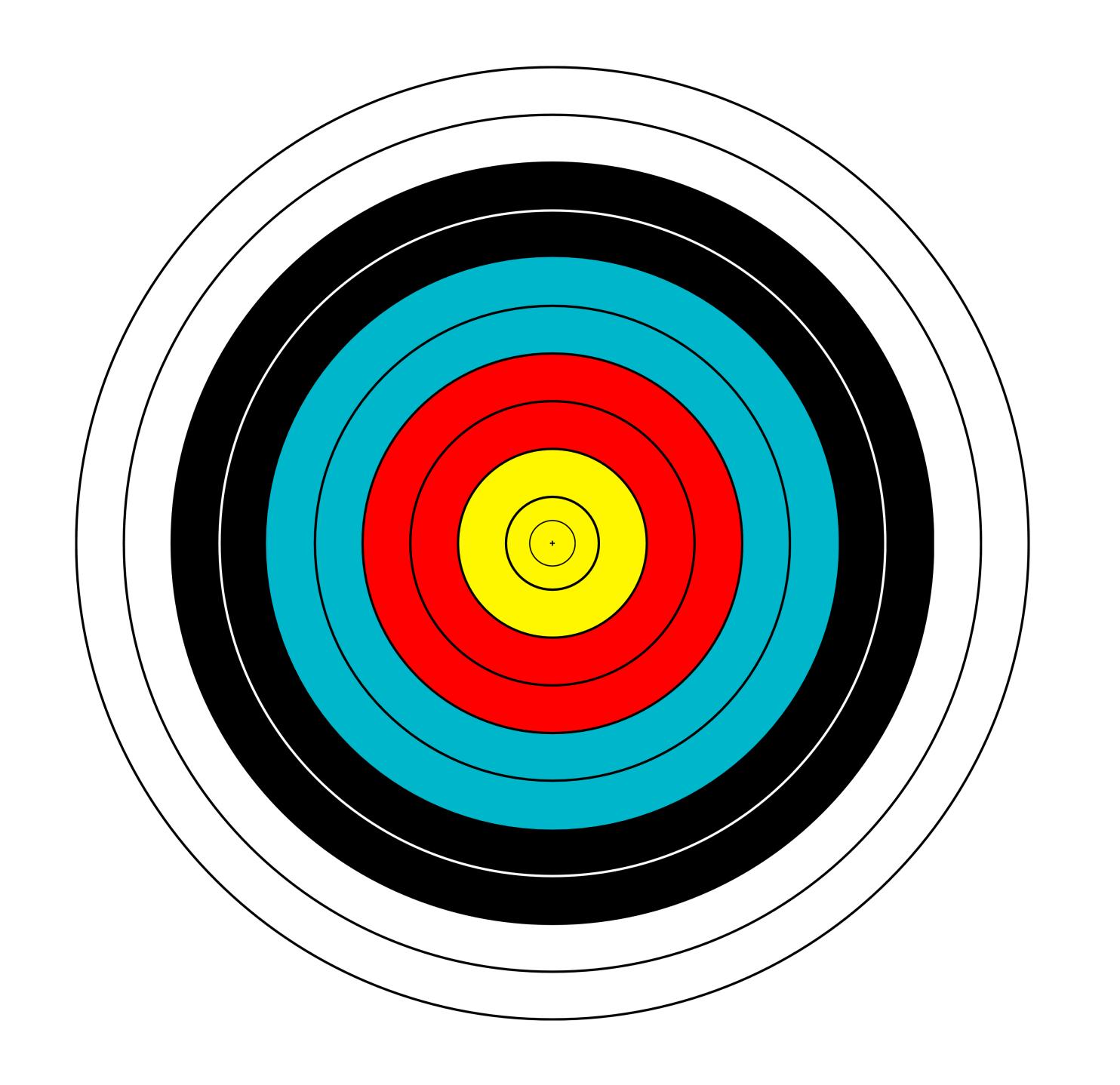
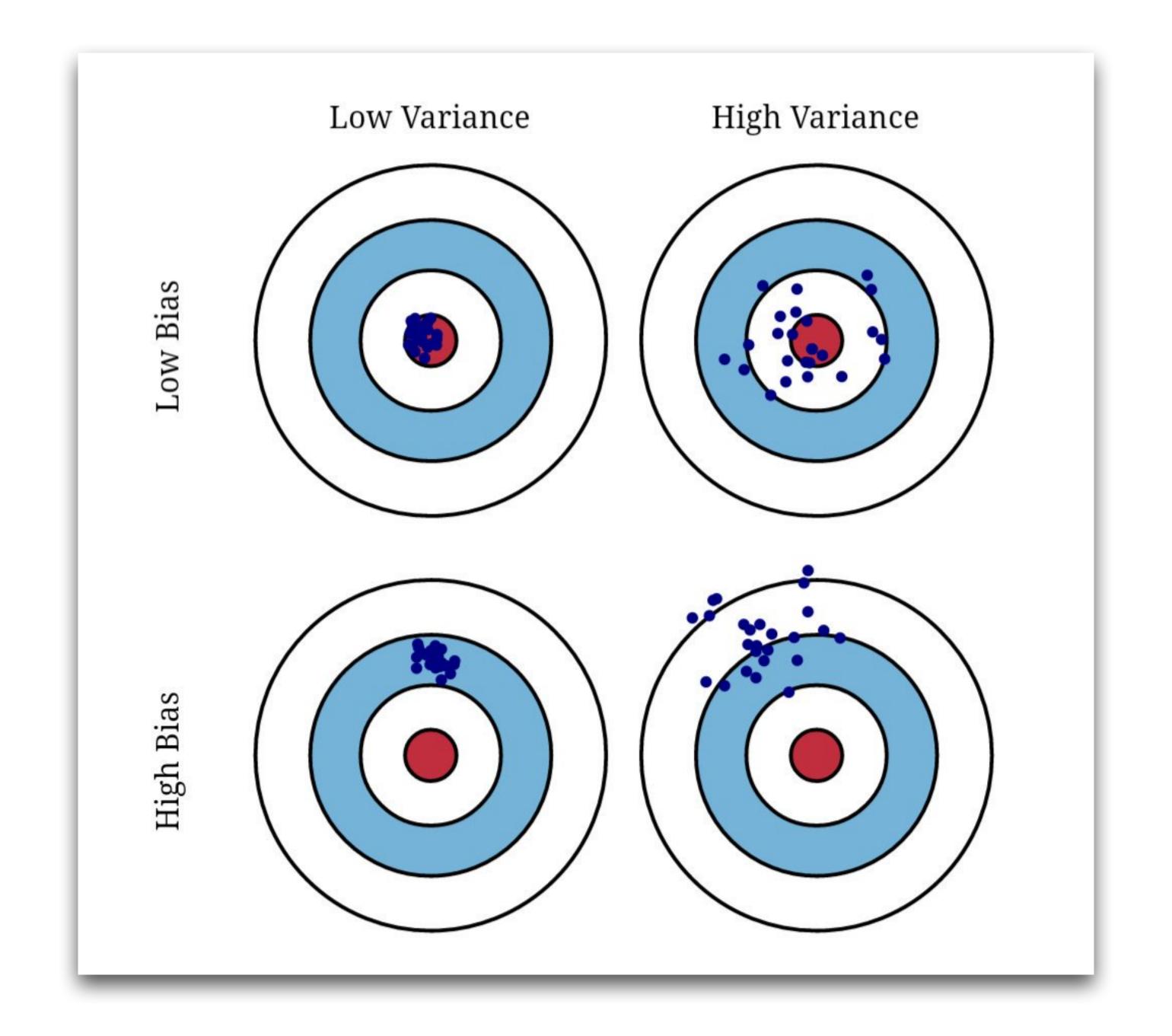


Estimation I: Bias, Variance, and Mean Squared Error

STAT 3202 | OSU | Dalpiaz







Definitions

$$bias[\hat{\theta}] = E[\hat{\theta}] - \theta$$

$$var[\hat{\theta}] = E[(\hat{\theta} - E[\hat{\theta}])^2]$$

$$MSE[\hat{\theta}] = E[(\hat{\theta} - \theta)^2] = \left(bias[\hat{\theta}]\right)^2 + var[\hat{\theta}]$$

Note: Grades as Estimation

Questions?

Comments? Concerns?

