audio

Srini

2023-08-15

```
../../bin/audio ../etc/Cartoon-02.wav
../../bin/freqd ../etc/Cartoon-02.wav.csv 0.5
```
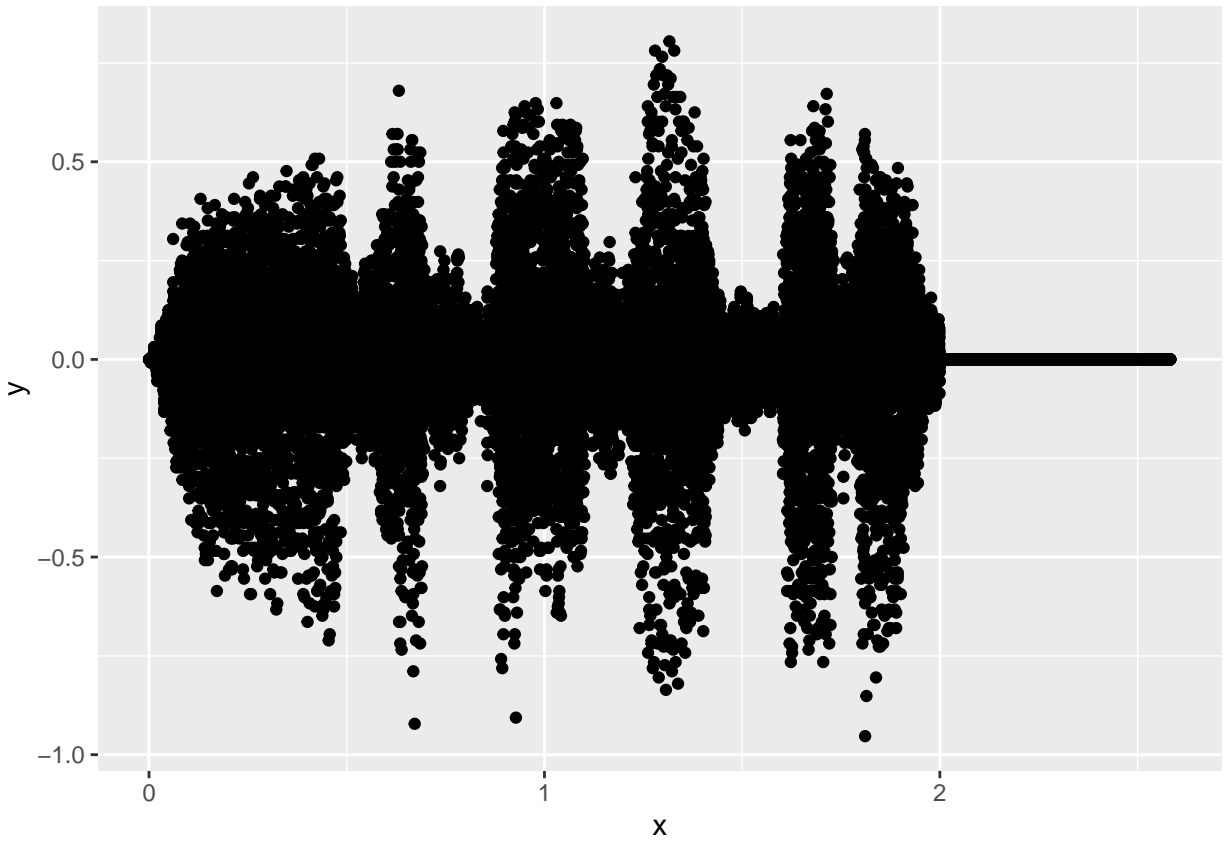
```
## libsndfile-1.2.0
## ../etc/Cartoon-02.wav.csv
```

```r
library(ggplot2)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```r
signal<-read.csv("../etc/Cartoon-02.wav.csv",header=FALSE,sep=",")
names(signal)<-c("x","y")
ggplot(signal,aes(x=x,y=y))+geom_point()
```

Spectrum

```
signalfft<-read.csv("../etc/Cartoon-02.wav.csv.csv",header=FALSE,sep=",")
names(signalfft)<-c("freq","rex","imx","mod","arg")
dominant<-signalfft %>% slice_head(n=256)
barplot(dominant$mod,col="steelblue",names.arg=dominant$freq,xlab="Frequency")
```

Frequency