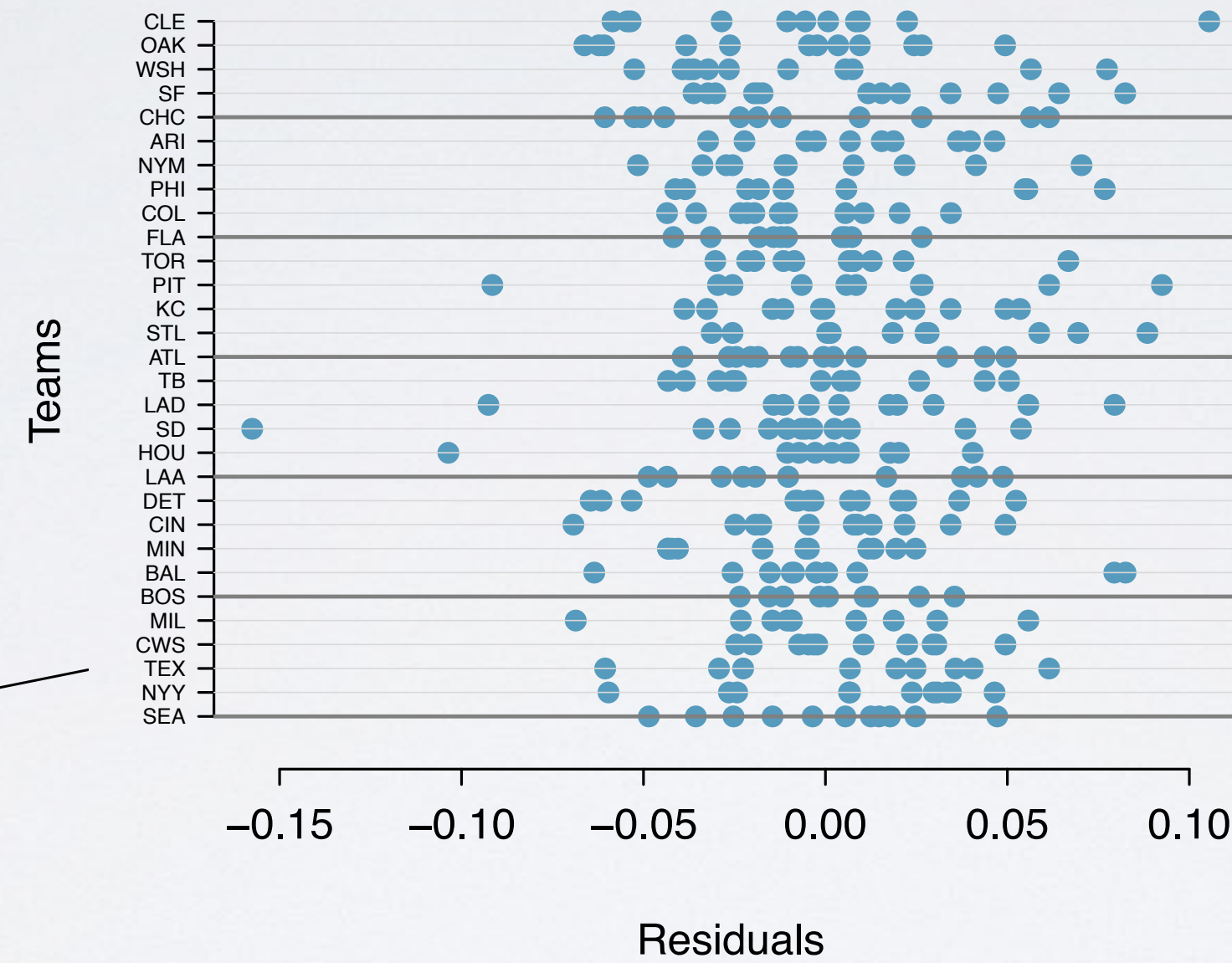
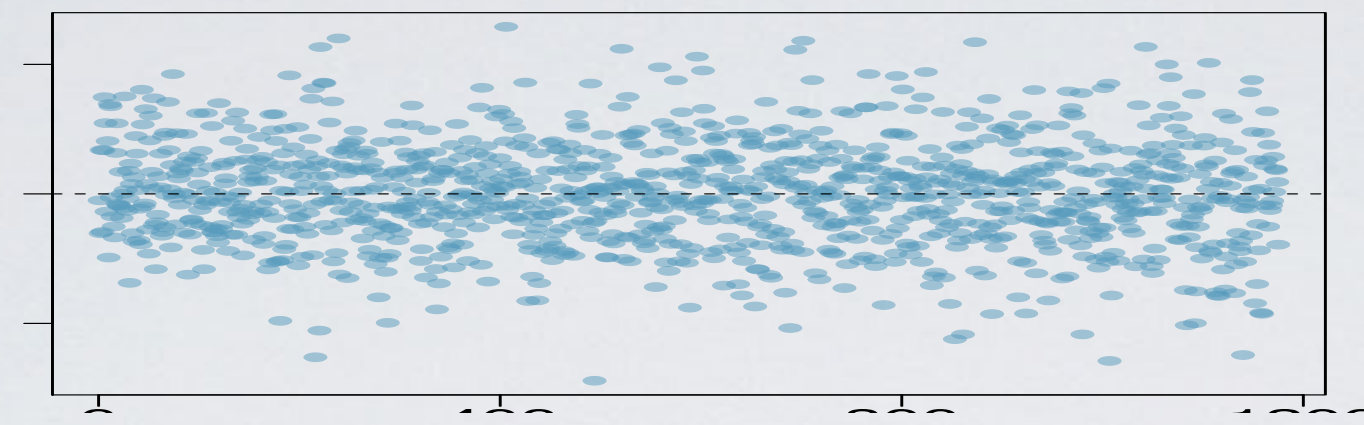
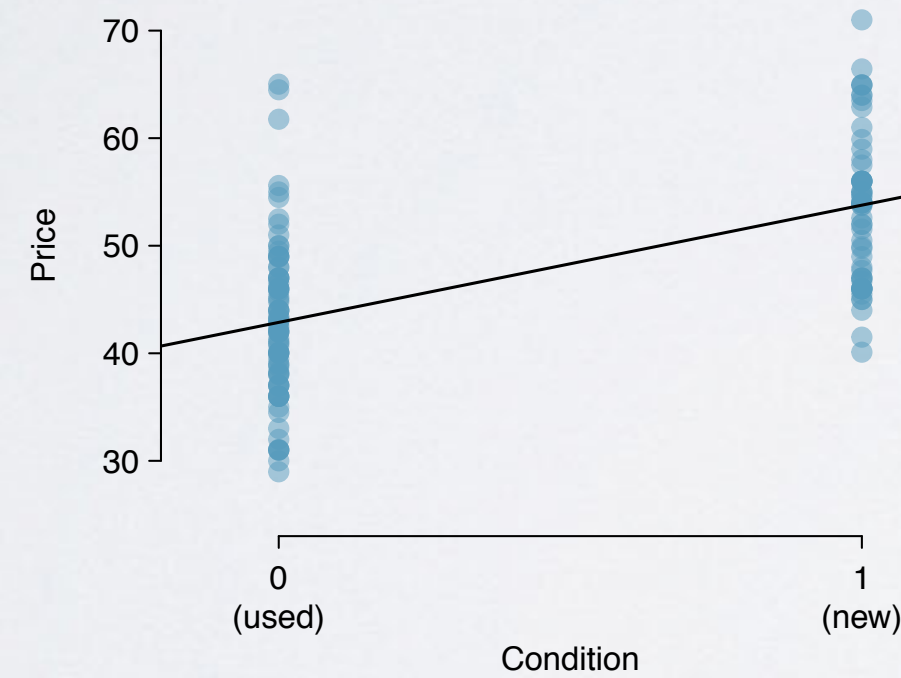
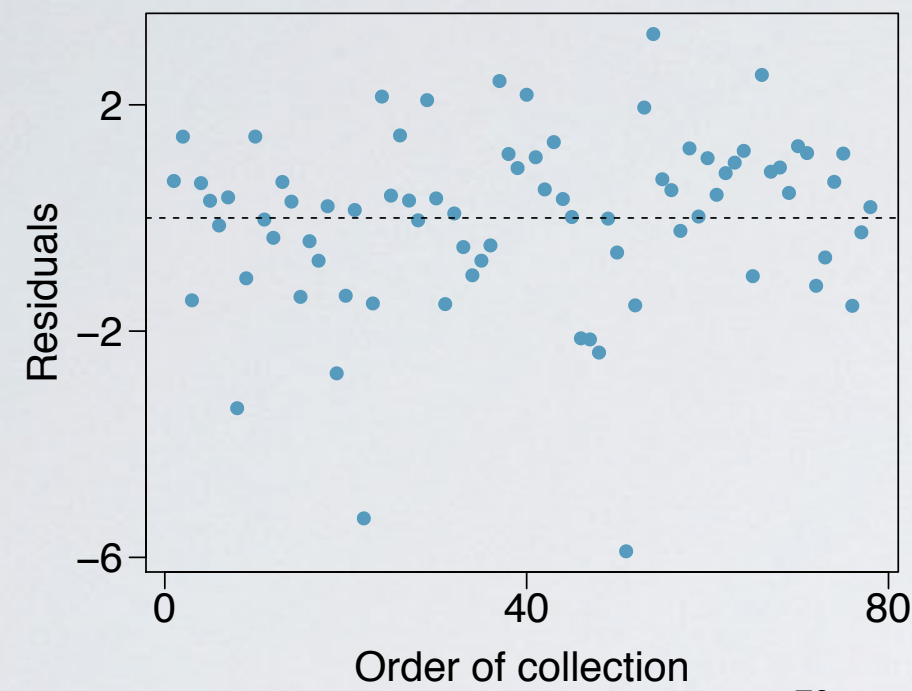


# multiple linear regression





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  
diagnostic  
s**