

Predict States

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```
library(readr)
library(dplyr)

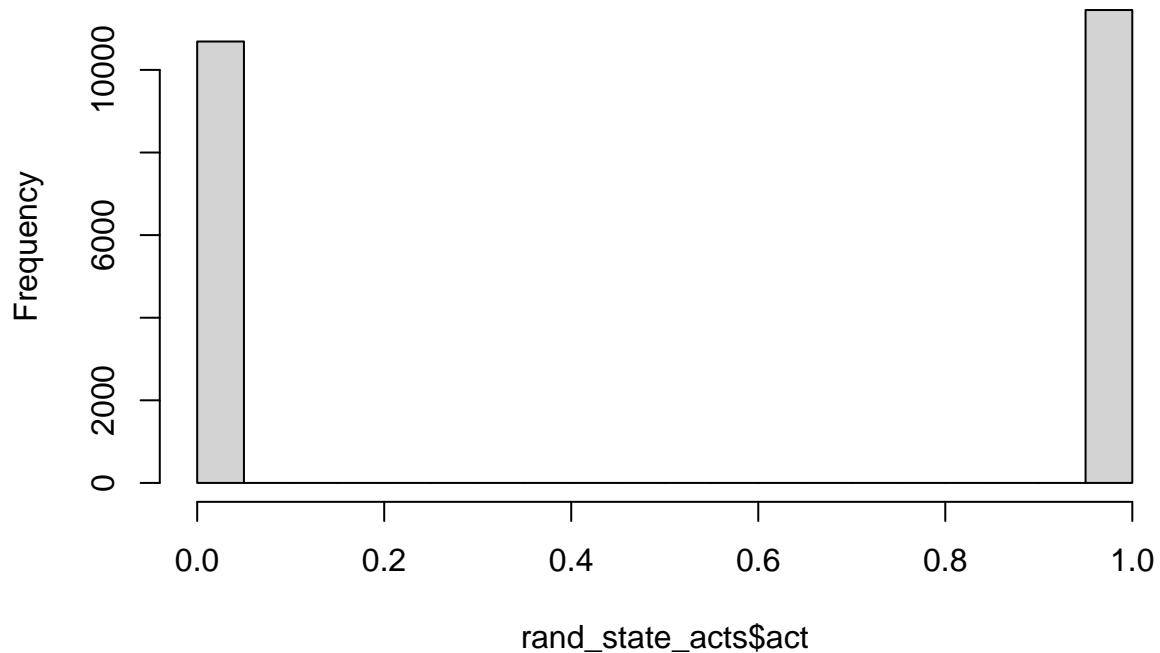
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##     filter, lag
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
library(ggplot2)

rand_state_acts <- read_csv("../utils/rand_state_acts.csv") [2:13]

## New names:
## * ` `` -> ...1
## Rows: 22138 Columns: 13
## -- Column specification -----
## Delimiter: ","
## dbl (13): ...1, timestep, episode, reward, act, obs_ax0, next_ax0, obs_ax1, ...
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
names(rand_state_acts)

##  [1] "timestep" "episode"   "reward"    "act"       "obs_ax0"   "next_ax0"
##  [7] "obs_ax1"   "next_ax1"   "obs_ax2"   "next_ax2"   "obs_ax3"   "next_ax3"
hist(rand_state_acts$act)
```

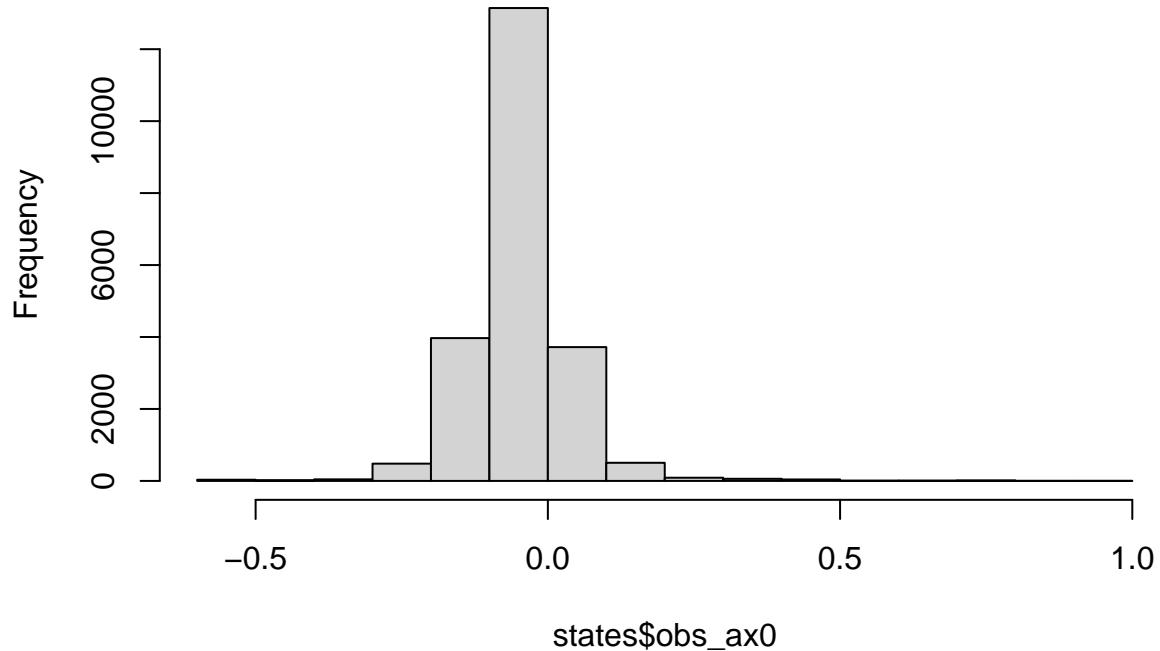
Histogram of rand_state_acts\$act



```
#pairs(rand_state_acts[5:12])
```

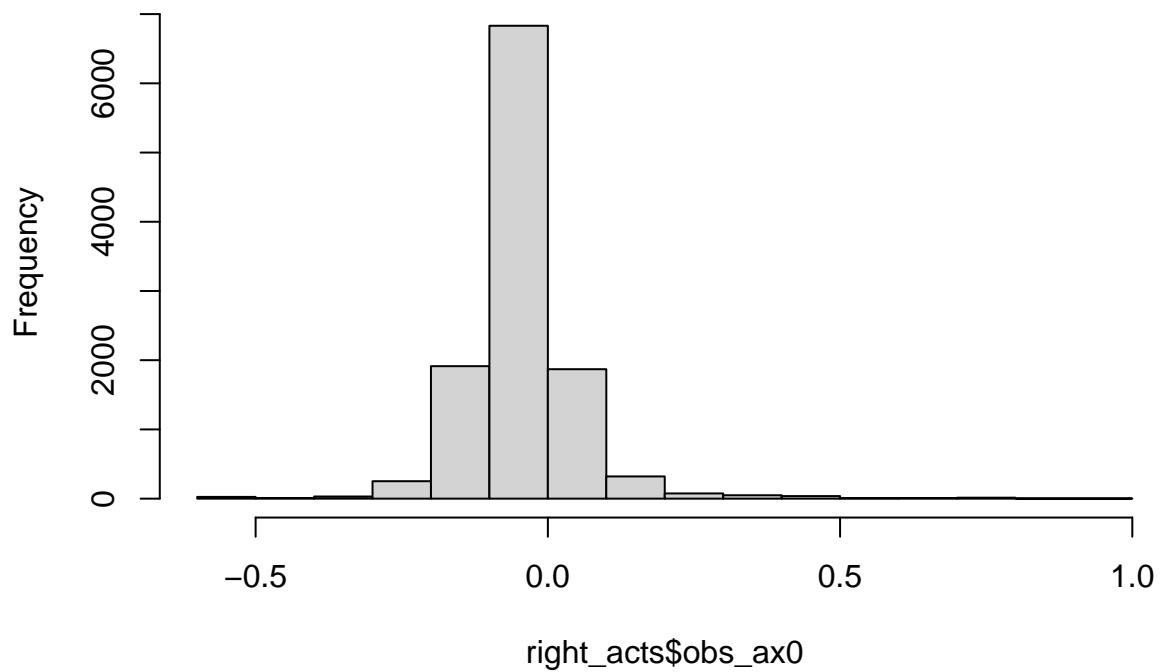
```
states = rand_state_acts[5:12]
states = round(states, 1)
states$act = rand_state_acts$act
hist(states$obs_ax0)
```

Histogram of states\$obs_ax0



```
right_acts = filter(states, act==1)  
hist(right_acts$obs_ax0)
```

Histogram of right_acts\$obs_ax0



pairs(states)

