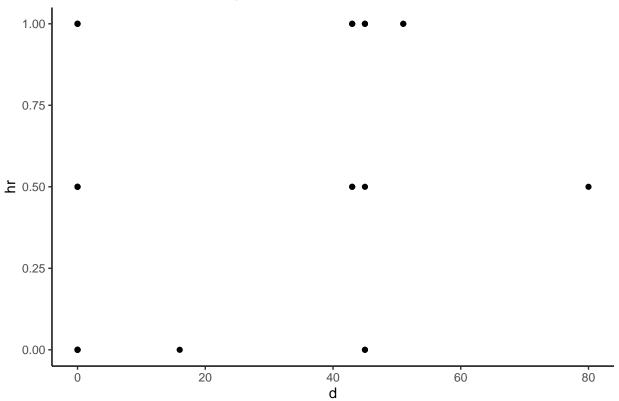
## pilot

## **Pilot**

```
library(tidyverse)
library(estimatr)
library(ggplot2)
library(readr)
th <- theme_classic()</pre>
theme_set(th)
parsed_trials <- read_csv("~/output/experiments/pilot/parsed_trials.csv")</pre>
exp_data <- read_csv("~/output/scenes/pilot.csv") %>%
 rename(scene = id)
ate_data <- parsed_trials %>%
  left_join(exp_data, by = c("scene", "furniture", "move")) %>%
  mutate(resp_same = Response == "j",
         correct = !xor(base, resp_same))
by_subj <- ate_data %>%
  group_by(ID)
hr_by_subj <- by_subj %>%
  filter(!base) %>%
  summarise(hr = mean(correct))
fp_by_subj <- by_subj %>%
  filter(base) %>%
  summarise(fp = 1.0 - mean(correct))
subject_performance <- hr_by_subj %>%
  left_join(fp_by_subj, by = "ID")
passed_subjects <- subject_performance %>%
  filter(hr > 1.5*fp)
good_data <- passed_subjects %>%
 left_join(ate_data)
by_trial <- good_data %>%
  group_by(scene, furniture, move)
hr_by_trial <- by_trial %>%
  filter(!base) %>%
  summarise(hr = mean(correct),
            d = mean(d)
```

```
hr_by_trial %>%
  ggplot(aes(x = d, y = hr)) +
  geom_point() +
  ggtitle("Hit rate as a function of path difference")
```

## Hit rate as a function of path difference



```
hr_by_trial %>%
  ggplot(aes(x = factor(d), y = hr)) +
  geom_violin() +
  ggtitle("Hit rate binned over path difference")
```

