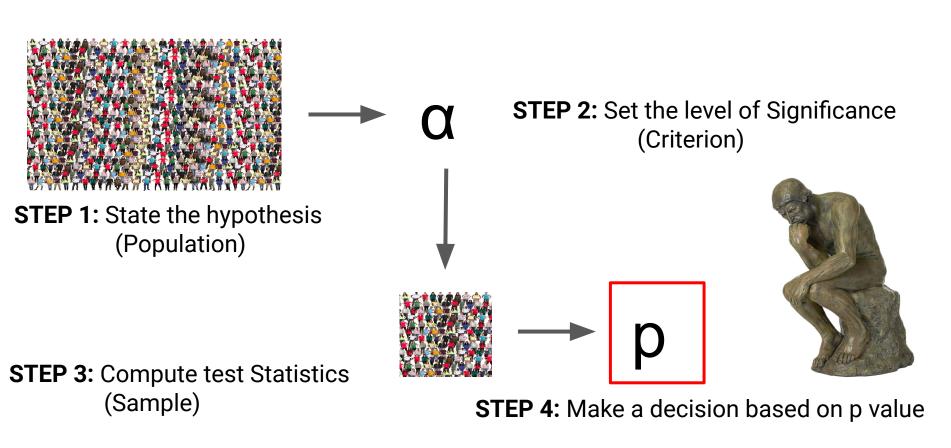
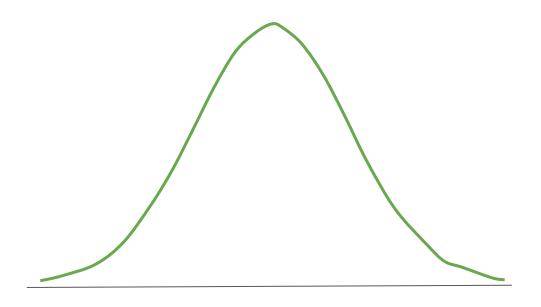
Hypothesis Testing



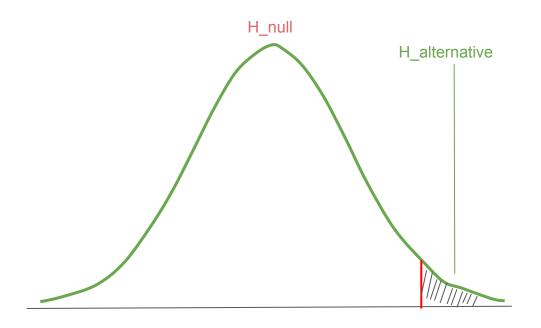
Steps for Hypothesis Testing



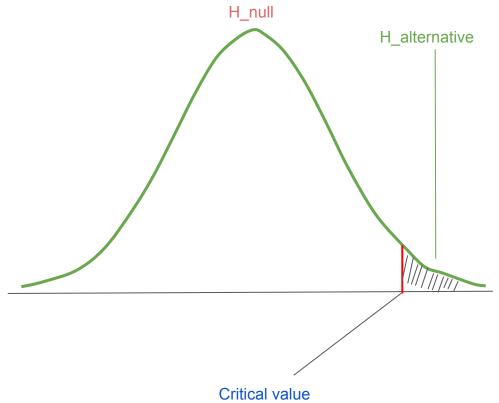




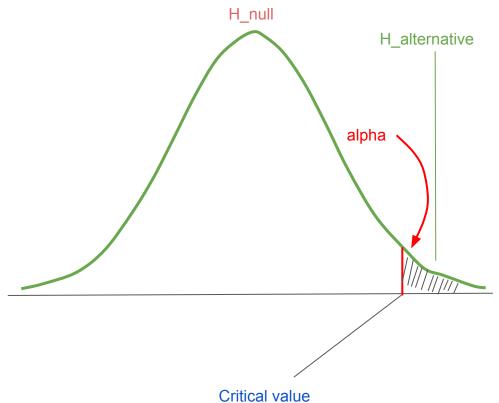




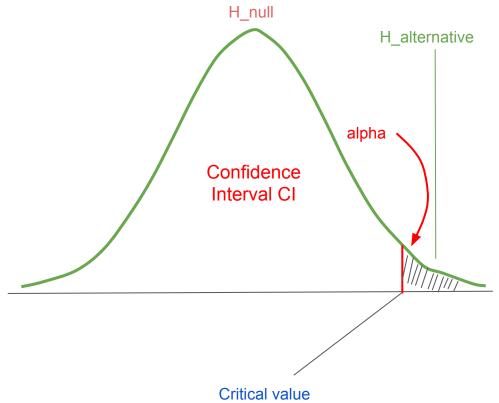




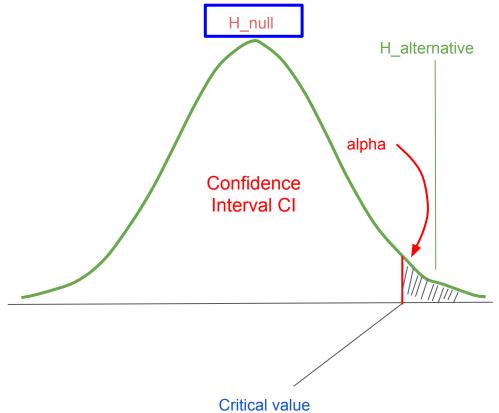




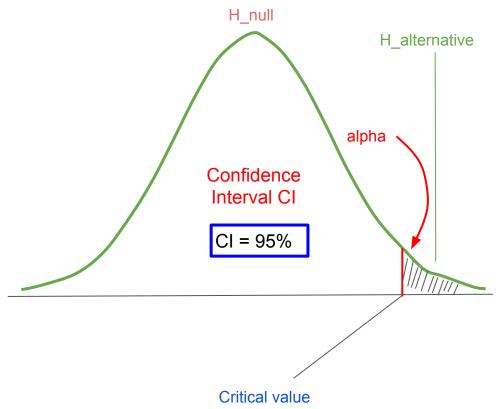




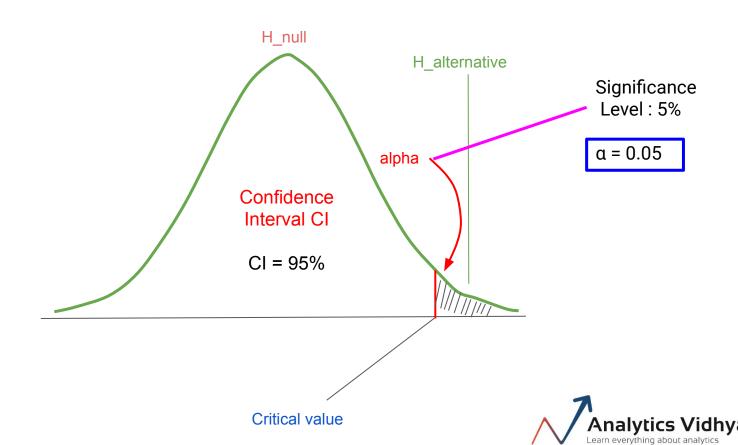




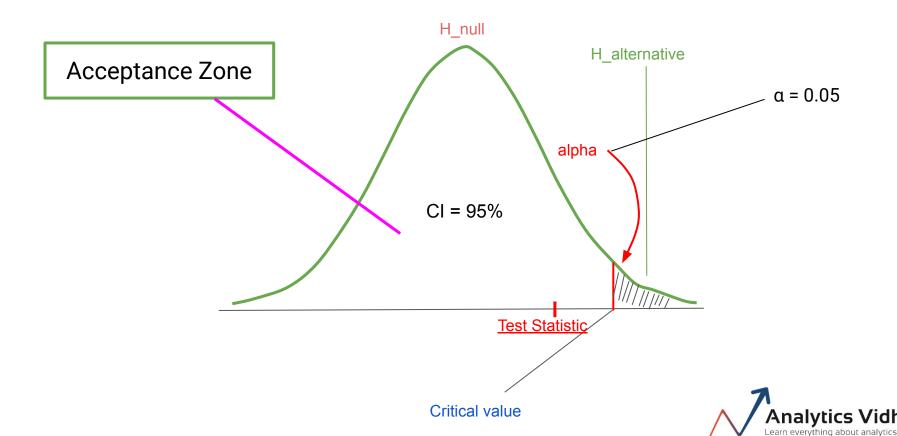




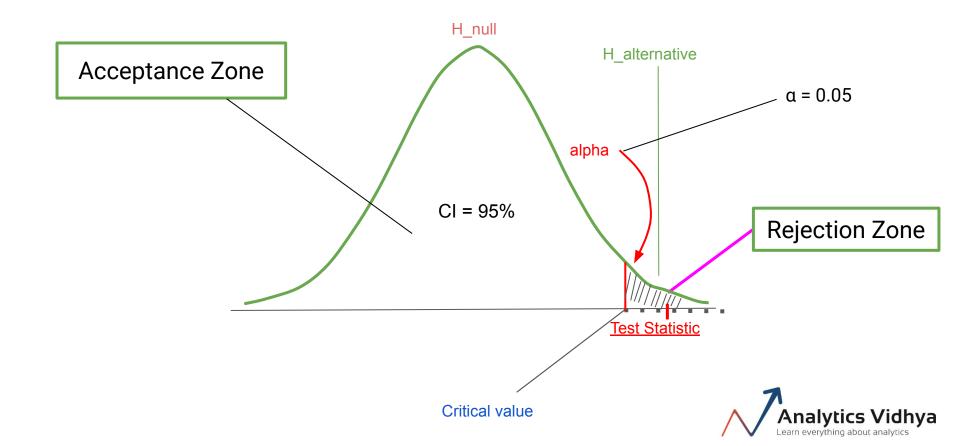


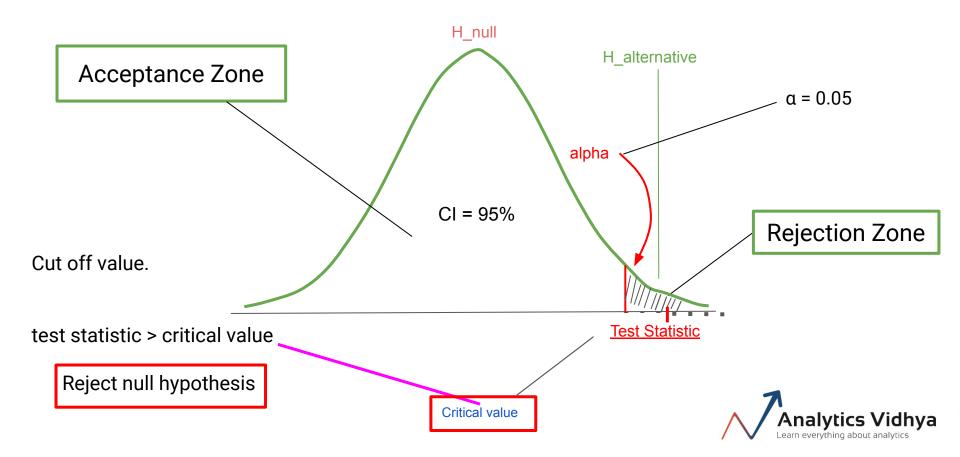


Acceptance Zone

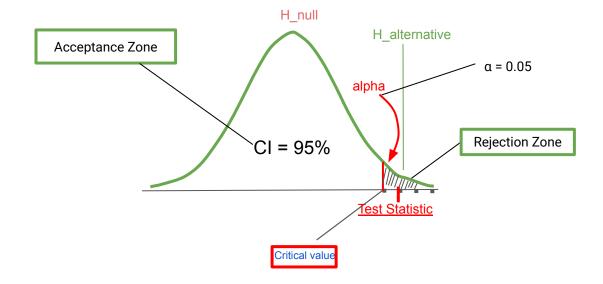


Rejection Zone





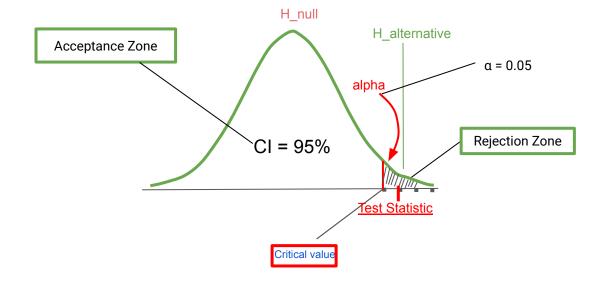
Different significance level needs different critical value.





Different significance level needs different critical value.

Calculate test statistic and critical value.

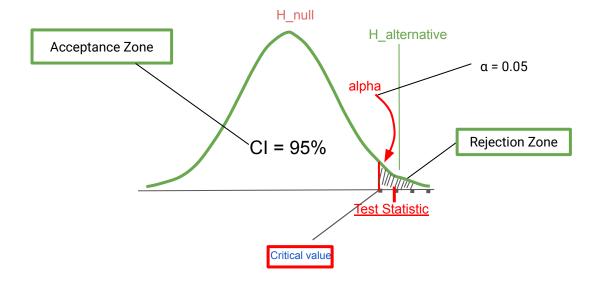




Different significance level needs different critical value.

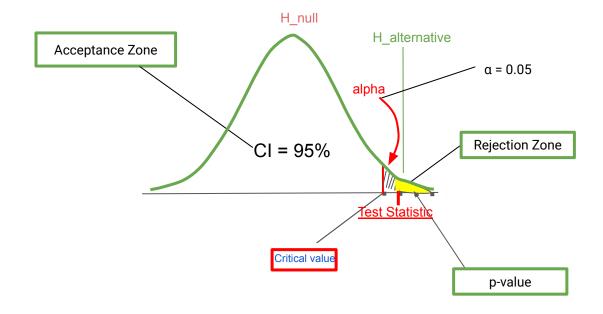
Calculate test statistic and critical value



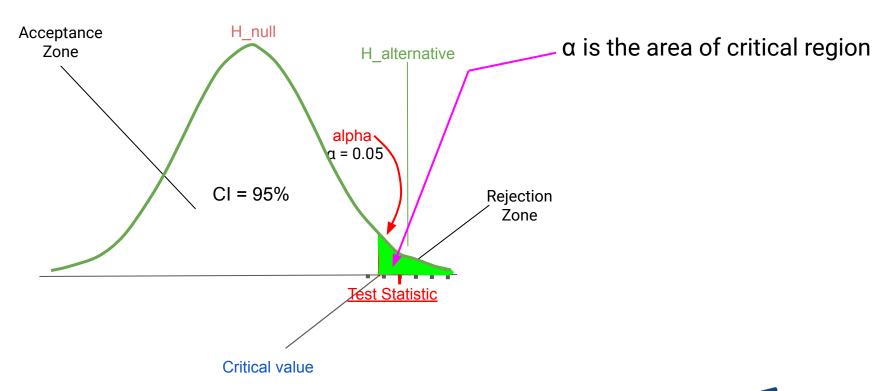




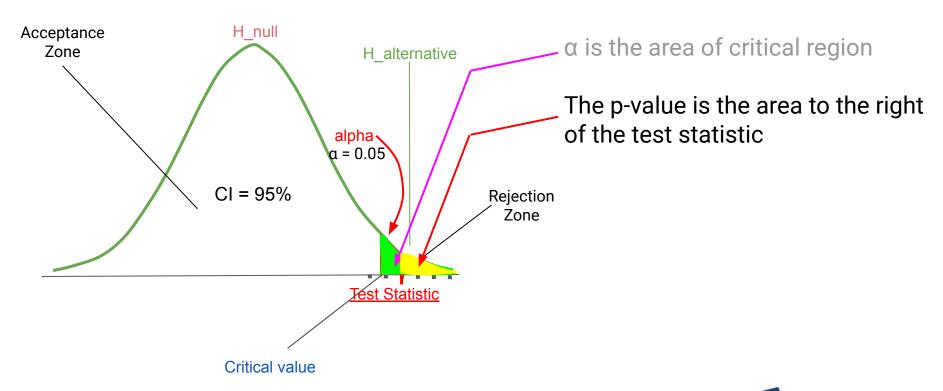
So We calculate p-value.



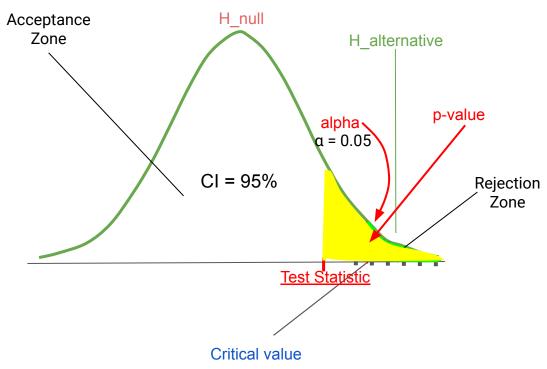












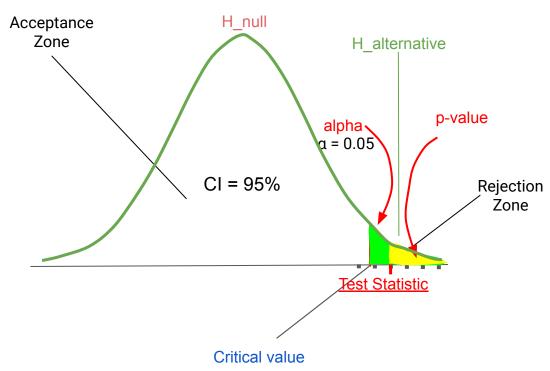
 α is the area of critical region

The p-value is the area to the right of the test statistic

Rejection When test statistic in acceptance region ----> p-value < α

Fail to reject H₀





 α is the area of critical region

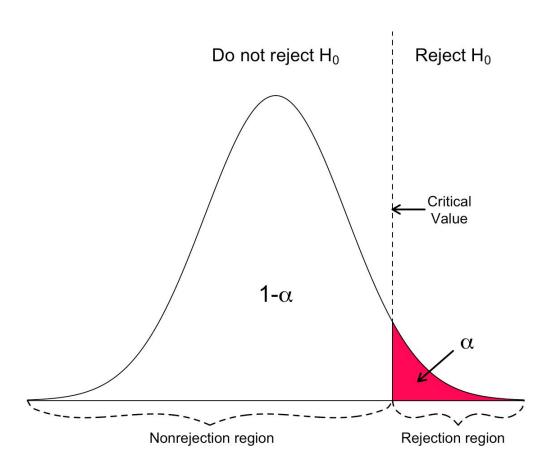
The p-value is the area to the right of the test statistic

When test statistic in critical region, p-value $< \alpha$

Reject H₀

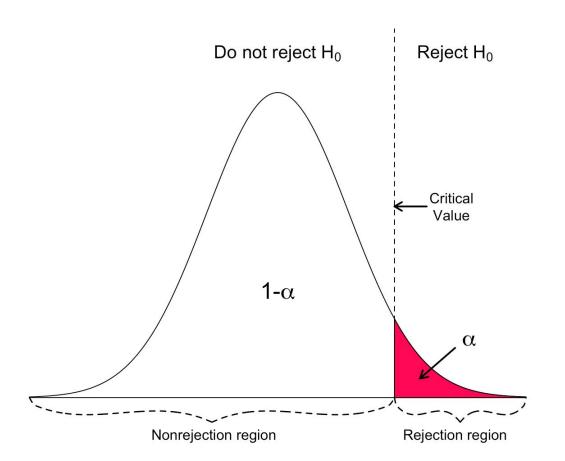


Directional Hypothesis





Directional Hypothesis

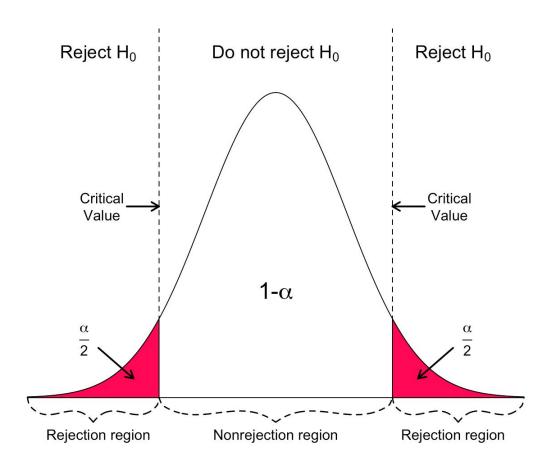


Ex. Females will score significantly higher than Males on IQ score



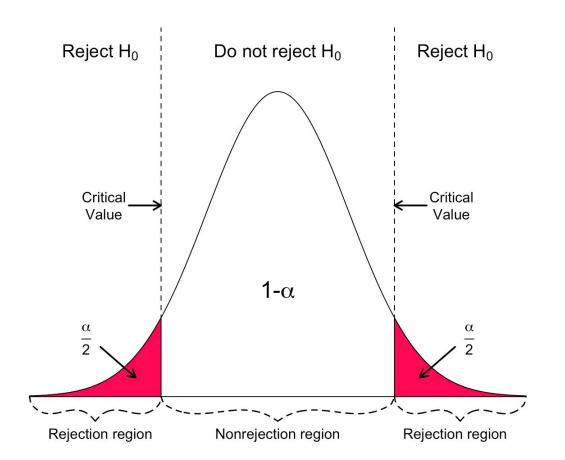


Non Directional Hypothesis





Non Directional Hypothesis



Ex. Females will score significantly different than Males on IQ score





Thank You!

