Door handing comes in four different varieties:

Left hand
Left hand reverse

Right hand
Right hand reverse

These determine on which side the key cylinder should be located.

Left hand: hinges on left, opens inward
Left hand reverse: hinges on left, opens outward
Right hand: hinges on right, opens inward
Right hand reverse: hinges on right, opens outward

The handing of doors is always determined from the outside. The figure above is either entering the building from outside, or is entering a room from the hallway.