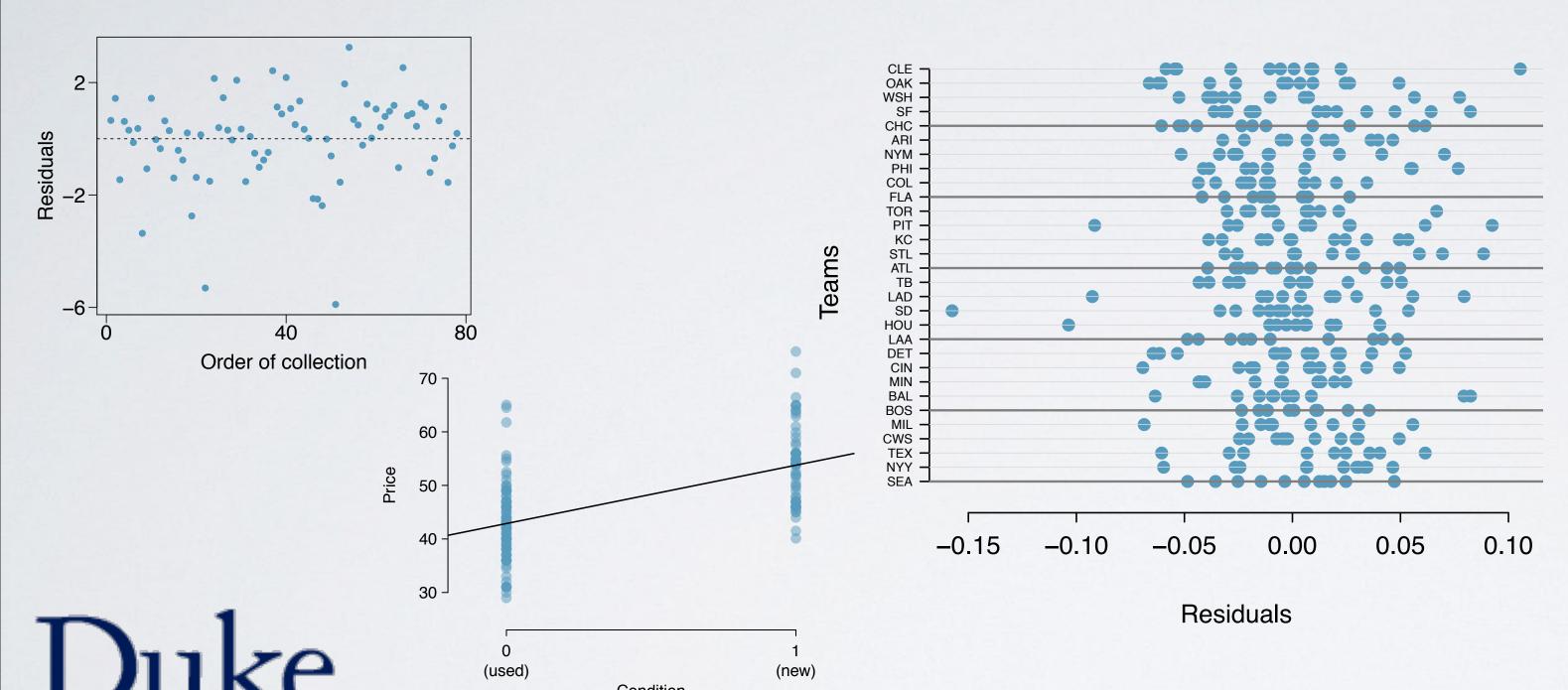
unit 7 multiple linear regression



Dr. Mine Çetinkaya-Rundel Duke University

predicting birth weight of babies from a variety of variables:

	bwt	gestation	parity	age	height	weight	smoke
1	120	284	0	27	62	100	0
2	113	282	0	33	64	135	0
1236	117	297	0	38	65	129	0

 $y \sim x_1 + x_2 + x_3 + x_4 + x_5 + x_6$

multiple
predictors

inference for MLR

model selection model diagnostics