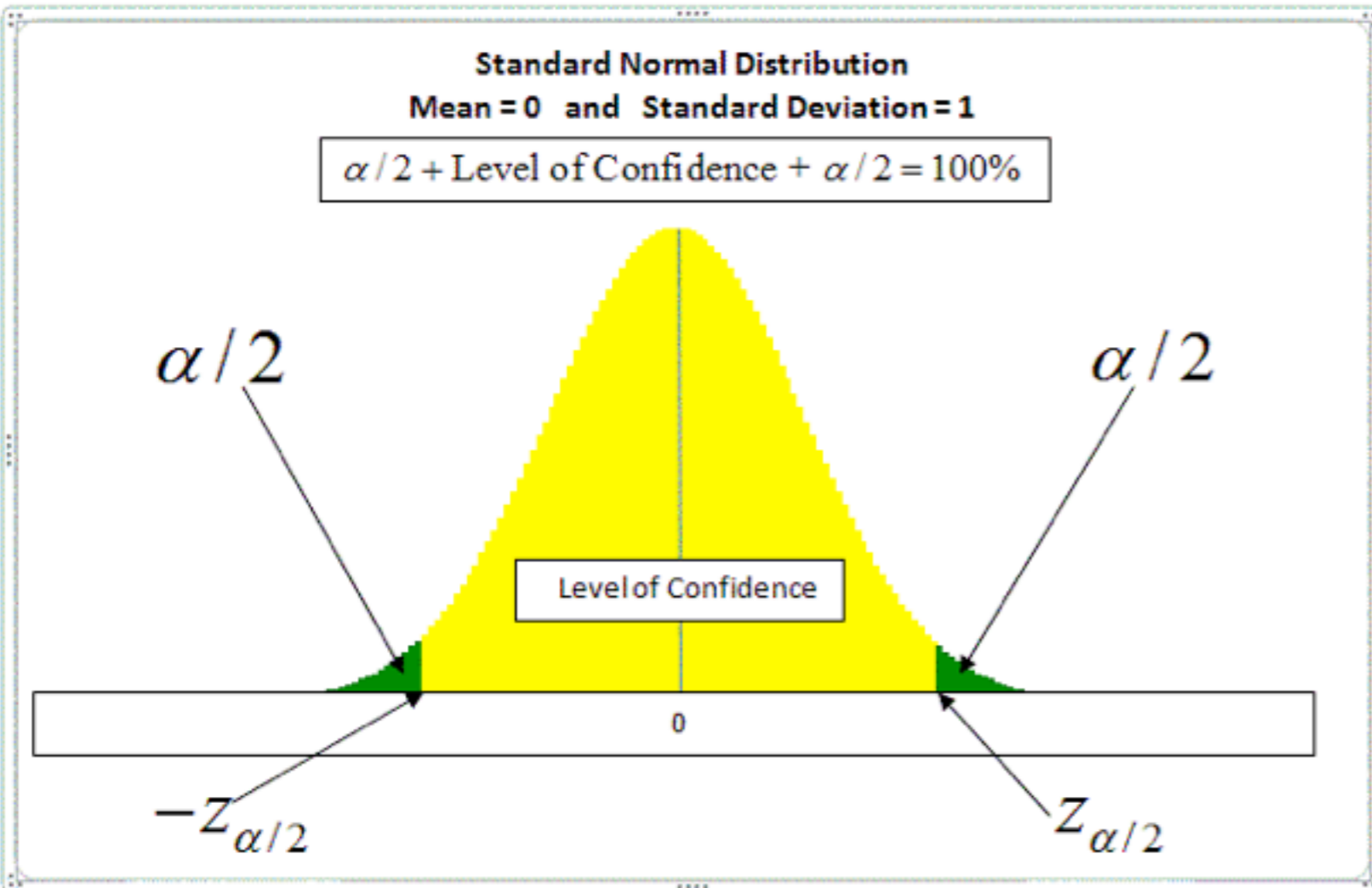


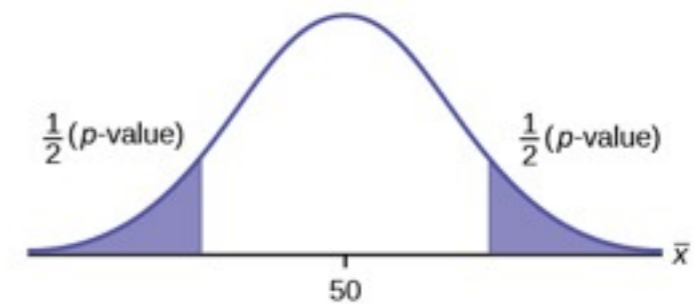
Inferential statistics: 95% confidence interval, p value and type I (alfa) error



Ask Mish



- P VALUE:
- When we chose a 95% confidence interval we accepted that we have a probability p of making a mistake in 5% cases, meaning a $p=0.05$ also known as p value



- TYPE I aka ALFA ERROR
- It is the error itself. When you recognize a good outcome when in reality is not you commit an error aka TYPE I or ALFA error. In statistics where 95% confidence interval is generally accepted there is a 5% cases that you can make a type I (ALFA) error.
- $p = \text{probability} < / = 0.05$ to make an error in a study while type I (ALFA) is the error you actually make in 5% of outcomes at 95% C.I.