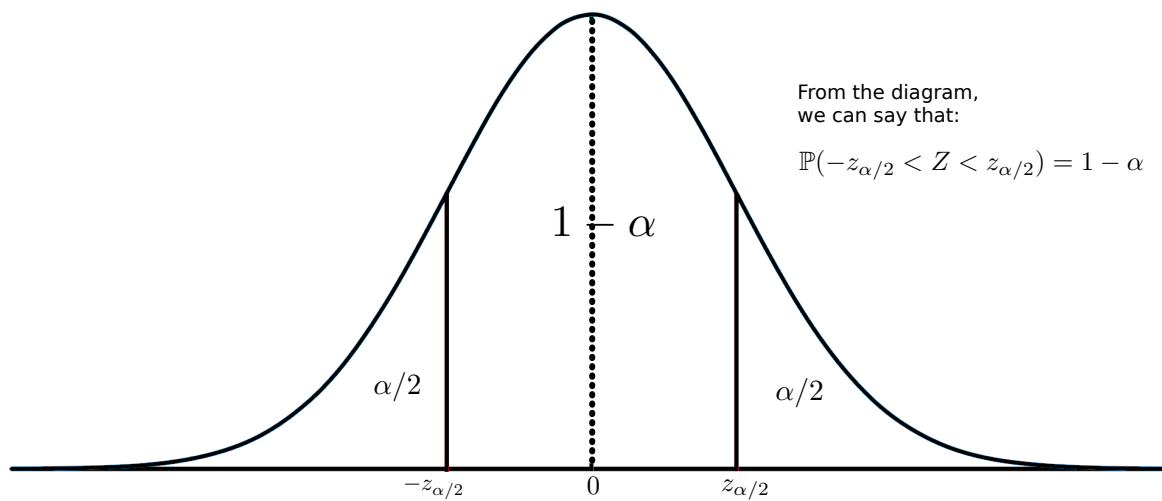


Due to the symmetry
of the normal,
it follows that:

$$|z_a| = |z_{1-a}|$$

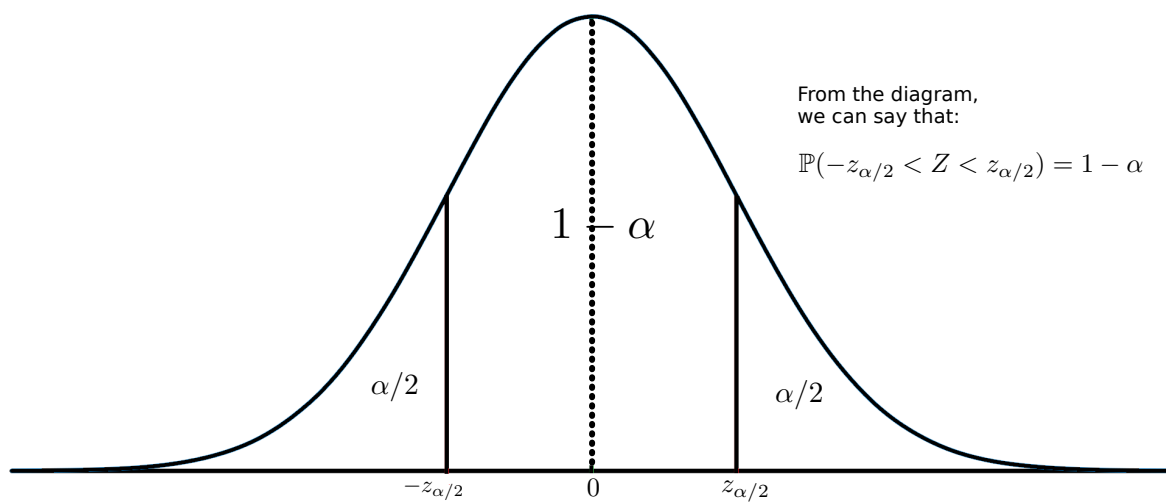
and:

$$z_{1-a} = -z_a$$



From the diagram,
we can say that:

$$\mathbb{P}(-z_{\alpha/2} < Z < z_{\alpha/2}) = 1 - \alpha$$



From the diagram,
we can say that:

$$\mathbb{P}(-z_{\alpha/2} < Z < z_{\alpha/2}) = 1 - \alpha$$

