Three electric bulbs (Michael, Poland)

You are outside a closed room. Inside the room there are three electric bulbs. Outside the room there are three switches, and each switch controls exactly one bulb. The door is closed, so you cannot see the bulbs from outside. You may flip the switches however you want. But you are allowed to enter the room only once. The question is how do you determine which switch controls which bulb?

Answer:
The key to the solution is to use not only the light, but also the temperature of the three bulbs in the following way: you turn on the first and leave it on for a few minutes. Then you turn it off. Next, you turn the second switch on and at this point you enter the room. Inside the room the bulb which is on is controlled by the second switch (which you have just turn on). The bulb that is off but warm is controlled by the first switch, and the bulb that is off but cold is controlled by the third switch. So it's actually very simple, because the bulb that had been turned on first will stay want for a while, which makes it easy to recognise it even when it is off.