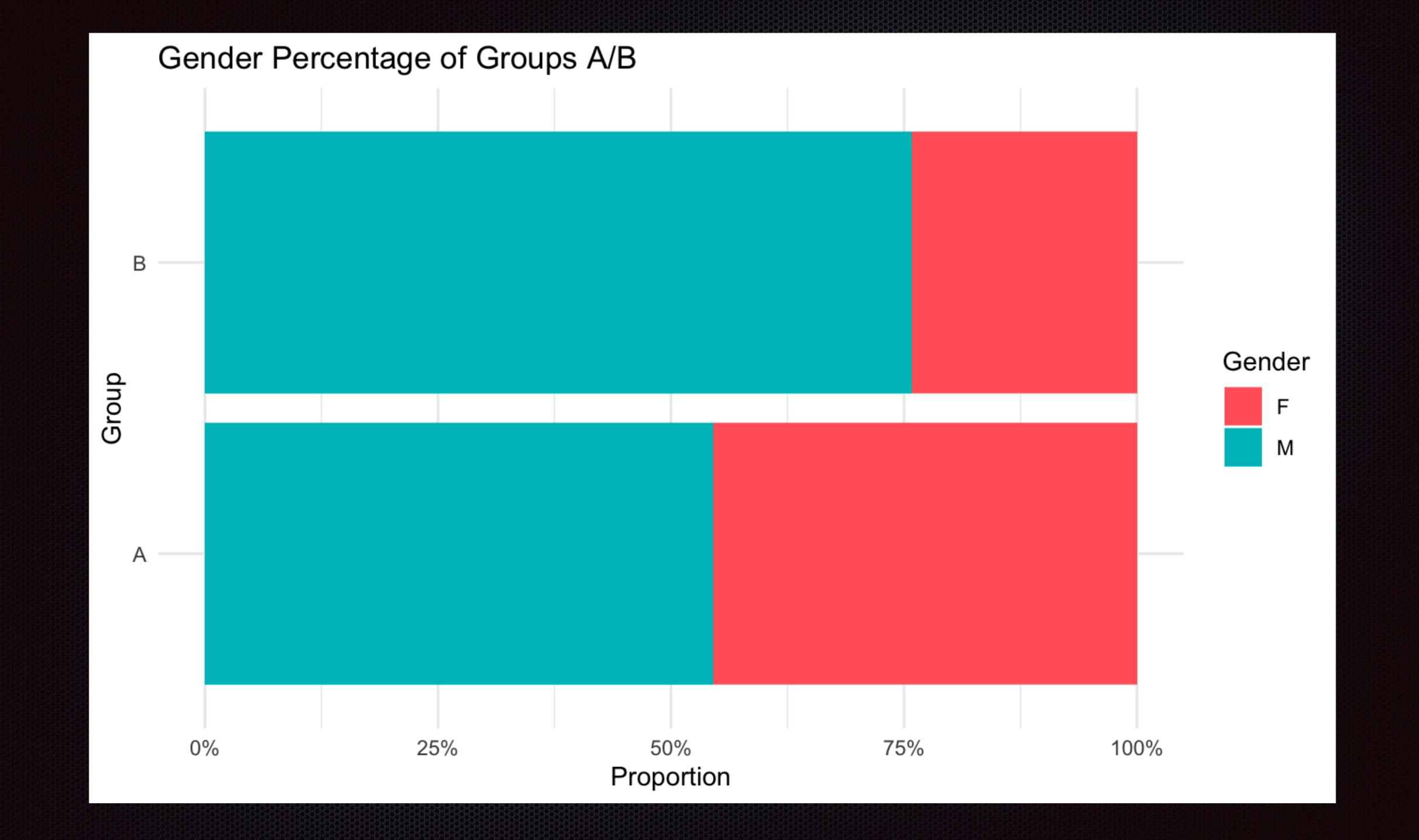
Why Not Watch: Streaming A/B tests

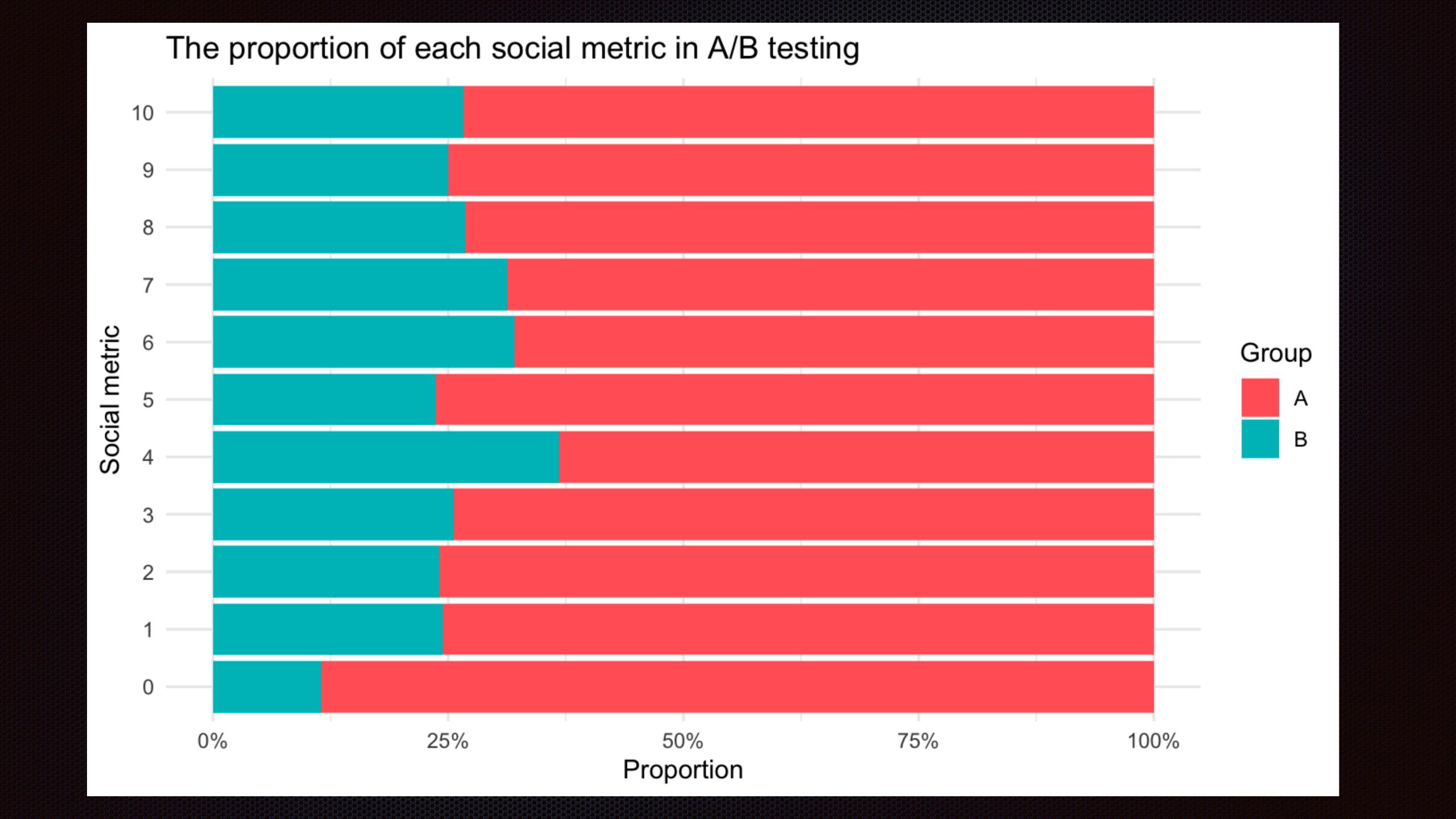
Astrid de Geest

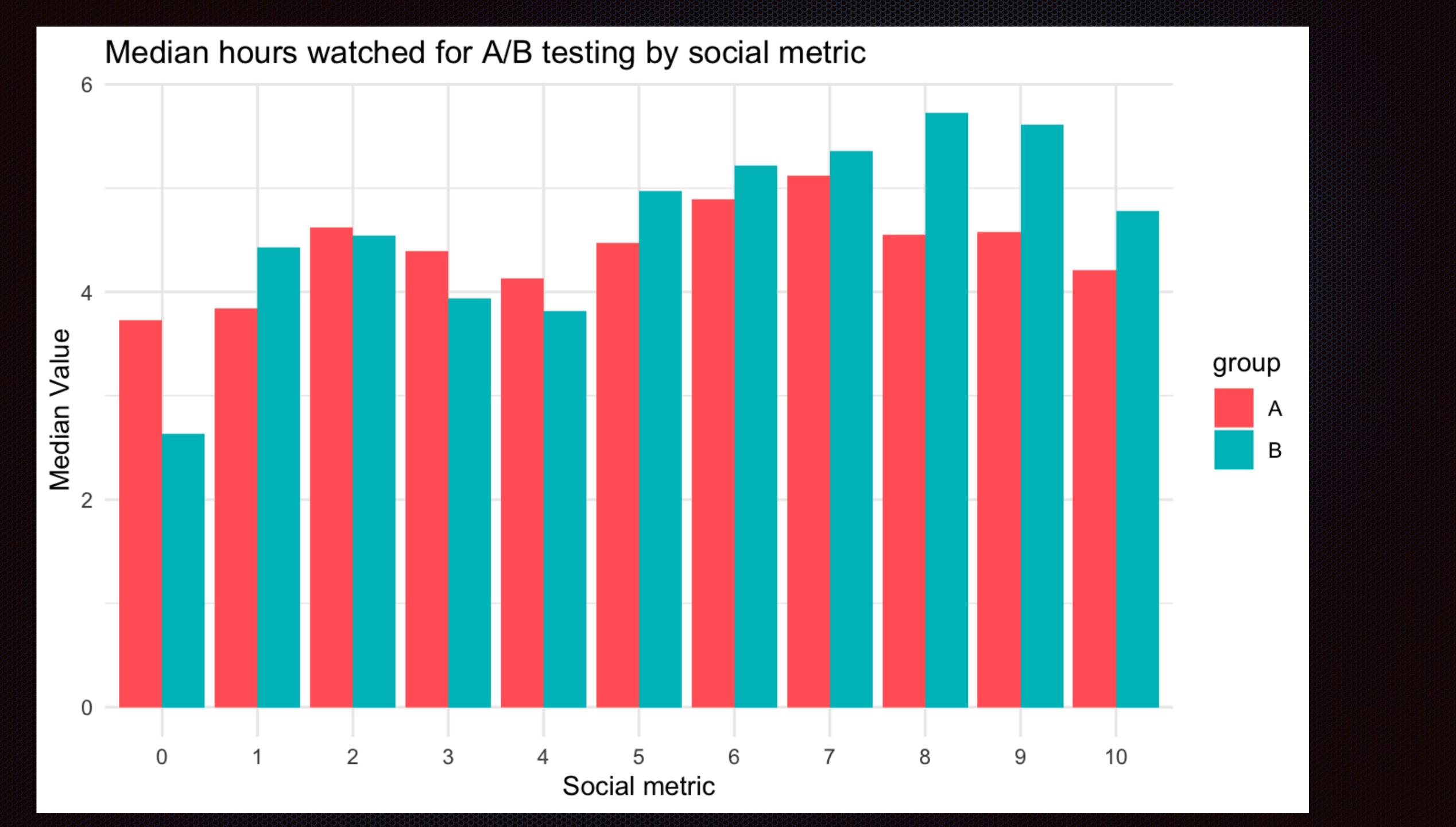
Effect on hours watched

Group A

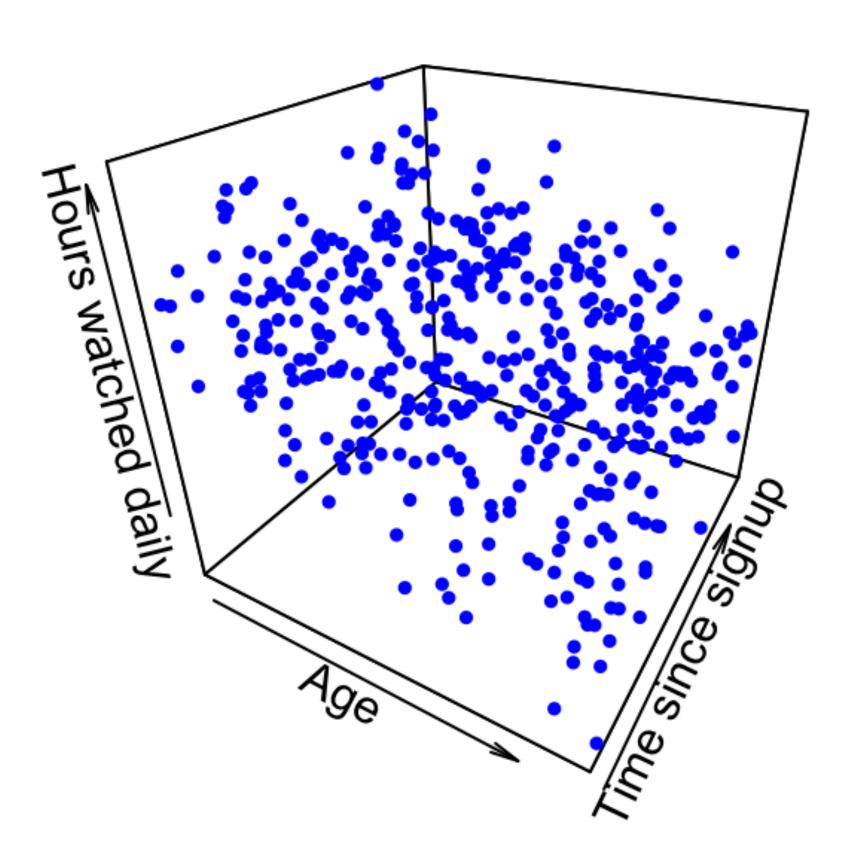
Group B







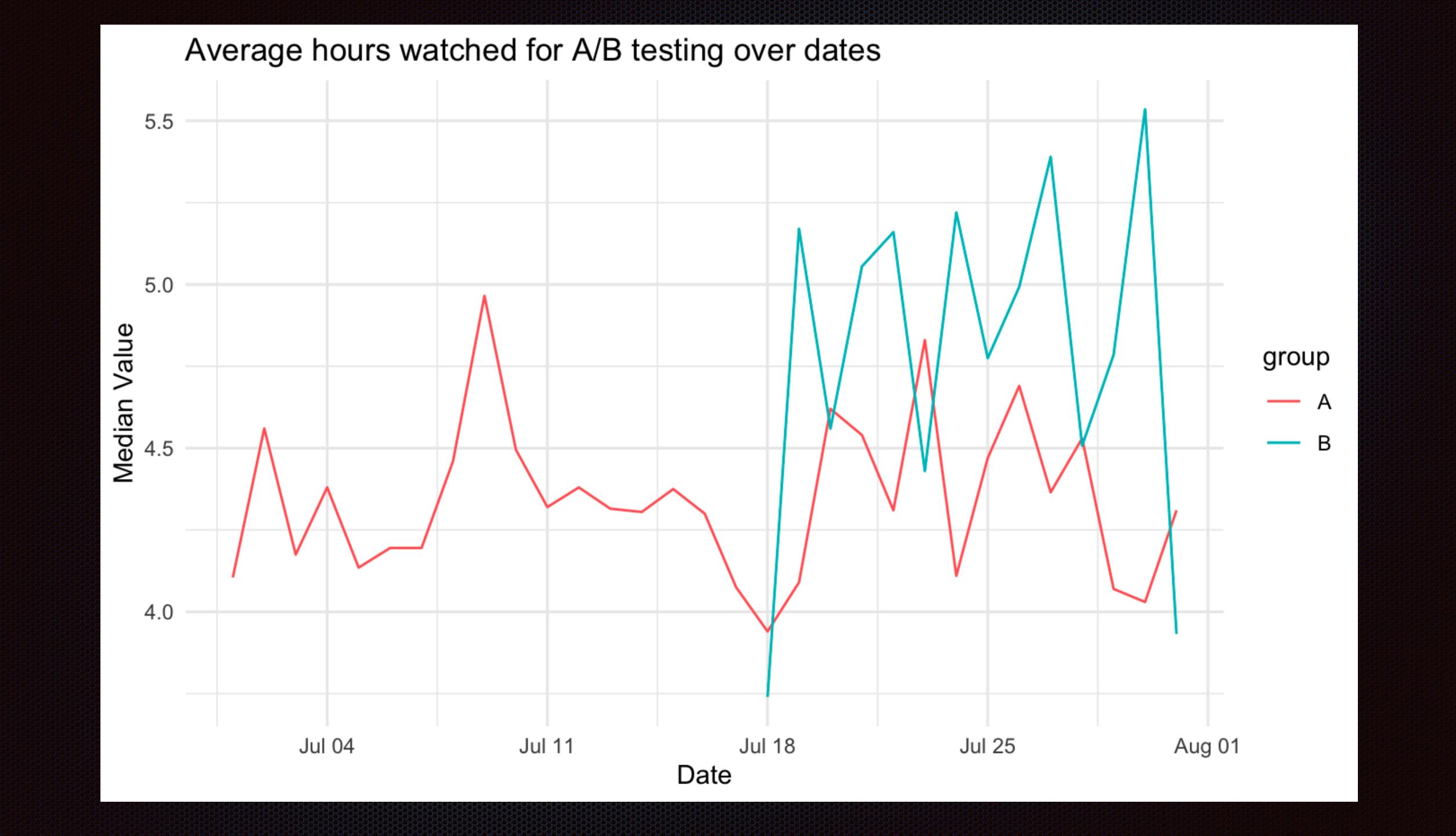
Effect of age and time since last sign up on hours watched



Age

Group A: 35 years

Group B: 39.5 years



Bias in the data set

- Gender proportions
- Age difference with known impact on key variable
- Variation in social metric
- Variation in sampling for B's effect
- Samples from category A prior to start date of B



Multiple regression of hours watched with factors age, gender, A/B and social metric Multiple regression -3 **-**Hours watched

A/B testing

- Calculate number required
- Random selection
- Check demographics
- Same timeframe for A/B group
- Consider average or multiple days of hours watched
- Account for novelty effect
- Intention with social metric/demographics