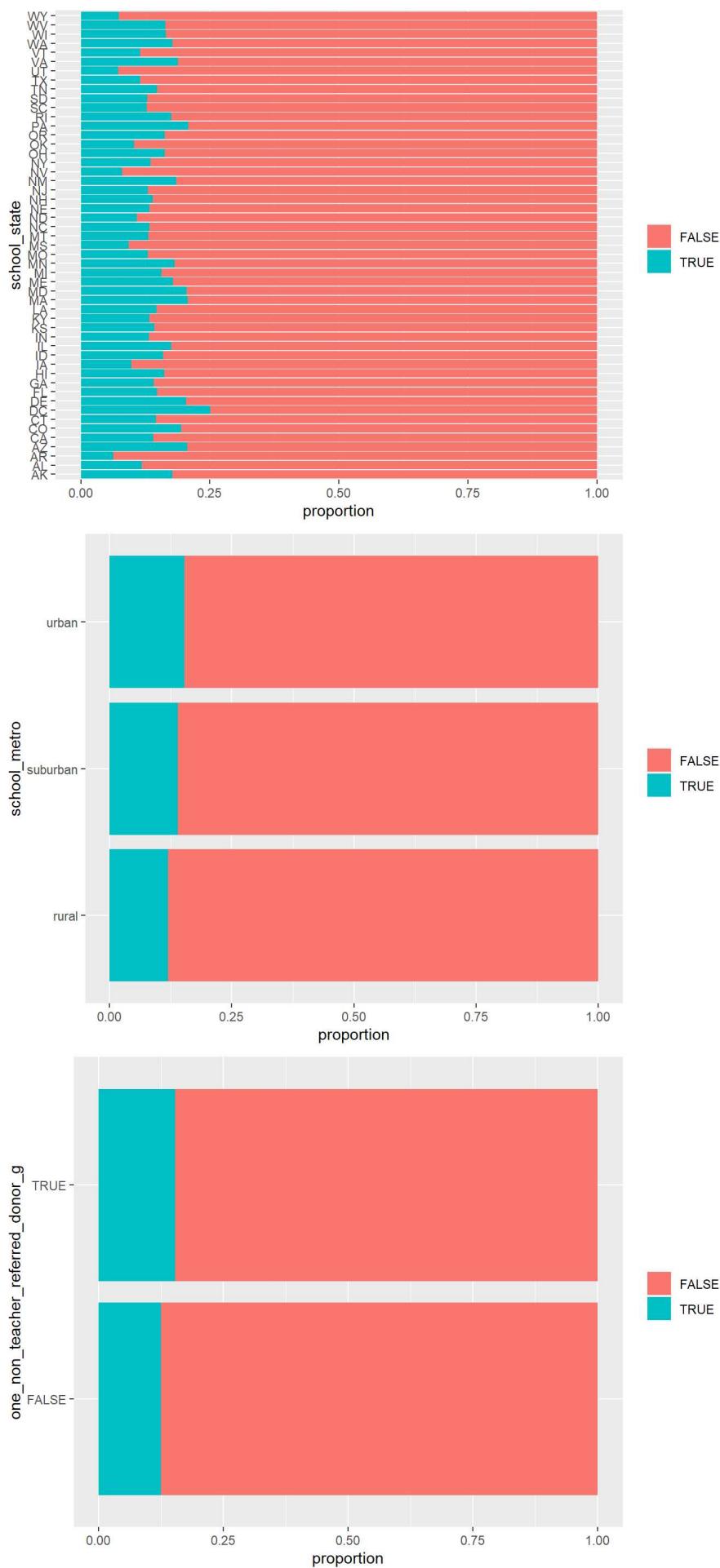
Explore Character Variables (donormerge)

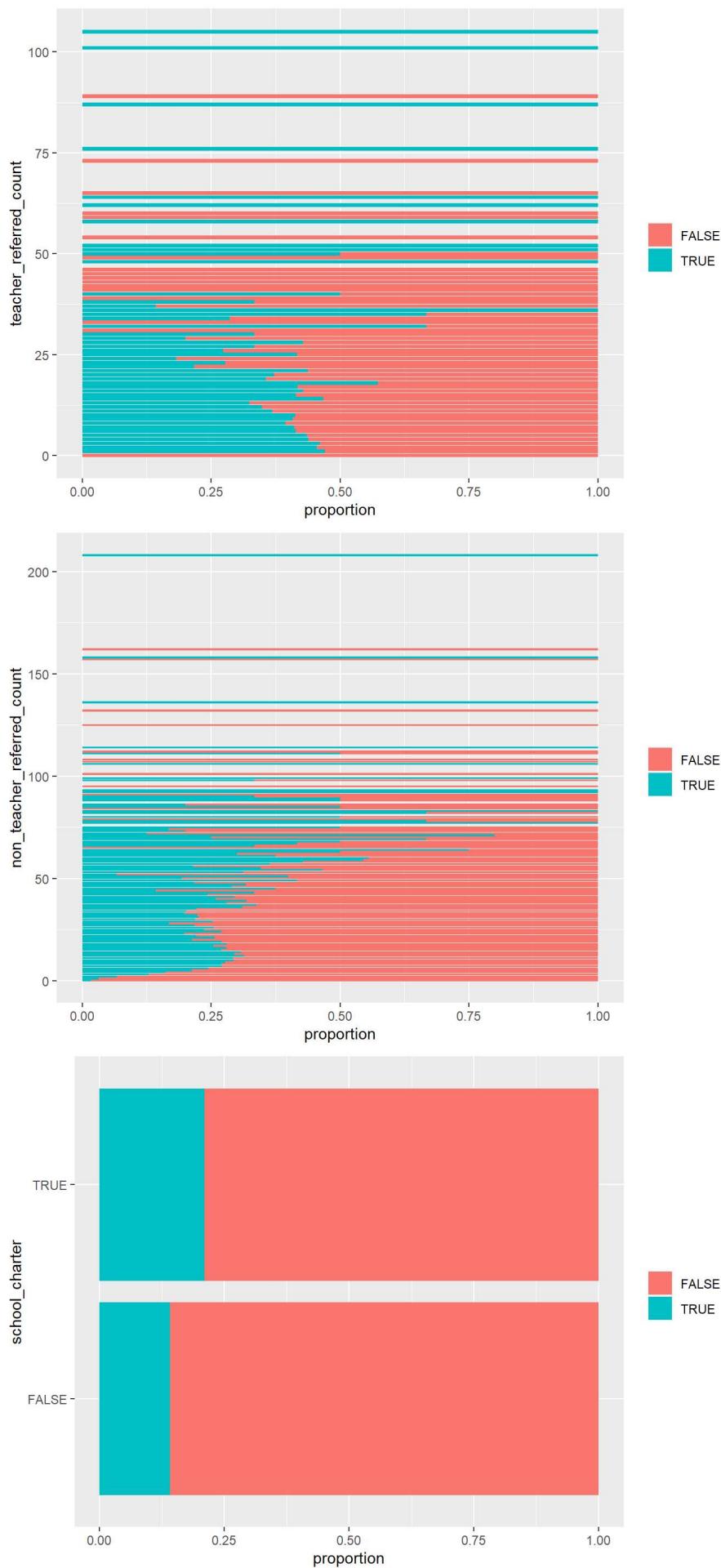
categorical variables: school_state, school_metro, one_non_teacher_referred_donor_g, teacher_referred_count, non_teacher_referred_count, school_charter, school_magnet, school_year_round, school_nlins, school_kipp, school_charter_ready.promise, teacher_prefix, teacher_teach_for_america, teacher_ny_teaching_fellow, primary_focus_subject, primary_focus_area, secondary_focus_subject, secondary_focus_area, resource_type, poverty_level, grade_level, fulfillment_labor_materials, eligible_double_your_impact_matc, eligible_almost_home_match

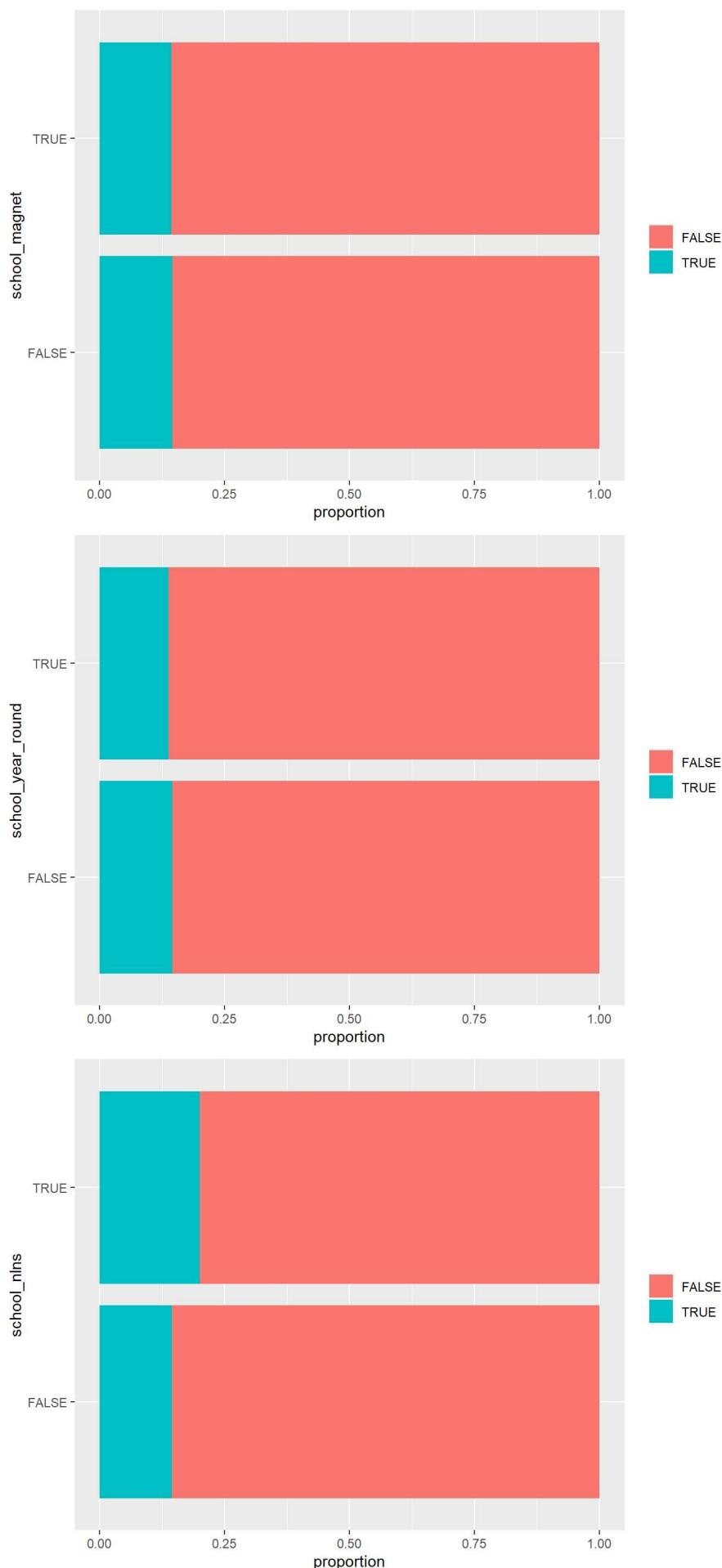
```
char_fill <- function(col) {
  donormerge %>%
  na.omit() %>%
  ggplot(aes(!as.name(col), fill = as.factor(is_exciting))) +
  geom_bar(position = 'fill') +
  coord_flip() +
  labs(y = 'proportion') +
  theme(legend.title = element_blank())
}

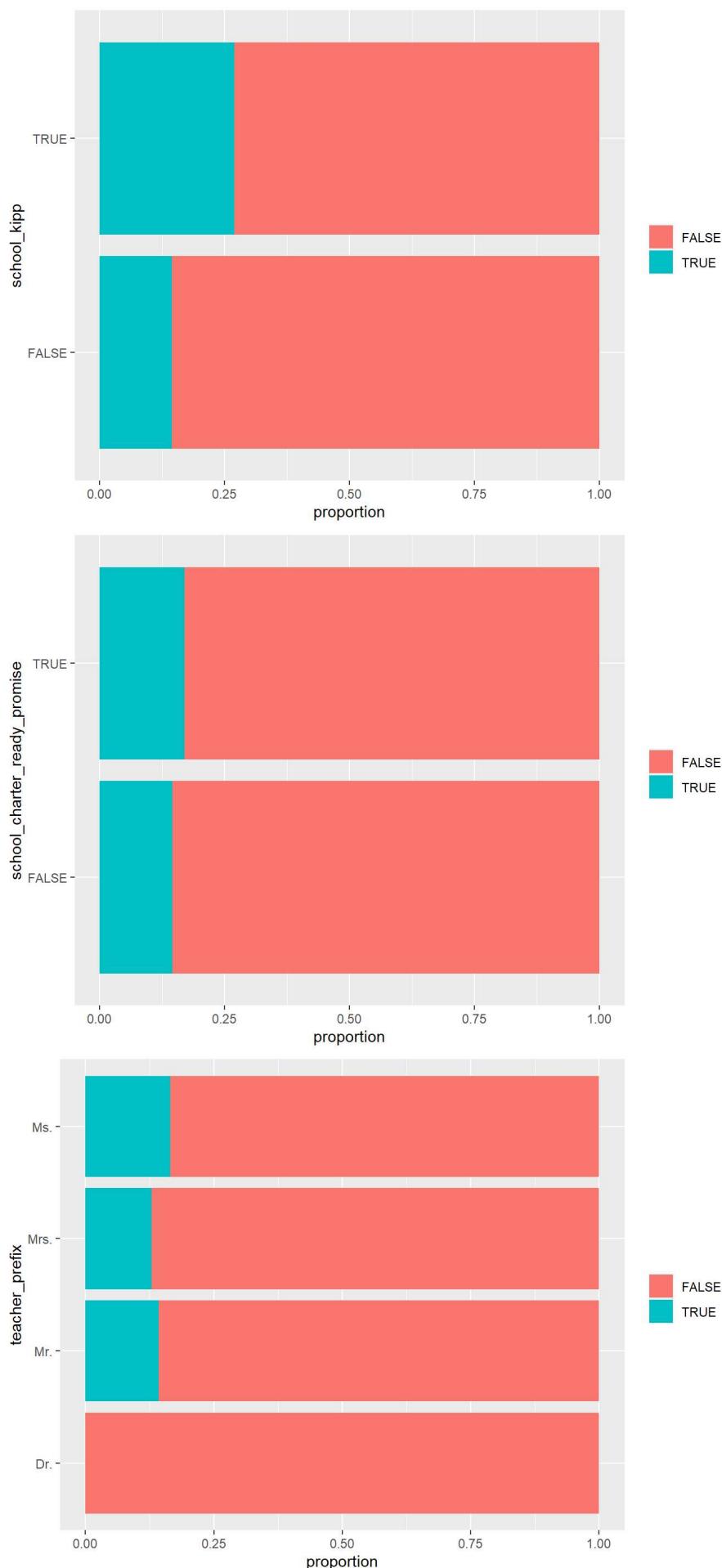
dummy <- c('school_state', 'school.metro', 'one_non_teacher_referred_donor.g', 'teacher_referred_count', 'non_teacher_referred_count', 'school_charter', 'school_magnet', 'school.year.round', 'school_nlins', 'school_kipp', 'school_charter_ready.promise', 'teacher_prefix', 'teacher_teach_for_america', 'teacher_ny_teaching_fellow', 'primary_focus_subject', 'primary_focus_area', 'secondary_focus_subject', 'secondary_focus_area', 'resource_type', 'poverty_level', 'grade_level', 'fulfillment_labor_materials', 'eligible_double_your_impact_matc', 'eligible_almost_home_match')

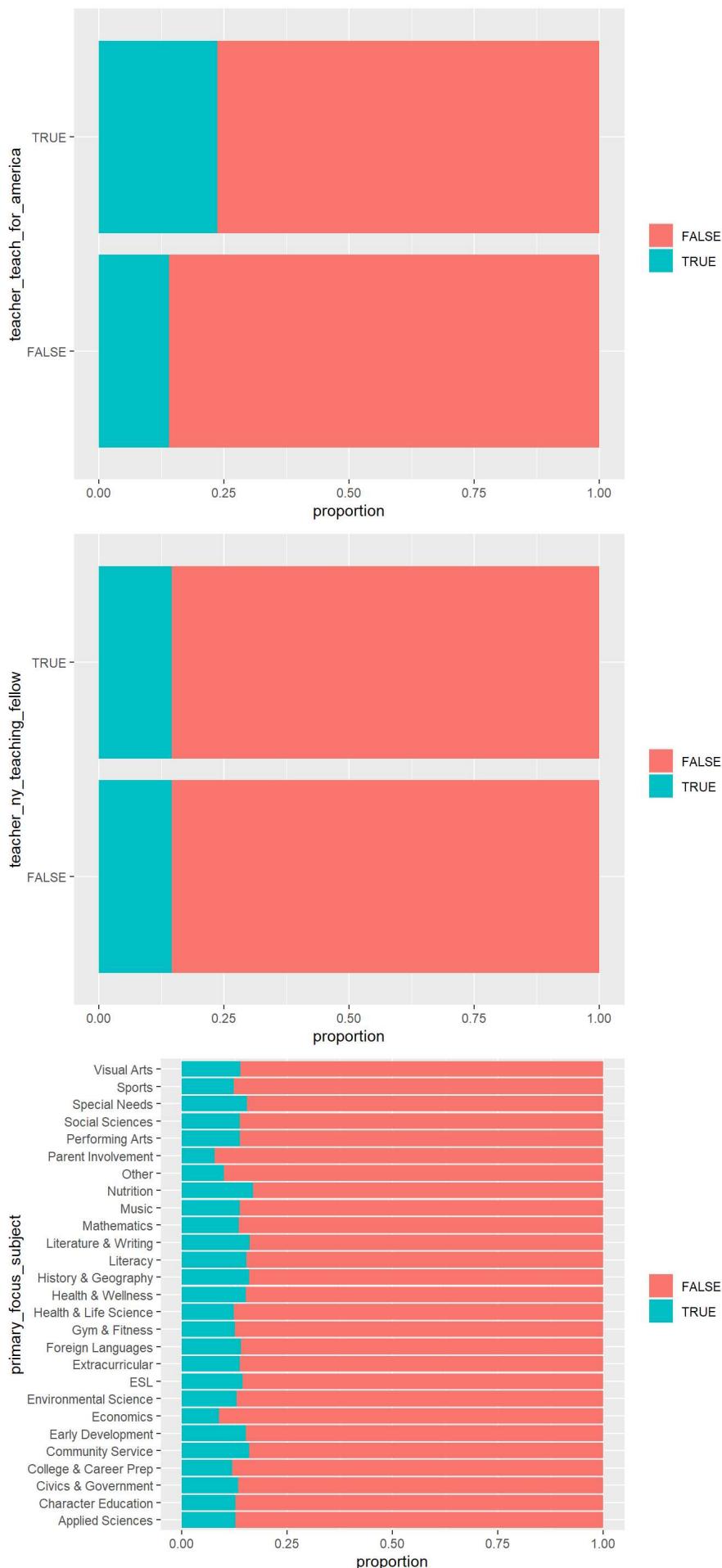
# -- for each character column, create a chart
for (column in dummy){
  print(char_fill(column))
}
```



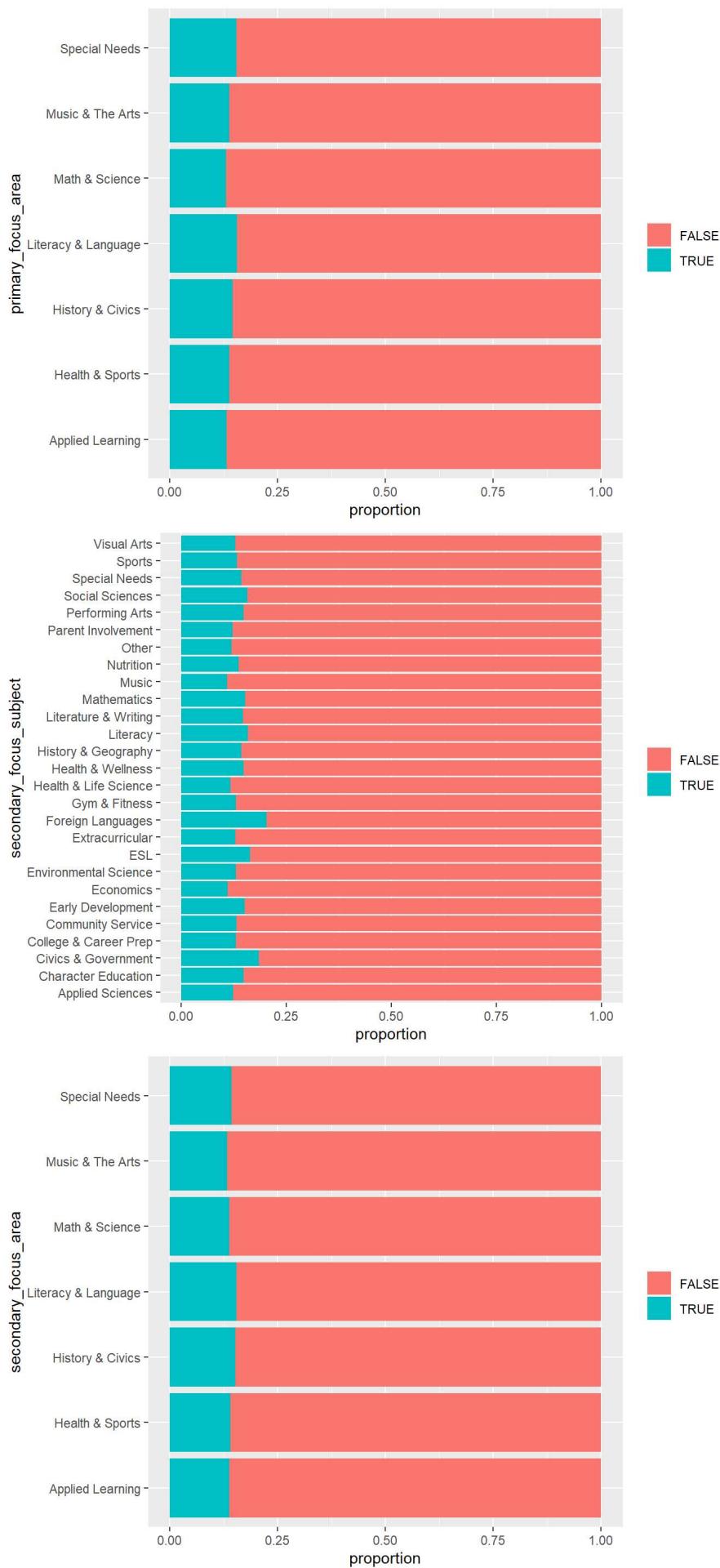




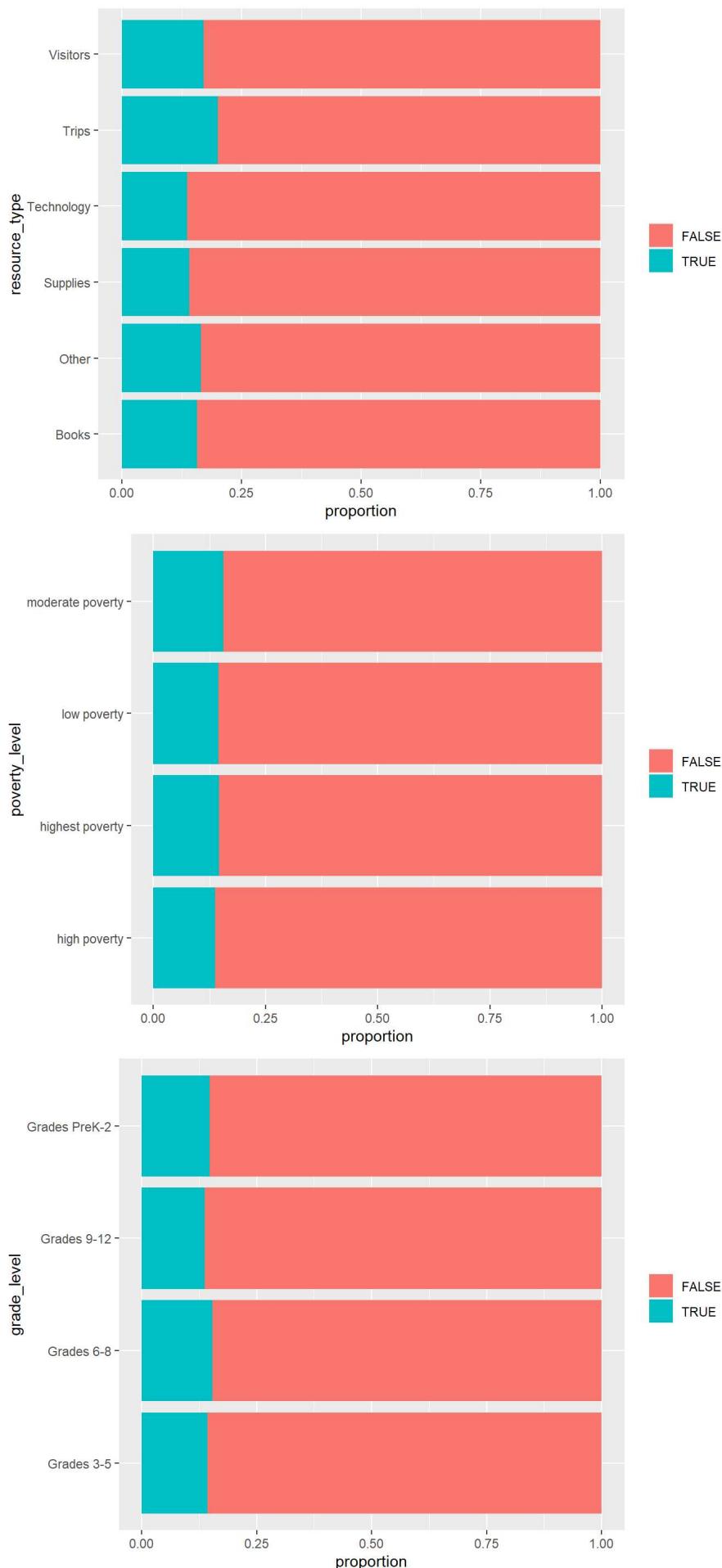


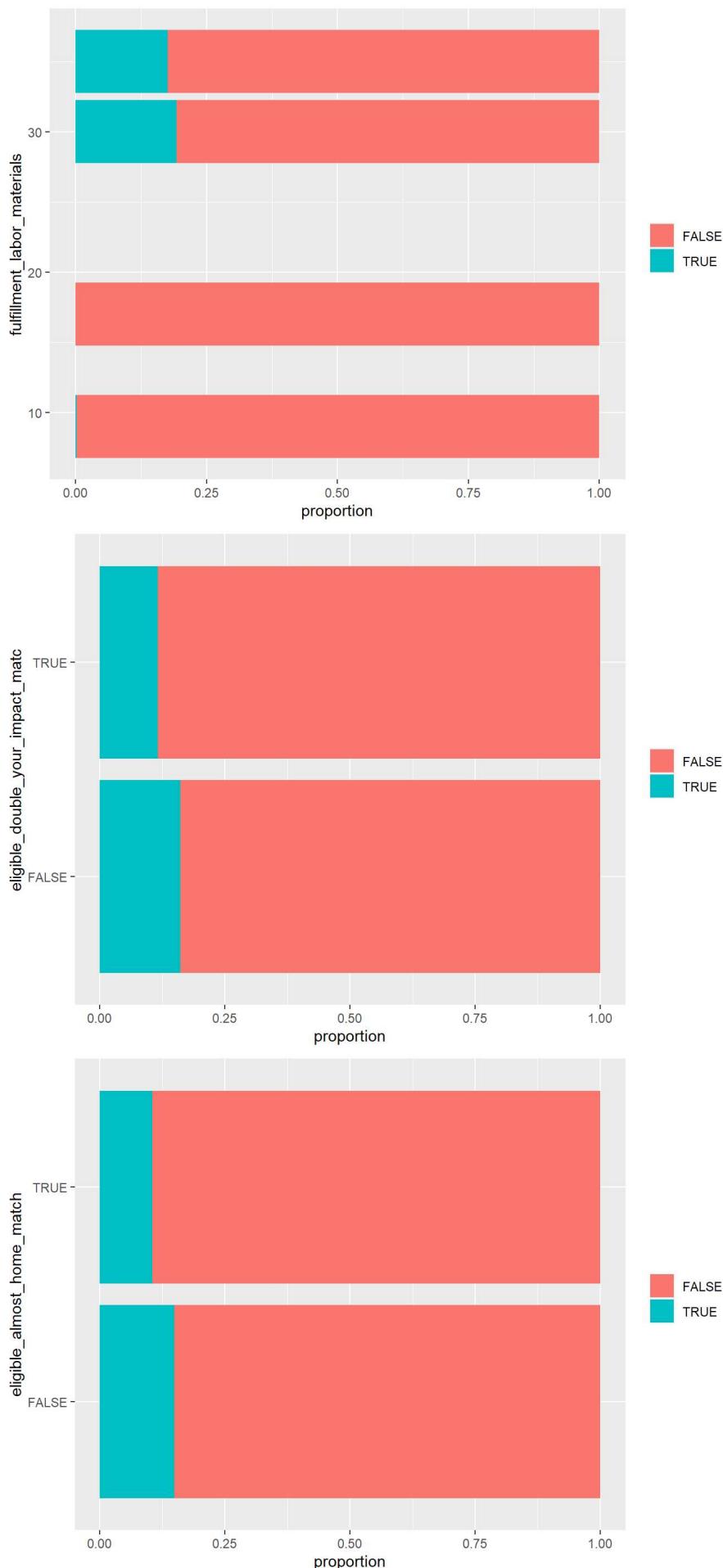


Final Project Donors Choose



Final Project Donors Choose





Correlations (donormerge)

create a correlation matrix of key numeric variables: school_latitude, school_longitude, great_messages_proportion, total_price_excluding_optional_s, students_reached, days_from_now

hint: you need to deal with missing values

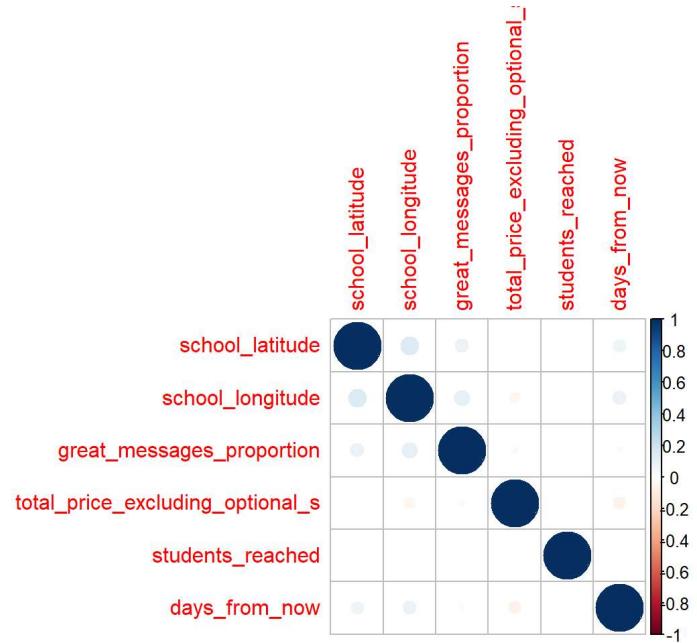
```
cor_analysis <- donormerge %>%
  filter(total_price_excluding_optional_s < 5000 & students_reached < 1000) %>%
  na.omit() %>%
  dplyr::select(school_latitude, school_longitude, great_messages_proportion, total_price_excluding_optional_s, students_reached, days_from_now)
  %%>
  cor() %>%
  melt() %>%
  arrange(desc(value))

cor_analysis_1 <- donormerge %>%
  na.omit() %>%
  dplyr::select(school_latitude, school_longitude, great_messages_proportion, total_price_excluding_optional_s, students_reached, days_from_now)

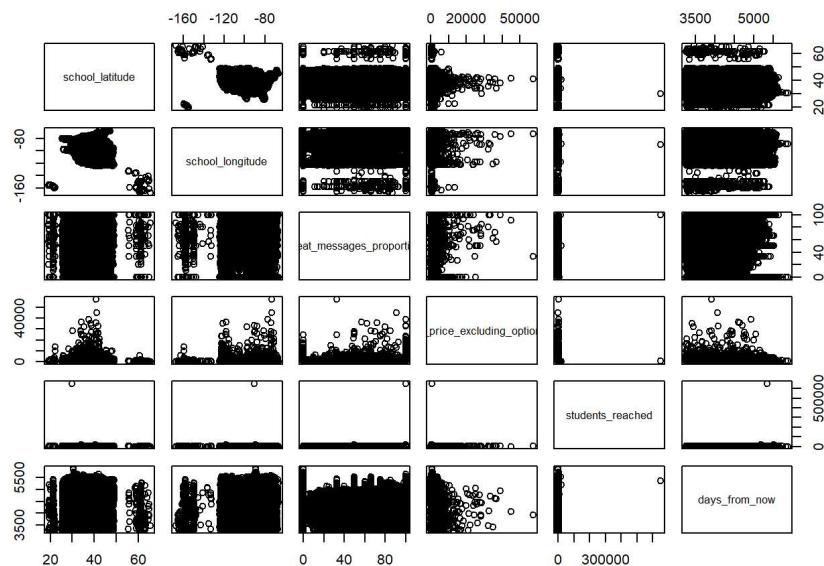
cormat <- cor(cor_analysis_1)
round(cormat, 2)
```

	school_latitude	school_longitude
## school_latitude	1.00	0.15
## school_longitude	0.15	1.00
## great_messages_proportion	0.08	0.11
## total_price_excluding_optional_s	0.00	-0.05
## students_reached	-0.01	0.00
## days_from_now	0.07	0.08
## great_messages_proportion		
## school_latitude		0.08
## school_longitude		0.11
## great_messages_proportion		1.00
## total_price_excluding_optional_s		-0.02
## students_reached		0.00
## days_from_now		0.03
## total_price_excluding_optional_s		
## school_latitude		0.00
## school_longitude		-0.05
## great_messages_proportion		-0.02
## total_price_excluding_optional_s		1.00
## students_reached		0.01
## days_from_now		-0.06
## students_reached		
## days_from_now		
## school_latitude	-0.01	0.07
## school_longitude	0.00	0.08
## great_messages_proportion	0.00	0.03
## total_price_excluding_optional_s	0.01	-0.06
## students_reached	1.00	0.00
## days_from_now	0.00	1.00

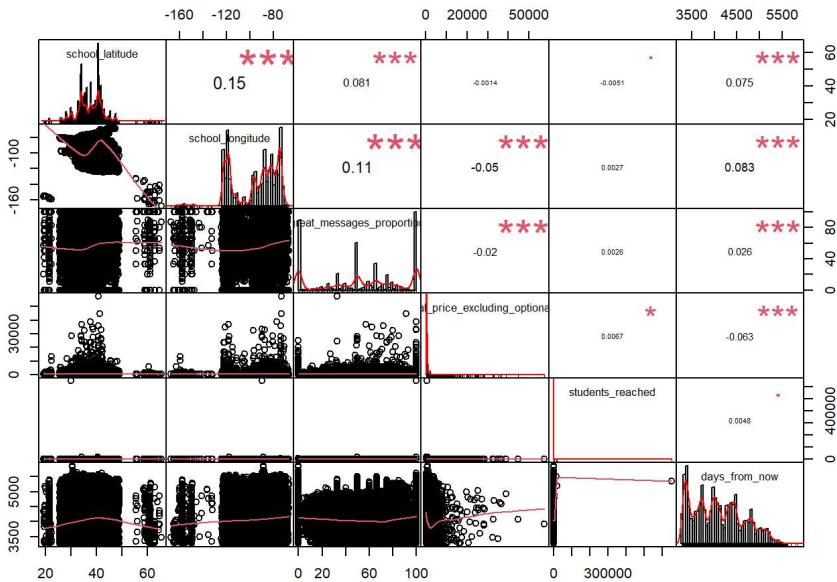
```
corrplot(cormat)
```



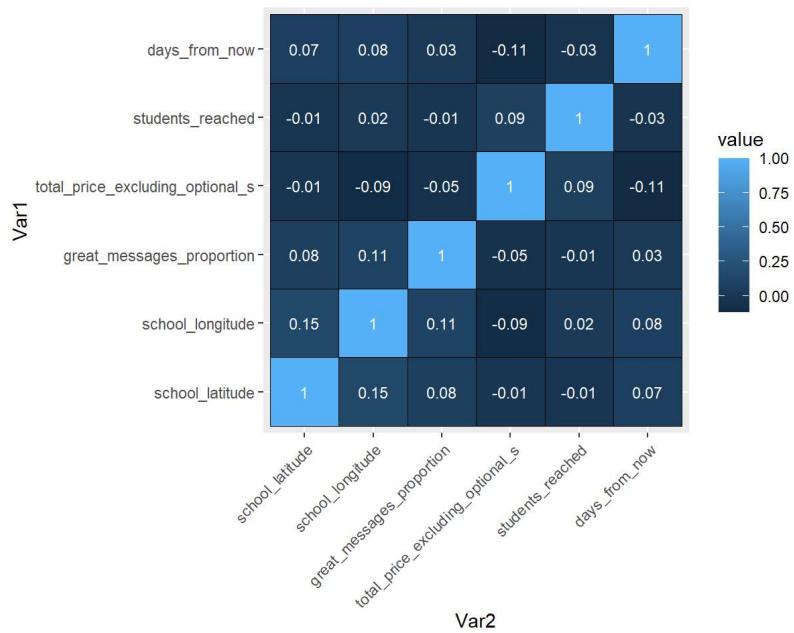
```
pairs(cor_analysis_1)
```



```
chart.Correlation(cor_analysis_1, histogram=TRUE, pch=4)
```



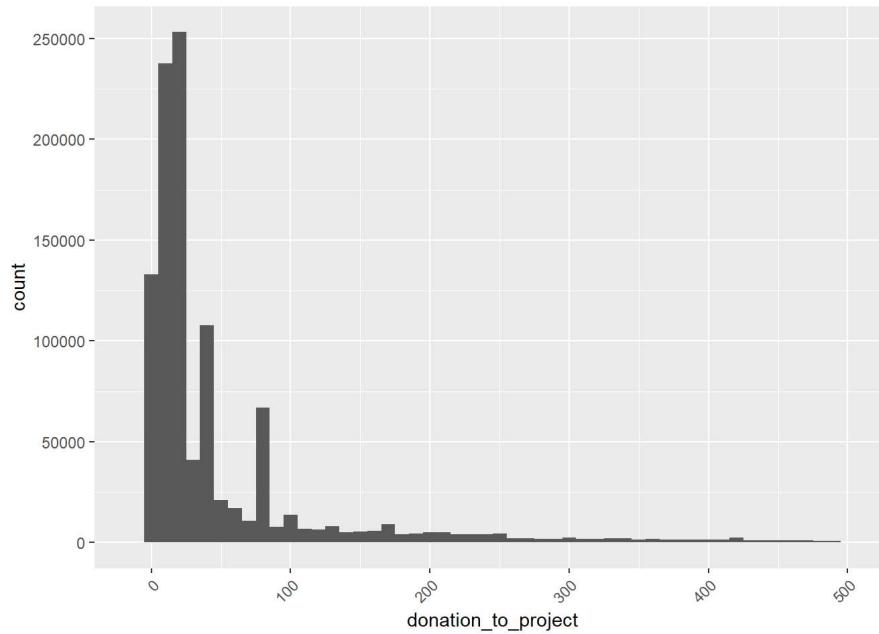
```
cor_analysis %>%
  ggplot(aes(Var2, Var1, fill = value)) +
  geom_tile(color = "black") + geom_text(aes(label = round(value, 2)), color = "white", size = 3) +
  coord_fixed() +
  theme(axis.text.x=element_text(angle=45, hjust=1))
```



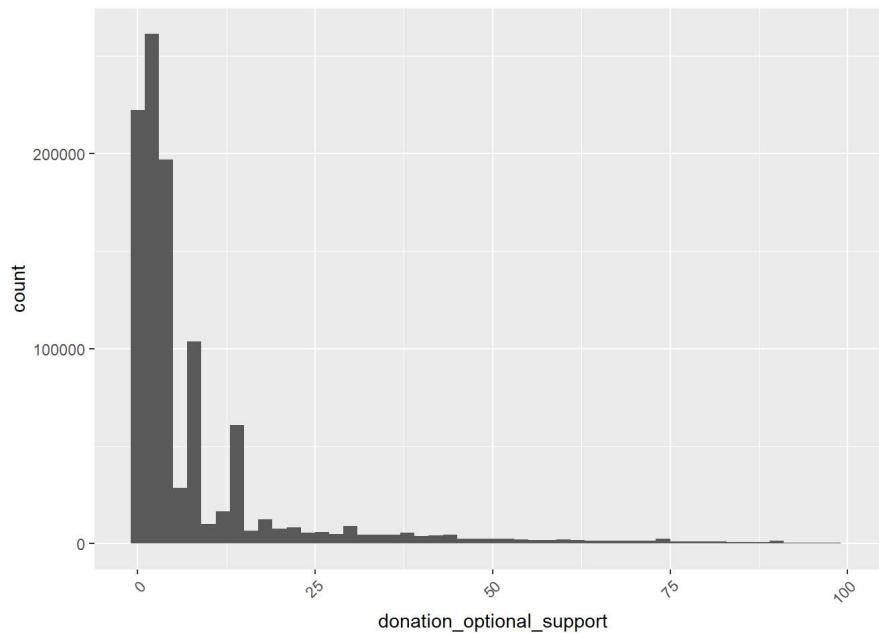
Explore Numerics (donations)

numeric variables: donation_to_project, donation_optional_support, donation_total

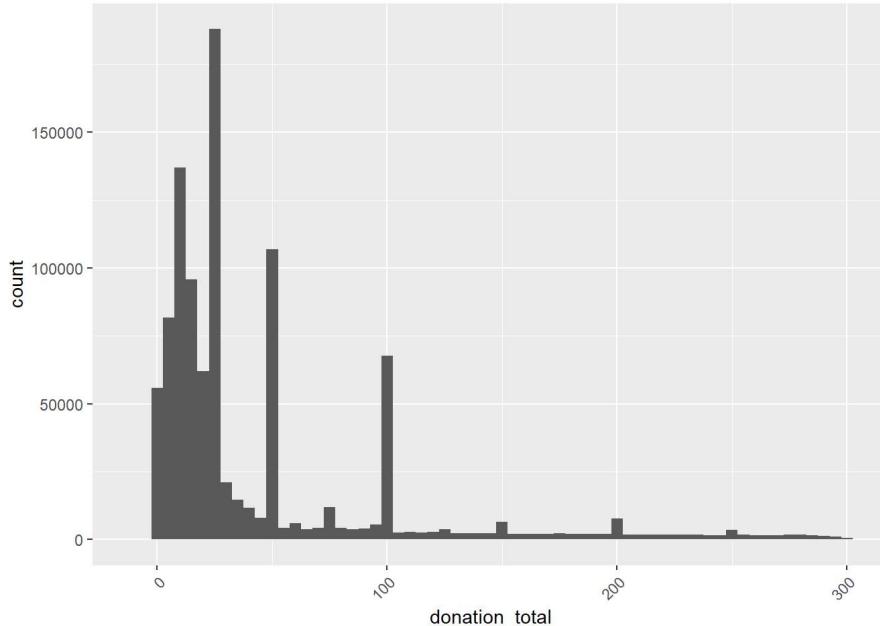
```
donations %>% filter(donation_to_project<500) %>% ggplot(aes(x=donation_to_project)) + geom_histogram(binwidth=10) + theme(axis.text.x=element_text(angle=45, hjust=1))
```



```
donations %>% filter(donation_optional_support<100) %>% ggplot(aes(x=donation_optional_support)) + geom_histogram(binwidth=2) + theme(axis.text.x =element_text(angle=45, hjust=1))
```



```
donations %>% filter(donation_total<300) %>% ggplot(aes(x=donation_total)) + geom_histogram(binwidth=5) + theme(axis.text.x=element_text(angle=45, hjust=1))
```



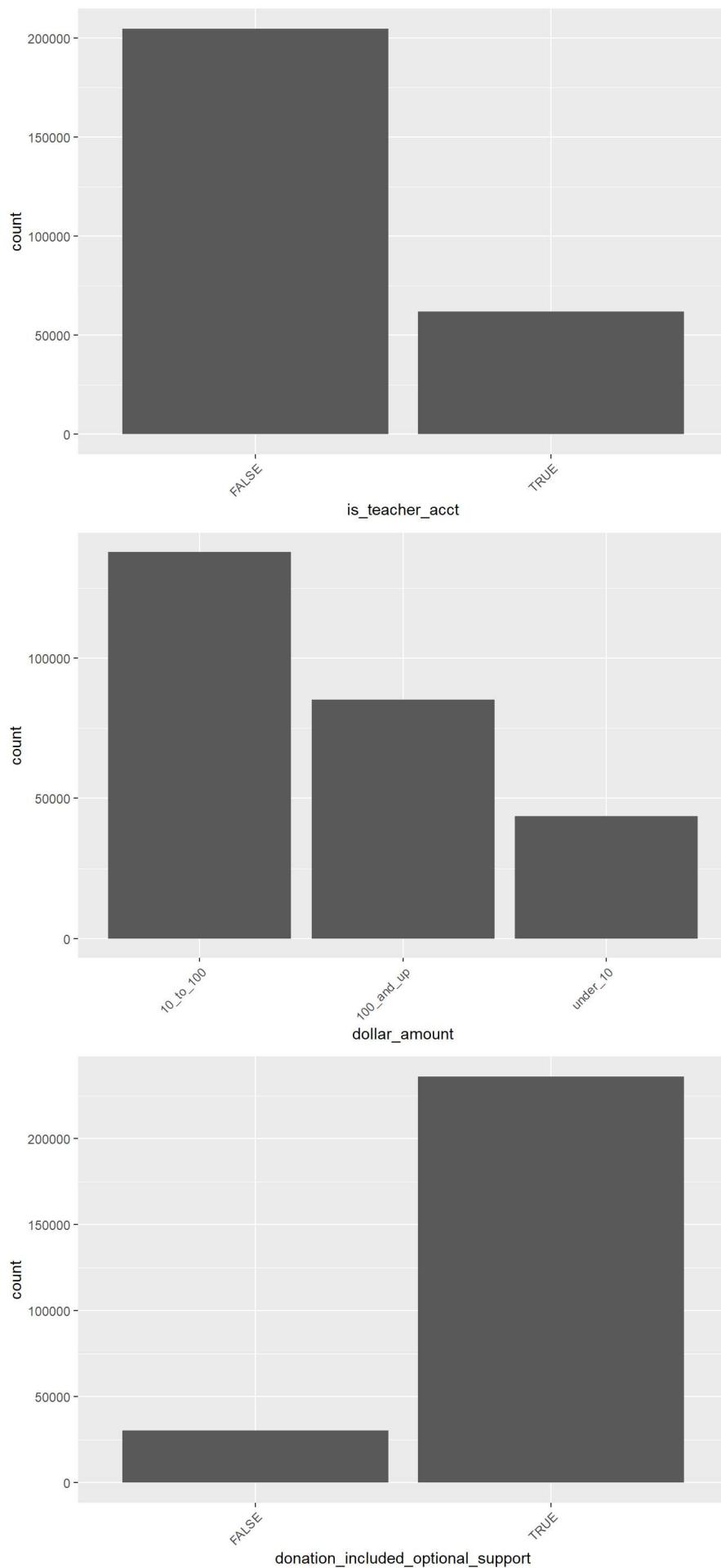
Explore Character Variables (donations)

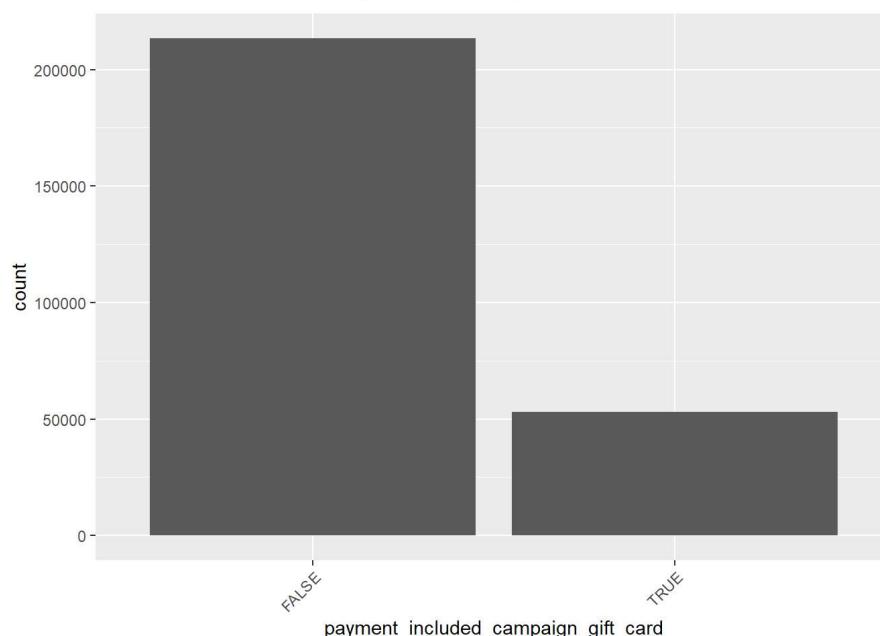
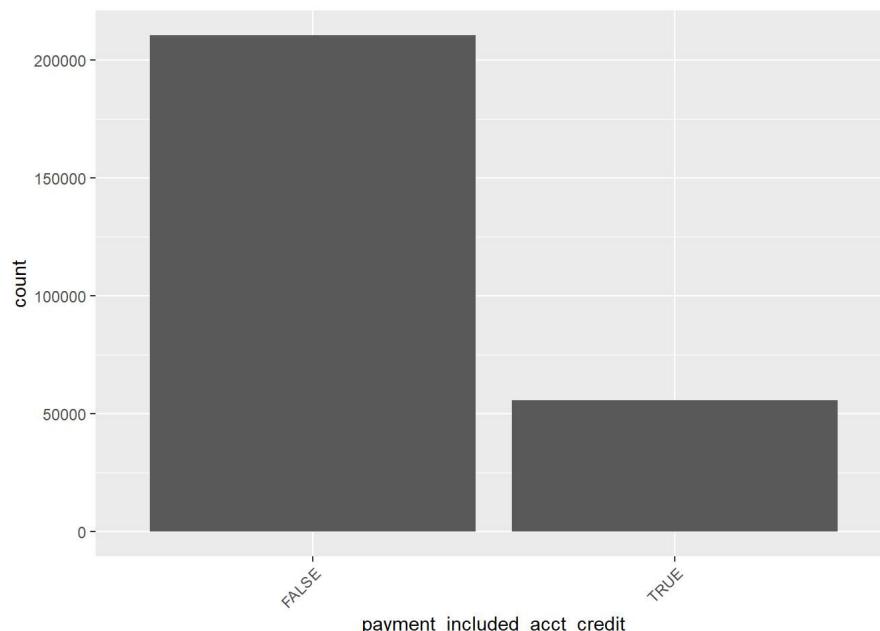
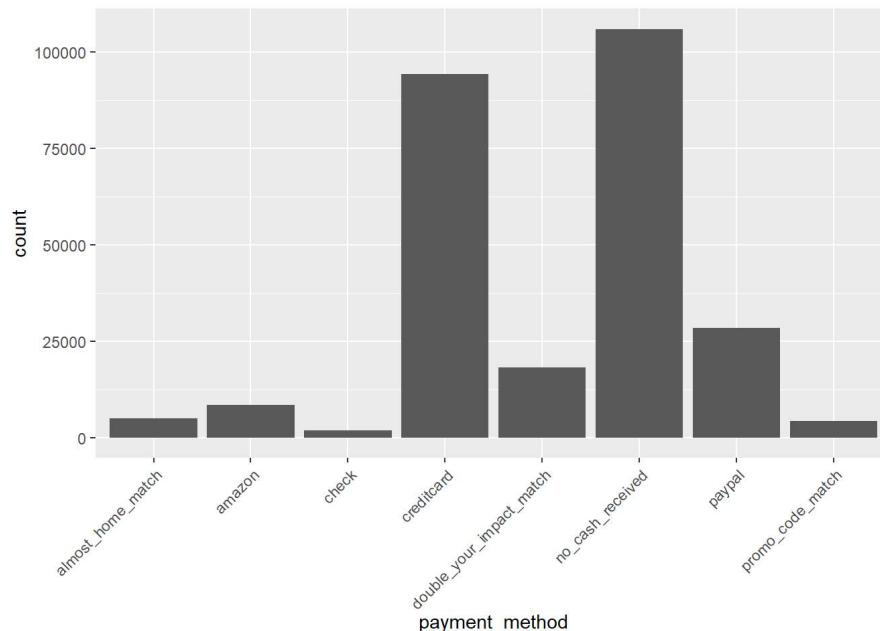
categorical variables: is_teacher_acct, dollar_amount, donation_included_optional_support, payment_method, payment_included_acct_credit, payment_included_campaign_gift_card, payment_included_web_purchased_gift_card, payment_was_promo_matched, via_giving_page, for_honoree

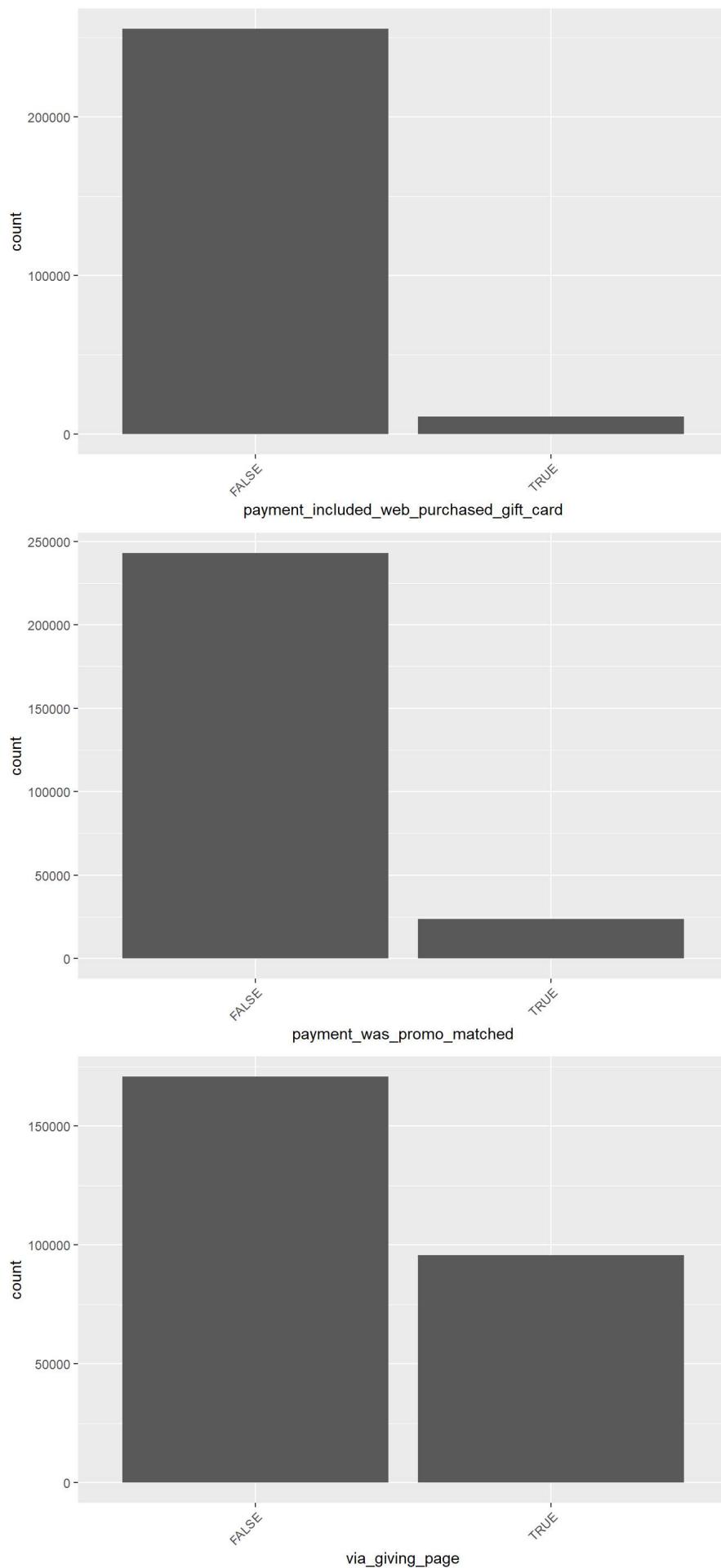
```
bar <- function(col) {
  donations %>%
    na.omit() %>%
    ggplot(aes(!as.name(col))) +
    geom_bar() +
    theme(axis.text.x=element_text(angle=45, hjust=1))
}

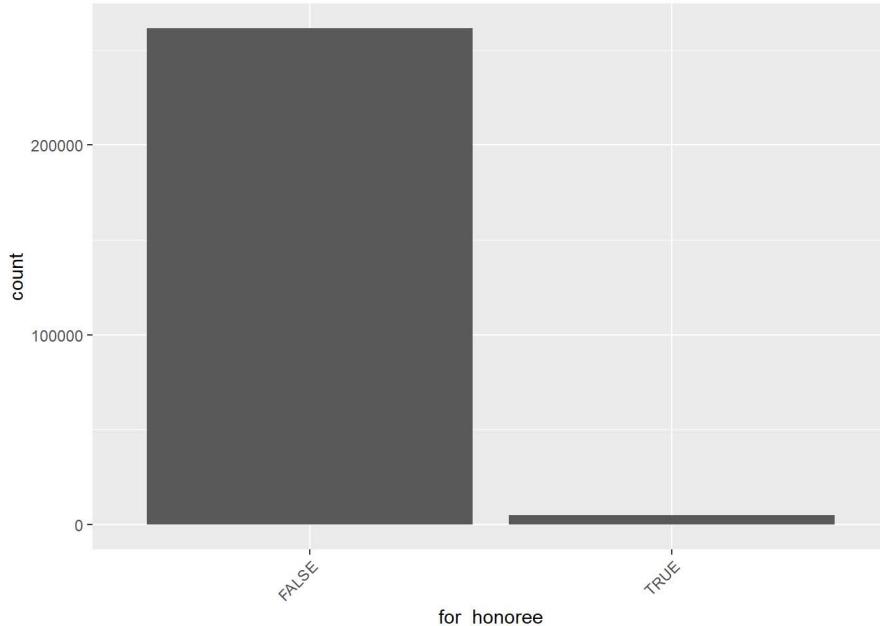
dummy <- c('is_teacher_acct', 'dollar_amount', 'donation_included_optional_support', 'payment_method', 'payment_included_acct_credit', 'payment_included_campaign_gift_card', 'payment_included_web_purchased_gift_card', 'payment_was_promo_matched', 'via_giving_page', 'for_honoree')

for (column in dummy) {
  print(bar(column))
}
```









Correlations (donations)

create a correlation matrix of key numeric variables: donation_to_project, donation_optional_support, donation_total

hint: you need to deal with missing values

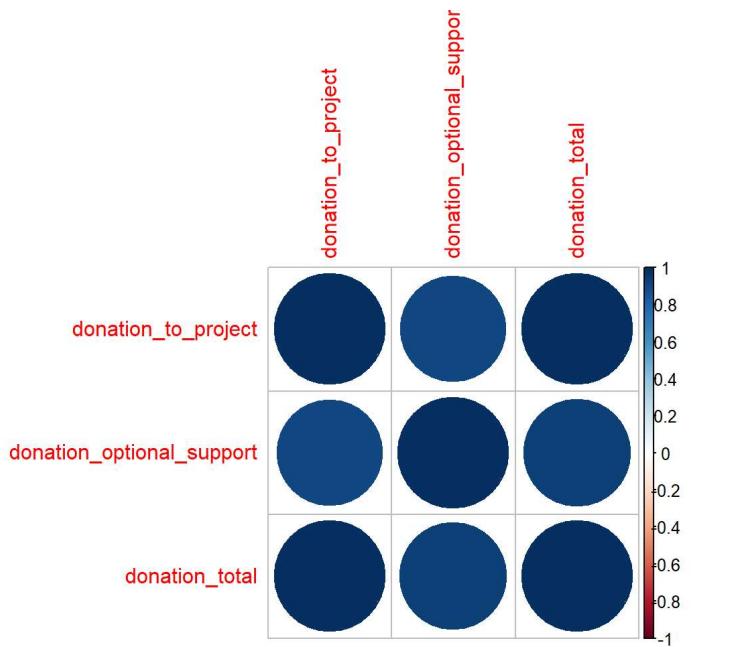
```
cor_analysis <- donations %>%
  filter(donation_to_project<500 & donation_optional_support<100 & donation_total<300) %>%
  na.omit() %>%
  dplyr::select(donation_to_project, donation_optional_support, donation_total) %>%
  cor() %>%
  melt() %>%
  arrange(desc(value))

cor_analysis_1 <- donations %>% filter(donation_to_project<500) %>% filter(donation_optional_support<100) %>% filter(donation_total<300) %>%
  na.omit() %>%
  dplyr::select(donation_to_project, donation_optional_support, donation_total)

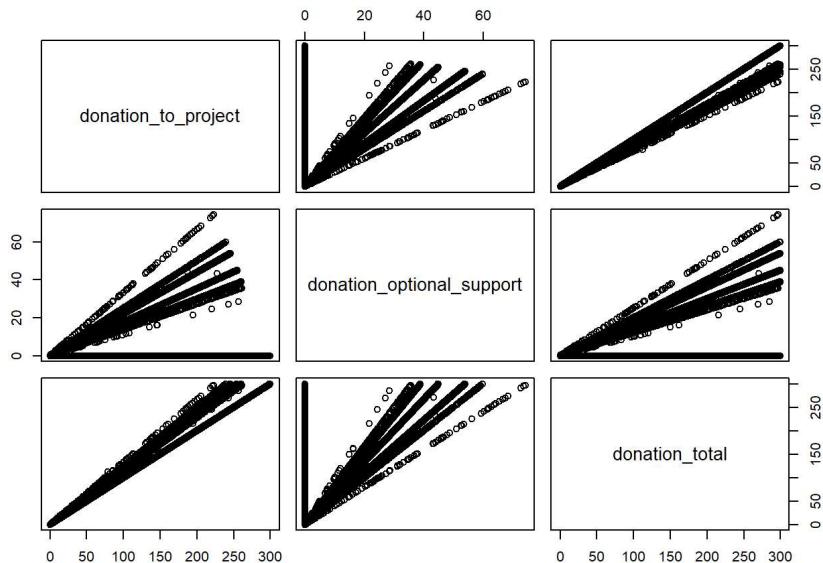
cormat <- cor(cor_analysis_1)
round(cormat, 2)
```

```
##          donation_to_project donation_optional_support
## donation_to_project           1.00                  0.91
## donation_optional_support      0.91                  1.00
## donation_total                 1.00                  0.93
##          donation_total
## donation_to_project           1.00
## donation_optional_support     0.93
## donation_total                 1.00
```

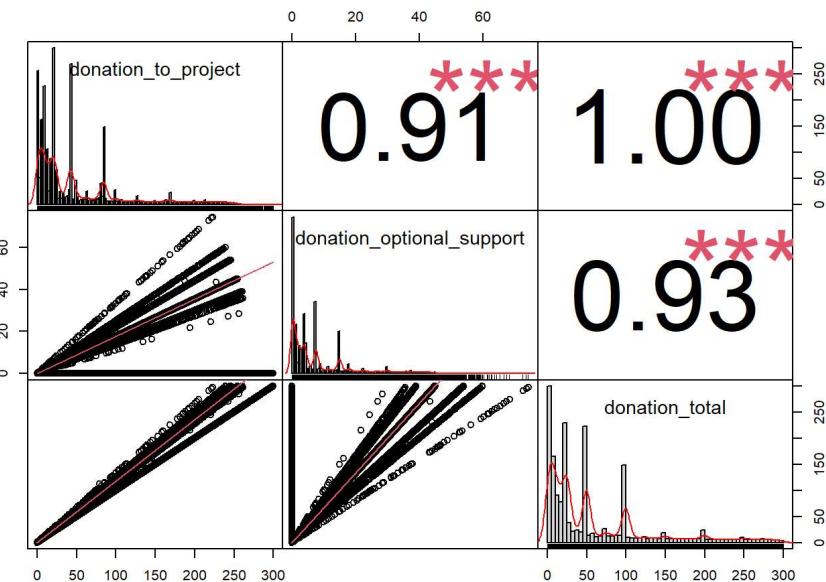
```
corrplot(cormat)
```



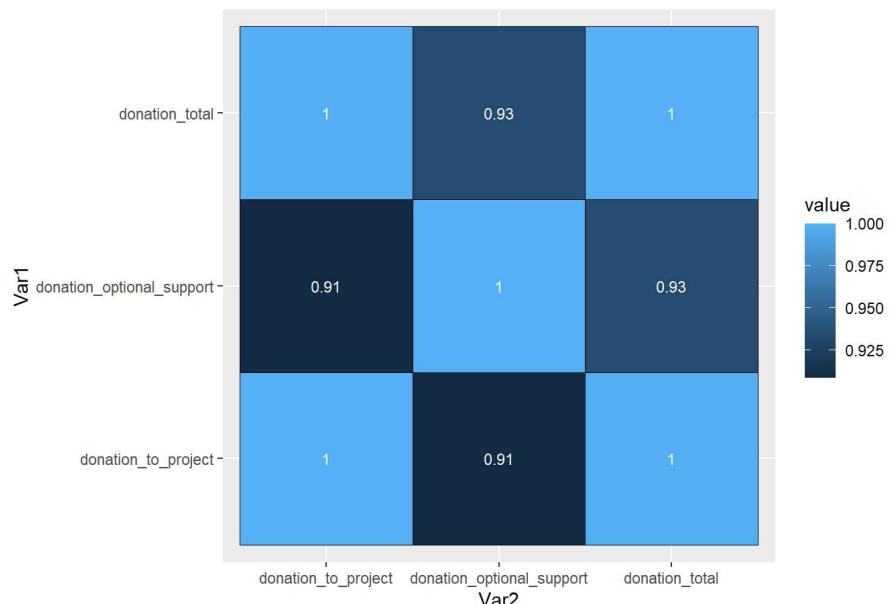
```
pairs(cor_analysis_1)
```



```
chart.Correlation(cor_analysis_1, histogram=TRUE, pch=4)
```



```
cor_analysis %>%
  ggplot(aes(Var2, Var1, fill = value)) +
  geom_tile(color = "black") + geom_text(aes(label = round(value, 2)), color = "white", size = 3) +
  coord_fixed()
```



K-Means Clustering

Create Clusters

```

donations$donation_to_project[is.na(donations$donation_to_project)] <- median(donations$donation_to_project, na.rm=TRUE)
donations$donation_optional_support[is.na(donations$donation_optional_support)] <- median(donations$donation_optional_support, na.rm=TRUE)
donations$donation_total[is.na(donations$donation_total)] <- median(donations$donation_total, na.rm=TRUE)

clusters_prep <- donations %>% dplyr::select(-donationid, -projectid, -donor_acctid, -donor_city, -donor_state, -donor_zip, -donation_timestamp,
  -donation_message) %>% na.omit() %>% filter(donation_to_project<500) %>% filter(donation_optional_support<100) %>% filter(donation_total<300)
# na.omit(): drop 12 rows of missing values

clusters <- clusters_prep

# create dummy variables for gender and promotional class

clusters$is_under_10 <- ifelse(clusters$dollar_amount == 'under_10', 1, 0)
clusters$is_10_to_100 <- ifelse(clusters$dollar_amount == '10_to_100', 1, 0)
clusters$is_100_and_up <- ifelse(clusters$dollar_amount == '100_and_up', 1, 0)

clusters$almost_home_match <- ifelse(clusters$payment_method == 'almost_home_match', 1, 0)
clusters$amazon <- ifelse(clusters$payment_method == 'amazon', 1, 0)
clusters$check <- ifelse(clusters$payment_method == 'check', 1, 0)
clusters$creditcard <- ifelse(clusters$payment_method == 'creditcard', 1, 0)
clusters$double_your_impact_match <- ifelse(clusters$payment_method == 'double_your_impact_match', 1, 0)
clusters$no_cash_received <- ifelse(clusters$payment_method == 'no_cash_received', 1, 0)
clusters$paypal <- ifelse(clusters$payment_method == 'paypal', 1, 0)
clusters$promo_code_match <- ifelse(clusters$payment_method == 'promo_code_match', 1, 0)

clusters$is_is_teacher_acct <- ifelse(clusters$is_teacher_acct == 'TRUE', 1, 0)

clusters$is_donation_included_optional_support <- ifelse(clusters$donation_included_optional_support == 'TRUE', 1, 0)

clusters$is_payment_included_acct_credit <- ifelse(clusters$payment_included_acct_credit == 'TRUE', 1, 0)

clusters$is_payment_included_campaign_gift_card <- ifelse(clusters$payment_included_campaign_gift_card == 'TRUE', 1, 0)

clusters$is_payment_included_web_purchased_gift_card <- ifelse(clusters$payment_included_web_purchased_gift_card == 'TRUE', 1, 0)

clusters$is_payment_was_promo_matched <- ifelse(clusters$payment_was_promo_matched == 'TRUE', 1, 0)

clusters$is_via_giving_page <- ifelse(clusters$via_giving_page == 'TRUE', 1, 0)

clusters$is_for_honoree <- ifelse(clusters$for_honoree == 'TRUE', 1, 0)

# standardize numeric variables

clusters$donation_to_project <- scale(clusters$donation_to_project)
clusters$donation_optional_support <- scale(clusters$donation_optional_support)
clusters$donation_total <- scale(clusters$donation_total)

clusters %>% skim()

```

Data summary

Name	Piped data
Number of rows	990949
Number of columns	32
<hr/>	
Column type frequency:	
character	2
logical	8
numeric	22
<hr/>	
Group variables	None

Variable type: character

skim_variable	n_missing	complete_rate	min	max	empty	unique	whitespace
dollar_amount	0	1	8	10	0	3	0
payment_method	0	1	5	24	0	8	0

Variable type: logical

skim_variable	n_missing	complete_rate	mean	count
is_teacher_acct	0	1	0.12	FAL: 871273, TRU: 119676
donation_included_optional_support	0	1	0.90	TRU: 889012, FAL: 101937
payment_included_acct_credit	0	1	0.09	FAL: 897081, TRU: 93868
payment_included_campaign_gift_card	0	1	0.35	FAL: 644980, TRU: 345969
payment_included_web_purchased_gift_card	0	1	0.05	FAL: 939908, TRU: 51041
payment_was_promo_matched	0	1	0.09	FAL: 905065, TRU: 85884
via_giving_page	0	1	0.33	FAL: 667645, TRU: 323304
for_honoree	0	1	0.02	FAL: 970988, TRU: 19961

Variable type: numeric

skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
donation_to_project	0	1	0.001	1.00	-1.05	-0.63	-0.36	0.08	5.45	
donation_optional_support	0	1	0.001	1.00	-0.73	-0.55	-0.29	0.15	8.83	
donation_total	0	1	0.001	1.00	-1.01	-0.62	-0.36	0.09	4.57	
is_under_10	0	1	0.140	35	0.00	0.00	0.000	0.00	1.00	
is_10_to_100	0	1	0.700	46	0.00	0.00	1.001	0.00	1.00	
is_100_and_up	0	1	0.160	36	0.00	0.00	0.000	0.00	1.00	
almost_home_match	0	1	0.000	05	0.00	0.00	0.000	0.00	1.00	
amazon	0	1	0.030	17	0.00	0.00	0.000	0.00	1.00	
check	0	1	0.010	08	0.00	0.00	0.000	0.00	1.00	
creditcard	0	1	0.290	46	0.00	0.00	0.001	0.00	1.00	
double_your_impact_match	0	1	0.030	16	0.00	0.00	0.000	0.00	1.00	
no_cash_received	0	1	0.470	50	0.00	0.00	0.001	0.00	1.00	
paypal	0	1	0.090	28	0.00	0.00	0.000	0.00	1.00	
promo_code_match	0	1	0.080	27	0.00	0.00	0.000	0.00	1.00	
is_is_teacher_acct	0	1	0.120	33	0.00	0.00	0.000	0.00	1.00	
is_donation_included_optional_support	0	1	0.900	30	0.00	1.00	1.001	0.00	1.00	
is_payment_included_acct_credit	0	1	0.090	29	0.00	0.00	0.000	0.00	1.00	
is_payment_included_campaign_gift_card	0	1	0.350	48	0.00	0.00	0.001	0.00	1.00	
is_payment_included_web_purchased_gift_card	0	1	0.050	22	0.00	0.00	0.000	0.00	1.00	
is_payment_was_promo_matched	0	1	0.090	28	0.00	0.00	0.000	0.00	1.00	
is_via_giving_page	0	1	0.330	47	0.00	0.00	0.001	0.00	1.00	
is_for_honoree	0	1	0.020	14	0.00	0.00	0.000	0.00	1.00	

```
# remove redundant and rejected variables
donor_clusters = subset(clusters, select= -c(is_teacher_acct, dollar_amount, donation_included_optional_support, payment_method, payment_included_acct_credit, payment_included_campaign_gift_card, payment_included_web_purchased_gift_card, payment_was_promo_matched, via_giving_page, for_honoree))
```

```
head(donor_clusters)
```

donation_to_project	donation_optional_support	donation_total	is_under_10	is_10_to_100	is_100_and_up
<dbl[1]>	<dbl[1]>	<dbl[1]>	<dbl>	<dbl>	<dbl>
0.08178655	0.1462436	0.09273135	0	1	0
-0.24487184	-0.1768148	-0.23753932	0	1	0
0.34965894	-0.7284631	0.18855282	0	1	0
-0.62698085	-0.5535218	-0.62369091	0	1	0
-0.38725070	-0.7284631	-0.44458535	0	1	0
-0.71557678	-0.6409925	-0.71324369	1	0	0

6 rows | 1-6 of 22 columns

```
skim(donor_clusters)
```

Data summary

Name	donor_clusters
Number of rows	990949
Number of columns	22
<hr/>	
Column type frequency:	

Variable type: numeric

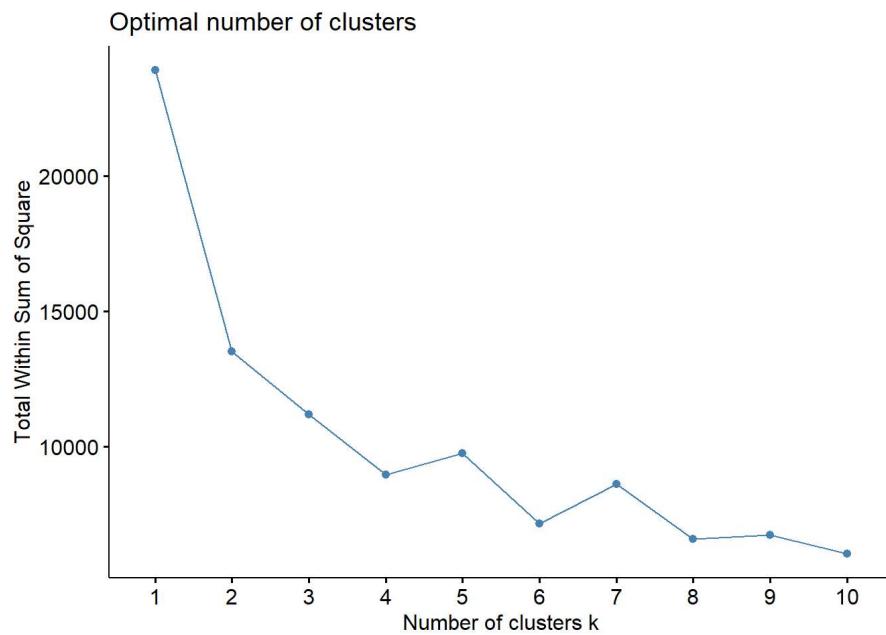
skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
donation_to_project	0	1	0.001.00-1.05-0.63-0.360.08	5.45	1	0.001.00-1.05-0.63-0.360.08	5.45	1	0.001.00-1.05-0.63-0.360.08	5.45
donation_optional_support	0	1	0.001.00-0.73-0.55-0.290.15	8.83	1	0.001.00-0.73-0.55-0.290.15	8.83	1	0.001.00-0.73-0.55-0.290.15	8.83
donation_total	0	1	0.001.00-1.01-0.62-0.360.09	4.57	1	0.001.00-1.01-0.62-0.360.09	4.57	1	0.001.00-1.01-0.62-0.360.09	4.57
is_under_10	0	1	0.140.350.000.000.000.00	1.00	1	0.140.350.000.000.000.00	1.00	1	0.140.350.000.000.000.00	1.00
is_10_to_100	0	1	0.700.460.000.001.001.00	1.00	1	0.700.460.000.001.001.00	1.00	1	0.700.460.000.001.001.00	1.00
is_100_and_up	0	1	0.160.360.000.000.000.00	1.00	1	0.160.360.000.000.000.00	1.00	1	0.160.360.000.000.000.00	1.00
almost_home_match	0	1	0.000.050.000.000.000.00	1.00	1	0.000.050.000.000.000.00	1.00	1	0.000.050.000.000.000.00	1.00
amazon	0	1	0.030.170.000.000.000.00	1.00	1	0.030.170.000.000.000.00	1.00	1	0.030.170.000.000.000.00	1.00
check	0	1	0.010.080.000.000.000.00	1.00	1	0.010.080.000.000.000.00	1.00	1	0.010.080.000.000.000.00	1.00
creditcard	0	1	0.290.460.000.000.001.00	1.00	1	0.290.460.000.000.001.00	1.00	1	0.290.460.000.000.001.00	1.00
double_your_impact_match	0	1	0.030.160.000.000.000.00	1.00	1	0.030.160.000.000.000.00	1.00	1	0.030.160.000.000.000.00	1.00
no_cash_received	0	1	0.470.500.000.000.001.00	1.00	1	0.470.500.000.000.001.00	1.00	1	0.470.500.000.000.001.00	1.00
paypal	0	1	0.090.280.000.000.000.00	1.00	1	0.090.280.000.000.000.00	1.00	1	0.090.280.000.000.000.00	1.00
promo_code_match	0	1	0.080.270.000.000.000.00	1.00	1	0.080.270.000.000.000.00	1.00	1	0.080.270.000.000.000.00	1.00
is_is_teacher_acct	0	1	0.120.330.000.000.000.00	1.00	1	0.120.330.000.000.000.00	1.00	1	0.120.330.000.000.000.00	1.00
is_donation_included_optional_support	0	1	0.900.300.001.001.001.00	1.00	1	0.900.300.001.001.001.00	1.00	1	0.900.300.001.001.001.00	1.00
is_payment_included_acct_credit	0	1	0.090.290.000.000.000.00	1.00	1	0.090.290.000.000.000.00	1.00	1	0.090.290.000.000.000.00	1.00
is_payment_included_campaign_gift_card	0	1	0.350.480.000.000.001.00	1.00	1	0.350.480.000.000.001.00	1.00	1	0.350.480.000.000.001.00	1.00
is_payment_included_web_purchased_gift_card	0	1	0.050.220.000.000.000.00	1.00	1	0.050.220.000.000.000.00	1.00	1	0.050.220.000.000.000.00	1.00
is_payment_was_promo_matched	0	1	0.090.280.000.000.000.00	1.00	1	0.090.280.000.000.000.00	1.00	1	0.090.280.000.000.000.00	1.00
is_via_giving_page	0	1	0.330.470.000.000.001.00	1.00	1	0.330.470.000.000.001.00	1.00	1	0.330.470.000.000.001.00	1.00
is_for_honoree	0	1	0.020.140.000.000.000.00	1.00	1	0.020.140.000.000.000.00	1.00	1	0.020.140.000.000.000.00	1.00

```
clusters_sample <- donor_clusters %>% sample_n(5000)
```

Visually Choose Number of Clusters (Elbow Plot)

```
# how many clusters

fviz_nbclust(clusters_sample, kmeans, method="wss")
```



Build Clusters

```
set.seed(1234)

clusters5 <- kmeans(donor_clusters, 5, iter.max = 200, nstart = 5)
print(clusters5)
```

```

## K-means clustering with 5 clusters of sizes 394947, 104110, 52427, 293621, 145844
##
## Cluster means:
##   donation_to_project donation_optional_support donation_total   is_under_10
## 1      -0.4901937       -0.4580625     -0.4915064 0.20788358944
## 2       1.2839911        1.0317384     1.2616311 0.00000000000
## 3       3.2374868        3.2808570     3.2853109 0.00001907414
## 4      -0.4896035       -0.4677172     -0.4924789 0.20554388140
## 5       0.2327857        0.2661902     0.2408994 0.00000000000
##   is_10_to_100  is_100_and_up almost_home_match    amazon      check
## 1 0.792116411 0.000000000000 0.00000000000 0.0005671647 0.00007595956
## 2 0.002968015 0.997031985400 0.0066660263 0.0288637019 0.01683795985
## 3 0.000000000 0.999980925859 0.0284586187 0.0167470960 0.03465771454
## 4 0.794456119 0.000000000000 0.0002622428 0.0639770316 0.00538108650
## 5 0.999993143 0.000006856641 0.0028249362 0.0442253367 0.01101862264
##   creditcard double_your_impact_match no_cash_received      paypal
## 1 0.0000000 0.000000000000 0.9972022 0.002154719
## 2 0.4092114 0.073451157430 0.3086159 0.068216310
## 3 0.2930360 0.312262765369 0.2666374 0.034981975
## 4 0.5500254 0.000003405751 0.0000000 0.205741415
## 5 0.4981693 0.020336798223 0.1827226 0.112894600
##   promo_code_match is_is_teacher_acct is_donation_included_optional_support
## 1 0.0000000 0.14070242 0.8796168
## 2 0.08813755 0.07689943 0.8682547
## 3 0.01321838 0.02849677 0.9788468
## 4 0.17460945 0.15121194 0.8831725
## 5 0.12780779 0.06998574 0.9639066
##   is_payment_included_acct_credit is_payment_included_campaign_gift_card
## 1 0.13762353 0.786209289
## 2 0.10286236 0.181116127
## 3 0.18274935 0.075590822
## 4 0.01417814 0.009982256
## 5 0.10326788 0.066564274
##   is_payment_included_web_purchased_gift_card is_payment_was_promo_matched
## 1 0.080929846 0.00003544779
## 2 0.061060417 0.10115262703
## 3 0.044671639 0.02159192782
## 4 0.001229476 0.19588176595
## 5 0.068689833 0.11445105729
##   is_via_giving_page is_for_honoree
## 1 0.1453841 0.008469491
## 2 0.3465757 0.039122082
## 3 0.3957884 0.028668434
## 4 0.5307045 0.020335739
## 5 0.3649584 0.034756315
##
## Clustering vector:
## [1] 1 4 5 4 1 1 5 3 3 4 4 4 5 2 2 5 1 2 4 5 4 5 5 1 1 1 1 4 5 4 1 1 4 4 4 1
## [37] 1 1 2 4 5 5 4 1 1 1 2 4 5 4 4 2 4 2 4 4 4 4 1 4 4 4 4 1 4 4 4 4 4 1
## [73] 4 4 4 4 4 1 4 4 4 4 2 1 4 1 1 1 4 4 4 4 4 1 1 4 4 4 4 4 4 1 4 1 4 4 4 1
## [109] 4 4 4 4 4 4 4 1 4 4 4 4 1 1 4 1 4 4 4 4 4 4 4 4 1 4 4 4 1 4 1 4 1 1 1
## [145] 4 1 1 1 1 1 1 1 2 5 1 1 4 4 4 4 4 4 1 1 4 4 4 2 1 5 3 5 2 5 2 4 1 1 4 1
## [181] 4 4 4 1 1 1 5 2 4 5 4 5 5 4 1 2 5 5 2 5 5 2 1 4 4 4 5 1 1 5 1 1 1 1 1 1
## [217] 4 1 1 1 1 4 4 4 4 4 4 1 5 4 4 5 1 5 3 3 1 1 4 1 2 5 2 4 4 1 1 4 1 5 1
## [253] 1 5 4 1 1 1 1 1 4 5 4 2 4 5 4 4 5 5 4 4 4 4 5 4 4 4 1 1 5 4 5 5 1 4 5
## [289] 1 1 1 5 1 4 1 1 4 2 1 1 2 2 3 1 1 1 1 5 1 1 1 1 2 1 1 1 1 2 4 1 1 1
## [325] 1 1 1 1 1 1 1 1 1 5 1 1 2 5 5 1 1 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [361] 1 1 1 1 1 5 5 1 5 5 5 2 4 5 5 5 4 1 3 1 1 1 5 1 1 3 1 3 4 2 3 1 2 2 2
## [397] 1 3 1 4 1 1 1 1 1 1 1 1 4 1 4 1 4 1 1 1 1 1 5 1 1 1 5 1 1 1 1 1 4 1 4 4 3
## [433] 5 4 3 2 3 1 5 3 2 4 5 4 2 1 2 4 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1
## [469] 1 1 1 1 1 1 1 1 4 5 3 1 1 1 1 1 1 1 1 5 2 2 2 3 2 2 4 4 2 4 4 4 5 4 3
## [505] 3 5 2 2 3 4 1 2 3 1 5 1 4 1 4 4 1 5 4 1 3 4 2 2 2 1 3 5 1 1 5 1 3 3 5 1
## [541] 1 1 1 1 1 1 1 1 1 1 1 1 4 1 1 1 1 1 4 5 1 1 3 1 1 4 2 5 2 1 4 5 5 1 4 2
## [577] 1 2 5 1 5 4 1 1 1 1 1 4 5 3 5 3 2 3 3 2 3 1 5 5 3 4 5 4 5 2 4 2 2 2 1 1
## [613] 3 1 4 1 4 4 4 1 4 4 4 4 1 4 4 1 5 4 5 5 4 4 4 4 5 1 2 5 3 5 4 4 5 4 4 5 1
## [649] 4 1 1 1 3 1 4 4 4 4 4 5 5 4 5 3 5 2 1 4 2 5 5 4 4 4 2 3 2 4 4 5 5 3 4 4
## [685] 1 4 5 4 5 4 5 5 5 1 1 1 1 1 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [721] 1 1 1 1 1 1 1 1 1 1 1 1 4 5 1 1 1 1 1 1 3 1 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1
## [757] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 5 5 3 2 2 1 3 3 1 5 2 5 2 2 1 1 1 1 1 1 1 1
## [793] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```



```

## [5869] 2 5 2 5 2 1 5 1 1 1 1 1 1 4 4 1 2 1 4 5 1 1 1 3 3 1 2 2 1 1 2 2 1 2
## [5905] 1 1 2 1 4 1 4 5 4 3 2 3 5 5 4 1 5 4 5 5 4 4 4 4 4 4 3 1 1 5 1 5 4 5 5
## [5941] 2 5 5 4 1 4 4 4 5 4 4 2 2 5 1 4 5 4 1 4 4 5 3 1 1 4 4 4 4 4 1 1 5 5 2 1 1
## [5977] 2 3 5 1 1 1 1 1 4 1 4 4 1 1 1 4 1 4 1 1 1 1 1 5 5 1 1 2 5 3 4 1 1 5 1
## [6013] 1 1 1 5 1 1 1 2 2 2 4 2 2 4 3 5 4 5 5 5 3 4 2 1 4 1 2 1 1 1 4 1 5 1
## [6049] 1 4 3 5 4 4 4 4 4 2 2 4 4 3 4 4 4 4 4 1 4 4 4 4 4 2 2 4 4 4 4 4 4 5
## [6085] 4 5 4 4 5 4 4 4 4 1 4 4 4 2 4 2 5 5 5 5 4 4 4 4 5 5 5 1 1 5 1 1 5 1 1 4
## [6121] 3 2 1 5 3 5 1 1 1 1 4 1 1 1 5 1 5 1 4 1 1 1 4 1 1 1 3 1 4 1 1 1 4 4 1 5 1
## [6157] 3 1 5 5 2 4 5 5 3 1 1 1 1 1 1 5 1 1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 4
## [6193] 1 1 1 1 1 4 5 2 4 4 4 4 5 4 4 1 5 4 1 1 1 4 1 4 1 4 5 4 5 4 1 5 5 1 5 5
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## [ reached getOption("max.print") -- omitted 890950 entries ]
## 
## Within cluster sum of squares by cluster:
## [1] 474321.1 274852.3 166090.2 510840.1 241774.2
## (between_SS / total_SS =  66.5 %)
## 
## Available components:
## 
## [1] "cluster"      "centers"       "totss"         "withinss"      "tot.withinss"
## [6] "betweenss"    "size"          "iter"          "ifault"

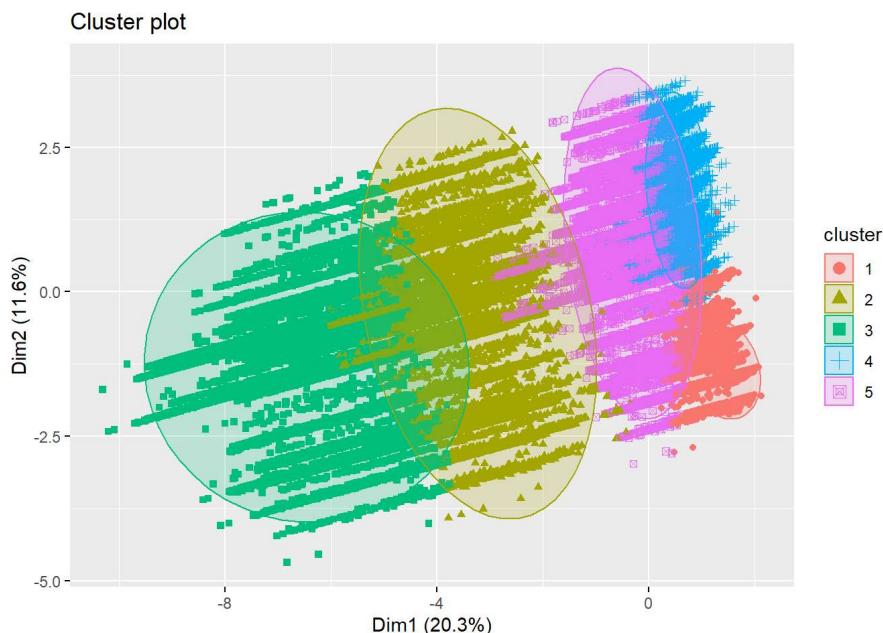
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```

# visualize clusters

fviz_cluster(clusters5, donor_clusters, ellipse.type="norm", geom="point")

```



Explore Clusters

```

cluster <- as.factor(clusters5$cluster)

clusters5

```

```

## K-means clustering with 5 clusters of sizes 394947, 104110, 52427, 293621, 145844
##
## Cluster means:
##   donation_to_project donation_optional_support donation_total   is_under_10
## 1      -0.4901937       -0.4580625     -0.4915064 0.20788358944
## 2       1.2839911        1.0317384     1.2616311 0.00000000000
## 3       3.2374868        3.2808570     3.2853109 0.00001907414
## 4      -0.4896035       -0.4677172     -0.4924789 0.20554388140
## 5       0.2327857        0.2661902     0.2408994 0.00000000000
##   is_10_to_100  is_100_and_up almost_home_match    amazon      check
## 1 0.792116411 0.000000000000 0.0000000000 0.0005671647 0.00007595956
## 2 0.002968015 0.997031985400 0.0066660263 0.0288637019 0.01683795985
## 3 0.000000000 0.999980925859 0.0284586187 0.0167470960 0.03465771454
## 4 0.794456119 0.000000000000 0.0002622428 0.0639770316 0.00538108650
## 5 0.999993143 0.000006856641 0.0028249362 0.0442253367 0.01101862264
##   creditcard double_your_impact_match no_cash_received      paypal
## 1 0.0000000 0.000000000000 0.9972022 0.002154719
## 2 0.4092114 0.073451157430 0.3086159 0.068216310
## 3 0.2930360 0.312262765369 0.2666374 0.034981975
## 4 0.5500254 0.000003405751 0.0000000 0.205741415
## 5 0.4981693 0.020336798223 0.1827226 0.112894600
##   promo_code_match is_is_teacher_acct is_donation_included_optional_support
## 1 0.0000000 0.14070242 0.8796168
## 2 0.08813755 0.07689943 0.8682547
## 3 0.01321838 0.02849677 0.9788468
## 4 0.17460945 0.15121194 0.8831725
## 5 0.12780779 0.06998574 0.9639066
##   is_payment_included_acct_credit is_payment_included_campaign_gift_card
## 1 0.13762353 0.786209289
## 2 0.10286236 0.181116127
## 3 0.18274935 0.075590822
## 4 0.01417814 0.009982256
## 5 0.10326788 0.066564274
##   is_payment_included_web_purchased_gift_card is_payment_was_promo_matched
## 1 0.080929846 0.00003544779
## 2 0.061060417 0.10115262703
## 3 0.044671639 0.02159192782
## 4 0.001229476 0.19588176595
## 5 0.068689833 0.11445105729
##   is_via_giving_page is_for_honoree
## 1 0.1453841 0.008469491
## 2 0.3465757 0.039122082
## 3 0.3957884 0.028668434
## 4 0.5307045 0.020335739
## 5 0.3649584 0.034756315
##
## Clustering vector:
## [1] 1 4 5 4 1 1 5 3 3 4 4 4 5 2 2 5 1 2 4 5 4 5 5 1 1 1 1 4 5 4 1 1 4 4 4 1
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## [98749] 1 1 1 1 4 1 1 2 1 2 1 3 1 2 5 4 1 1 1 1 1 1 5 1 1 4 2 1 1 1 5 5 5 1 1 2 1
## [98785] 1 5 5 1 1 1 5 5 4 1 5 1 1 5 5 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [98821] 1 1 1 1 1 5 4 5 5 1 4 4 2 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [98857] 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1
## [98893] 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 4 1 2 5 5 1 1 1 1 1 1 1 4 1 3 4 1 1 4 2 4 4 4 1 5
## [98929] 3 1 1 1 5 1 5 5 4 4 1 1 4 3 5 1 4 4 2 5 4 1 4 5 5 2 1 4 4 4 4 4 4 5 5
## [98965] 5 1 1 5 1 4 5 2 2 5 5 4 5 4 1 2 1 1 1 1 5 1 1 1 1 3 4 4 2 4 5 2 4 5 1
## [99001] 1 5 2 4 4 1 1 4 3 4 4 3 5 5 4 4 5 1 4 1 2 4 5 4 5 5 2 5 4 4 5 4 5 5
## [99037] 5 4 1 1 4 4 4 5 4 2 4 1 5 3 3 3 1 3 5 3 1 1 1 1 2 4 4 1 1 1 5 4 4 4
## [99073] 1 4 4 4 5 5 1 1 1 1 1 1 1 5 4 1 1 1 2 3 1 1 5 4 1 2 4 3 3 4 3 4

```

```

## [99109] 5 1 1 2 5 5 4 1 1 5 5 4 2 4 4 4 5 4 4 5 4 4 1 4 4 4 1 1 4 1 4 2 5 3 4 4
## [99145] 4 5 4 5 4 2 2 1 1 3 4 1 5 4 4 5 4 5 4 1 4 2 3 2 4 4 2 4 4 4 5 5 5 4 2 1
## [99181] 1 2 3 4 2 5 5 2 5 5 1 4 1 5 1 1 1 4 4 2 4 1 5 2 4 5 2 5 1 3 4 2 5 2 3 1
## [99217] 1 1 1 1 1 1 1 1 1 1 4 2 4 4 4 3 4 5 1 1 5 4 4 3 5 4 1 1 1 1 1 1 1 1 1
## [99253] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 4 2 1 4 1 5 5 5 1 4 4 4 1 5 1 1
## [99289] 1 1 2 4 1 1 2 1 5 1 2 4 4 5 4 4 4 4 4 2 4 4 4 5 4 4 3 5 1 4 4 2 1 3 2 5
## [99325] 4 4 2 4 4 4 2 4 5 3 2 1 1 5 5 5 1 5 5 4 5 1 3 2 1 2 4 1 4 5 1 5 1 1 4 2
## [99361] 1 4 2 2 1 4 4 4 5 2 4 4 5 4 1 3 1 5 1 1 5 3 1 3 5 4 2 1 3 1 1 4 2 1 1
## [99397] 1 4 4 4 1 4 5 4 3 4 4 4 2 4 5 4 4 4 4 4 4 1 4 1 4 4 4 2 1 4 1 1 1 4
## [99433] 1 1 4 1 1 1 4 1 4 1 1 3 1 1 1 1 1 1 1 1 1 4 2 3 5 1 1 5 1 2 1 1 1
## [99469] 1 1 1 1 1 1 3 3 2 5 1 2 5 4 4 1 4 4 4 4 1 4 1 5 4 4 5 1 1 5 5 1 1 1 1
## [99505] 5 3 4 4 2 1 4 4 4 5 5 4 1 1 3 4 4 4 4 2 2 5 5 4 2 4 5 1 3 3 1 1 1 1 5
## [99541] 1 1 1 1 1 5 4 4 4 1 4 1 1 5 2 5 1 3 5 1 1 1 1 4 1 4 5 5 5 5 4 5
## [99577] 4 4 4 1 1 1 1 1 1 1 1 1 4 4 4 4 1 5 1 4 2 5 2 4 1 4 5 3 4 1 1 5 1 2
## [99613] 1 1 1 3 2 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 4 2
## [99649] 4 4 4 5 3 5 5 4 1 4 5 5 4 5 4 5 4 5 1 5 4 5 4 1 4 4 1 1 1 1 1 1 1
## [99685] 4 4 5 1 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [99721] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 4 4 2 2 5 4 5 3 5 2 5
## [99757] 5 2 4 4 2 4 1 5 2 4 4 5 4 1 4 4 5 1 1 1 1 1 1 1 4 4 1 4 1 4 4 4 4 1 4 1 4
## [99793] 4 4 1 1 1 4 4 5 1 1 1 4 4 4 4 1 4 4 4 4 1 1 4 1 1 4 5 5 1 5 2 1 5 1 5 3
## [99829] 4 2 1 4 1 1 2 1 4 1 3 4 3 4 4 4 1 1 4 4 1 1 2 4 1 2 2 4 2 3 4 4 5 3 4
## [99865] 4 1 4 1 1 1 4 4 4 3 5 5 4 4 1 4 2 5 4 5 2 5 1 4 1 1 4 5 1 1 1 1 1 1 1
## [99901] 1 1 1 1 1 1 4 1 1 1 1 1 4 5 4 3 4 4 4 5 2 2 1 4 4 2 1 5 4 1 4 1 5 3
## [99937] 4 5 5 4 1 3 3 5 1 1 2 1 1 1 1 3 1 1 1 4 2 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1
## [99973] 2 1 1 1 1 3 4 4 1 1 4 5 1 4 1 4 5 4 4 4 5 4 4 1 5 4 5
## [ reached getOption("max.print") -- omitted 890950 entries ]
## 
## Within cluster sum of squares by cluster:
## [1] 474321.1 274852.3 166090.2 510840.1 241774.2
## (between_SS / total_SS = 66.5 %)
## 
## Available components:
## 
## [1] "cluster"      "centers"       "totss"         "withinss"      "tot.withinss"
## [6] "betweenss"    "size"          "iter"          "ifault"

```

```

#determine which variables are driving the cluster creation

tree.clusters=tree(cluster ~ ., donor_clusters)

summary(tree.clusters)

```

```

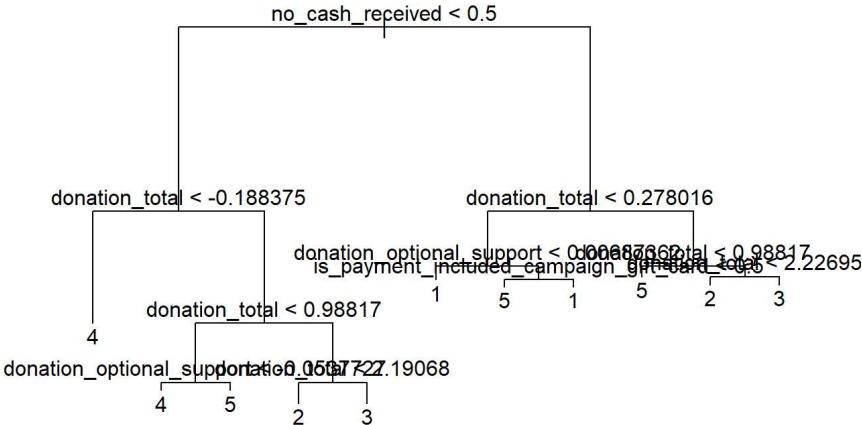
## 
## Classification tree:
## tree(formula = cluster ~ ., data = donor_clusters)
## Variables actually used in tree construction:
## [1] "no_cash_received"
## [2] "donation_total"
## [3] "donation_optional_support"
## [4] "is_payment_included_campaign_gift_card"
## Number of terminal nodes: 11
## Residual mean deviance: 0.1038 = 102800 / 990900
## Misclassification error rate: 0.01483 = 14695 / 990949

```

```

plot(tree.clusters)
text(tree.clusters, pretty=0)

```



tree.clusters

```

## node), split, n, deviance, yval, (yprob)
##      * denotes terminal node
##
## 1) root 990949 2777000 1 ( 0.398554315 0.105060906 0.052905851 0.296302837 0.147176091 )
## 2) no_cash_received < 0.5 524349 1194000 4 ( 0.002107375 0.137274983 0.073325209 0.559972461 0.227319972 ) *
## 4) donation_total < -0.188375 283827 17610 4 ( 0.003537366 0.000000000 0.000000000 0.995518397 0.000944237 ) *
## 5) donation_total > -0.188375 240522 551900 5 ( 0.000419920 0.299265764 0.159852321 0.046008265 0.494453730 )
## 10) donation_total < 0.98817 130111 77690 5 ( 0.000776260 0.000138343 0.000000000 0.085050457 0.914034939 )
## 20) donation_optional_support < -0.0537727 17149 24090 4 ( 0.005831244 0.000000000 0.000000000 0.602775672 0.391393084 ) *
## 21) donation_optional_support > -0.0537727 112962 9182 5 ( 0.000008853 0.000159346 0.000000000 0.006453498 0.993378304 ) *
## 11) donation_total > 0.98817 110411 142800 2 ( 0.000000000 0.651764770 0.348226173 0.000000000 0.000009057 )
## 22) donation_total < 2.19068 69725 4775 2 ( 0.000000000 0.994492650 0.005493008 0.000000000 0.000014342 ) *
## 23) donation_total > 2.19068 40686 19440 3 ( 0.000000000 0.064420194 0.935579806 0.000000000 0.000000000 ) *
## 3) no_cash_received > 0.5 466600 556100 1 ( 0.844067724 0.068859837 0.029959280 0.000000000 0.057113159 )
## 6) donation_total < 0.278016 407938 126800 1 ( 0.963901377 0.000000000 0.000002451 0.000000000 0.036096171 )
## 12) donation_optional_support < 0.00687362 375423 5917 1 ( 0.999003790 0.000000000 0.000000000 0.000000000 0.0000996210 ) *
## 13) donation_optional_support > 0.00687362 32515 44650 1 ( 0.558603721 0.000000000 0.000030755 0.000000000 0.441365524 )
## 26) is_payment_included_campaign_gift_card < 0.5 14408 2712 5 ( 0.018808995 0.000000000 0.000069406 0.000000000 0.981121599 ) *
## 27) is_payment_included_campaign_gift_card > 0.5 18107 2334 1 ( 0.988126139 0.000000000 0.000000000 0.000000000 0.011873861 ) *
## 7) donation_total > 0.278016 58662 122500 2 ( 0.010739491 0.547714023 0.238280318 0.000000000 0.203266169 )
## 14) donation_total < 0.98817 12845 7777 5 ( 0.049046322 0.022654729 0.000000000 0.000000000 0.928298949 ) *
## 15) donation_total > 0.98817 45817 56360 2 ( 0.000000000 0.694916734 0.305083266 0.000000000 0.000000000 )
## 30) donation_total < 2.22695 31145 2327 2 ( 0.000000000 0.993867394 0.006132606 0.000000000 0.000000000 ) *
## 31) donation_total > 2.22695 14672 6686 3 ( 0.000000000 0.060318975 0.939681025 0.000000000 0.000000000 ) *
  
```

Show Proportion of Each Cluster

clusters_prep\$cluster <- clusters5\$cluster

Profile Clusters

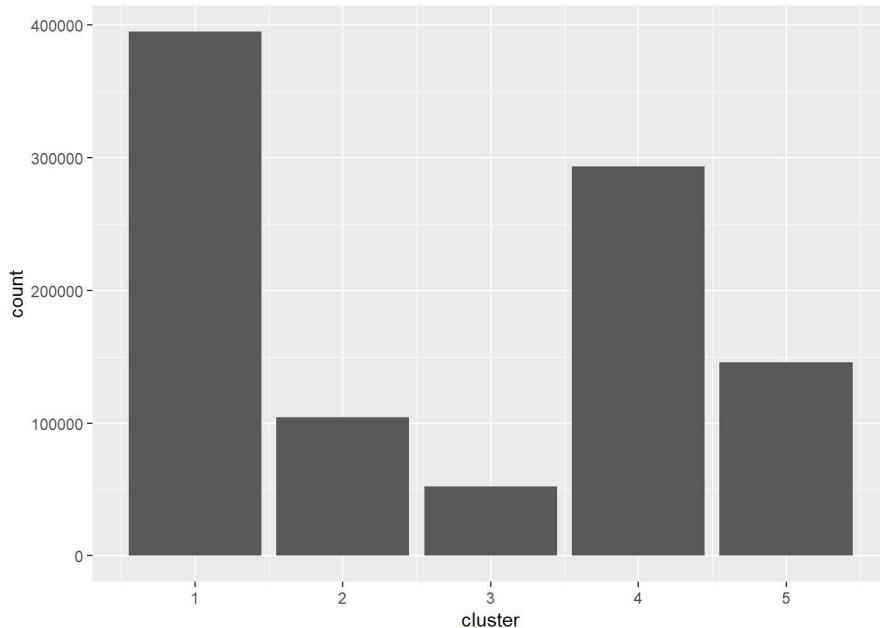
```

clusters_prep %>%
  group_by(clusters_prep$cluster) %>%
  summarize(n=n(),
            pct = n/nrow(clusters_prep),
            mean_donation_to_project = mean(donation_to_project),
            mean_donation_optional_support = mean(donation_optional_support),
            mean_donation_total = mean(donation_total)
  )
  
```

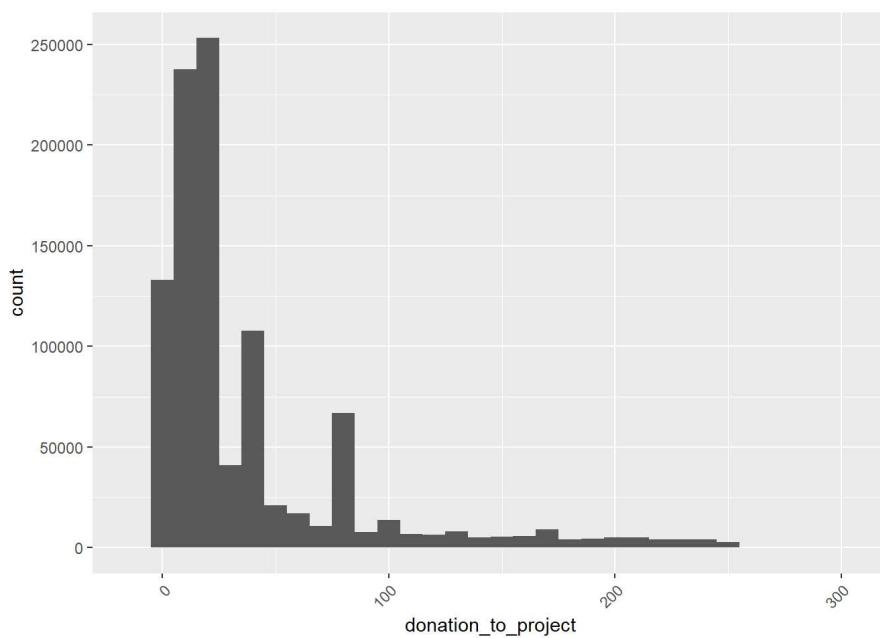
clusters_prep\$cluster	n	pct	mean_donation_to_project	mean_donation_optional_support
<int>	<int>	<dbl>	<dbl>	<dbl>
1	394947	0.39855432	15.06176	2.318497
2	104110	0.10506091	100.17048	15.092501
3	52427	0.05290585	193.88085	34.377125
4	293621	0.29630284	15.09007	2.235714
5	145844	0.14717609	49.74352	8.528459

5 rows | 1-5 of 6 columns

ggplot(clusters_prep, aes(cluster)) + geom_bar()

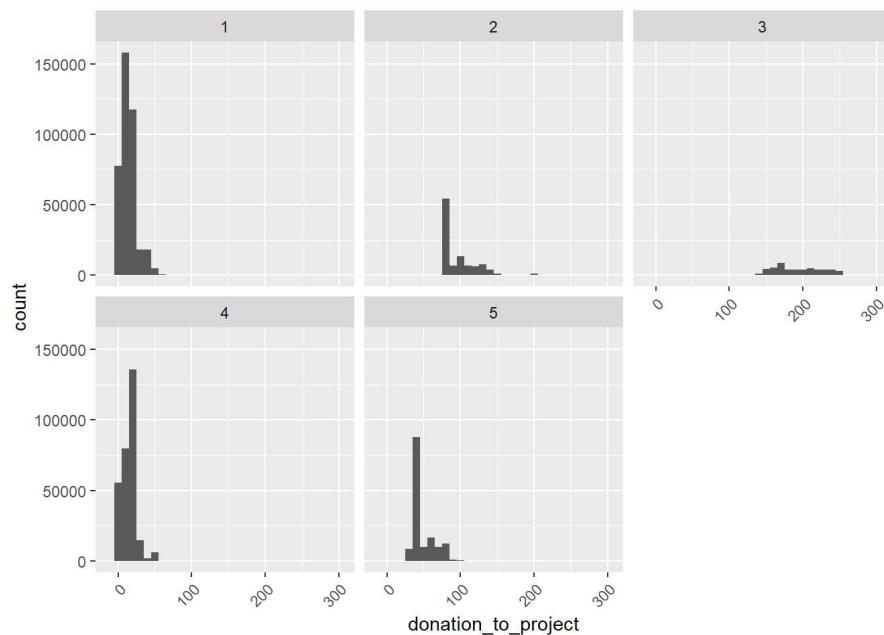


ggplot(clusters_prep, aes(x=donation_to_project)) + geom_histogram(binwidth=10) + theme(axis.text.x=element_text(angle=45, hjust=1))

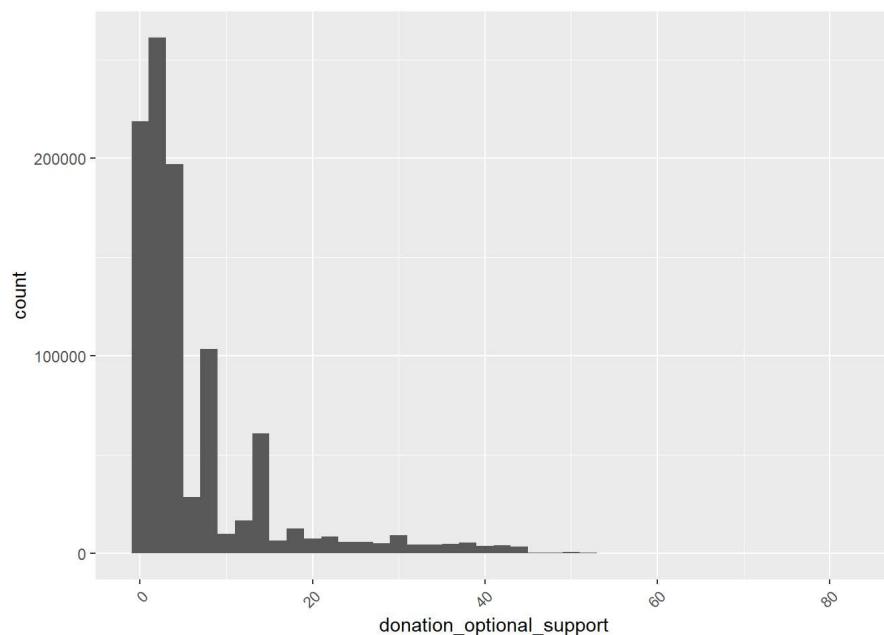


ggplot(clusters_prep, aes(x=donation_to_project)) + geom_histogram(binwidth=10) + facet_wrap(~clusters5\$cluster) + theme(axis.text.x=element_text(angle=45, hjust=1))

Final Project Donors Choose

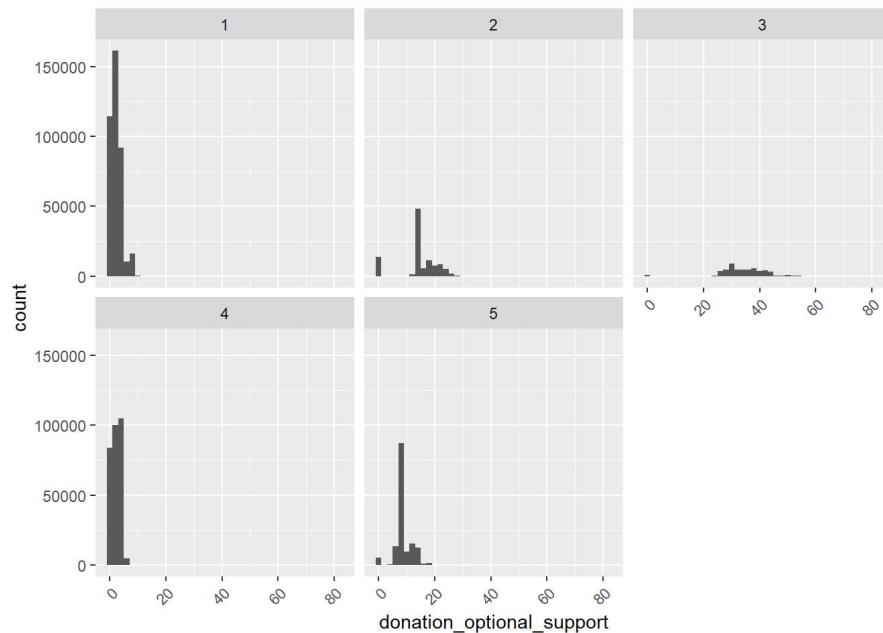


```
ggplot(clusters_prep, aes(x=donation_optional_support))+geom_histogram(binwidth=2)+theme(axis.text.x=element_text(angle=45, hjust=1))
```

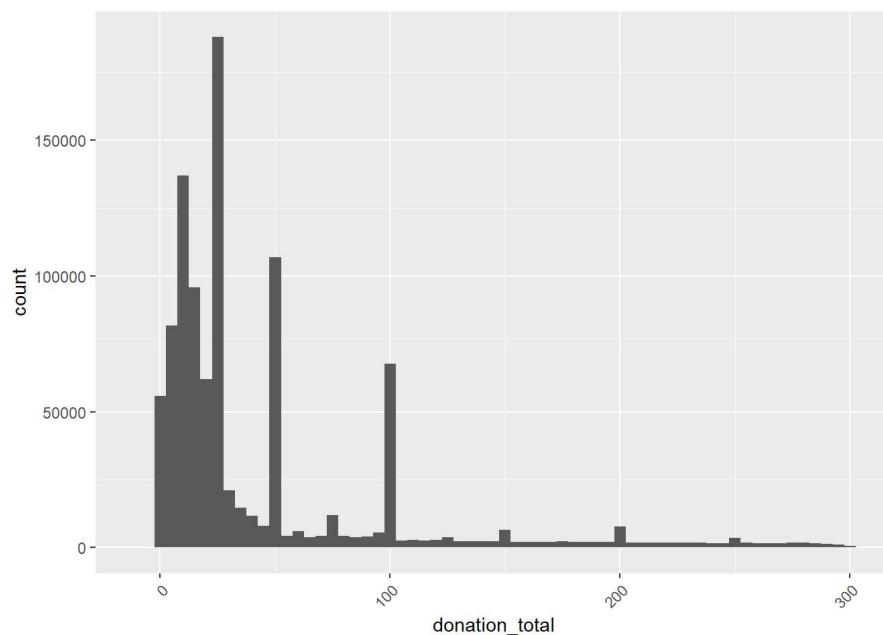


```
ggplot(clusters_prep, aes(x=donation_optional_support))+geom_histogram(binwidth=2)+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```

Final Project Donors Choose

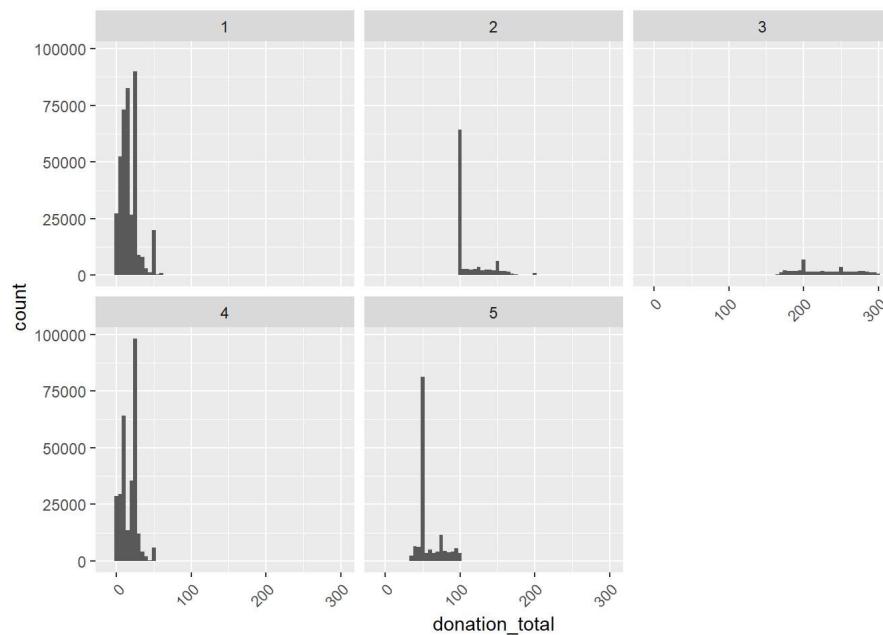


```
ggplot(clusters_prep, aes(x=donation_total))+geom_histogram(binwidth=5)+theme(axis.text.x=element_text(angle=45, hjust=1))
```

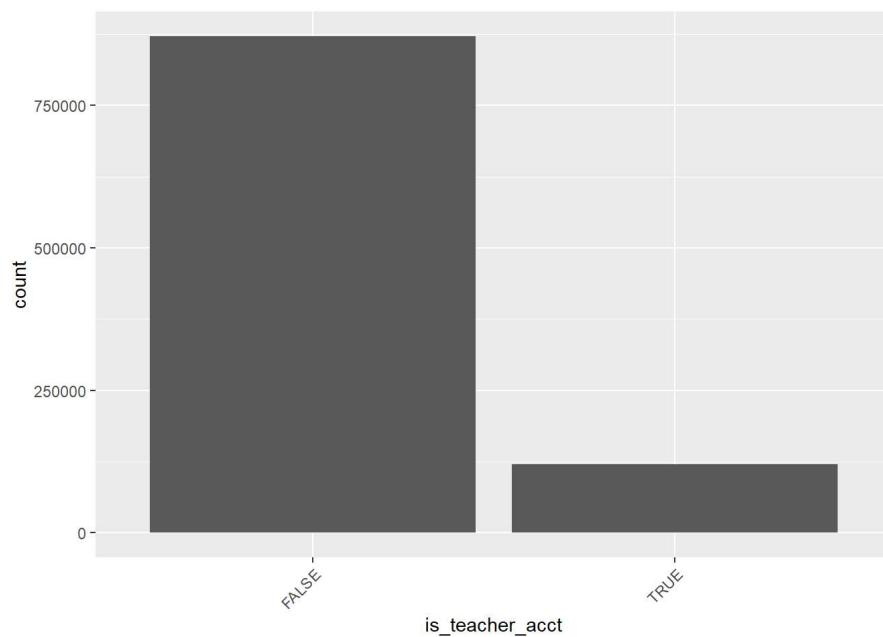


```
ggplot(clusters_prep, aes(x=donation_total))+geom_histogram(binwidth=5)+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```

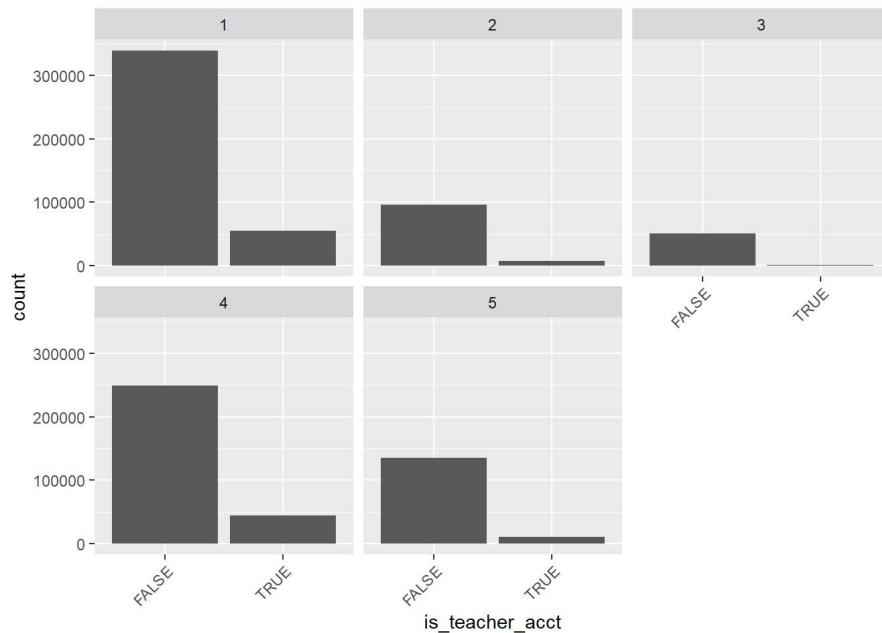
Final Project Donors Choose



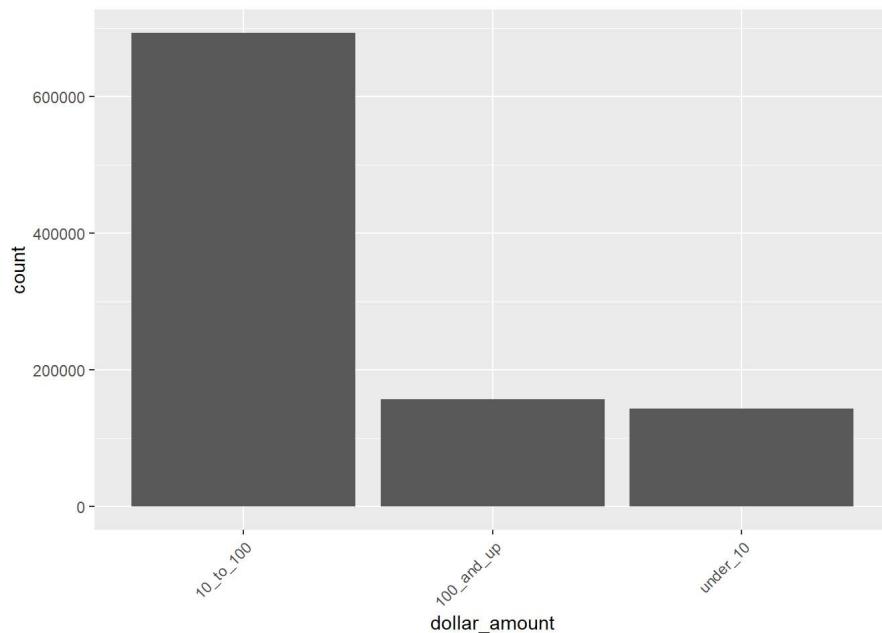
```
ggplot(clusters_prep, aes(is_teacher_acct)) + geom_bar() + theme(axis.text.x=element_text(angle=45, hjust=1))
```



```
ggplot(clusters_prep, aes(is_teacher_acct)) + geom_bar() + facet_wrap(~clusters5$cluster) + theme(axis.text.x=element_text(angle=45, hjust=1))
```

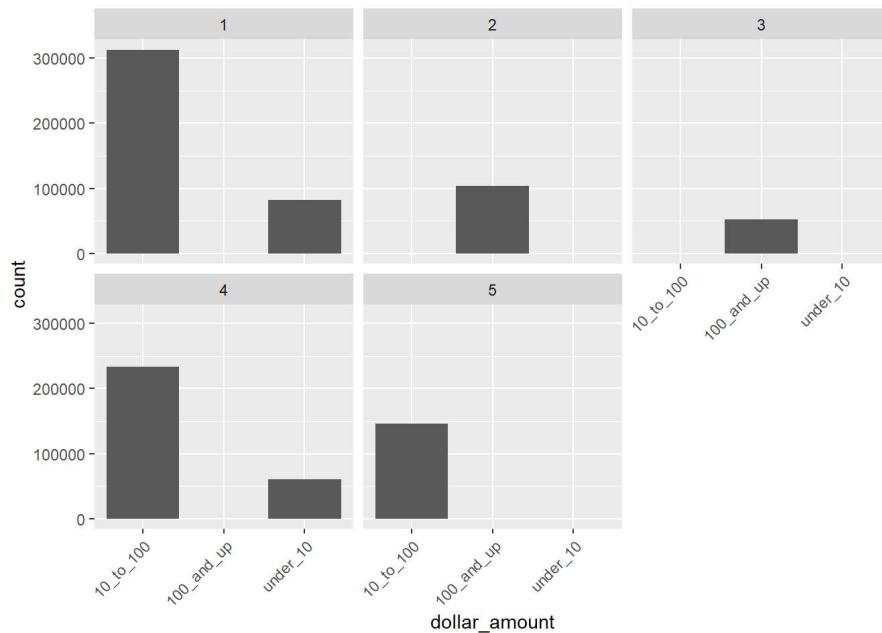


```
ggplot(clusters_prep, aes(dollar_amount)) + geom_bar() + theme(axis.text.x=element_text(angle=45, hjust=1))
```

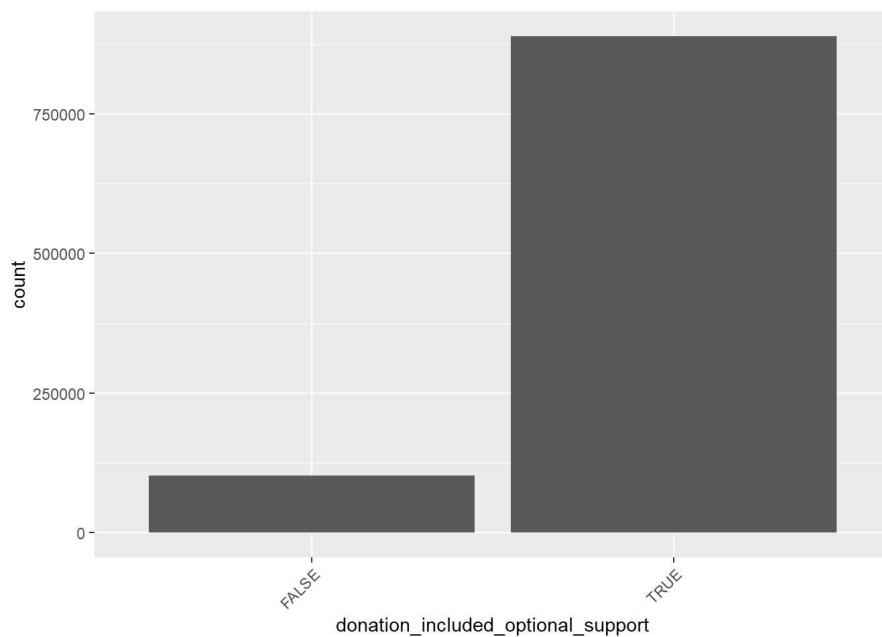


```
ggplot(clusters_prep, aes(dollar_amount)) + geom_bar() + facet_wrap(~clusters5$cluster) + theme(axis.text.x=element_text(angle=45, hjust=1))
```

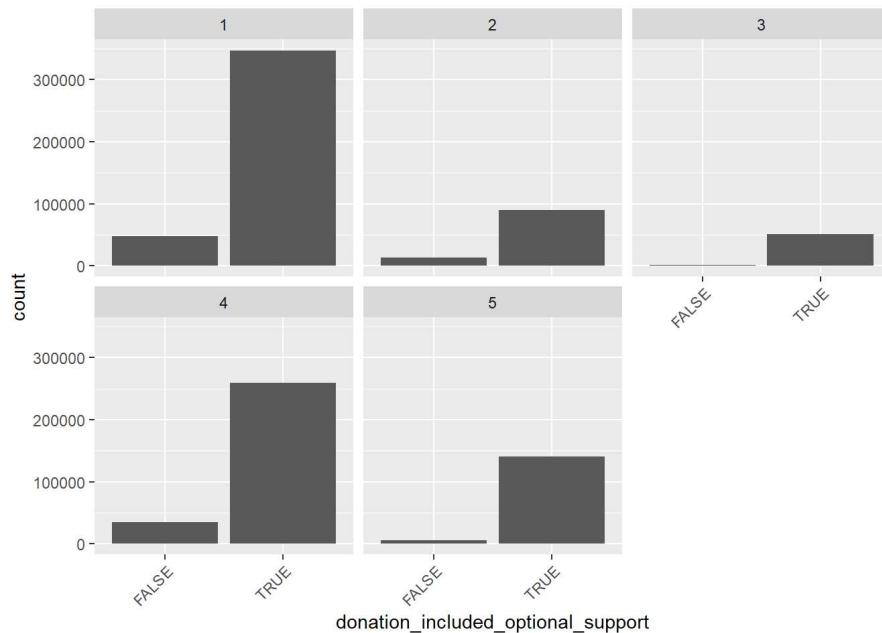
Final Project Donors Choose



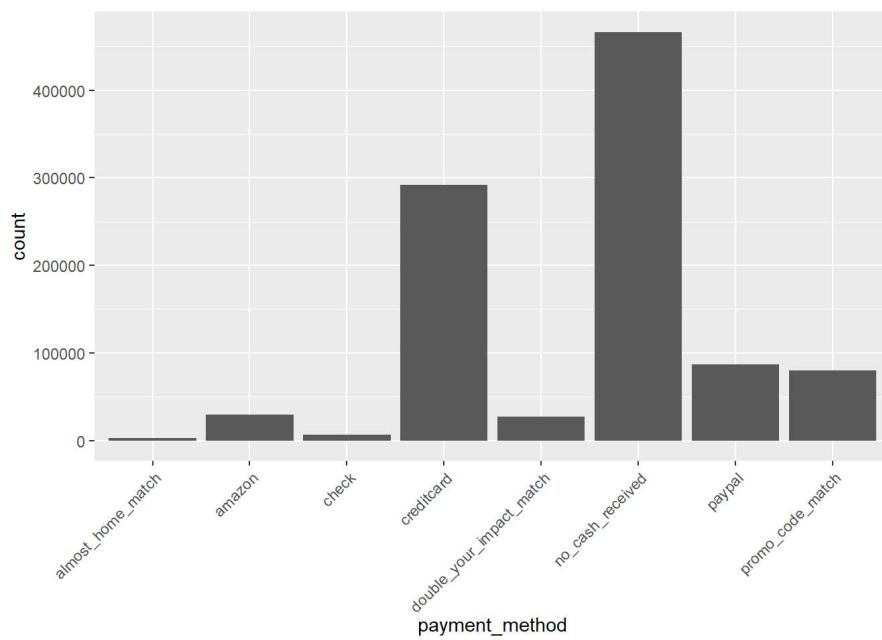
```
ggplot(clusters_prep, aes(donation_included_optional_support))+geom_bar()+theme(axis.text.x=element_text(angle=45, hjust=1))
```



```
ggplot(clusters_prep, aes(donation_included_optional_support))+geom_bar()+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```

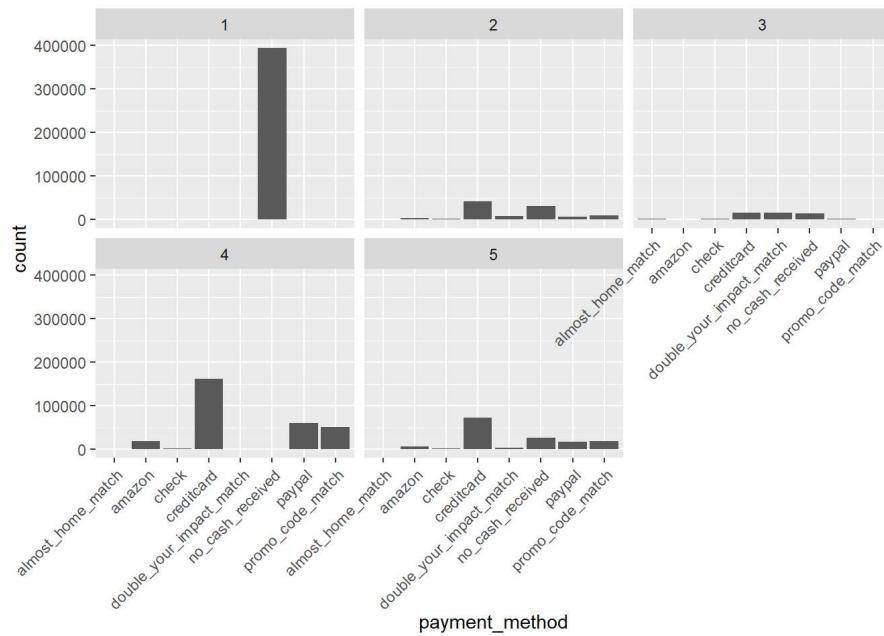


```
ggplot(clusters_prep, aes(payment_method))+geom_bar() +theme(axis.text.x=element_text(angle=45, hjust=1))
```

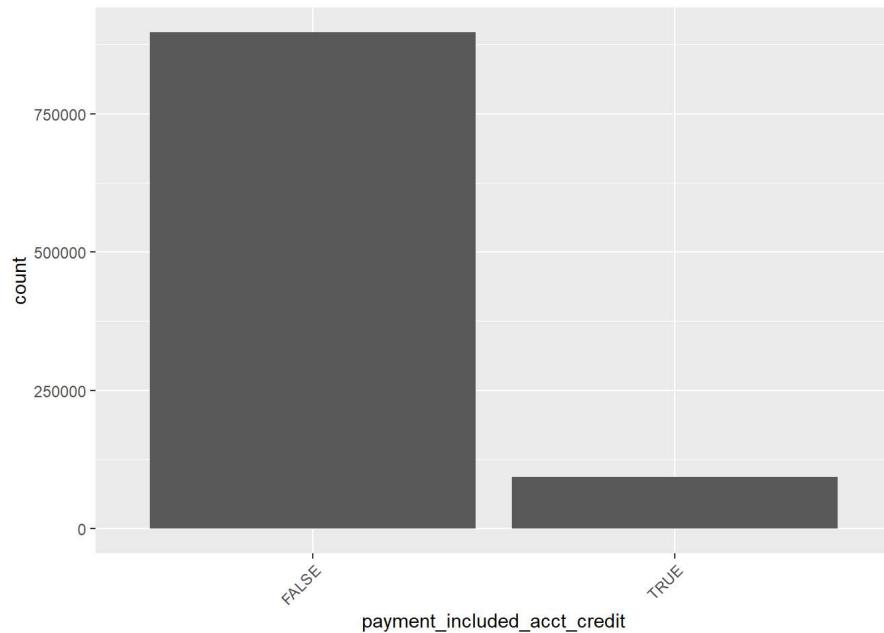


```
ggplot(clusters_prep, aes(payment_method))+geom_bar() +facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```

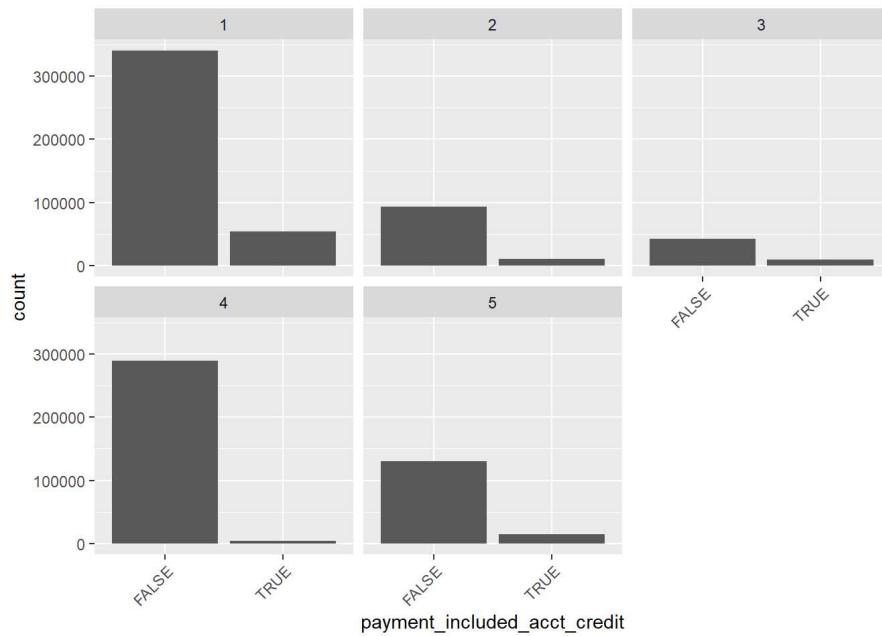
Final Project Donors Choose



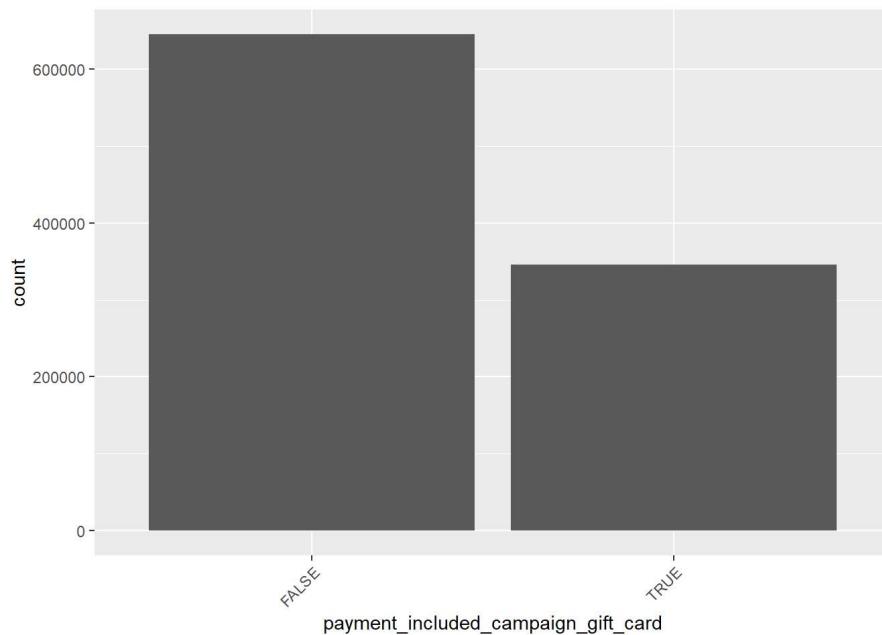
```
ggplot(clusters_prep, aes(payment_included_acct_credit))+geom_bar()+theme(axis.text.x=element_text(angle=45, hjust=1))
```



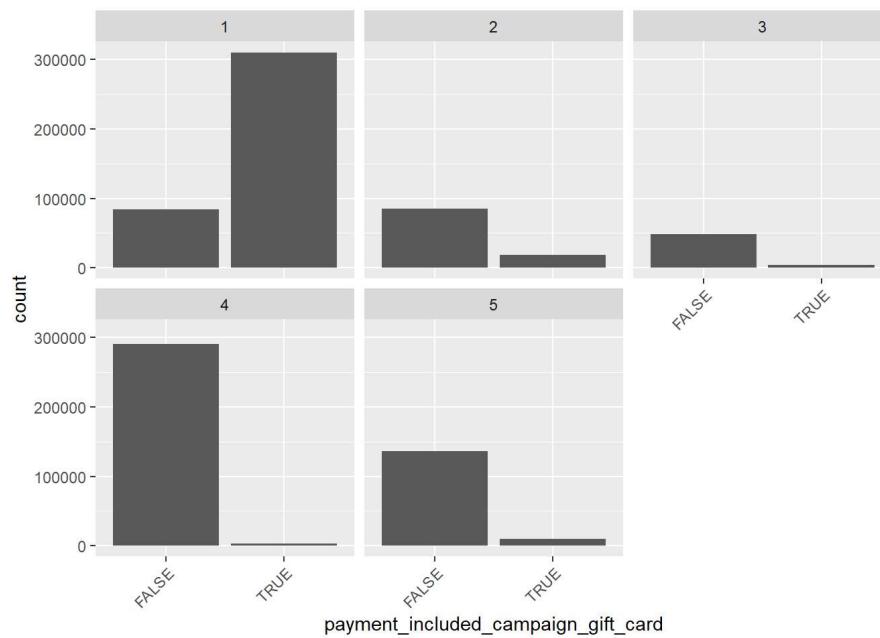
```
ggplot(clusters_prep, aes(payment_included_acct_credit))+geom_bar()+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```



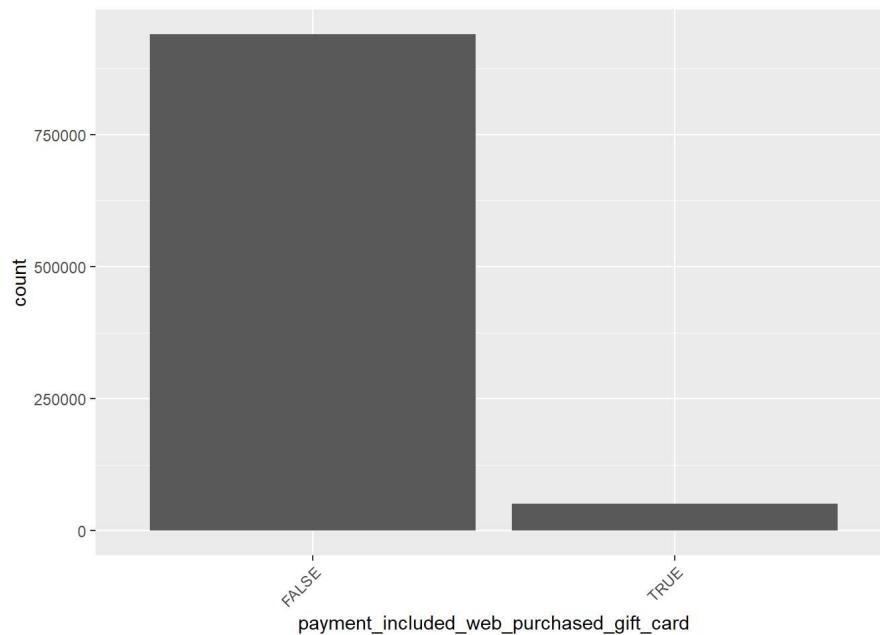
```
ggplot(clusters_prep, aes(payment_included_campaign_gift_card))+geom_bar()+theme(axis.text.x=element_text(angle=45, hjust=1))
```



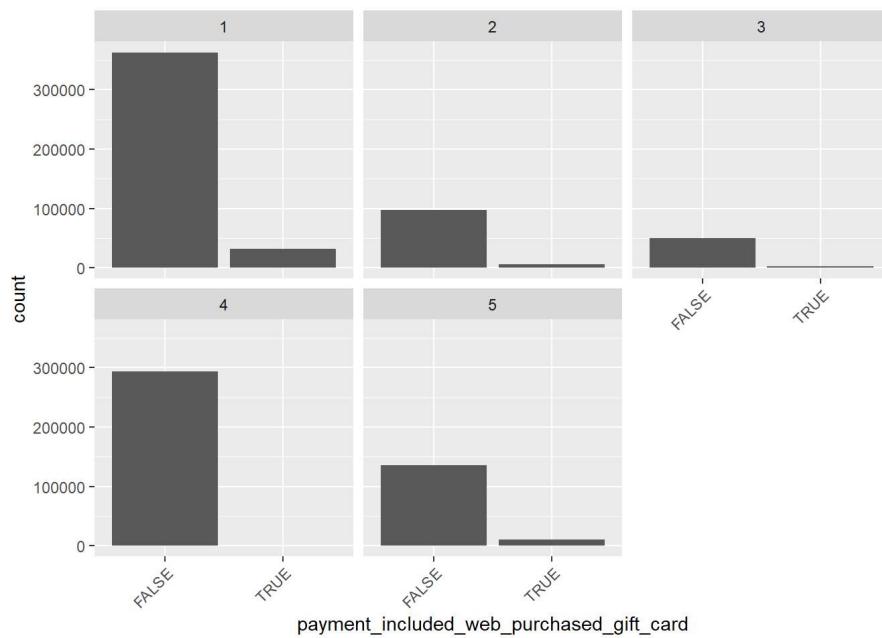
```
ggplot(clusters_prep, aes(payment_included_campaign_gift_card))+geom_bar()+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```



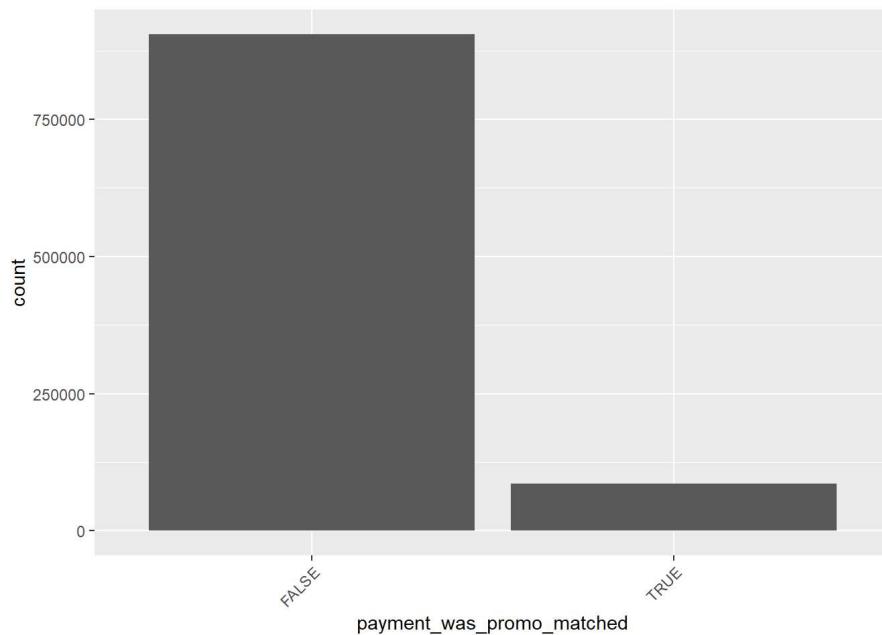
```
ggplot(clusters_prep, aes(payment_included_web_purchased_gift_card))+geom_bar()+theme(axis.text.x=element_text(angle=45, hjust=1))
```



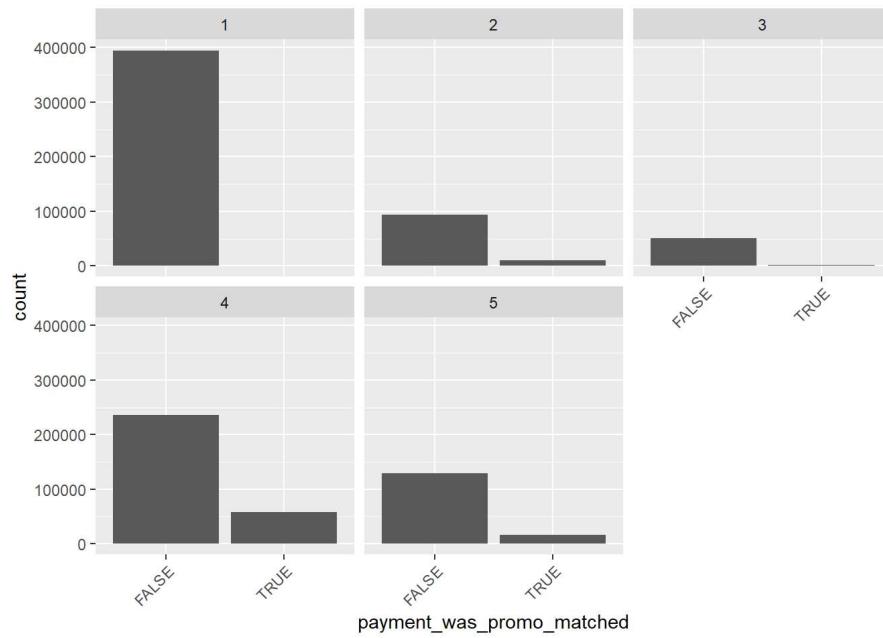
```
ggplot(clusters_prep, aes(payment_included_web_purchased_gift_card))+geom_bar()+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```



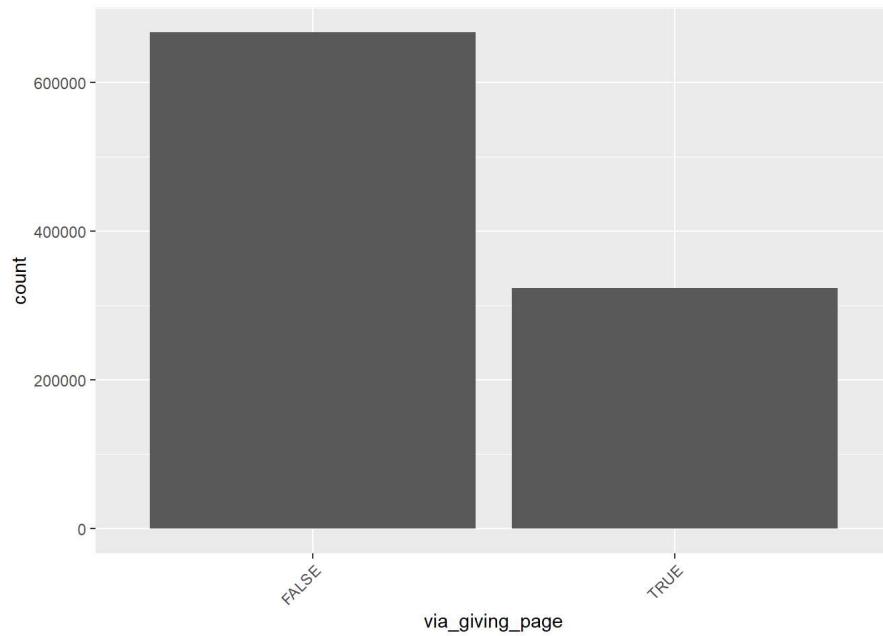
```
ggplot(clusters_prep, aes(payment_was_promo_matched))+geom_bar()+theme(axis.text.x=element_text(angle=45, hjust=1))
```



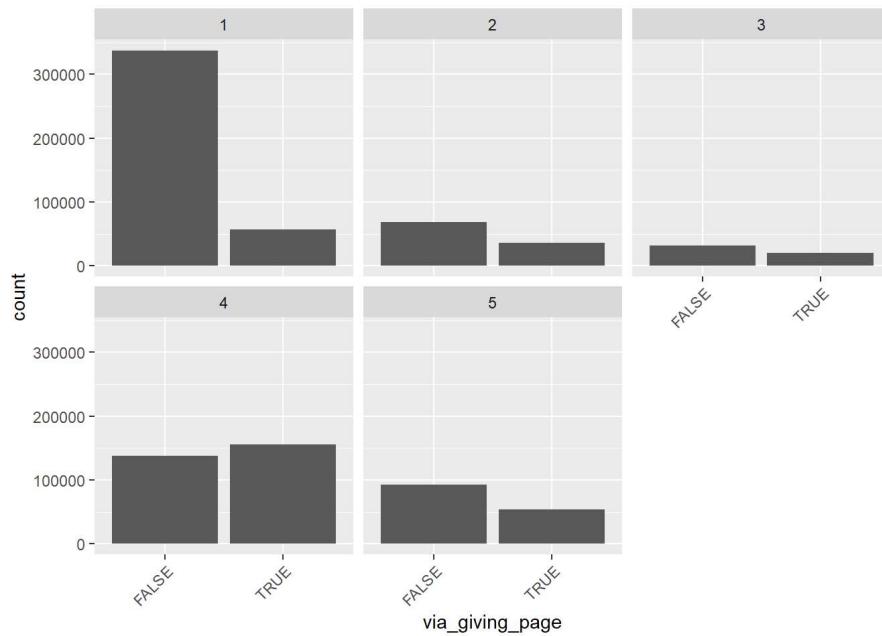
```
ggplot(clusters_prep, aes(payment_was_promo_matched))+geom_bar()+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```



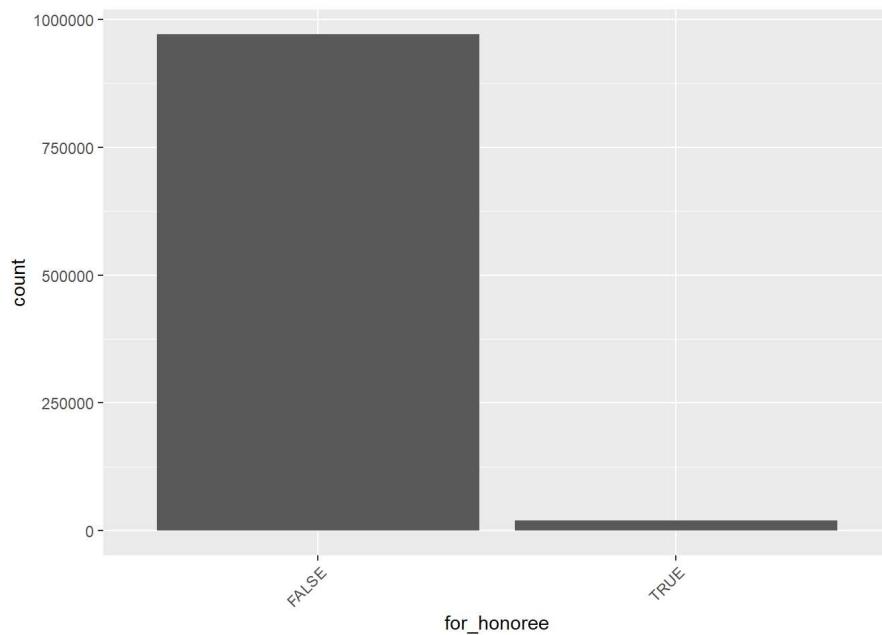
```
ggplot(clusters_prep, aes(via_giving_page))+geom_bar()+theme(axis.text.x=element_text(angle=45, hjust=1))
```



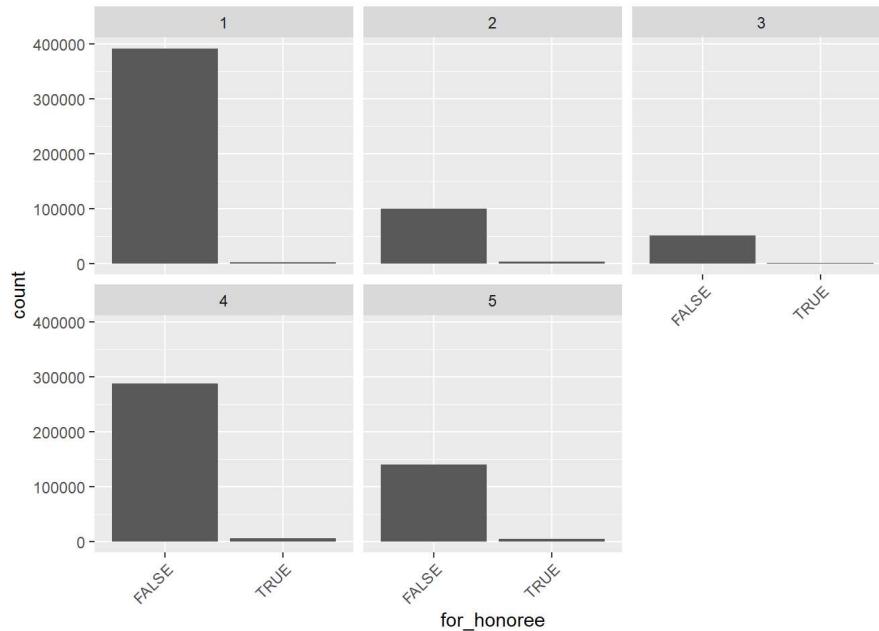
```
ggplot(clusters_prep, aes(via_giving_page))+geom_bar()+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```



```
ggplot(clusters_prep, aes(for_honoree))+geom_bar()+theme(axis.text.x=element_text(angle=45, hjust=1))
```



```
ggplot(clusters_prep, aes(for_honoree))+geom_bar()+facet_wrap(~clusters5$cluster)+theme(axis.text.x=element_text(angle=45, hjust=1))
```



Data Transformation

```
data <- donormerge %>% dplyr::select(-projectid, -teacher_acctid, -schoolid, -school_ncesid, -school_city, -school_state, -school_zip, -school_co
unty, -school_metro, -school_district, -secondary_focus_subject, -primary_focus_subject, -secondary_focus_area) %>% mutate_if(is.character, factor) %>% mutate(is_exciting = as.factor(is_exciting))

data$one_non_teacher_referred_donor_g <- as.factor(data$one_non_teacher_referred_donor_g)
data$school_charter <- as.factor(data$school_charter)
data$school_magnet <- as.factor(data$school_magnet)
data$school_year_round <- as.factor(data$school_year_round)
data$school_nlns <- as.factor(data$school_nlns)
data$school_kipp <- as.factor(data$school_kipp)
data$school_charter_ready.promise <- as.factor(data$school_charter_ready.promise)
data$teacher_teach_for_america <- as.factor(data$teacher_teach_for_america)
data$teacher_ny_teaching_fellow <- as.factor(data$teacher_ny_teaching_fellow)
data$eligible_double_your_impact_match <- as.factor(data$eligible_double_your_impact_match)
data$eligible_almost_home_match <- as.factor(data$eligible_almost_home_match)

head(data)
```

school_latitude	school_longitude	is_exciting	one_non_teacher_referred_donor_g	great_messages_proportion
42.88824	-71.32022	FALSE	FALSE	NA
37.47616	-77.48840	FALSE	FALSE	NA
41.95285	-87.65023	FALSE	TRUE	50
34.19363	-79.76906	FALSE	FALSE	0
38.24992	-85.72231	FALSE	NA	NA
30.50798	-86.13200	FALSE	TRUE	100

6 rows | 1-5 of 27 columns

Partition Data into 70/30 Train/Test Split

```
set.seed(1234)

# -- performs our train / test split
split <- initial_split(data, prop = 0.7)

# -- extract the training data from our banana split
train <- training(split)
# -- extract the test data
test <- testing(split)

sprintf("Train PCT : %1.2f%%", nrow(train)/ nrow(data) * 100)
```

```
## [1] "Train PCT : 70.00%"
```

```
sprintf("Test PCT : %1.2f%%", nrow(test)/ nrow(data) * 100)
```

```
## [1] "Test PCT : 30.00%"
```

Logistic Regression (Full Model)

Standard Logistic Model (Full Model)

- make a recipe
- specify a formula
- normalize (center and scale) the numeric variables - required for lasso/ridge
- dummy encode nominal predictors

```
donor_recipe <- recipe(is_exciting ~ .,
                         data = train) %>%
  step_novel(all_nominal_predictors()) %>%
  step_impute_mean(all_numeric_predictors()) %>%
  step_impute_mode(all_nominal_predictors()) %>%
  step_normalize(all_numeric_predictors()) %>%
  step_dummy(all_nominal_predictors())

logistic_spec <- logistic_reg() %>%
  set_mode("classification") %>%
  set_engine("glm")

logistic_wf <- workflow() %>%
  add_recipe(donor_recipe) %>%
  add_model(logistic_spec) %>%
  fit(train)

logistic_wf %>%
  pull_workflow_fit() %>%
  tidy() %>%
  mutate(across(is.numeric, round, 3))
```

term	estimate	std.error	statistic	p.value
<chr>	<dbl>	<dbl>	<dbl>	<dbl>
(Intercept)	-12.466	62.934	-0.198	0.843
school_latitude	0.082	0.008	9.961	0.000
school_longitude	0.027	0.009	3.199	0.001
great_messages_proportion	1.811	0.014	127.942	0.000
teacher_referred_count	1.027	0.009	111.196	0.000
non_teacher_referred_count	0.503	0.007	67.034	0.000
fulfillment_labor_materials	1.623	0.036	45.305	0.000
total_price_excluding_optional_s	-27.260	8.505	-3.205	0.001
total_price_including_optional_s	25.806	8.778	2.940	0.003

term	estimate	std.error	statistic	p.value
<chr>	<dbl>	<dbl>	<dbl>	<dbl>
students_reached	-0.467	0.161	-2.904	0.004
1-10 of 58 rows				Previous 1 2 3 4 5 6 Next

```

predict(logistic_wf, train, type="prob") %>%
bind_cols(predict(logistic_wf, train, type="class")) %>%
bind_cols(train) -> logistic_train

predict(logistic_wf, test, type="prob") %>%
bind_cols(predict(logistic_wf, test, type="class")) %>%
bind_cols(test) -> logistic_test

logistic_train %>%
metrics(is_exciting, estimate = .pred_class, .pred_TRUE) %>%
mutate(part="training") %>%
bind_rows(logistic_test %>%
metrics(is_exciting, estimate = .pred_class, .pred_TRUE) %>%
mutate(part="testing"))

```

.metric	.estimator	.estimate	part
<chr>	<chr>	<dbl>	<chr>
accuracy	binary	0.91242618	training
kap	binary	0.44578919	training
mn_log_loss	binary	4.55696573	training
roc_auc	binary	0.06592386	training
accuracy	binary	0.91186513	testing
kap	binary	0.44146824	testing
mn_log_loss	binary	4.55213850	testing
roc_auc	binary	0.06588173	testing
8 rows			

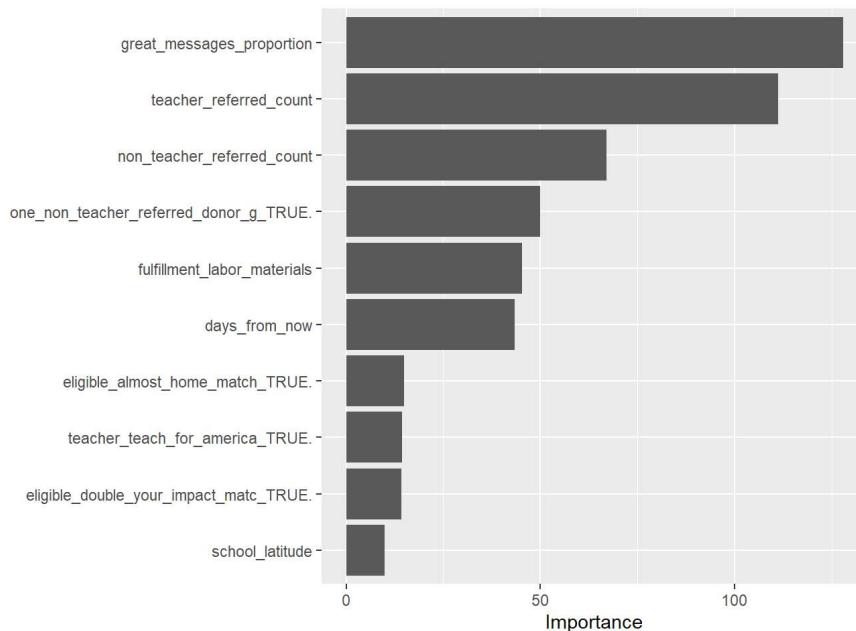
Logistic Model Evaluation (Full Model)

```

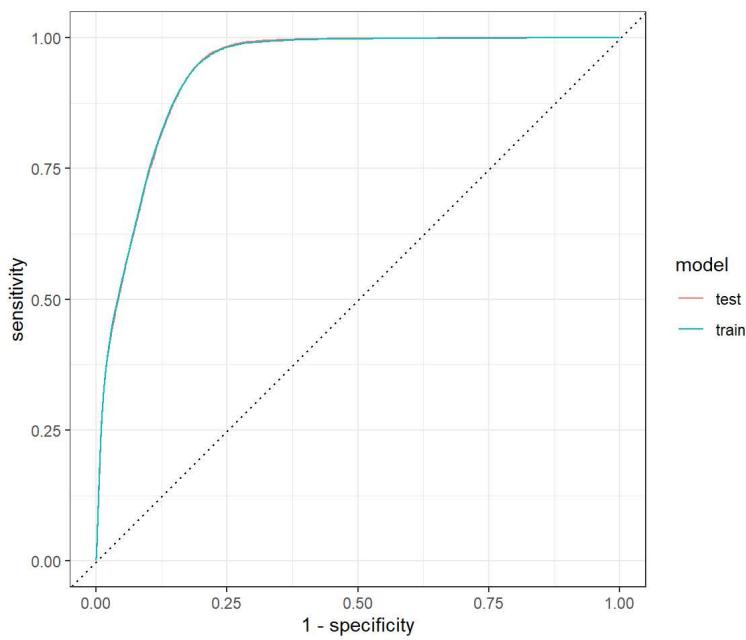
# -- deal w. the first event issue -- #
options(yardstick.event_first = FALSE)

logistic_wf %>%
pull_workflow_fit() %>%
vip()

```

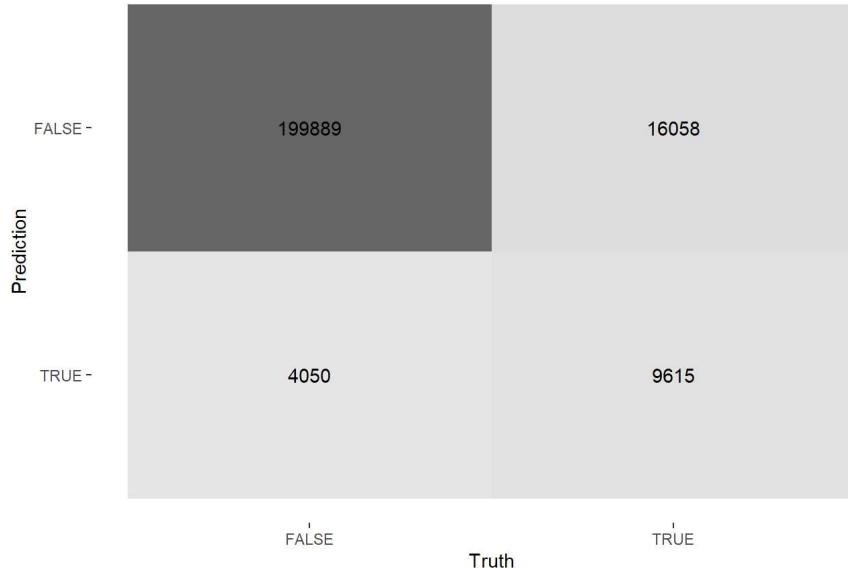


```
logistic_train %>% mutate(model = "train") %>%
bind_rows(logistic_test %>% mutate(model="test")) %>%
group_by(model) %>%
roc_curve(is_exciting, .pred_TRUE) %>%
autoplot()
```



```
logistic_train %>%
mutate(predict_class = as.factor(if_else(.pred_TRUE >= 0.5, TRUE, FALSE))) %>%
conf_mat(is_exciting, estimate = predict_class) %>%
autoplot(type = "heatmap") +
labs(title="confusion matrix threshold >= 0.5")
```

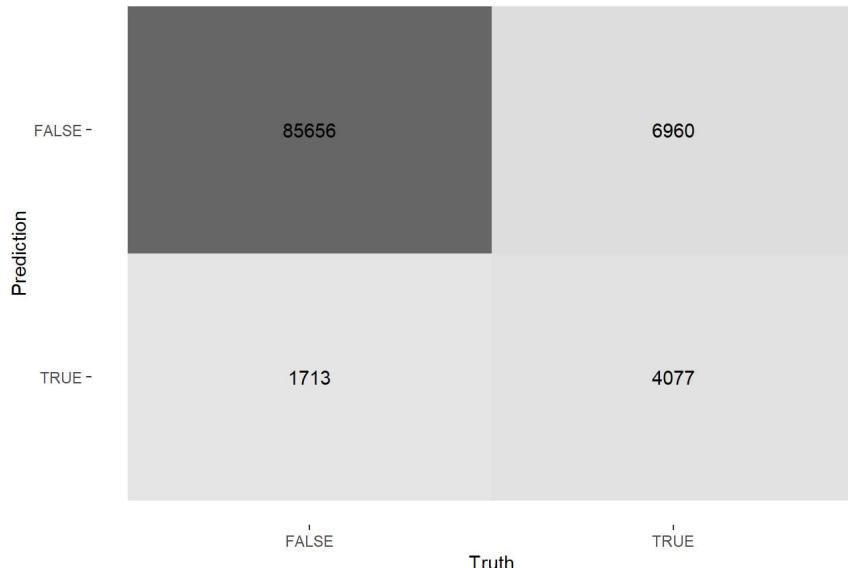
confusion matrix threshold >= 0.5



```
logistic_train_mutate <- logistic_train %>%
  mutate(predict_class = as.factor(if_else(.pred_TRUE >=0.5, TRUE, FALSE)))

logistic_test %>%
  mutate(predict_class = as.factor(if_else(.pred_TRUE >=0.5, TRUE, FALSE))) %>%
  conf_mat(is_exciting, estimate = predict_class) %>%
  autoplot(type = "heatmap") +
  labs(title="confusion matrix threshold >= 0.5")
```

confusion matrix threshold >= 0.5



```
logistic_test_mutate <- logistic_test %>%
  mutate(predict_class = as.factor(if_else(.pred_TRUE >=0.5, TRUE, FALSE)))

logistic_train %>%
  metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
  bind_rows(logistic_train_mutate %>% yardstick::precision(is_exciting, predict_class)) %>%
  bind_rows(logistic_train_mutate %>% yardstick::recall(is_exciting, predict_class)) %>%
  filter(.metric %in% c("accuracy", "roc_auc", "precision", "recall")) %>%
  mutate(part="training") %>%
  bind_rows(logistic_test %>%
    metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
    bind_rows(logistic_test_mutate %>% yardstick::precision(is_exciting, predict_class)) %>%
    bind_rows(logistic_test_mutate %>% yardstick::recall(is_exciting, predict_class)) %>%
    filter(.metric %in% c("accuracy", "roc_auc", "precision", "recall")) %>%
    mutate(part="testing"))
```

.metric	.estimator	.estimate part
<chr>	<chr>	<dbl> <chr>
accuracy	binary	0.9124262 training
roc_auc	binary	0.9340761 training
precision	binary	0.7036224 training
recall	binary	0.3745180 training
accuracy	binary	0.9118651 testing
roc_auc	binary	0.9341183 testing
precision	binary	0.7041451 testing
recall	binary	0.3693939 testing

8 rows

Lasso

Lasso L1 Regularization

Here we use the hyper parameters

```
lasso_spec <- logistic_reg(penalty = 0.01, mixture = 1) %>%
  set_mode("classification") %>%
  set_engine("glmnet")

lasso_wf <- workflow() %>%
  add_recipe(donor_recipe) %>%
  add_model(lasso_spec) %>%
  fit(train)

lasso_wf %>%
  pull_workflow_fit() %>%
  tidy() %>%
  filter(estimate != 0)
```

term	estimate	penalty
<chr>	<dbl>	<dbl>
(Intercept)	-3.3672897	0.01
great_messages_proportion	1.2510839	0.01
teacher_referred_count	0.7294876	0.01
non_teacher_referred_count	0.2948475	0.01
fulfillment_labor_materials	0.6713066	0.01
days_from_now	-0.3504082	0.01
one_non_teacher_referred_donor_g_TRUE.	0.4213415	0.01
teacher_teach_for_amERICA_TRUE.	0.1183346	0.01

8 rows

```

predict(lasso_wf, train, type="prob") %>%
  bind_cols(predict(lasso_wf, train, type="class")) %>%
  bind_cols(train) -> lasso_train

predict(lasso_wf, test, type="prob") %>%
  bind_cols(predict(lasso_wf, test, type="class")) %>%
  bind_cols(test) -> lasso_test

lasso_train %>%
  metrics(is_exciting, estimate = .pred_class, .pred_TRUE) %>%
  mutate(part="training") %>%
bind_rows(lasso_test %>%
  metrics(is_exciting, estimate = .pred_class, .pred_TRUE) %>%
  mutate(part="testing"))

```

.metric	.estimator	.estimate part
<chr>	<chr>	<dbl> <chr>
accuracy	binary	0.9020826 training
kap	binary	0.2784045 training
mn_log_loss	binary	0.2193186 training
roc_auc	binary	0.9298547 training
accuracy	binary	0.9007886 testing
kap	binary	0.2683540 testing
mn_log_loss	binary	0.2201642 testing
roc_auc	binary	0.9291065 testing

8 rows

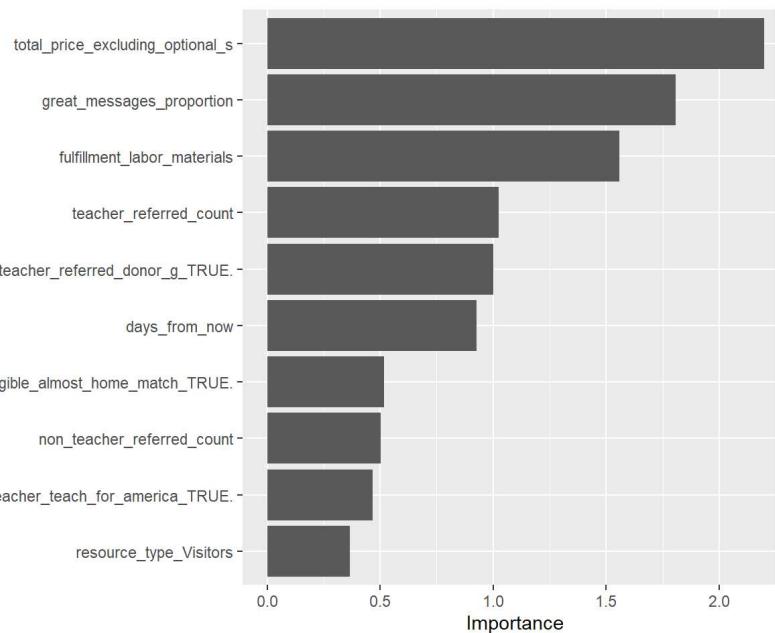
Lasso Evaluation

```

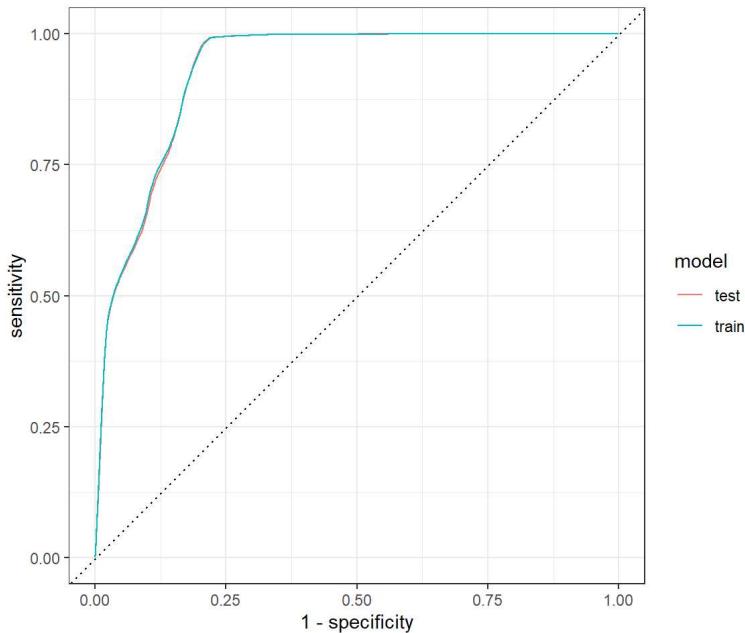
# -- deal w. the first event issue -- #
options(yardstick.event_first = FALSE)

lasso_wf %>%
  pull_workflow_fit() %>%
  vip()

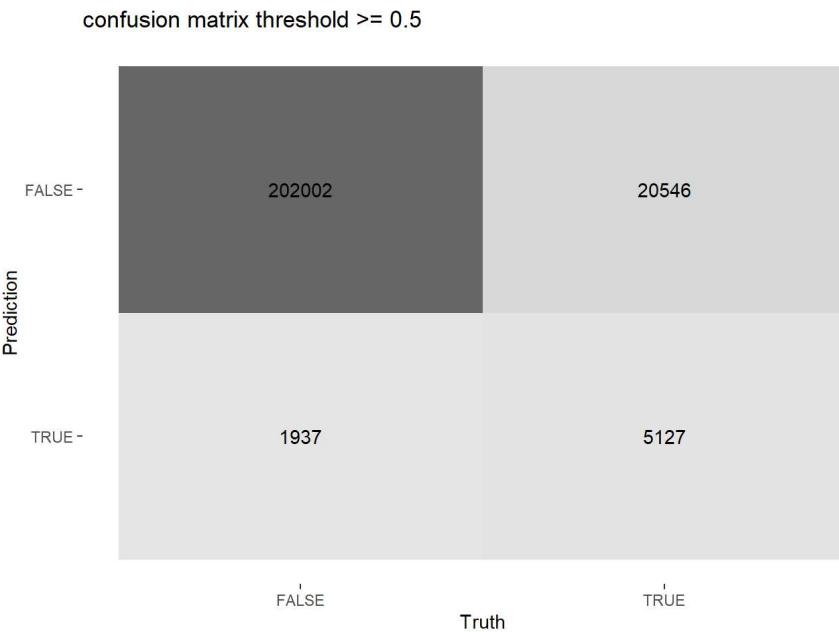
```



```
lasso_train %>% mutate(model = "train") %>%
bind_rows(lasso_test %>% mutate(model="test")) %>%
group_by(model) %>%
roc_curve(is_exciting, .pred_TRUE) %>%
autoplot()
```



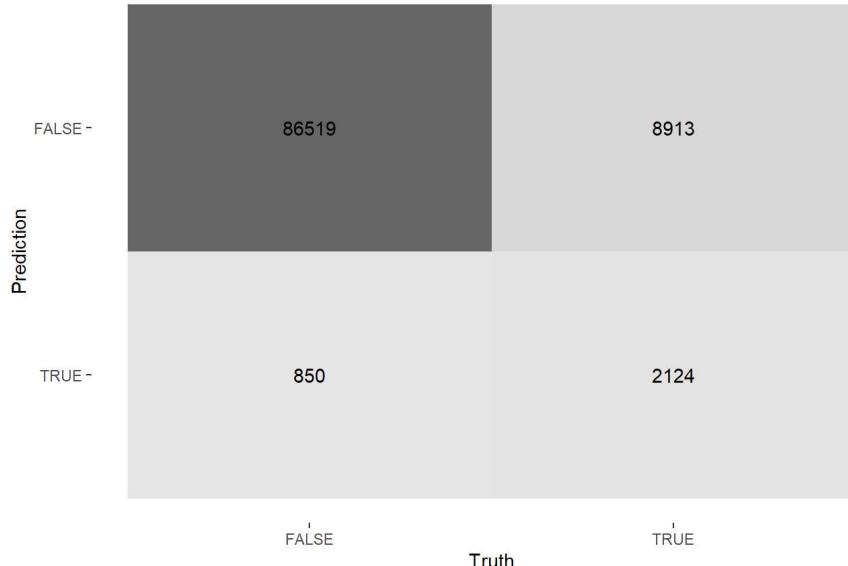
```
lasso_train %>%
mutate(predict_class = as.factor(if_else(.pred_TRUE >=0.5, TRUE, FALSE))) %>%
conf_mat(is_exciting, estimate = predict_class) %>%
autoplot(type = "heatmap") +
labs(title="confusion matrix threshold >= 0.5")
```



```
lasso_train_mutate <- lasso_train %>%
mutate(predict_class = as.factor(if_else(.pred_TRUE >=0.5, TRUE, FALSE)))

lasso_test %>%
mutate(predict_class = as.factor(if_else(.pred_TRUE >=0.5, TRUE, FALSE))) %>%
conf_mat(is_exciting, estimate = predict_class) %>%
autoplot(type = "heatmap") +
labs(title="confusion matrix threshold >= 0.5")
```

confusion matrix threshold >= 0.5



```

lasso_test_mutate <- lasso_test %>%
  mutate(predict_class = as.factor(if_else(pred_TRUE >= 0.5, TRUE, FALSE)))

lasso_train %>%
  metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
  bind_rows(lasso_train_mutate %>% yardstick::precision(is_exciting, predict_class)) %>%
  bind_rows(lasso_train_mutate %>% yardstick::recall(is_exciting, predict_class)) %>%
  filter(.metric %in% c("accuracy", "roc_auc", "precision", "recall")) %>%
  mutate(part="training") %>%
  bind_rows(lasso_test %>%
    metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
    bind_rows(lasso_test_mutate %>% yardstick::precision(is_exciting, predict_class)) %>%
    bind_rows(lasso_test_mutate %>% yardstick::recall(is_exciting, predict_class)) %>%
    filter(.metric %in% c("accuracy", "roc_auc", "precision", "recall")) %>%
    mutate(part="testing"))
  
```

.metric	.estimator	.estimate	part
<chr>	<chr>	<dbl>	<chr>
accuracy	binary	0.9020826	training
roc_auc	binary	0.9298547	training
precision	binary	0.7257928	training
recall	binary	0.1997040	training
accuracy	binary	0.9007886	testing
roc_auc	binary	0.9291065	testing
precision	binary	0.7141896	testing
recall	binary	0.1924436	testing

8 rows

Define Recipe & Bake

```

recipe <- recipe(is_exciting ~ great_messages_proportion + teacher_referred_count + non_teacher_referred_count + fulfillment_labor_materials + da
  ys_from_now + one_non_teacher_referred_donor_g + teacher_teach_for_america, data=train) %>%
  step_impute_median(all_numeric_predictors()) %>%
  step_unknown(all_nominal_predictors()) %>%
  step_scale(all_numeric_predictors()) %>%
  step_novel(all_nominal_predictors()) %>% # new factor levels
  step_dummy(all_nominal_predictors(), one_hot = TRUE) %>%
  step_nzv(all_predictors()) %>%
  prep()

recipe
  
```

```

## Recipe
##
## Inputs:
##
##       role #variables
##   outcome          1
## predictor         7
##
## Training data contained 229612 data points and 62933 incomplete rows.
##
## Operations:
##
## Median imputation for great_messages_proportion, teacher_referred_cou... [trained]
## Unknown factor level assignment for one_non_teacher_referred_donor_g, teacher_teach... [trained]
## Scaling for great_messages_proportion, teacher_referred_cou... [trained]
## Novel factor level assignment for one_non_teacher_referred_donor_g, teacher_teach... [trained]
## Dummy variables from one_non_teacher_referred_donor_g, teacher_teach_for_america [trained]
## Sparse, unbalanced variable filter removed one_non_teacher_referred_donor_g_new, t... [trained]

```

```
bake(recipe %>% prep(), train, composition = "tibble") %>% head()
```

great_messages_proportion	teacher_referred_count	non_teacher_referred_count	fulfillment_labor_materials
<dbl>	<dbl>	<dbl>	<dbl>
3.342776	0.0000000	0.3634566	1.981486
3.342776	0.0000000	0.1817283	4.079530
2.507082	0.9093903	1.0903698	3.496740
2.774504	1.3640855	0.7269132	3.496740
1.504249	3.1828662	0.5451849	4.079530
1.905382	0.0000000	0.5451849	1.981486

6 rows | 1-4 of 11 columns

```
bake_train <- bake(recipe, new_data = train)
bake_test <- bake(recipe, new_data = test)
```

Neural Network

Define Neural Network Model

```

# K-fold cross validation
kfold_splits <- vfold_cv(train, v=5)

nn_model <- mlp(hidden_units = tune(),
                  penalty=tune(),
                  epochs = tune(),
) %>%
  set_engine("nnet") %>%
  set_mode("classification")

nn_wf <- workflow() %>%
  add_recipe(recipe) %>%
  add_model(nn_model)

nn_search_res <- nn_wf %>%
  tune_bayes(
    resamples = kfold_splits,
    # Generate five at semi-random to start
    initial = 5,
    iter = 50,
    # How to measure performance?
    metrics = metric_set(yardstick::accuracy, yardstick::roc_auc),
    control = control_bayes(no_improve = 5, verbose = TRUE)
  )

```

```
##  
  
## > Generating a set of 5 initial parameter results  
  
## ✓ Initialization complete  
  
##  
  
##  
  
## — Iteration 1 ——————  
—  
  
##  
  
## i Current best: accuracy=0.9916 (@iter 0)  
  
## i Gaussian process model  
  
## ✓ Gaussian process model  
  
## i Generating 5000 candidates  
  
## i Predicted candidates  
  
## i hidden_units=8, penalty=0.0000916, epochs=844  
  
## i Estimating performance  
  
## i Fold1: preprocessor 1/1  
  
## ✓ Fold1: preprocessor 1/1  
  
## i Fold1: preprocessor 1/1, model 1/1  
  
## ✓ Fold1: preprocessor 1/1, model 1/1  
  
## i Fold1: preprocessor 1/1, model 1/1 (predictions)  
  
## i Fold2: preprocessor 1/1  
  
## ✓ Fold2: preprocessor 1/1  
  
## i Fold2: preprocessor 1/1, model 1/1  
  
## ✓ Fold2: preprocessor 1/1, model 1/1  
  
## i Fold2: preprocessor 1/1, model 1/1 (predictions)  
  
## i Fold3: preprocessor 1/1  
  
## ✓ Fold3: preprocessor 1/1  
  
## i Fold3: preprocessor 1/1, model 1/1
```

```
## ✓ Fold3: preprocessor 1/1, model 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold4: preprocessor 1/1
```

```
## ✓ Fold4: preprocessor 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1
```

```
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1
```

```
## ✓ Fold5: preprocessor 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1
```

```
## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## ⓘ Newest results: accuracy=0.9717 (+/-0.021)
```

```
##
```

```
## — Iteration 2 ——————
```

```
##
```

```
## i Current best: accuracy=0.9916 (@iter 0)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 5000 candidates
```

```
## i Predicted candidates
```

```
## i hidden_units=5, penalty=0.0000000616, epochs=463
```

```
## i Estimating performance
```

```
## i Fold1: preprocessor 1/1
```

```
## ✓ Fold1: preprocessor 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1
```

```
## ✓ Fold1: preprocessor 1/1, model 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold2: preprocessor 1/1
```

```
## ✓ Fold2: preprocessor 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1
```

```
## ✓ Fold2: preprocessor 1/1, model 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold3: preprocessor 1/1
```

```
## ✓ Fold3: preprocessor 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1
```

```
## ✓ Fold3: preprocessor 1/1, model 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold4: preprocessor 1/1
```

```
## ✓ Fold4: preprocessor 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1
```

```
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1
```

```
## ✓ Fold5: preprocessor 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1
```

```
## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## ⓘ Newest results: accuracy=0.9897 (+/-0.00219)
```

```
##
```

```
## — Iteration 3 —
```

```
##
```

```
## i Current best:      accuracy=0.9916 (@iter 0)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 5000 candidates
```

```
## i Predicted candidates
```

```
## i hidden_units=5, penalty=0.999, epochs=305
```

```
## i Estimating performance
```

```
## i Fold1: preprocessor 1/1
```

```
## ✓ Fold1: preprocessor 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1
```

```
## ✓ Fold1: preprocessor 1/1, model 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold2: preprocessor 1/1
```

```
## ✓ Fold2: preprocessor 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1
```

```
## ✓ Fold2: preprocessor 1/1, model 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold3: preprocessor 1/1
```

```
## ✓ Fold3: preprocessor 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1
```

```
## ✓ Fold3: preprocessor 1/1, model 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold4: preprocessor 1/1
```

```
## ✓ Fold4: preprocessor 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1
```

```
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1

## ✓ Fold5: preprocessor 1/1

## i Fold5: preprocessor 1/1, model 1/1

## ✓ Fold5: preprocessor 1/1, model 1/1

## i Fold5: preprocessor 1/1, model 1/1 (predictions)

## ✓ Estimating performance

## ♥ Newest results: accuracy=0.992 (+/-0.000147)

##

## — Iteration 4 ——————  
—  
##

## i Current best: accuracy=0.992 (@iter 3)

## i Gaussian process model

## ✓ Gaussian process model

## i Generating 5000 candidates

## i Predicted candidates

## i hidden_units=8, penalty=0.000000001, epochs=1000

## i Estimating performance

## i Fold1: preprocessor 1/1

## ✓ Fold1: preprocessor 1/1

## i Fold1: preprocessor 1/1, model 1/1

## ✓ Fold1: preprocessor 1/1, model 1/1

## i Fold1: preprocessor 1/1, model 1/1 (predictions)

## i Fold2: preprocessor 1/1

## ✓ Fold2: preprocessor 1/1

## i Fold2: preprocessor 1/1, model 1/1

## ✓ Fold2: preprocessor 1/1, model 1/1

## i Fold2: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold3: preprocessor 1/1
```

```
## ✓ Fold3: preprocessor 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1
```

```
## ✓ Fold3: preprocessor 1/1, model 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold4: preprocessor 1/1
```

```
## ✓ Fold4: preprocessor 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1
```

```
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1
```

```
## ✓ Fold5: preprocessor 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1
```

```
## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## ❤ Newest results: accuracy=0.9929 (+/-0.000167)
```

```
##
```

```
## — Iteration 5 —
```

```
##
```

```
## i Current best: accuracy=0.9929 (@iter 4)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 5000 candidates
```

```
## i Predicted candidates
```

```
## i hidden_units=7, penalty=0.421, epochs=403
```

```
## i Estimating performance
```

```
## i Fold1: preprocessor 1/1

## ✓ Fold1: preprocessor 1/1

## i Fold1: preprocessor 1/1, model 1/1

## ✓ Fold1: preprocessor 1/1, model 1/1 (predictions)

## i Fold2: preprocessor 1/1

## ✓ Fold2: preprocessor 1/1

## i Fold2: preprocessor 1/1, model 1/1

## ✓ Fold2: preprocessor 1/1, model 1/1 (predictions)

## i Fold3: preprocessor 1/1

## ✓ Fold3: preprocessor 1/1

## i Fold3: preprocessor 1/1, model 1/1

## ✓ Fold3: preprocessor 1/1, model 1/1 (predictions)

## i Fold4: preprocessor 1/1

## ✓ Fold4: preprocessor 1/1

## i Fold4: preprocessor 1/1, model 1/1

## ✓ Fold4: preprocessor 1/1, model 1/1 (predictions)

## i Fold5: preprocessor 1/1

## ✓ Fold5: preprocessor 1/1

## i Fold5: preprocessor 1/1, model 1/1

## ✓ Fold5: preprocessor 1/1, model 1/1 (predictions)

## ✓ Estimating performance

## ⓘ Newest results: accuracy=0.9926 (+/-0.000173)
```

```
##  
  
## — Iteration 6 ——————  
  
##  
  
## i Current best:      accuracy=0.9929 (@iter 4)  
  
## i Gaussian process model  
  
## ✓ Gaussian process model  
  
## i Generating 5000 candidates  
  
## i Predicted candidates  
  
## i hidden_units=4, penalty=0.000000157, epochs=537  
  
## i Estimating performance  
  
## i Fold1: preprocessor 1/1  
  
## ✓ Fold1: preprocessor 1/1  
  
## i Fold1: preprocessor 1/1, model 1/1  
  
## ✓ Fold1: preprocessor 1/1, model 1/1  
  
## i Fold1: preprocessor 1/1, model 1/1 (predictions)  
  
## i Fold2: preprocessor 1/1  
  
## ✓ Fold2: preprocessor 1/1  
  
## i Fold2: preprocessor 1/1, model 1/1  
  
## ✓ Fold2: preprocessor 1/1, model 1/1  
  
## i Fold2: preprocessor 1/1, model 1/1 (predictions)  
  
## i Fold3: preprocessor 1/1  
  
## ✓ Fold3: preprocessor 1/1  
  
## i Fold3: preprocessor 1/1, model 1/1  
  
## ✓ Fold3: preprocessor 1/1, model 1/1  
  
## i Fold3: preprocessor 1/1, model 1/1 (predictions)  
  
## i Fold4: preprocessor 1/1  
  
## ✓ Fold4: preprocessor 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1
```

```
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1
```

```
## ✓ Fold5: preprocessor 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1
```

```
## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## (X) Newest results: accuracy=0.9683 (+/-0.0159)
```

```
##
```

```
## — Iteration 7 ——————
```

```
##
```

```
## i Current best: accuracy=0.9929 (@iter 4)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 5000 candidates
```

```
## i Predicted candidates
```

```
## i hidden_units=8, penalty=0.0000000618, epochs=263
```

```
## i Estimating performance
```

```
## i Fold1: preprocessor 1/1
```

```
## ✓ Fold1: preprocessor 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1
```

```
## ✓ Fold1: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold2: preprocessor 1/1
```

```
## ✓ Fold2: preprocessor 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1
```

```
## ✓ Fold2: preprocessor 1/1, model 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold3: preprocessor 1/1
```

```
## ✓ Fold3: preprocessor 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1
```

```
## ✓ Fold3: preprocessor 1/1, model 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold4: preprocessor 1/1
```

```
## ✓ Fold4: preprocessor 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1
```

```
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1
```

```
## ✓ Fold5: preprocessor 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1
```

```
## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## ⓘ Newest results: accuracy=0.9752 (+/-0.0176)
```

```
##
```

```
## — Iteration 8 —
```

```
##
```

```
## i Current best: accuracy=0.9929 (@iter 4)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 5000 candidates
```

```
## i Predicted candidates

## i hidden_units=3, penalty=0.0154, epochs=11

## i Estimating performance

## i Fold1: preprocessor 1/1

## ✓ Fold1: preprocessor 1/1

## i Fold1: preprocessor 1/1, model 1/1

## ✓ Fold1: preprocessor 1/1, model 1/1

## i Fold1: preprocessor 1/1, model 1/1 (predictions)

## i Fold2: preprocessor 1/1

## ✓ Fold2: preprocessor 1/1

## i Fold2: preprocessor 1/1, model 1/1

## ✓ Fold2: preprocessor 1/1, model 1/1

## i Fold2: preprocessor 1/1, model 1/1 (predictions)

## i Fold3: preprocessor 1/1

## ✓ Fold3: preprocessor 1/1

## i Fold3: preprocessor 1/1, model 1/1

## ✓ Fold3: preprocessor 1/1, model 1/1

## i Fold3: preprocessor 1/1, model 1/1 (predictions)

## i Fold4: preprocessor 1/1

## ✓ Fold4: preprocessor 1/1

## i Fold4: preprocessor 1/1, model 1/1

## ✓ Fold4: preprocessor 1/1, model 1/1

## i Fold4: preprocessor 1/1, model 1/1 (predictions)

## i Fold5: preprocessor 1/1

## ✓ Fold5: preprocessor 1/1

## i Fold5: preprocessor 1/1, model 1/1

## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## ⓘ Newest results: accuracy=0.8959 (+/-0.00525)
```

```
##
```

```
## — Iteration 9 ——————
```

```
##
```

```
## i Current best: accuracy=0.9929 (@iter 4)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 5000 candidates
```

```
## i Predicted candidates
```

```
## i hidden_units=4, penalty=0.0000000221, epochs=665
```

```
## i Estimating performance
```

```
## i Fold1: preprocessor 1/1
```

```
## ✓ Fold1: preprocessor 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1
```

```
## ✓ Fold1: preprocessor 1/1, model 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold2: preprocessor 1/1
```

```
## ✓ Fold2: preprocessor 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1
```

```
## ✓ Fold2: preprocessor 1/1, model 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold3: preprocessor 1/1
```

```
## ✓ Fold3: preprocessor 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1
```

```
## ✓ Fold3: preprocessor 1/1, model 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold4: preprocessor 1/1
```

```
## ✓ Fold4: preprocessor 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1
```

```
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1
```

```
## ✓ Fold5: preprocessor 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1
```

```
## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## ⓘ Newest results: accuracy=0.9851 (+/-0.00449)
```

```
## ! No improvement for 5 iterations; returning current results.
```

NNET Tuning

Evaluate our tuning efforts

```
# Experiments
nn_search_res %>%
  collect_metrics()
```

hidden_units	penalty	epochs	.metric	.estimator	mean	n	std_err	.config
<int>	<dbl>	<int>	<chr>	<chr>	<dbl>	<int>	<dbl>	<chr>
9	0.0000000288871145	939	accuracy	binary	0.9915510	5	0.00140363291	Preprocessor1_Model1
9	0.0000000288871145	939	roc_auc	binary	0.9969668	5	0.00068447127	Preprocessor1_Model1
3	0.0007246082575354	213	accuracy	binary	0.9876618	5	0.00248935835	Preprocessor1_Model2
3	0.0007246082575354	213	roc_auc	binary	0.9948376	5	0.00121722432	Preprocessor1_Model2
3	0.0000045912055485	449	accuracy	binary	0.9144471	5	0.01826423505	Preprocessor1_Model3
3	0.0000045912055485	449	roc_auc	binary	0.7768934	5	0.11337410317	Preprocessor1_Model3
8	0.0000000006780505	67	accuracy	binary	0.9847656	5	0.00359237588	Preprocessor1_Model4
8	0.0000000006780505	67	roc_auc	binary	0.9959420	5	0.00099264626	Preprocessor1_Model4
6	0.0397034275899229	643	accuracy	binary	0.9713563	5	0.02032727582	Preprocessor1_Model5
6	0.0397034275899229	643	roc_auc	binary	0.9862402	5	0.01145374807	Preprocessor1_Model5

1-10 of 28 rows | 1-9 of 10 columns

Previous 1 2 3 Next

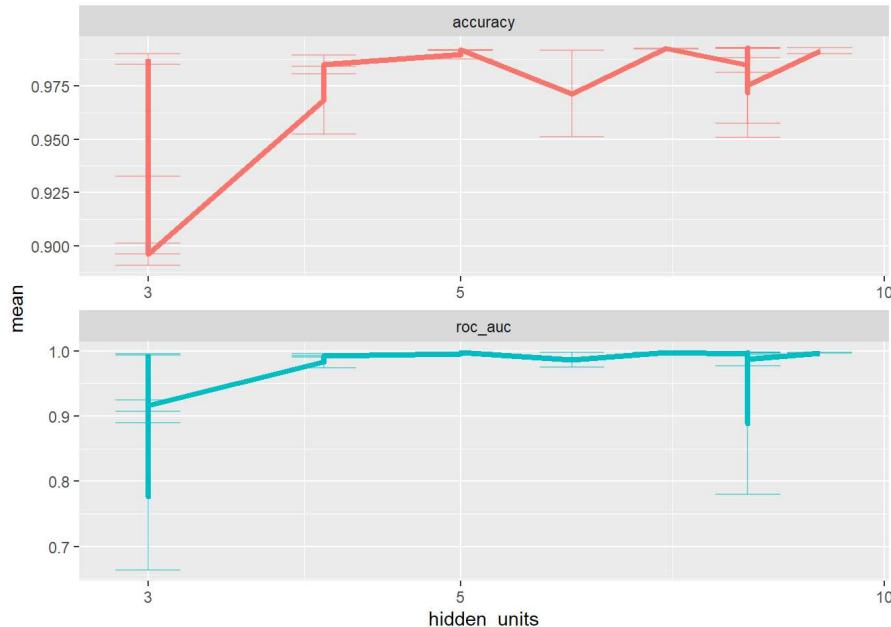
```
nn_search_res %>%
  select_best("accuracy")
```

hidden_units	penalty	epochs .config
<int>	<dbl>	<int> <chr>
8	0.0000000001003877	1000 Iter4

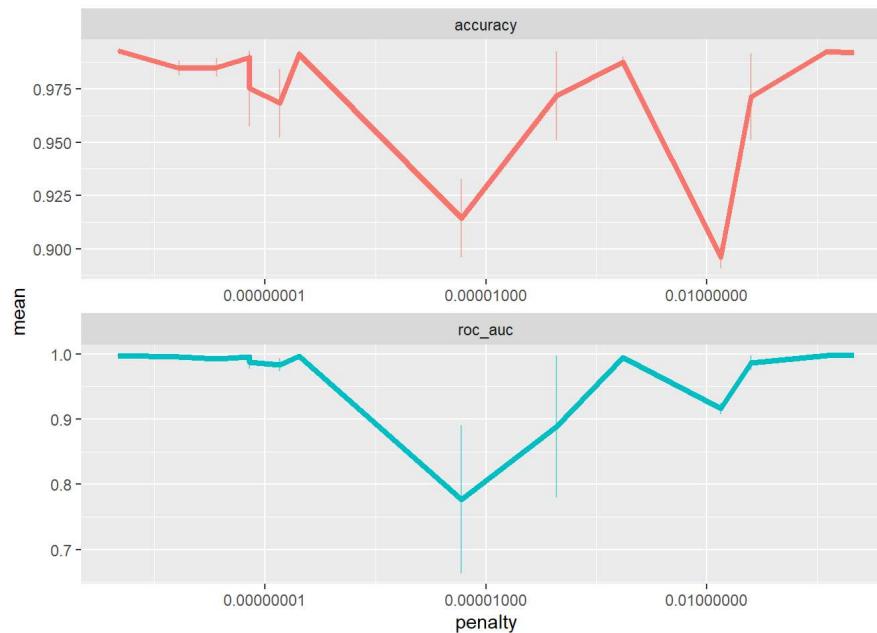
1 row

```
tune_graph <- function(parm) {
  # Graph of learning rate
  nn_search_res %>%
    collect_metrics() %>%
    ggplot(aes(!as.name(parm), mean, color = .metric)) +
    geom_errorbar(aes(
      ymin = mean - std_err,
      ymax = mean + std_err
    ),
    alpha = 0.5
  ) +
    geom_line(size = 1.5) +
    facet_wrap(~.metric, scales = "free", nrow = 2) +
    scale_x_log10() +
    theme(legend.position = "none")
}

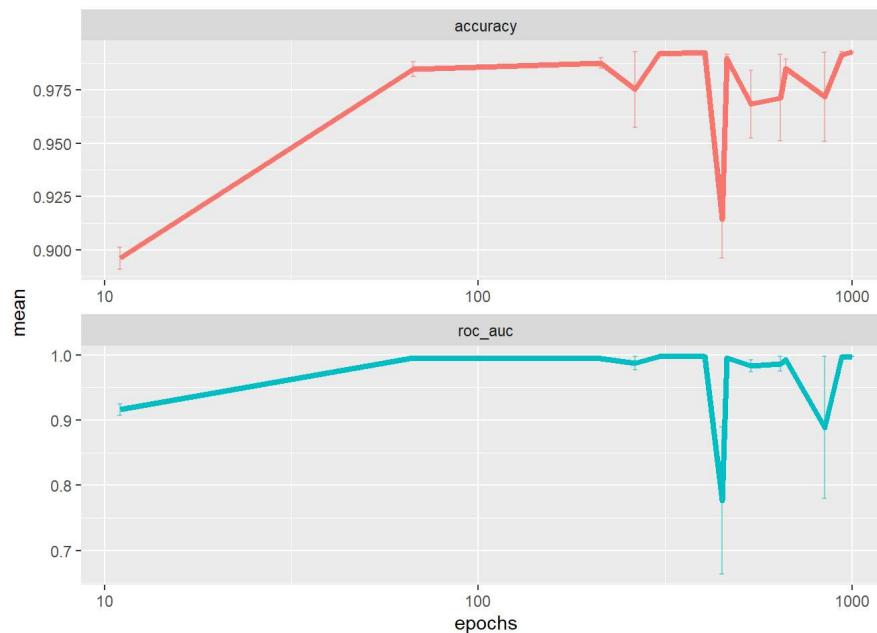
tune_graph("hidden_units")
```



```
tune_graph("penalty")
```



```
tune_graph("epochs")
```



Neural Network Final Fit

```
best_auc <- nn_search_res %>%
  select_best("accuracy")
```

```
best_auc
```

hidden_units	penalty	epochs .config
<int>	<dbl>	<int> <chr>
8	0.000000001003877	1000 Iter4

1 row

```
nn_wf <- finalize_workflow(
  nn_wf, best_auc
) %>%
  fit(train)
```

Score Neural Network Model

```
bind_cols(
  predict(nn_wflow, train, type="prob"),
  predict(nn_wflow, train, type="class"),
  train) %>%
  mutate(part = "train") -> scored_nn_train

bind_cols(
  predict(nn_wflow, test, type="prob"),
  predict(nn_wflow, test, type="class"),
  test) %>%
  mutate(part = "test") -> scored_nn_test
```

Evaluate Neural Network Model

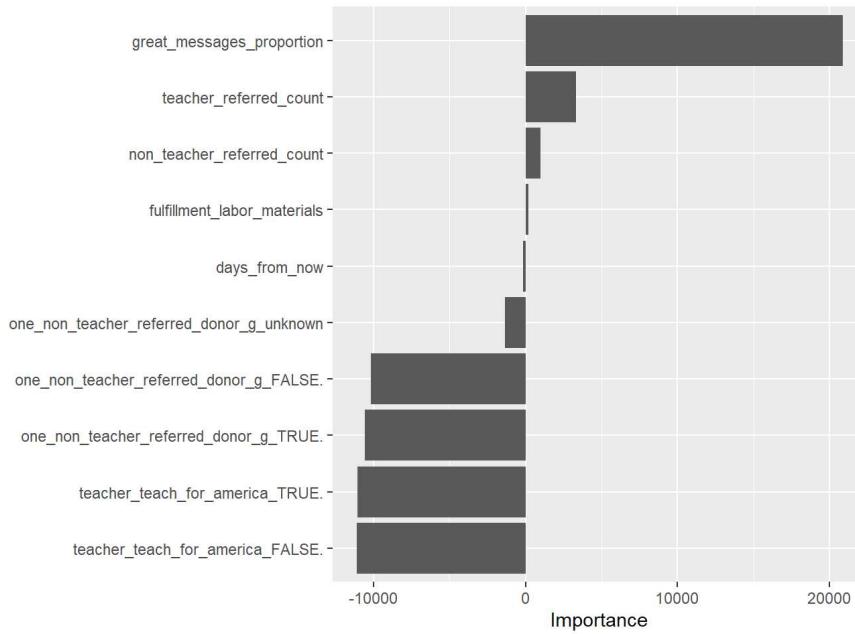
```
options(yardstick.event_first = FALSE)

# Variable Importance
nn_wflow %>%
  extract_fit_parsnip() %>%
  vi()
```

Variable	Importance
<chr>	<dbl>
great_messages_proportion	20867.1711
teacher_referred_count	3327.1013
non_teacher_referred_count	983.9248
fulfillment_labor_materials	197.5691
days_from_now	-155.3099
one_non_teacher_referred_donor_g_unknown	-1336.0421
one_non_teacher_referred_donor_g_FALSE.	-10159.3312
one_non_teacher_referred_donor_g_TRUE.	-10572.4421
teacher_teach_for_america_TRUE.	-11046.3271
teacher_teach_for_america_FALSE.	-11100.6838

1-10 of 10 rows

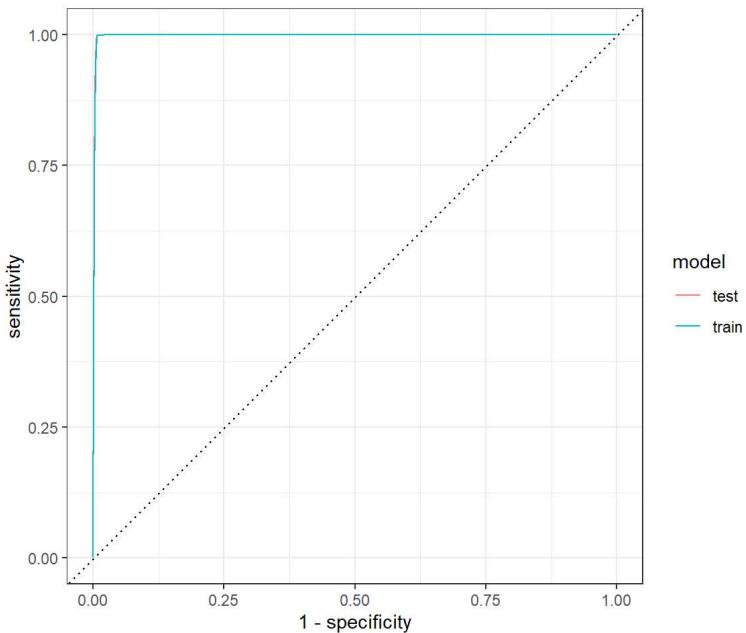
```
nn_wflow %>%
  extract_fit_parsnip() %>%
  vip()
```



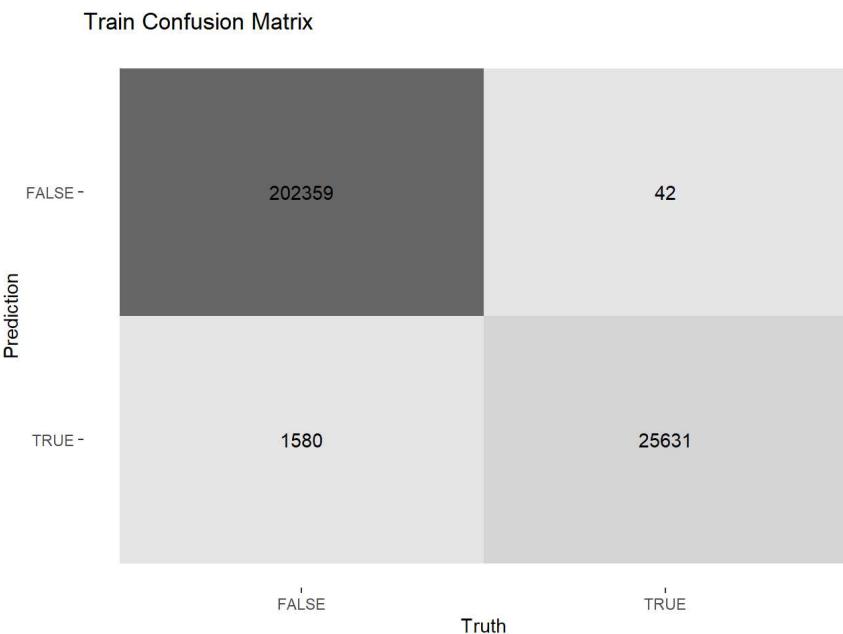
```
# Metrics: Train and Test
scored_nn_train %>%
  metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
  mutate(part="training") %>%
  bind_rows(scored_nn_test %>%
    metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
    mutate(part="testing")) ) %>%
  filter(.metric %in% c('accuracy','roc_auc')) %>%
  pivot_wider(names_from = .metric, values_from=.estimate)
```

.estimator	part	accuracy	roc_auc
<chr>	<chr>	<dbl>	<dbl>
binary	training	0.9929359	0.9979403
binary	testing	0.9932829	0.9980663
2 rows			

```
# ROC Charts
scored_nn_train %>%
  mutate(model = "train") %>%
  bind_rows(scored_nn_test %>%
    mutate(model="test")) %>%
  group_by(model) %>%
  roc_curve(is_exciting, .pred_TRUE) %>%
  autoplot()
```



```
scored_nn_train %>%
  conf_mat(is_exciting, .pred_class) %>%
  autoplot(type = "heatmap") +
  labs(title="Train Confusion Matrix")
```



```
scored_nn_test %>%
  conf_mat(is_exciting, .pred_class) %>%
  autoplot(type = "heatmap") +
  labs(title="Test Confusion Matrix")
```

Test Confusion Matrix

```

scored_train_mutate <- scored_nn_train %>%
  mutate(predict_class = as.factor(if_else(.pred_TRUE >= 0.5, TRUE, FALSE)))

scored_test_mutate <- scored_nn_test %>%
  mutate(predict_class = as.factor(if_else(.pred_TRUE >= 0.5, TRUE, FALSE)))

scored_nn_train %>%
  metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
  bind_rows(scored_train_mutate %>% yardstick::precision(is_exciting, predict_class)) %>%
  bind_rows(scored_train_mutate %>% yardstick::recall(is_exciting, predict_class)) %>%
  filter(.metric %in% c("accuracy", "roc_auc", "precision", "recall")) %>%
  mutate(part = "training") %>%
bind_rows(scored_nn_test %>%
  metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
  bind_rows(scored_test_mutate %>% yardstick::precision(is_exciting, predict_class)) %>%
  bind_rows(scored_test_mutate %>% yardstick::recall(is_exciting, predict_class)) %>%
  filter(.metric %in% c("accuracy", "roc_auc", "precision", "recall")) %>%
  mutate(part = "testing"))

```

.metric	.estimator	.estimate	part
<chr>	<chr>	<dbl>	<chr>
accuracy	binary	0.9929359	training
roc_auc	binary	0.9979403	training
precision	binary	0.9419352	training
recall	binary	0.9983640	training
accuracy	binary	0.9932829	testing
roc_auc	binary	0.9980663	testing
precision	binary	0.9445587	testing
recall	binary	0.9987315	testing

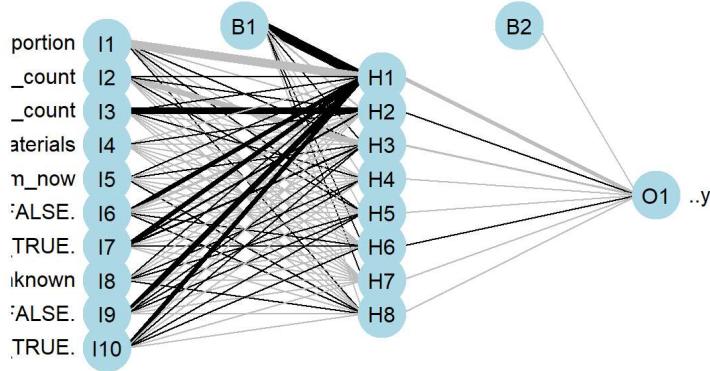
8 rows

Visualize Neural Networks

```

mod <- nn_wflow$fit$fit$fit
plotnet(mod)

```



Random Forest

Define Random Forest Model

```

kfold_splits <- vfold_cv(train, v=5)

rf_model <- rand_forest(trees=tune() %>%
    set_engine("ranger", num_threads = 5, max_depth = 10, importance="permutation") %>%
    set_mode("classification")
)

```

Random Forest Workflow

```

rf_wflow <- workflow() %>%
    add_recipe(recipe) %>%
    add_model(rf_model)

rf_search_res <- rf_wflow %>%
    tune_bayes(
        resamples = kfold_splits,
        # Generate five at semi-random to start
        initial = 5,
        iter = 50,
        # How to measure performance?
        metrics = metric_set(yardstick::accuracy, yardstick::roc_auc),
        control = control_bayes(no_improve = 5, verbose = TRUE)
    )

```

```
##
```

```
## > Generating a set of 5 initial parameter results
```

```
## ✓ Initialization complete
```

```
##
```

```
##
```

```
## ————— Iteration 1 —————
```

```
##  
  
## i Current best:      accuracy=0.9929 (@iter 0)  
  
## i Gaussian process model  
  
## ✓ Gaussian process model  
  
## i Generating 1995 candidates  
  
## i Predicted candidates  
  
## i trees=1457  
  
## i Estimating performance  
  
## i Fold1: preprocessor 1/1  
  
## ✓ Fold1: preprocessor 1/1  
  
## i Fold1: preprocessor 1/1, model 1/1  
  
## ✓ Fold1: preprocessor 1/1, model 1/1  
  
## i Fold1: preprocessor 1/1, model 1/1 (predictions)  
  
## i Fold2: preprocessor 1/1  
  
## ✓ Fold2: preprocessor 1/1  
  
## i Fold2: preprocessor 1/1, model 1/1  
  
## ✓ Fold2: preprocessor 1/1, model 1/1  
  
## i Fold2: preprocessor 1/1, model 1/1 (predictions)  
  
## i Fold3: preprocessor 1/1  
  
## ✓ Fold3: preprocessor 1/1  
  
## i Fold3: preprocessor 1/1, model 1/1  
  
## ✓ Fold3: preprocessor 1/1, model 1/1  
  
## i Fold3: preprocessor 1/1, model 1/1 (predictions)  
  
## i Fold4: preprocessor 1/1  
  
## ✓ Fold4: preprocessor 1/1  
  
## i Fold4: preprocessor 1/1, model 1/1  
  
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1
```

```
## ✓ Fold5: preprocessor 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1
```

```
## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## ⓘ Newest results: accuracy=0.9929 (+/-0.000124)
```

```
##
```

```
## — Iteration 2 ——————
```

```
##
```

```
## i Current best: accuracy=0.9929 (@iter 0)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 1994 candidates
```

```
## i Predicted candidates
```

```
## i trees=589
```

```
## i Estimating performance
```

```
## i Fold1: preprocessor 1/1
```

```
## ✓ Fold1: preprocessor 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1
```

```
## ✓ Fold1: preprocessor 1/1, model 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold2: preprocessor 1/1
```

```
## ✓ Fold2: preprocessor 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1
```

```
## ✓ Fold2: preprocessor 1/1, model 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold3: preprocessor 1/1
```

```
## ✓ Fold3: preprocessor 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1
```

```
## ✓ Fold3: preprocessor 1/1, model 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold4: preprocessor 1/1
```

```
## ✓ Fold4: preprocessor 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1
```

```
## ✓ Fold4: preprocessor 1/1, model 1/1
```

```
## i Fold4: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold5: preprocessor 1/1
```

```
## ✓ Fold5: preprocessor 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1
```

```
## ✓ Fold5: preprocessor 1/1, model 1/1
```

```
## i Fold5: preprocessor 1/1, model 1/1 (predictions)
```

```
## ✓ Estimating performance
```

```
## ⓘ Newest results: accuracy=0.9929 (+/-0.000121)
```

```
##
```

```
## — Iteration 3 —
```

```
##
```

```
## i Current best: accuracy=0.9929 (@iter 0)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 1993 candidates
```

```
## i Predicted candidates
```

```
## i trees=894
```

```
## i Estimating performance

## i Fold1: preprocessor 1/1

## ✓ Fold1: preprocessor 1/1

## i Fold1: preprocessor 1/1, model 1/1

## ✓ Fold1: preprocessor 1/1, model 1/1

## i Fold1: preprocessor 1/1, model 1/1 (predictions)

## i Fold2: preprocessor 1/1

## ✓ Fold2: preprocessor 1/1

## i Fold2: preprocessor 1/1, model 1/1

## ✓ Fold2: preprocessor 1/1, model 1/1

## i Fold2: preprocessor 1/1, model 1/1 (predictions)

## i Fold3: preprocessor 1/1

## ✓ Fold3: preprocessor 1/1

## i Fold3: preprocessor 1/1, model 1/1

## ✓ Fold3: preprocessor 1/1, model 1/1

## i Fold3: preprocessor 1/1, model 1/1 (predictions)

## i Fold4: preprocessor 1/1

## ✓ Fold4: preprocessor 1/1

## i Fold4: preprocessor 1/1, model 1/1

## ✓ Fold4: preprocessor 1/1, model 1/1

## i Fold4: preprocessor 1/1, model 1/1 (predictions)

## i Fold5: preprocessor 1/1

## ✓ Fold5: preprocessor 1/1

## i Fold5: preprocessor 1/1, model 1/1

## ✓ Fold5: preprocessor 1/1, model 1/1

## i Fold5: preprocessor 1/1, model 1/1 (predictions)

## ✓ Estimating performance
```

```
## ✘ Newest results: accuracy=0.9929 (+/-0.000123)
```

```
##
```

```
## — Iteration 4 ——————
```

```
##
```

```
## i Current best: accuracy=0.9929 (@iter 0)
```

```
## i Gaussian process model
```

```
## ✓ Gaussian process model
```

```
## i Generating 1992 candidates
```

```
## i Predicted candidates
```

```
## i trees=918
```

```
## i Estimating performance
```

```
## i Fold1: preprocessor 1/1
```

```
## ✓ Fold1: preprocessor 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1
```

```
## ✓ Fold1: preprocessor 1/1, model 1/1
```

```
## i Fold1: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold2: preprocessor 1/1
```

```
## ✓ Fold2: preprocessor 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1
```

```
## ✓ Fold2: preprocessor 1/1, model 1/1
```

```
## i Fold2: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold3: preprocessor 1/1
```

```
## ✓ Fold3: preprocessor 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1
```

```
## ✓ Fold3: preprocessor 1/1, model 1/1
```

```
## i Fold3: preprocessor 1/1, model 1/1 (predictions)
```

```
## i Fold4: preprocessor 1/1
```

```
## ✓ Fold4: preprocessor 1/1

## i Fold4: preprocessor 1/1, model 1/1

## ✓ Fold4: preprocessor 1/1, model 1/1

## i Fold4: preprocessor 1/1, model 1/1 (predictions)

## i Fold5: preprocessor 1/1

## ✓ Fold5: preprocessor 1/1

## i Fold5: preprocessor 1/1, model 1/1

## ✓ Fold5: preprocessor 1/1, model 1/1

## i Fold5: preprocessor 1/1, model 1/1 (predictions)

## ✓ Estimating performance

## ⓘ Newest results: accuracy=0.9929 (+/-0.000124)

##

## ━━━━ Iteration 5 ━━━━

##

## i Current best: accuracy=0.9929 (@iter 0)

## i Gaussian process model

## ✓ Gaussian process model

## i Generating 1991 candidates

## i Predicted candidates

## i trees=1425

## i Estimating performance

## i Fold1: preprocessor 1/1

## ✓ Fold1: preprocessor 1/1

## i Fold1: preprocessor 1/1, model 1/1

## ✓ Fold1: preprocessor 1/1, model 1/1

## i Fold1: preprocessor 1/1, model 1/1 (predictions)

## i Fold2: preprocessor 1/1
```

```
## ✓ Fold2: preprocessor 1/1

## i Fold2: preprocessor 1/1, model 1/1

## ✓ Fold2: preprocessor 1/1, model 1/1

## i Fold2: preprocessor 1/1, model 1/1 (predictions)

## i Fold3: preprocessor 1/1

## ✓ Fold3: preprocessor 1/1

## i Fold3: preprocessor 1/1, model 1/1

## ✓ Fold3: preprocessor 1/1, model 1/1

## i Fold3: preprocessor 1/1, model 1/1 (predictions)

## i Fold4: preprocessor 1/1

## ✓ Fold4: preprocessor 1/1

## i Fold4: preprocessor 1/1, model 1/1

## ✓ Fold4: preprocessor 1/1, model 1/1

## i Fold4: preprocessor 1/1, model 1/1 (predictions)

## i Fold5: preprocessor 1/1

## ✓ Fold5: preprocessor 1/1

## i Fold5: preprocessor 1/1, model 1/1

## ✓ Fold5: preprocessor 1/1, model 1/1

## i Fold5: preprocessor 1/1, model 1/1 (predictions)

## ✓ Estimating performance

## ⓘ Newest results: accuracy=0.9929 (+/-0.000121)

## ! No improvement for 5 iterations; returning current results.
```

Final Fit Random Forest

```
highest_rf_accuracy <- rf_search_res %>%
  select_best("accuracy")

highest_rf_accuracy

trees .config
<int> <chr>

1452 Preprocessor1_Model3
```

1 row

```
rf_wflow <- finalize_workflow(
  rf_wflow, highest_rf_accuracy
) %>%
  fit(train)
```

Score Random Forest Model

```
# score training
predict(rf_wflow, train, type="prob") %>%
  bind_cols(predict(rf_wflow, train, type="class")) %>%
  bind_cols(., train) -> scored_train_rf

# score testing
predict(rf_wflow, test, type="prob") %>%
  bind_cols(predict(rf_wflow, test, type="class")) %>%
  bind_cols(., test) -> scored_test_rf
```

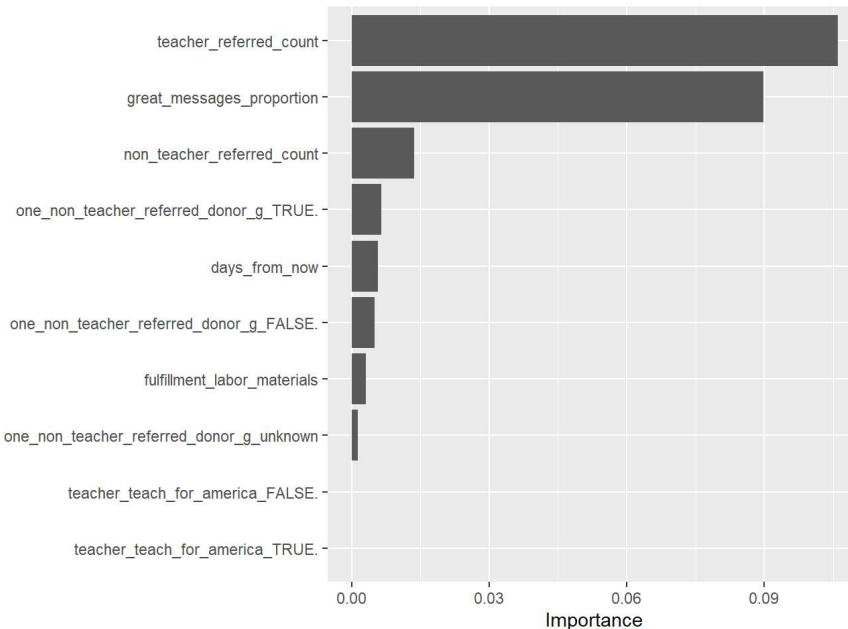
Random Forest Model Evaluation

```
options(yardstick.event_first = FALSE)
```

```
# Variable Importance
rf_wflow %>%
  extract_fit_parsnip() %>%
  vi()
```

Variable	Importance
	<dbl>
<chr>	
teacher_referred_count	0.10603203806
great_messages_proportion	0.08984672519
non_teacher_referred_count	0.01369636029
one_non_teacher_referred_donor_g_TRUE.	0.00641880586
days_from_now	0.00574447581
one_non_teacher_referred_donor_g_FALSE.	0.00497605922
fulfillment_labor_materials	0.00307744114
one_non_teacher_referred_donor_g_unknown	0.00135616229
teacher_teach_for_america_FALSE.	0.00003419197
teacher_teach_for_america_TRUE.	0.00001723150
1-10 of 10 rows	

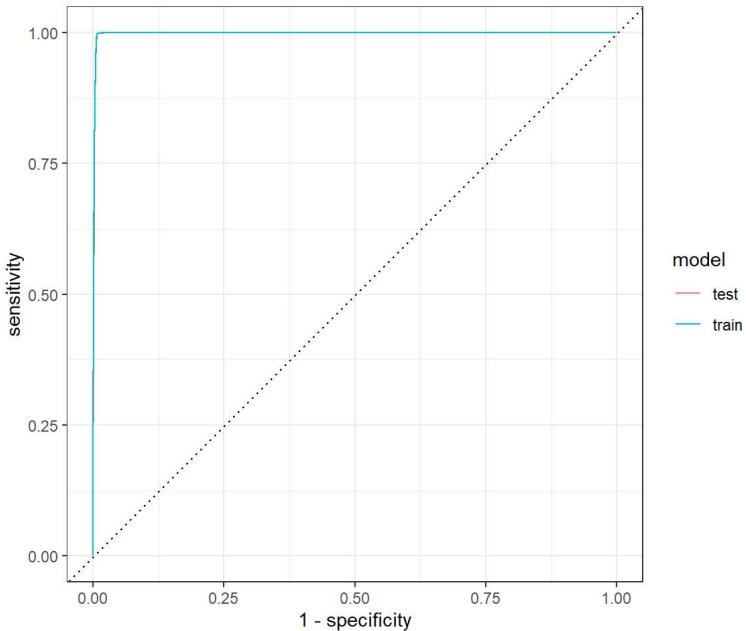
```
rf_wflow %>%
  extract_fit_parsnip() %>%
  vip()
```



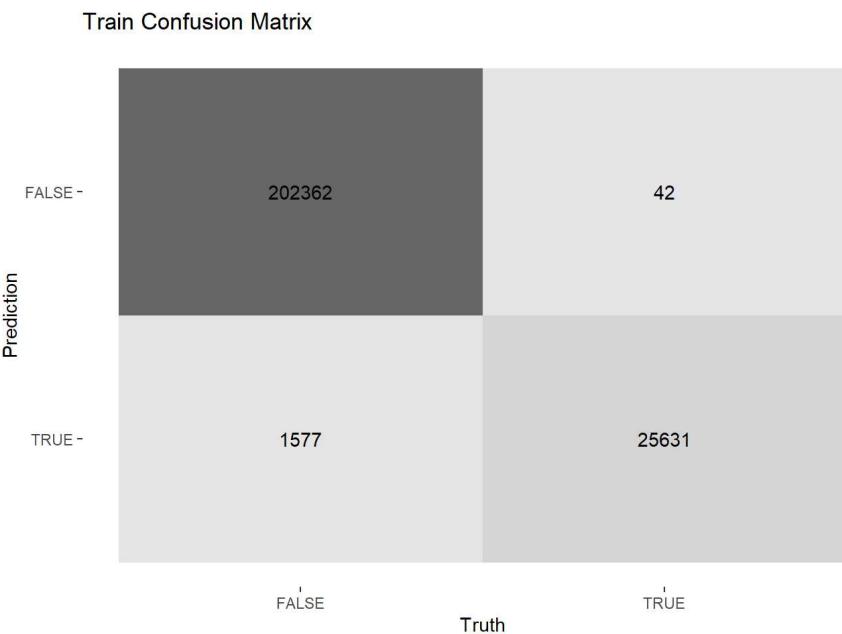
```
# Metrics: Train and Test
scored_train_rf %>%
  metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
  mutate(part="training") %>%
  bind_rows(scored_test_rf %>%
    metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
    mutate(part="testing")) ) %>%
  filter(.metric %in% c('accuracy','roc_auc')) %>%
  pivot_wider(names_from = .metric, values_from=.estimate)
```

.estimator	part	accuracy	roc_auc
<chr>	<chr>	<dbl>	<dbl>
binary	training	0.9929490	0.9983355
binary	testing	0.9933134	0.9981499
2 rows			

```
# ROC Charts
scored_train_rf %>%
  mutate(model = "train") %>%
  bind_rows(scored_test_rf %>%
    mutate(model="test")) %>%
  group_by(model) %>%
  roc_curve(is_exciting, .pred_TRUE) %>%
  autoplot()
```



```
scored_train_rf %>%
  conf_mat(is_exciting, .pred_class) %>%
  autoplot(type = "heatmap") +
  labs(title="Train Confusion Matrix")
```



```
scored_test_rf %>%
  conf_mat(is_exciting, .pred_class) %>%
  autoplot(type = "heatmap") +
  labs(title="Test Confusion Matrix")
```

Test Confusion Matrix



```

scored_train_mutate <- scored_train_rf %>%
  mutate(predict_class = as.factor(if_else(.pred_TRUE >= 0.5, TRUE, FALSE)))

scored_test_mutate <- scored_test_rf %>%
  mutate(predict_class = as.factor(if_else(.pred_TRUE >= 0.5, TRUE, FALSE)))

scored_train_rf %>%
  metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
  bind_rows(scored_train_mutate %>% yardstick::precision(is_exciting, predict_class)) %>%
  bind_rows(scored_train_mutate %>% yardstick::recall(is_exciting, predict_class)) %>%
  filter(.metric %in% c("accuracy", "roc_auc", "precision", "recall")) %>%
  mutate(part="training") %>%
bind_rows(scored_test_rf %>%
  metrics(is_exciting, .pred_TRUE, estimate = .pred_class) %>%
  bind_rows(scored_test_mutate %>% yardstick::precision(is_exciting, predict_class)) %>%
  bind_rows(scored_test_mutate %>% yardstick::recall(is_exciting, predict_class)) %>%
  filter(.metric %in% c("accuracy", "roc_auc", "precision", "recall")) %>%
  mutate(part="testing"))

```

.metric	.estimator	.estimate	part
<chr>	<chr>	<dbl>	<chr>
accuracy	binary	0.9929490	training
roc_auc	binary	0.9983355	training
precision	binary	0.9420391	training
recall	binary	0.9983640	training
accuracy	binary	0.9933134	testing
roc_auc	binary	0.9981499	testing
precision	binary	0.9447253	testing
recall	binary	0.9988221	testing

8 rows