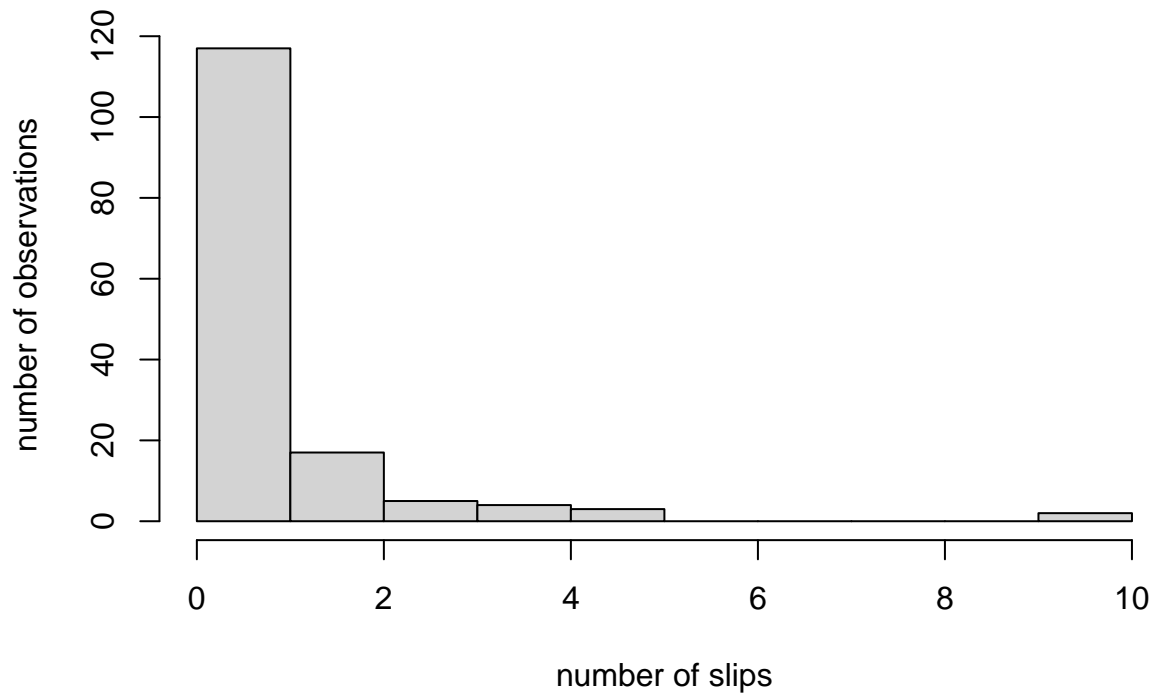# Evaluation for Performance (slips)

Jonas Hurst
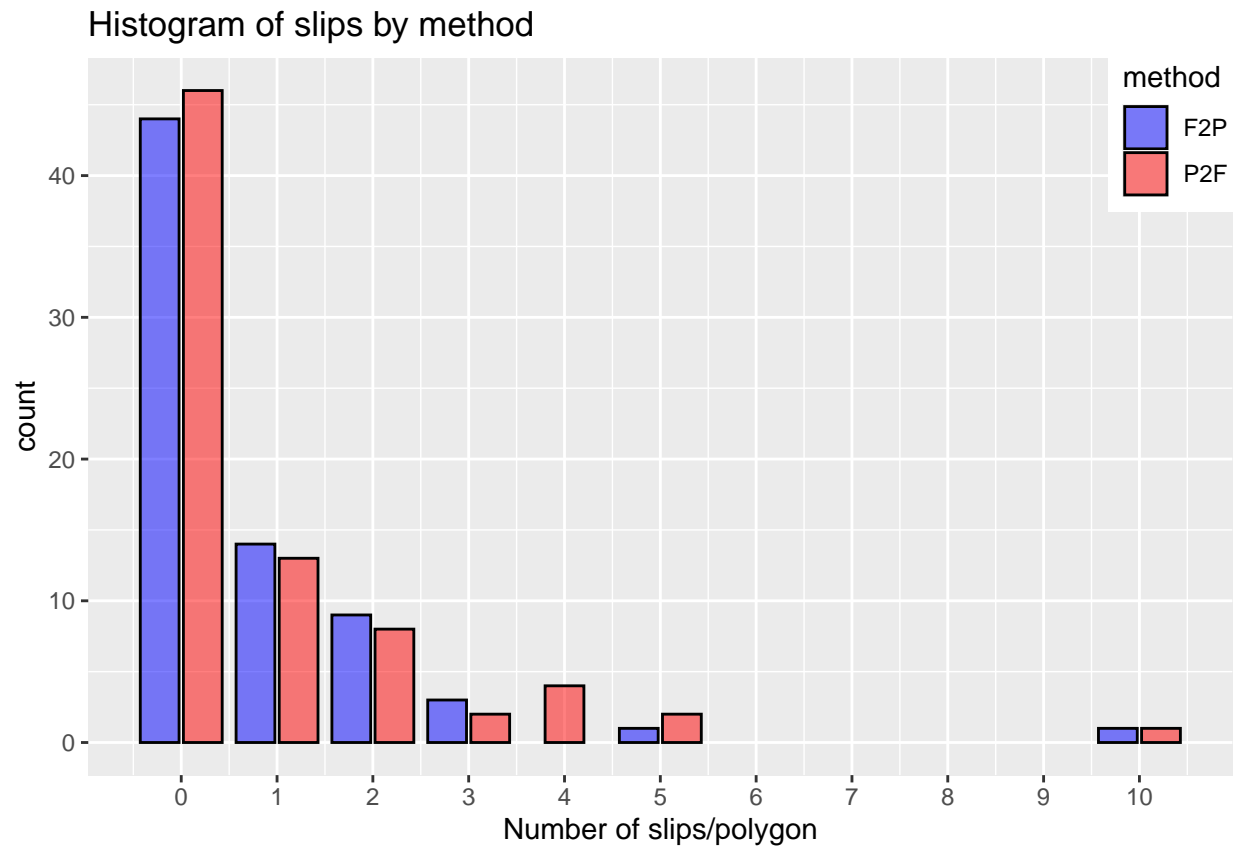
2023-06-24

## All data

### Histogram for slips (all obs.)

# Performance (Slips)

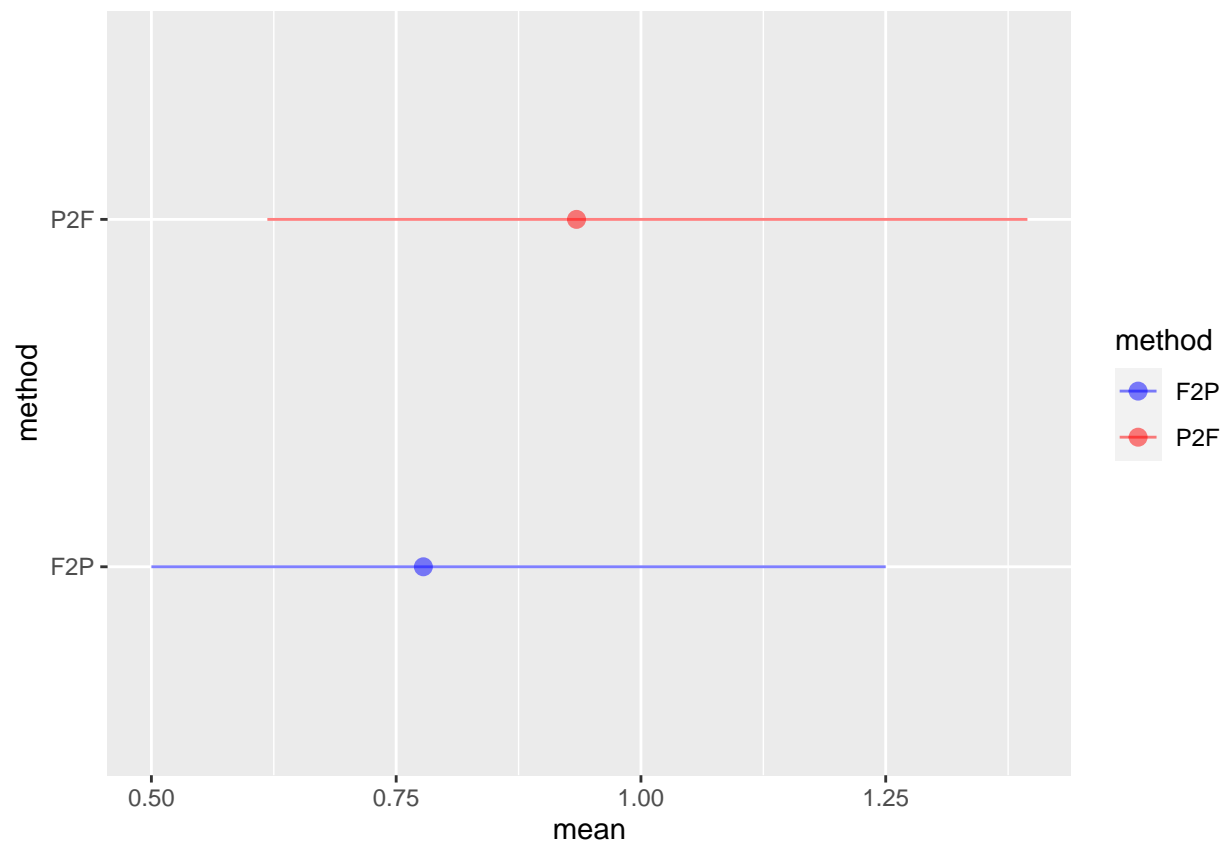## Histogram of slips by method



```
## # A tibble: 2 x 4
##    method  mean median std.dv
##    <chr>  <dbl>  <dbl>  <dbl>
## 1 F2P    0.778      0   1.49
## 2 P2F    0.934      0   1.68
```

Mean with bootstrapped 95% CI

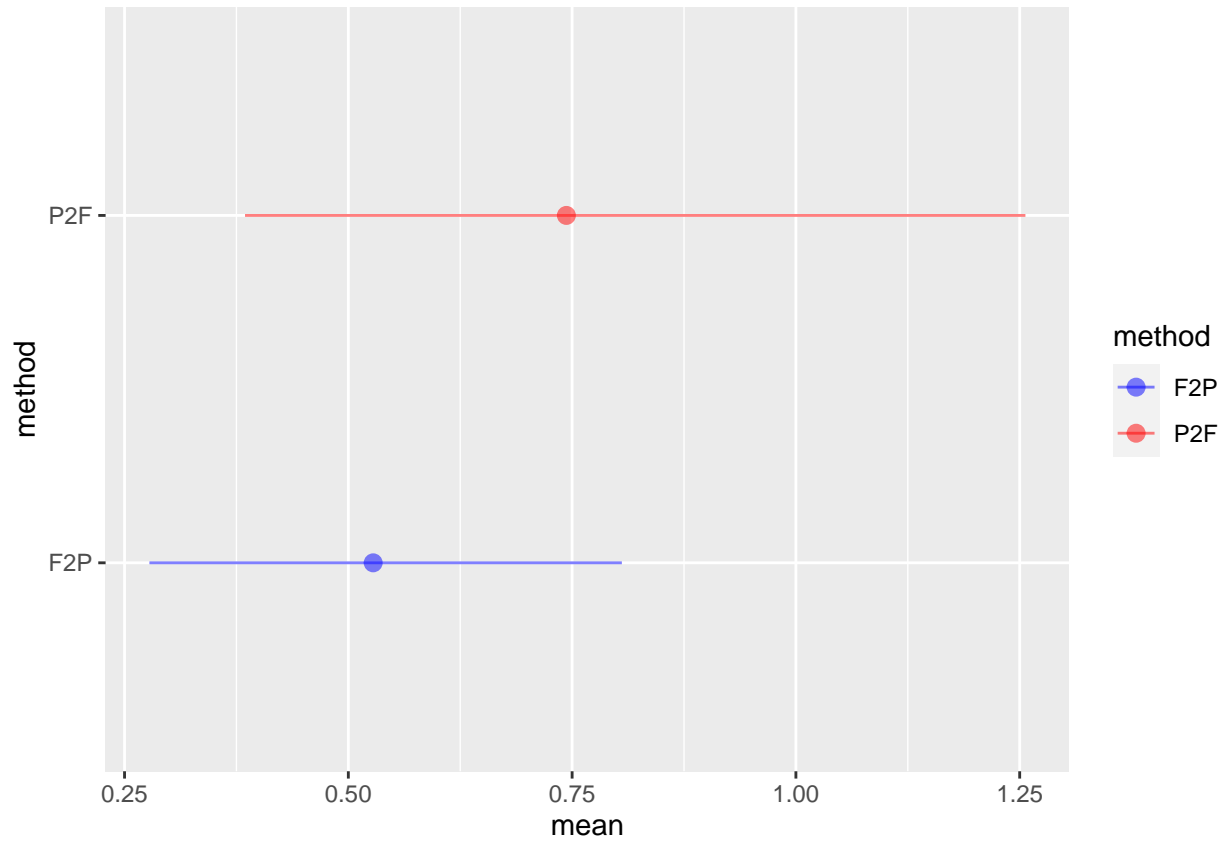

```
##
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)   bias        SE
## 0.934       0.618       1.395       -0.000      0.187

##
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)   bias        SE
## 0.778       0.500       1.250       -0.002      0.175

##
## User-specified lambdas: (P2F, F2P)
## Scaled lambdas: (-1, 1)
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)   bias        SE
## -0.156      -0.684      0.354       0.004       0.261
```

**Large polygons:**

Mean with bootstrapped 95% CI
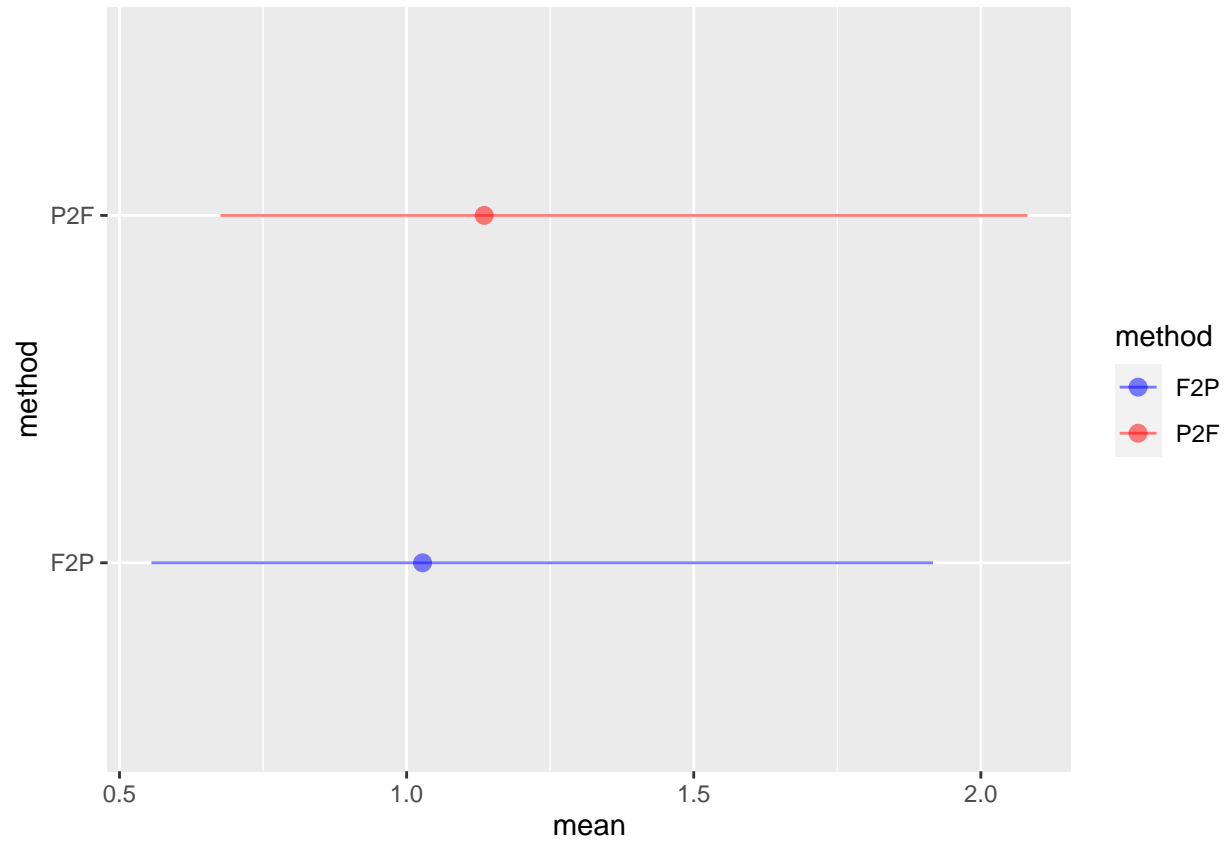


```
## 
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)    bias         SE
## 0.744       0.385       1.256        -0.004       0.217

## 
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)    bias         SE
## 0.528       0.278       0.806        -0.002       0.133

## 
## User-specified lambdas: (P2F, F2P)
## Scaled lambdas: (-1, 1)
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)    bias         SE
## -0.216      -0.797      0.218        0.001        0.251
```

**Small polygons:**

Mean with bootstrapped 95% CI
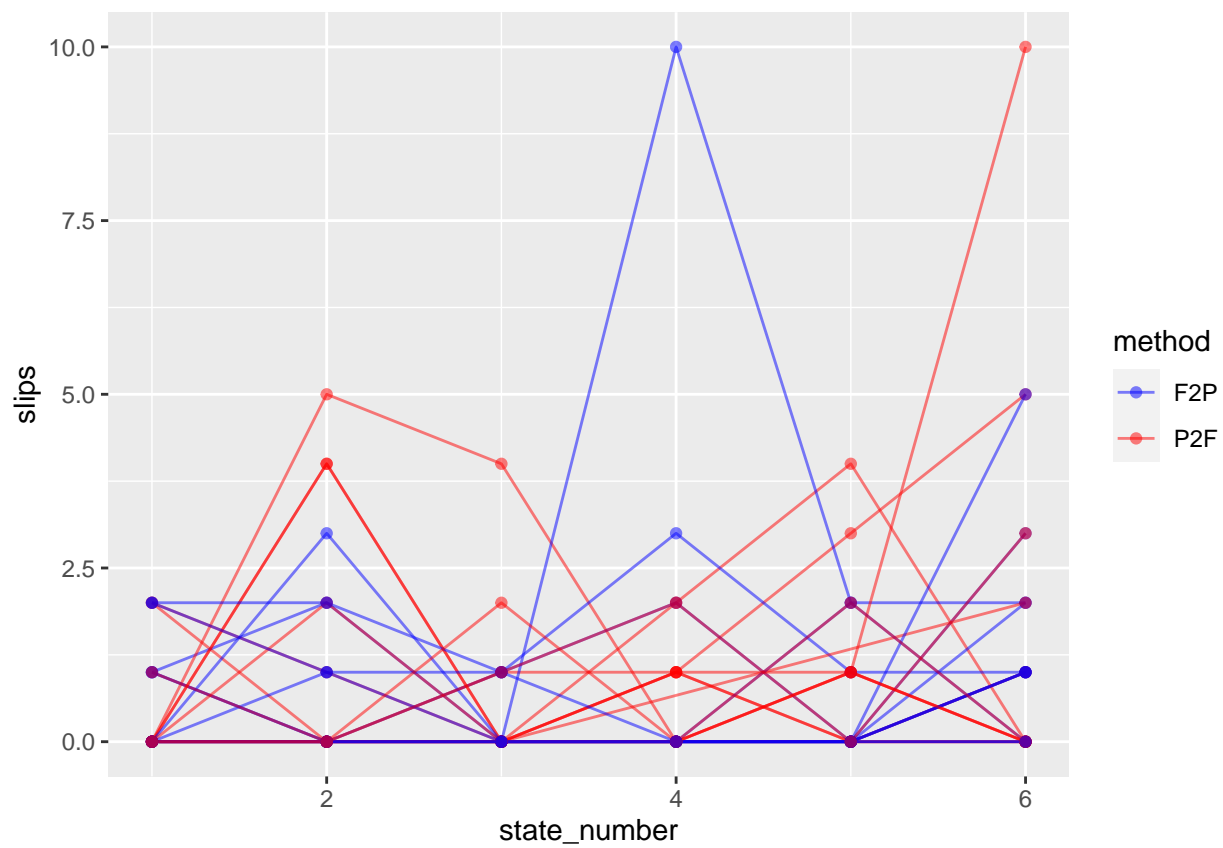


```
## 
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)    bias         SE
## 1.135       0.676       2.081        -0.002       0.318

## 
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)    bias         SE
## 1.028       0.556       1.917        0.001        0.316

## 
## User-specified lambdas: (P2F, F2P)
## Scaled lambdas: (-1, 1)
## 95.00% bca Confidence Interval, 5000 replicates
## Stat        CI (Low)    CI (High)    bias         SE
## -0.107      -0.985      0.812        -0.011       0.456
```

**Learnability**



Todo: Test this with Linear Mixed Model