

final draft stuff

2023-03-23

```
library(RSQLite)
library(ggplot2)
dcon <- dbConnect(SQLite(), dbname = "projectDB.db")

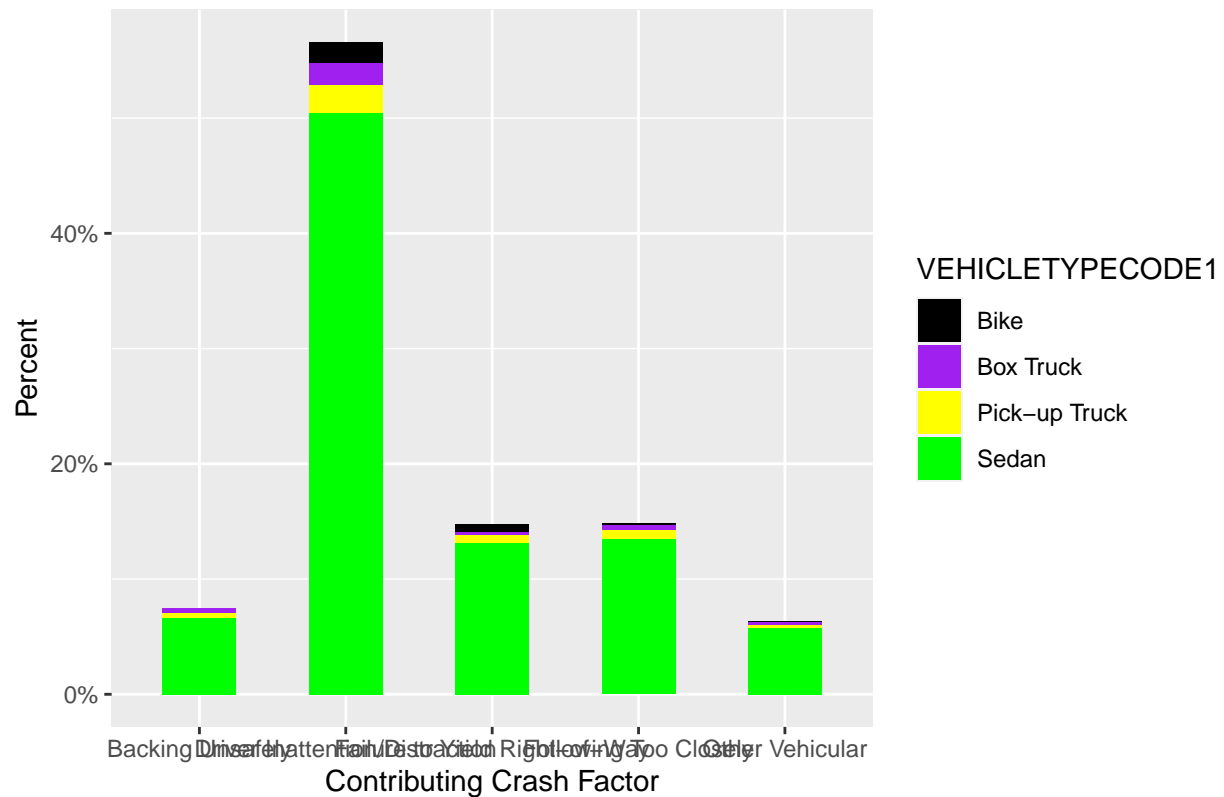
dbListTables(dcon)

## [1] "tableCrashes"

res <- dbSendQuery(conn = dcon, "
SELECT CONTRIBUTINGFACTORVEHICLE1, VEHICLETYPECODE1, CAST(SUBSTR(CRASHDATE,-4) AS INT)
FROM tableCrashes
WHERE CONTRIBUTINGFACTORVEHICLE1 IN ('Following Too Closely', 'Driver Inattention/Distraction', 'Failure
AND VEHICLETYPECODE1 IN ('Pick-up Truck', 'PASSENGER VEHICLE', 'BUS', 'Box Truck', 'Bike', 'Sedan')
AND CAST(SUBSTR(CRASHDATE,-4) AS INT) >= 2020
;
")
mydf <- dbFetch(res, -1)
dbClearResult(res)
require(scales)
ggplot(mydf) + aes(CONTRIBUTINGFACTORVEHICLE1, fill = VEHICLETYPECODE1) +
  geom_bar(aes(y = (..count..)/sum(..count..)), width = 0.5) +
  scale_y_continuous(labels = percent) +
  ylab("Percent") + xlab("Contributing Crash Factor") +
  scale_fill_manual(values=c("black", "purple", "yellow", "green",
                             "blue", "darkgreen")) +
  ggtitle("Top 5 Contributing Crash Factor with Top Vehicle Types from 2020")

## Warning: The dot-dot notation ('..count..') was deprecated in ggplot2 3.4.0.
## i Please use 'after_stat(count)' instead.
```

Top 5 Contributing Crash Factor with Top Vehicle Types from 2020



```
res <- dbSendQuery(conn = dcon, "
SELECT CONTRIBUTINGFACTORVEHICLE1, VEHICLETYPECODE1, CAST(SUBSTR(CRASHDATE,-4) AS INT)
FROM tableCrashes
WHERE CONTRIBUTINGFACTORVEHICLE1 IN ('Following Too Closely', 'Driver Inattention/Distracted', 'Failure
AND VEHICLETYPECODE1 IN ('Pick-up Truck', 'PASSENGER VEHICLE', 'BUS', 'Box Truck', 'Bike', 'Sedan')
AND CAST(SUBSTR(CRASHDATE,-4) AS INT) < 2020
;
")
mydf <- dbFetch(res, -1)
dbClearResult(res)
require(scales)
ggplot(mydf) + aes(CONTRIBUTINGFACTORVEHICLE1, fill = VEHICLETYPECODE1) +
  geom_bar(aes(y = (..count..)/sum(..count..)), width = 0.5) +
  scale_y_continuous(labels = percent) +
  ylab("Percent") + xlab("Contributing Crash Factor") +
  scale_fill_manual(values=c("black", "purple", "yellow", "green",
                             "blue", "darkgreen")) +
  ggtitle("Top 5 Contributing Crash Factor with Top Vehicle Types before 2020")
```

Top 5 Contributing Crash Factor with Top Vehicle Types before 2020

