

### One Sample Tests About Binomial Probabilities

### The Location Of the Population

### One Sample Tests About Multinomial Probabilities

### The P-value

Reject  $H_0$ : P-value  $< \alpha$

### Hypothesis Testing Left Sided

$H_0: p > p_0$ ,  $H_a: p < p_0$

Critical Region: Reject  $H_0$ : if  $X < c$

Pvalue:  $P(X < x_0 | p = p_0)$

### Hypothesis Testing Right Sided

$H_0: p < p_0$ ,  $H_a: p > p_0$

Critical Region: Reject  $H_0$ : if  $X > c$

Pvalue:  $P(X > x_0 | p = p_0)$



By **erinlamey**

[cheatography.com/erinlamey/](http://cheatography.com/erinlamey/)

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