



predictum

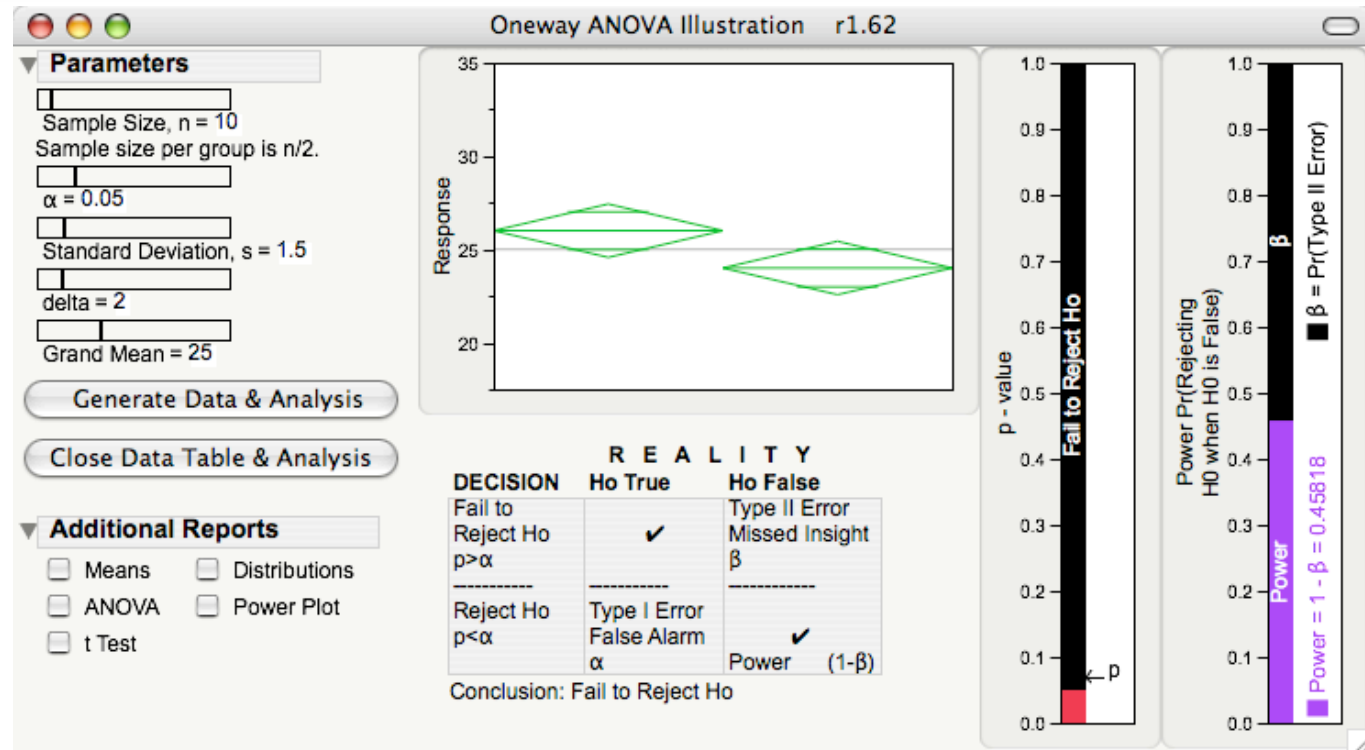
t Distribution and Hypothesis Testing

minimum requirements:
JMP v 7.02 + curiosity
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Oneway ANOVA: Instructions

Learning Objectives

- Explore how size, n and alpha affect the shape of the t distribution
- Explore Type I Errors
- Compare the t distribution to the standard normal (z) distribution
- Conduct t and z tests
- Explore hypothesis testing



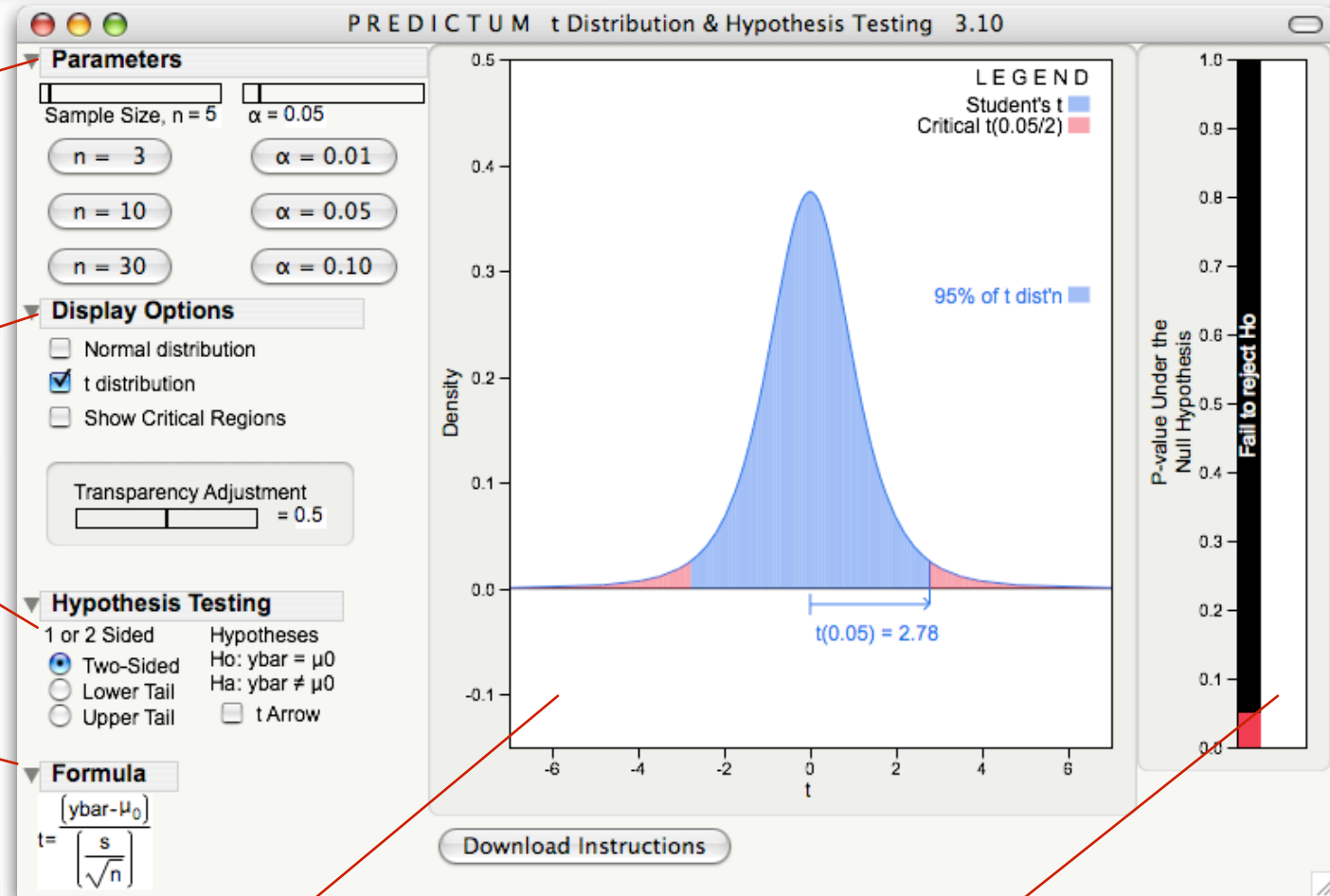
t Distribution and Hypothesis Testing: Instructions

Parameters: sample size and alpha dynamically drive various graphical elements

Several display options for the center graph. More examples on the pages that follow.

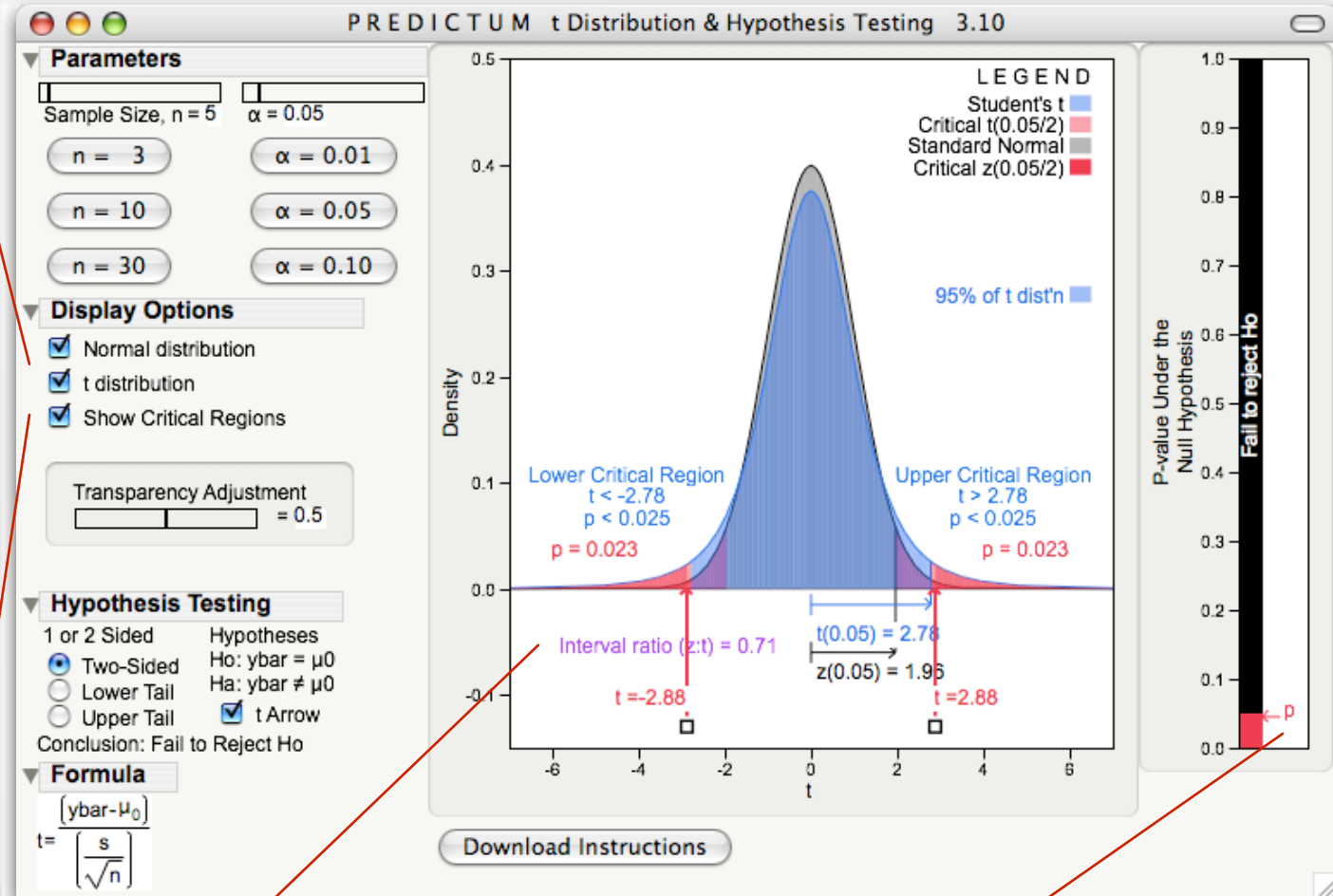
Choose between 1 and 2 sided tests. The Hypotheses update accordingly.

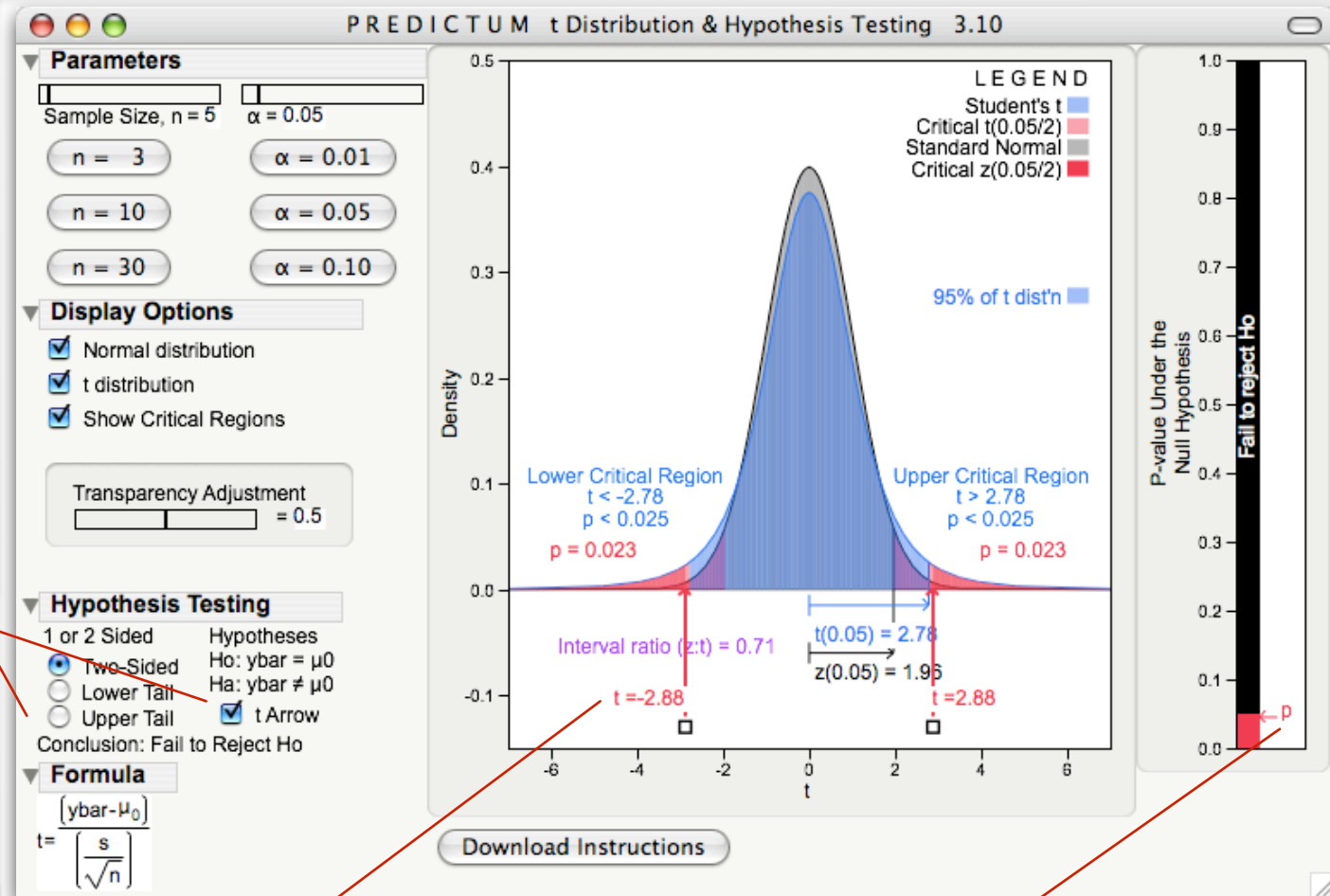
Formula for calculating t.



Comparing the Normal (z) to the t distribution is accomplished by showing the Normal via this check box.

Critical regions appear on the graph via this check box.



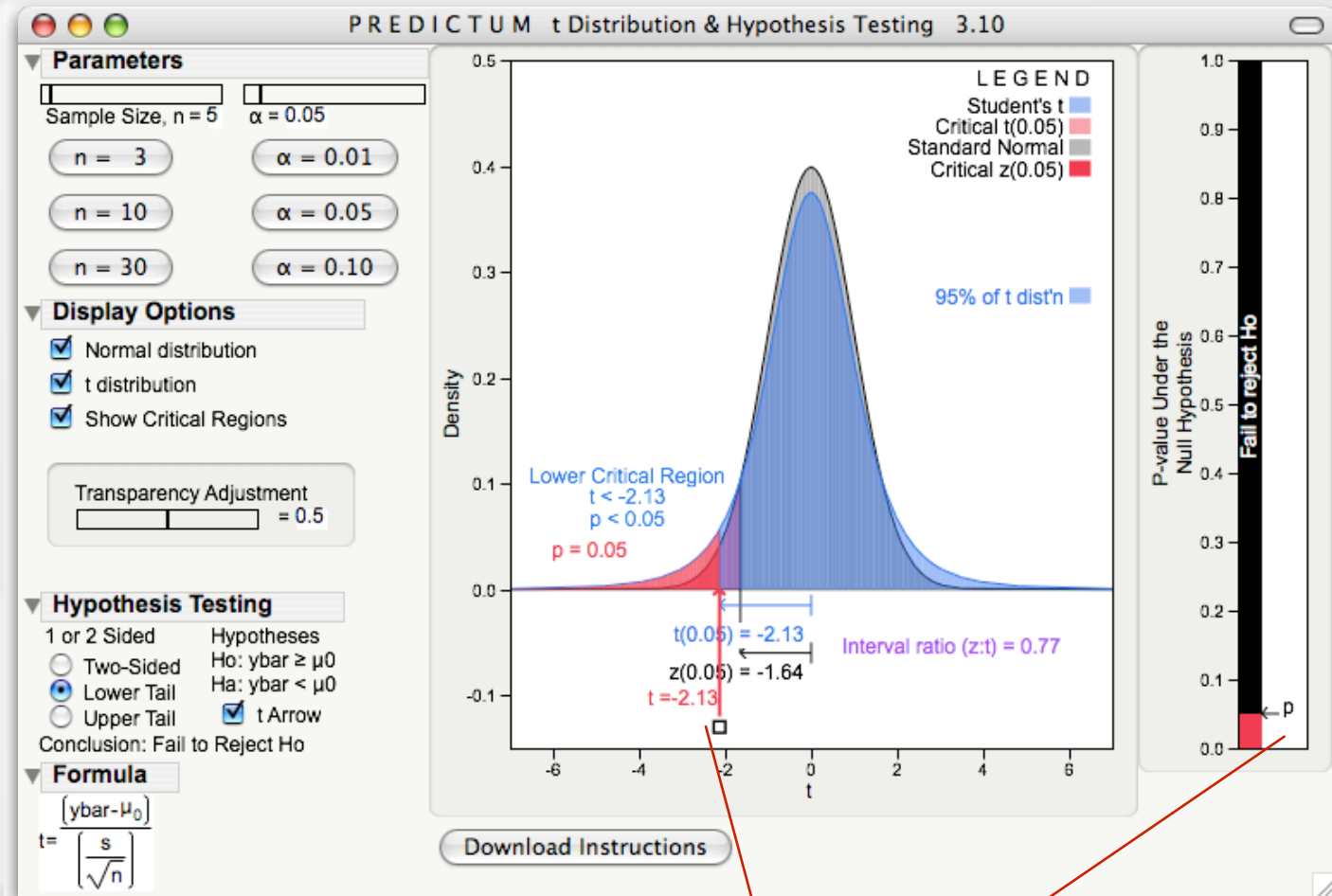


A conclusion is added whenever the t arrow is revealed (click on the t Arrow checkbox).

Selecting t Arrow check box reveals arrows with corresponding t values at the base of the distributions.

A p-value appears in this chart moving up and down according to the value of t. When the arrow is in a critical region, the letter p changes from black to red.





At the base of each t-arrow is a drag-marker allowing you to set the t-value and not the corresponding area under the curve beyond the arrow.

The p-value updates according to the position of the t-arrow.



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APPLIED STATISTICAL ESSENTIALS

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