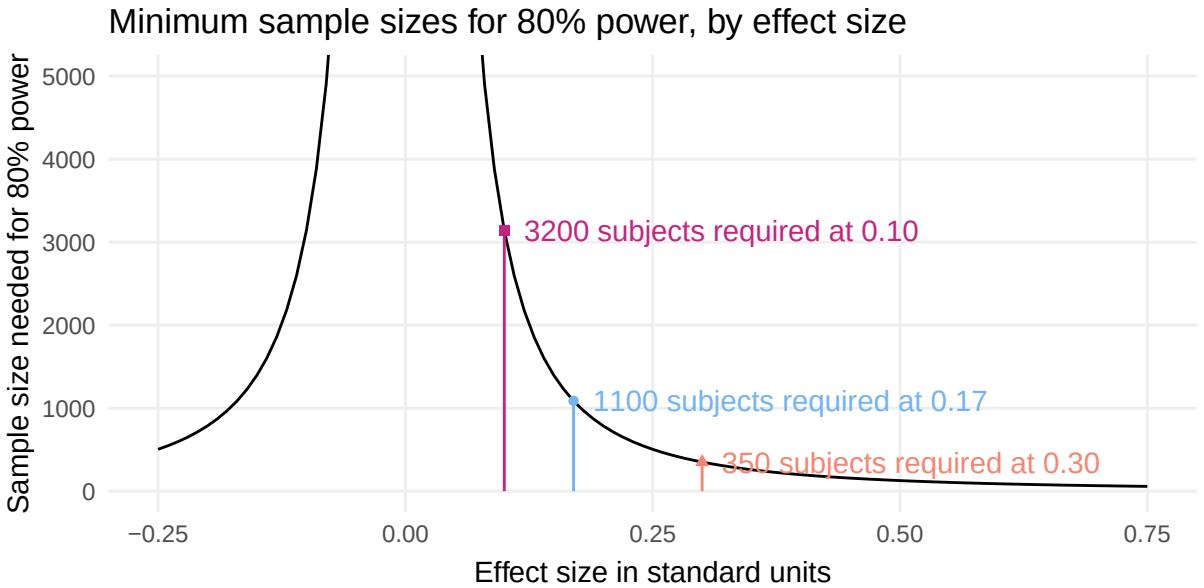
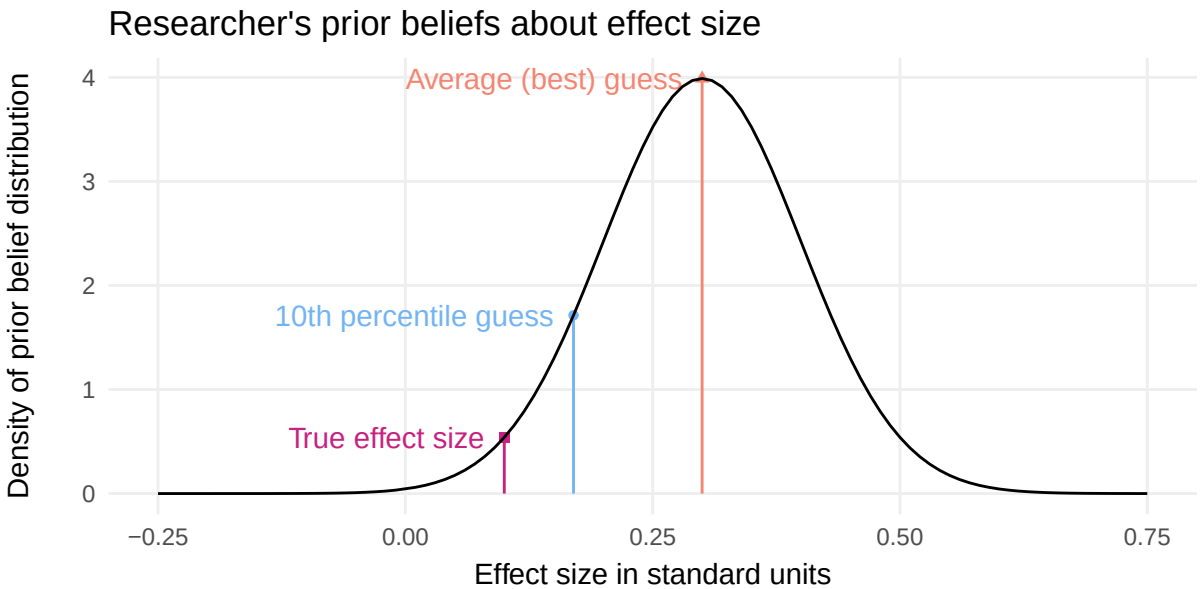

Minimum sample sizes for 80% power, by effect size
Sample size needed for 80% power
5000
4000
3000
2000
1000
0
3200 subjects required at 0.10
1100 subjects required at 0.17
350 subjects required at 0.30
−0.25
0.00
0.25
0.50
0.75
Effect size in standard units


Researcher's prior beliefs about effect size
Density of prior belief distribution
4
3
2
1
0
Average (best) guess
10th percentile guess
True effect size
−0.25
0.00
0.25
0.50
0.75
Effect size in standard units